NASA CR-
141542

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

(NASA-CR-141542) AERODYNAMIC RESULTS OF A
SEPARATION EFFECTS TEST (IA87) ON A
0.01-SCALE MODEL (52-CTS) OF THE INTEGRATED
SSV IN THE AEDC/VKF 40-BY-40 INCH SUPERSONIC
WIND TUNNEL A, VOLUME 2 (Chrysler Corp.)

N75-30234

Unclas
G3/18 31074

AUG 1975

SPACE SHUTTLE

AERODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANagement services
SPACE DIVISION CHRYSLER CORPORATION

June, 1975

DMS-DR-2192
NASA CR-141,542

AERODYNAMIC RESULTS OF A SEPARATION EFFECTS TEST (IA87) ON A 0.01-SCALE MODEL (52-OTS) OF THE INTEGRATED SSV IN THE AEDC/VKF 40-BY-40 INCH SUPERSONIC WIND TUNNEL A

VOLUME 2 of 2

By

J. H. Campbell, II
Rockwell International Space Division

Prepared under NASA Contract Number NAS9-13247

By

Data Management Services
Chrysler Corporation Space Division
New Orleans, La. 70189

for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number:	AEDC V41A-60A
NASA Series Number:	IA87
Test Dates:	July 18-19, 1974
Occupancy Hours:	24 (Chargeable)
Model Number:	52-OTS

FACILITY COORDINATOR:

Larry L. Trimmer
ARO, Inc.
VKF/Projects
Arnold Air Force Station
Tennessee 37389

Phone: (615) 455-2611, Ext. 7377

AERODYNAMIC ANALYSIS ENGINEERS:

Paul Pearson
Carl Knudsen
Rockwell International
12214 Lakewood Blvd.
Mail Stop 390/100, AC07
Downey, California 90241

Phone: (213) 922-4745

PROJECT ENGINEERS:

J. H. Campbell, II
Rockwell International
12214 Lakewood Blvd.
Mail Stop 390/100, AC07
Downey, California 90241

Phone: (213) 922-4898

Robert Burt
ARO, Inc.
VKF/Projects
Arnold Air Force Station
Tennessee 37389

Phone: (615) 455-2611
Ext. 7553

DATA MANAGEMENT SERVICES:

Prepared by: Liaison--D. W. Hersey
Operations--D. B. Watson

Reviewed by: G. G. McDonald, J. L. Glynn

Approved: N. D. Kemp, Manager
Data Management Services

Concurrence: for J. G. Swider, Manager
Flight Technology Branch

Chrysler Corporation Space Division assumes no responsibility for the data presented other than display characteristics.

AERODYNAMIC RESULTS OF A SEPARATION EFFECTS TEST (IA87) ON A 0.01-SCALE MODEL (52-OTS) OF THE INTEGRATED SSV IN THE AEDC/VKF 40-BY-40 INCH SUPERSONIC WIND TUNNEL A

By J. H. Campbell, II, Rockwell International Space Division

ABSTRACT

Experimental aerodynamic investigations were conducted, during the period July 18-19, 1974, in the AEDC/VKF Tunnel A facility on a 0.01-scale model (52-OTS) of the integrated Space Shuttle Vehicle, including only one SRB. The purpose of the investigation was to obtain data for close-in proximity (SRB to Orbiter / Tank) effects with the Orbiter/Tank combination at relatively high α and β attitudes, and with the SRB separation motors off.

The AEDC Captive Trajectory System (CTS), which supported the SRB, was used in conjunction with the tunnel primary sector (supporting the Orbiter/Tank) to obtain "grid" type separation effects data. The one symmetrical SRB model was used interchangeably to obtain both right-hand and left-hand SRB data.

Free-stream data were also obtained for the Orbiter/Tank and for the SRB. This data was used to provide baselines for proximity effects.

The entire investigation was conducted at a free-stream Mach number of 4.5 with unit Reynolds number ranging from 4.0 to 6.5 million per foot.

TABLE OF CONTENTS

Page

ABSTRACT iii

INDEX OF MODEL FIGURES 2

INDEX OF DATA FIGURES 3

NOMENCLATURE 6

INTRODUCTION 11

CONFIGURATIONS INVESTIGATED 12

TEST FACILITY DESCRIPTION 15

DATA REDUCTION 15

TABLES

- I. TEST CONDITIONS 17
- II. DATA SET/RUN NUMBER COLLATION SUMMARY 18
- III. MODEL DIMENSIONAL DATA 39

FIGURES

- MODEL 61
- DATA (SEE VOLUME 1)

APPENDIX

- TABULATED SOURCE DATA 71

INDEX OF MODEL FIGURES

Figure	Title	Page
1	Axis Systems	61
2	Model Sketches	
	a. Integrated Vehicle Configuration	62
	b. SRB Separation Geometry	63
	c. External Tank (T_{20}) Protrusions	64
	d. AEDC von Karman Gas Dynamic Facility Tunnel A	65
	e. Artist's Conception of the VKF/CTS Installed In Tunnel A	66
	f. Artist's Conception of the VKF/CTS With Roll-Pitch-Yaw Support	67
3	Installation Photographs	
	a. Side View	68
	b. Front Quarter View	69
	c. Rear Quarter View	70

INDEX OF DATA FIGURES

FIGURE	TITLE	SCHEDULE OF COEFFICIENTS	VARYING CONDITIONS	PAGES
4	RIGHT SRB AERO CHARACT SEPARATING FROM O/ET (ALPHA = -.4, BETA = 0)	(A)	(B)	1-36
5	RIGHT SRB AERO CHARACT SEPARATING FROM O/ET (ALPHA = -5.7, BETA = 0)	(A)	(B)	37-72
6	RIGHT SRB AERO CHARACT SEPARATING FROM O/ET (ALPHA = 10.3, BETA = 0)	(A)	(B)	73-108
7	RIGHT SRB AERO CHARACT SEPARATING FROM O/ET (ALPHA = 0, BETA = 5.4)	(A)	(B)	109-144
8	RIGHT SRB AERO CHARACT SEPARATING FROM O/ET (ALPHA = 0, BETA = 10.9)	(A)	(B)	145-180
9	RIGHT SRB AERO CHARACT SEPARATING FROM O/ET (ALPHA = -5.9, BETA = 10.8)	(A)	(B)	181-208
10	RIGHT SRB AERO CHARACT SEPARATING FROM O/ET (ALPHA = 10.2, BETA = 11.0)	(A)	(B)	209-252
11	RIGHT SRB AERO CHARACT SEPARATING FROM O/ET (ALPHA = 10.0, BETA = 15.8)	(A)	(B)	253-304
12	RIGHT SRB AERO CHARACT SEPARATING FROM O/ET (ALPHA = -5, BETA = 15.7)	(A)	(B)	305-372
13	LEFT SRB AERO CHARACT SEPARATING FROM O/ET (ALPHA = -.4, BETA = 0)	(A)	(B)	373-396
14	LEFT SRB AERO CHARACT SEPARATING FROM O/ET (ALPHA = -.4, BETA = 5.4)	(A)	(B)	397-420

INDEX OF DATA FIGURES (Continued)

FIGURE	TITLE	SCHEDULE OF COEFFICIENTS	VARYING CONDITIONS	PAGES
15	LEFT SRB AERO CHARACT SEPARATING FROM O/ET (ALPHA = -.5, BETA = 10.9)	(A)	(B)	421-444
16	LEFT SRB AERO CHARACT SEPARATING FROM O/ET (ALPHA = 5.9, BETA = 10.8)	(A)	(B)	445-464
17	LEFT SRB AERO CHARACT SEPARATING FROM O/ET (ALPHA = 10.2, BETA = 11.0)	(A)	(B)	465-488
18	LEFT SRB AERO CHARACT SEPARATING FROM O/ET (ALPHA = 10.6, BETA = 15.8)	(A)	(B)	489-508
19	LEFT SRB AERO CHARACT SEPARATING FROM O/ET (ALPHA = -.5, BETA = 15.7)	(A)	(B)	509-528
20	O/ET AERO CHARACT W/RIGHT SRB SEPARATING (ALPHA = -.4, BETA = 0)	(A)	(B)	529-564
21	O/ET AERO CHARACT W/RIGHT SRB SEPARATING (ALPHA = -5.7, BETA = 0)	(A)	(B)	565-600
22	O/ET AERO CHARACT W/RIGHT SRB SEPARATING (ALPHA = 10.3, BETA = 0)	(A)	(B)	601-636
23	O/ET AERO CHARACT W/RIGHT SRB SEPARATING (ALPHA = 0, BETA = 5.4)	(A)	(B)	637-672
24	O/ET AERO CHARACT W/RIGHT SRB SEPARATING (ALPHA = 0, BETA = 10.9)	(A)	(B)	673-708
25	O/ET AERO CHARACT W/RIGHT SRB SEPARATING (ALPHA = -5.9, BETA = 10.8)	(A)	(B)	709-744

INDEX OF DATA FIGURES (Concluded)

FIGURE	TITLE	SCHEDULE OF COEFFICIENTS	VARYING CONDITIONS	PAGES
26	O/ET AERO CHARACT W/RIGHT SRB SEPARATING (ALPHA = 10.2, BETA = 11.0)	(A)	(B)	745-780
27	O/ET AERO CHARACT W/RIGHT SRB SEPARATING (ALPHA = 10.0, BETA = 15.8)	(A)	(B)	781-832
28	O/ET AERO CHARACT W/RIGHT SRB SEPARATING (ALPHA = -.5, BETA = 15.7)	(A)	(B)	833-900

SCHEDULE OF COEFFICIENTS PLOTTED:

(A) = CN, CA, CLM, CY, CYN, CBL

VARYING CONDITIONS:

(B) = DALPHA, DBETA, X, Y

NOMENCLATURE

SYMBOL	AEDC TAB DATA SYMBOL	PLOT SYMBOL	DEFINITION
δ_a	AILRON	AILRON	ailron deflection angle, degrees
αSRB	ALP-B	ALPHA	SRB angle of attack. ALPHA = plot symbol for SRB isolated tests only; αSRB = α0/ET + $\Delta\alpha$ for all other data sets, degrees
$\alpha_{0/T}$	ALP-0/T	ALPHA	orbiter/tank angle of attack. All source data are presented as a function of α0/T except for isolated tests of the SRB; αSRB = α0/ET + $\Delta\alpha$ for all other data sets, degrees
β_{SRB}	BETA-B	BETA	SRB angle of sideslip. BETA = plot symbol for SRB isolated tests only; βSRB = β0/T + $\Delta\alpha$ for all other data sets, degrees
$\beta_{0/T}$	BETA-0/T	BETA	orbiter/tank angle of sideslip. All source data are presented as a function of α0/T except for isolated tests of SRB; αSRB = α0/T + $\Delta\alpha$ for all other data sets, degrees
δ_{BF}	BDFLAP	BDFLAP	body flap deflection angle, degrees
C_A	CAT	CA	axial-force-coefficient (excluding base and sting/balance cavity pressure adjustments, axial-force/$q_\infty S$)
C_n	CLN	CYN	yawing-moment coefficient, yawing-moment/$q_\infty S b_W$
C_ℓ	CLL	CBL	rolling-moment coefficient, rolling-moment/$q_\infty S b_W$
C_m	CM	CLM	pitching-moment coefficient, pitching moment/$q_\infty S \bar{c}$

NOMENCLATURE (Continued)

SYMBOL	AEDC TAB DATA SYMBOL	PLOT SYMBOL	DEFINITION
C_N	CN	CN	normal-force coefficient, normal-force/$q_\infty S$
$C_{P_{b1}}$	CPB1	CPB1	number one orbiter base pressure coefficient, $(P_{b1} - P_\infty)/q_\infty$
$C_{P_{b2}}$	CPB2	CPB2	number two orbiter base pressure coefficient, $(P_{b2} - P_\infty)/q_\infty$
C_{P_c}	CPC	CPC	sting/balance cavity pressure coefficient $(P_c - P_\infty)/q_\infty$
$\Delta\alpha$	DEL-ALP	DALPHA	parameter name for the nominal alpha difference between O/T and SRB, degrees. $(\Delta\alpha = \alpha_{SRB} - \alpha_{O/T})$
$\Delta\alpha$	DEL-ALP	DLTALF	coefficient name for alpha difference between O/T and SRB, degrees. $(\Delta\alpha = \alpha_{SRB} - \alpha_{O/T})$
$\Delta\beta$	DEL-BETA	DBETA	parameter name for nominal beta difference between O/T and SRB, degrees. $(\Delta\beta = \beta_{SRB} - \beta_{O/T})$
$\Delta\beta$	DEL-BETA	DLTBTA	coefficient name for the beta difference between O/T and SRB, degrees. $(\Delta\beta = \beta_{SRB} - \beta_{C/T})$
$\Delta\phi$	DEL-PHI		coefficient name for the roll angle difference between O/T and SRB, degrees. $(\Delta\phi = \phi_{SRB} - \phi_{O/T})$
δ_e	ELEVTR	ELEVTR	elevon deflection angle, degrees
Run No.	GROUP	RUN	test run sequence number
$\bar{c}$	L1	LREF	reference MAC, inches

NOMENCLATURE (Continued)

SYMBOL	AEDC TAB DATA SYMBOL	PLOT SYMBOL	DEFINITION
b_w	L2	BREF	reference wing span, inches
ℓ_{ref}	LM	LREF	reference length for non dimensionalizing the pitch and yaw center of pressure calculations, inches
M_∞	MACH	MACH	freestream Mach numbers
	NCP/L	NCP/L	non-dimensionalized center-of-pressure location in the normal-force plane, (length from model nose to center-of-pressure)/ℓ_{ref}
P_{b1}/P_∞	PB1/P8	PB1/P	number one base pressure ratio
P_{b2}/P_∞	PB2/P8	PB2/P	number two base pressure ratio
P_c/P_∞	PC/P8	PC/P	sting/balance cavity pressure ratio
ϕ_{SRB}	PHI-B		roll orientation of SRB in the tunnel, degrees
$\phi_{O/T}$	PHI-O/T	RHO	roll orientation of orbiter/tank in the tunnel, degrees
P_{t_∞}	PO,PSIA	PTOTL	freestream total pressure, psia
P_∞	P8,PSIA	P	freestream static pressure, psia
q_∞	Q8,PSI	Q(PSI)	freestream dynamic pressure, psi
R/ℓ	RE/FT	RN/L	freestream unit Reynolds number x 10^{-6}, per foot
δ_r	RUDDER	RUDDER	rudder deflection angle, degrees
S_w	S	SREF	reference wing area, ft^2
δ_{SB}	SPDBRK	SPDBRK	speed brake flare angle, degrees

NOMENCLATURE (Continued)

SYMBOL	AEDC TAB DATA SYMBOL	PLOT SYMBOL	DEFINITION
T_{t_∞}	TO,R	TTOTL	freestream total temperature, °R
T_∞	T8,R	T	freestream static temperature, °R
	W		model weight, lbs
	X		longitudinal distance from the model weight cg to the forward moment gage of the balance, inches
	XT		longitudinal distance from the balance forward moment gage to the MRC, inches
ΔX	X,IN.	X	longitudinal distance from SRB nose in mated position to SRB nose in displaced position, positive aft along O/ET longitudinal axis, inches
		XMRP	X station of the MRC (tank station, X_T, is listed in the DATAMAN plots for the orbiter/tank combination), inches
	Y		lateral distance from the model weight cg to the centerline of the balance
	YCP/L	YCP/L	non-dimensionalized center-of-pressure location in the side-force plane, (length from model nose to center-of-pressure)/ℓ_{ref}
	YT		lateral distance from the balance centerline to the MRC, inches
ΔY	Y, IN.	Y	lateral distance from SRB nose in mated position to SRB nose in displaced position, positive along O/ET starboard axis, inches

NOMENCLATURE (Concluded)

SYMBOL	AEDC TAB DATA SYMBOL	PLOT SYMBOL	DEFINITION
ΔY_C	YC,IN.	Y	same as Y above, except orbiter/tank roll is accounted for (this is the Y referred to on the DATAMAN plots), inches
		YMRP	Y station of the MRC (tank station, Y_T, is listed in the DATAMAN plots for the Orbiter/Tank combination), inches
	Z		vertical distance from the model weight cg to the centerline of the balance, inches
	ZT		vertical distance from the balance centerline to the MRC, inches
ΔZ	Z,IN.	Z	vertical distance from SRB nose in mated position to SRB nose in displaced position, positive downward along the O/ET vertical axis, inches
		ZMRP	Z station of the MRC (tank station, Z_T, is listed in the DATAMAN plots for the Orbiter/Tank combination), inches

INTRODUCTION

The integrated Space Shuttle Vehicle consists of four components: Orbiter, External Oxygen-Hydrogen Tank and two Solid Rocket Booster Motors. During the launch sequence, at an altitude of 140,000 ft. and Mach number 4.5, the SRB's are separated from the Orbiter/Tank combination. The objective of this test (IA87) was to determine the interacting aerodynamic forces on the various components during this phase of the launch sequence. The data obtained is to be used for determination of separation motors sizing and placement to ensure safe separation trajectories.

Isolated data were obtained for both Orbiter/Tank combination and the SRB. The Orbiter/Tank data were obtained at the following discrete attitudes: $\alpha = -5°, 0°, 10°$ at $\beta = 0°$ and $10°$; $\alpha = 0°$ at $\beta = 5°$; $\alpha = 0°$ and $10°$ at $\beta = 15°$.

Isolated SRB data were obtained for α values of -5, 0, 5, 10, 15, and 20 degrees at $\beta = 0$ degrees.

At each of the attitudes noted above for Orbiter/Tank, right-hand SRB separation data were obtained for the following matrix of SRB attitudes and displacements with respect to the Orbiter/Tank:

$\Delta\alpha$(°)	$\Delta\beta$(°)	X(in f.s.)	Y(in f.s.)	Z(in f.s.)
-5, 0, 5	-8, -4, 0	0,300	10,100,200,400	-100,0,100,200,400

At each of the attitudes noted above for the Orbiter/Tank - with the exception of the three $\beta = 0$ degrees attitudes - left-hand SRB separation data were obtained for the following matrix of SRB attitudes and displacements with respect to the Orbiter/Tank:

$\Delta\alpha$(°)	$\Delta\beta$(°)	X(in f.s.)	Y(in f.s.)	Z(in f.s.)
-5, 0, 5	0, 4, 8	0,300	-400, -200, -100, 0	-100, 0, 100, 200, 400

$\Delta\alpha$ and $\Delta\beta$ are in degrees and X, Y, Z are in inches full scale. Refer to Nomenclature section and Figure 2 for definitions and schematic descriptions of the parameters.

CONFIGURATIONS INVESTIGATED

The 0.01-scale 52-OTS model consisted of an Orbiter, Tank and one SRB. Full scale tank protrusions and Tank-to-Orbiter attach hardware were simulated. Refer to Figure 3. Neither the tank nose lightning rod nor SRB-to-Tank attach hardware were simulated. The SRB model was symmetrical, without separation motors shrouds, and was used interchangeably for either the left-hand or right-hand booster.

The Orbiter/Tank combination was mounted on the AEDC 0.85-inch diameter 4.00-Y-36-049 six-component internal strain gage force-moment balance. The balance was located in the Orbiter model. This, in turn, was sting mounted, inverted, on the tunnel primary sector.

The SRB was mounted on the AEDC 0.65-inch diameter 4.06-Y-36-020 balance. This, in turn, was mounted inverted on the CTS.

The entire test was conducted with all Orbiter control surfaces set at their null positions.

The components of each model are described below. Note that the Orbiter-to-Tank attach hardware is considered a part of the Tank model.

Orbiter $O_1 = B_{19}\ C_7\ E_{23}\ F_5\ M_4\ N_8\ R_5\ V_7\ W_{107}$

Component	Description
B_{19}	Fuselage per Rockwell lines VL70-000139B (Model drawing SS-A01182, Release 7)
C_7	Canopy per Rockwell lines VL70-000139B (Model drawing SS-A01182, Release 7)
E_{23}	Elevons per Rockwell lines VL70-000139B (Model drawing SS-A01182, Release 7)
F_5	Body flap per Rockwell lines VL70-000139B (Model drawing SS-A01182, Release 7)
M_4	Orbital maneuvering system per Rockwell lines VL70-000139B (Model drawing SS-A01182, Release 7)
N_8	OMS engine nozzles per Rockwell lines VL70-000139B (Model drawing SS-A01182, Release 7)
R_5	Rudder per Rockwell lines VL70-000139B and VL70-000095 (Model drawing SS-A01182, Release 7)
V_7	Vertical tail per Rockwell lines VL70-000139B and VL70-000095 (Model drawing SS-A01182, Release 7)
W_{107}	Wing per Rockwell lines VL70-000139B (Model drawing SS-401182, Release 7)

Tank $ET_1 = T_{20}\ AT_{16}\ AT_{17}\ AT_{18}\ FL_5\ FL_6\ FL_9\ FR_6\ PT_{13}\ PT_{14}\ PT_{20}$

Component	Description
T_{20}	External oxygen-hydrogen tank per Rockwell lines VL72-000131 and VL78-000062B (Model drawing SS-A00117, Release 4)

Component	Description
AT_{16}	Forward orbiter/ET attach structure per Rockwell lines VL78-000062B, SK-H-4011 (Model drawing SS-A00117, Release 4)
AT_{17}	Left rear orbiter (ET attach structure per Rockwell lines SK-H-4013 (Model drawing SS-A00117,Release 4)
AT_{18}	Right rear orbiter/ET attach structure per Rockwell lines VL78-000062B, SK-H-4013 (Model drawing SS-A00117, Release 4)
FL_5	LOX feed lines per Rockwell lines VL78-000062A (Model drawing SS-A00117, Release 4)
FL_6	LH_2 pressure line per Rockwell lines VL78-000062B (Model drawing SS-A00117, Release 4)
FL_9	LH_2 umbilical feed line with an electrical quick disconnect box between the orbiter and ET per Rockwell lines VL78-000062B (Model drawing SS-A00117, Release 4)
FR_6	Umbilical door fairing support per Rockwell lines VL78-000062B, VL78-000050 (Model drawing SS-A00117, Release 4)
PT_{13}	LOX recirculation line for Rockwell lines VL78-000062B (Model drawing SS-A00117, Release 4)
PT_{14}	LOX pressure line per Rockwell lines VL78-000062B (Model drawing SS-A00117, Release 4)
PT_{20}	LOX pressure lines and electrical conduit located on nose cone per Rockwell lines VL78-000062B (Model drawing SS-A00117, Release 4)

Solid Rocket Booster SRBL1 = S_{18} PS_7 (used as left SRB)
SRBR1 = S_{18} PS_7 (used as right SRB)

S_{18}	Booster Solid Rocket Motor per Rockwell lines VL77-000066 (Model drawing SS-A01308, Release 1)
PS_7	SRB ring structures at X_B 1505, 1517 and 1852 per Rockwell lines VL77-000066 (Model drawing SS-A01308, Release 1)

TEST FACILITY DESCRIPTION

The AEDC von Karman Facility (VKF) Tunnel A is a 40-X-40 inch, continuous, closed circuit, variable density wind tunnel with a Mach number capability of 1.5 to 6.0. Stagnation pressure ranges from a minimum of 1.5 psia at Mach 1.5 up to 200 psia maximum at Mach 6. The stagnation temperature ranges from 70 to 290°F. The tunnel throat has flexible top and bottom walls which are moved automatically by electrically driven screw jacks. Refer to Figure 2c. A detailed description of the facility may be found in the Test Facilities Handbook*.

DATA REDUCTION

Six component force and moment data were obtained for the Orbiter/Tank combination (R data) and for the one symmetrical booster model (A data). In addition, for the Orbiter/Tank combination, two base and one sting/balance cavity pressure were recorded. These pressures were located at the base of the Orbiter. The booster had only one cavity pressure.

All force and moment data were reduced to coefficient form in the body-axis system using standard AEDC data reduction procedures. No base or cavity pressure force adjustments were made to the force and moment data.

The following array depicts the reference dimensions to which the aerodynamic coefficients are applicable.

DATA REDUCTION (Concluded)

DATA SET / REF DIM	ATU001 through ATU311	RTU001 through RTU314
SREF	2690 sq. ft.	2690 sq. ft.
LREF	1290.3 in.	1290.3 in.
BREF	1290.3 in.	1290.3 in.
XMRP	1258.5 in. XS	1097.0 in. XT
YMRP	0.0 in YS	0.0 in. YT
ZMRP	400.0 in. ZS	450.0 in. ZT
SCALE	.01	.01

All calculated angles and displacements included corrections for sting/balance deflections in the normal and side force planes. In addition the Y (lateral) displacement was adjusted for the lateral deflection of the Tank due to roll about the Orbiter/Tank balance. The actual roll angle was very small; however, the lateral displacement affected by the roll was significant.

---

* Test Facilities Handbook (Ninth Edition) von Karman Gas Dynamics Facility, Vol. 3, Arnold Engineering Development Center, July 1971.

TABLE I.

TEST : IA87

DATE : POST TEST

TEST CONDITIONS

MACH NUMBER	RUN NUMBER	REYNOLDS NUMBER (per foot x 10^{-6})	STAGNATION PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
4.52	1-96	6.48	100.5	116
	97-457	5.86	90.2	114
	458-615	5.92	91.2	114
	615-670	6.03	91.2	107
	671-919	4.01	60.4	106

BALANCE UTILIZED:
1 ORBITER/TANK: AEDC 0.85-INCH DIA. 4.00-Y-36-049
2 SRB: AEDC 0.65-INCH DIA. 4.06-Y-36-020

	CAPACITY: 1	CAPACITY: 2	ACCURACY:	COEFFICIENT TOLERANCE:
NF	±200	80		
SF	±200	80		
AF	± 50	30		
PM	±310	120		
RM	±100	25		
YM	±310	120		

COMMENTS:
FORCES IN LBS.; MOMENTS IN IN-LBS.

TABLE II.

TEST : IA87

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE : POST TEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES M_∞	P_∞ - psia		NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) Δα	Δβ	ΔX	ΔZ	ΔY 10	100	200	400		
RTU-001	O_1/ET_1 , SRBR1	-0.4	0.0	4.52	100.5			0.0	0.0	0	A	4	3	2	1		
-002								↓		300		5	6	7	8		
-003								5.0		↓		12	11	10	9		
-004								↓		0	↓	13	14	15	16		
-005								-5.0		↓	B	20	19	18	17		
-006								↓	↓	300	↓	21	22	23	24		
-007								0.0	-4.0	0	A		27	26	25		
-008								↓		300			28	29	30		
-009								5.0		↓			33	32	31		
-010								↓		0	↓		34	35	36		
-011								-5.0		↓	B		39	38	37		
-012								↓	↓	300	↓		40	41	42		
-013								0.0	-8.0	0	A			44	43		
-014								↓		300				45	46		
-015								5.0		↓				48	47		
-016								↓		0	↓			49	50		
-017								-5.0		↓	B			52	51		
↓ -018	↓	↓	↓	↓	↓			↓	↓	300	↓			53	54		

TEST RUN NUMBERS

Q'ET

7 13 19 25 31 37 43 49 55 61 67 75 76

CN CA CLM CY CYN CBL DLTALFDLTBTA X Y Z 9

COEFFICENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

ΔZ) A = -100, 0, 100, 200, 400 or 400, 200, 100, 0, -100

B = 0, 100, 200, 400 or 400, 200, 100, 0

NOTES: 1) ΔX, ΔY AND ΔZ ARE IN INCHES FULLSCALE.
2) ALL ORBITER CONTROL SURFACES SET AT 0-DEGREE DEFLECTION.
3) CORRESPONDING SRB DATASETS ARE ATU-XXX

TABLE II. - Continued

TEST : IA87

O/ET

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE : POST TEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES M_∞	PARAMETERS/VALUES $P_{t\infty}$ - psia		NO. OF RUNS	Δα	Δβ	ΔX	ΔZ	ΔY 0	-100	-200	-400		
RTU-019	O₁/ET₁, SR11	0.4	0.0	4.52	100.5			0.0	0.0	0	A	59	58	57	56		
-020								↓		300		60	61	62	63		
-021								5.0		↓		67	66	65	64		
-022								↓		0	↓	68	69	70	71		
-023								-5.0		↓	B		74	73	72		
-024								↓	↓	300	C	75	76	77	78		
-025								0.0	4.0	0	A		81	80	79		
-026								↓		300			82	83	84		
-027								5.0		↓			87	86	85		
-028								↓		0	↓		88	89	90		
-029								-5.0		↓	B,100*		93*	92	91		
-030					↓			↓	↓	300	C		94	95	96		
-031					90.2			0.0	8.0	0	A			98	97		
-032								↓		300				99	100		
-033								5.0		↓				102	101		
-034								↓		0	↓			103	104		
-035								-5.0		↓	B,D*			106*	105		
↓ -036	↓	↓	↓	↓	↓			↓	↓	300	C			107	108		

TEST RUN NUMBERS

7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

ΔZ) A = -100,0,100,200,400 or 400,200,100,0,-100 B = 0,100,200,400 or 400,200,100,0

C = 100,200,400 or 400,200,100 D = 200,400 or 400,200

NOTES: 1) ΔX, ΔY AND ΔZ ARE IN INCHES FULL SCALE

2) ALL ORBITER CONTROL SURFACES SET AT 0-DEGREE DEFLECTION

3) CORRESPONDING SRB DATASETS ARE ATU-XXX

TABLE II. - Continued

TEST: 2487

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: POST TEST

O/ET

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES M_∞	$P_{c\infty}$ - psia		NO. OF RUNS	Δα	Δβ	ΔX	ΔZ	ΔY 10	100	200	400			TEST RUN NUMBERS
ATU-037	O1/ET1 ,SRBR1	-5.7	0.0	4.52	90.2			0.0	0.0	0	A	112	111	110	109			
-038	↓	↓	↓	↓	↓			↓	↓	300	↓	113	114	115	116			
-039	↓	↓	↓	↓	↓			5.0	↓	↓	↓	120	119	118	117			
-040	↓	↓	↓	↓	↓			↓	↓	0	↓	121	122	123	124			
-041	↓	↓	↓	↓	↓			-5.0	↓	↓	B		127	126	125			
-042	↓	↓	↓	↓	↓			↓	↓	300	C	128	129	130	131			
-043	↓	↓	↓	↓	↓			0.0	-4.0	0	E		132					
-044	↓	↓	↓	↓	↓			↓	↓	300	A		133	134	135			
-045	↓	↓	↓	↓	↓			5.0	↓	↓	↓		138	137	136			
-046	↓	↓	↓	↓	↓			↓	↓	0	↓		139	140	141			
-047	↓	↓	↓	↓	↓			-5.0	↓	300	C			142	143			
-048	↓	↓	↓	↓	↓			0.0	-8.0	↓	A,E*			144*	145			
-049	↓	↓	↓	↓	↓			5.0	↓	↓	A			147	146			
-050	↓	↓	↓	↓	↓			↓	↓	0	↓			148	149			
-051	↓	↓	↓	↓	↓			-5.0	↓	↓	C			151	150			
-052	↓	↓	↓	↓	↓			↓	↓	300	↓			152	153			
-053	↓	↓	↓	↓	↓			0.0	-4.0	0	A		156	155	154			
-054	↓	↓	↓	↓	↓			↓	↓	300	↓		157	158	159			

7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

ΔZ) A = -100, 0, 100, 200, 400 or 400, 200, 100, 0, -100

B = 0, 100, 200, 400 or 400, 200, 100, 0

C = 100, 200, 400 or 400, 200, 100

E = -100, 0, 100 or 100, 0, -100

NOTES: 1) ΔX, ΔY AND ΔZ ARE IN INCHES FULLSCALE
2) ALL ORBITOR CONTROL SURFACES SET AT 0-DEGREE DEFLECTION
3) CORRESPONDING SRB DATASETS ARE ATU -XXX

TABLE II. - Continued

TEST : IA87

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE : POST TEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. O/ET α	β	PARAMETERS/VALUES M_∞	$P_{t\infty}$-psia		NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) Δα	Δβ	ΔX	ΔZ	ΔY 75	100	200	400		
RTU-055	O_1/ET, SRBR1	5.7	C	4.52	90.2			5.0	-4.0	300	A		162	161	160		
-056								↓		0	↓		163	164	165		
-057								-5.0		↓	C		168	167	166		
-058								↓	↓	300	↓		169	170	171		
-059								0.0	-8.0	0	A			173	172		
-060								↓		300				174	175		
-061								5.0		↓				177	176		
-062								↓		0	↓			178	179		
-063								-5.0		↓	C			181	180		
↓ -064	↓	↓	↓	↓	↓			↓	↓	300	↓			182	183		

TEST RUN NUMBERS

7 13 19 25 31 37 43 49 55 61 67 75 76

IDVAR (1) IDVAR (2) NDV

COEFFICENTS

α OR β SCHEDULES

ΔZ) A = -100, 0, 100, 200, 400 or 400, 200, 100, 0, -100

C = 100, 200, 400 or 400, 200, 100

NOTES : 1) ΔX, ΔY AND ΔZ ARE IN INCHES FULLSCALE
2) ALL ORBITER CONTROL SURFACES SET AT 0-DEGREE DEFLECTION
3) CORRESPONDING SRB DATASETS ARE ATU-XXX

TABLE II. - Continued

TEST: IA87

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: POST TEST

O/ET

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES Mα	P∞-psia			NO. OF RUNS	Δα	Δβ	ΔX	ΔZ	ΔY 70	100	200	400		
RTU-065	O₁/ET₁, SRBR1	103	0	4.52	9.02				0.0	0.0	0	A	188	187	186	185		
-066									↓		300		189	190	191	192		
-067									5.0		↓		196	195	194	193		
-068									↓		0	↓	197	198	199	200		
-069									-5.0		↓	C	204	203	202	201		
-070									↓	↓	300	↓	205	206	207	208		
-071									0.0	-4.0	0	A		211	210	209		
-072									↓		300			212	213	214		
-073									5.0		↓			217	216	215		
-074									↓		0	↓		218	219	220		
-075									-5.0		↓	C		223	222	221		
-076									↓	↓	300	↓		224	225	226		
-077									0.0	-8.0	0	A			228	227		
-078									↓		300				229	230		
-079									5.0		↓				232	231		
-080									↓		0	↓			233	234		
-081									-5.0		↓	C			236	235		
↓ -082	↓	↓	↓	↓	↓				↓	↓	300	↓			237	238		

TEST RUN NUMBERS

7 11 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS

IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

ΔZ) A = -100, 0, 100, 200, 400 or 400, 200, 100, 0, -100

C = 100, 200, 400 or 400, 200, 100

NOTES: 1) ΔX, ΔY AND ΔZ ARE IN INCHES FULLSCALE
2) ALL ORBITER CONTROL SURFACES SET AT 0-DEGREE DEFLECTION
3) CORRESPONDING SRB DATASETS ARE ATU-XXX

TABLE II. - Continued

TEST: IA87

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: POST TEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. ~~DET~~ α	β	PARAMETERS/VALUES M_∞	$P_{t\infty}$ - psia		NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) Δα	Δβ	ΔX	ΔZ	ΔY 10	100	200	400		
RTU-083	$C_1 ET_1 SRBR1$	-0.4	5.4	4.52	90.2			0.0	0.0	0	A	243	242	241	240		
-084								↓		300		244	245	246	247		
-085								5.0		↓		251	250	249	248		
-086								↓		0	↓	252	253	254	255		
-087								-5.0		↓	C	259	258	257	256		
-088								↓	↓	300	↓	260	261	262	263		
-089								0.0	-4.0	0	A		266	265	264		
-090								↓		300			267	268	269		
-091								5.0		↓			272	271	270		
-092								↓		0	↓		273	274	275		
-093								-5.0		↓	C		278	277	276		
-094								↓	↓	300	↓		279	280	281		
-095								0.0	-8.0	0	A			283	282		
-096								↓		300				284	285		
-097								5.0		↓				287	286		
-098								↓		0	↓			288	289		
-099								-5.0		↓	C			291	290		
↓ -100	↓	↓	↓	↓	↓			↓	↓	300	↓			292	293		

TEST RUN NUMBERS

7 13 19 25 31 37 43 49 55 61 67 75 76

α OR β SCHEDULES

COEFFICENTS

ΔZ) A = -100, 0, 100, 200, 400 or 400, 200, 100, 0, -100

C = 100, 200, 400 or 400, 200, 100

IDVAR (1) IDVAR (2) NDV

NOTES: 1) ΔX, ΔY AND ΔZ ARE IN INCHES FULLSCALE
2) ALL ORBITER CONTROL SURFACES SET AT 0-DEGREE DEFLECTION
3) CORRESPONDING SRB DATASETS ARE ATU-XXX

TABLE II. - Continued

TEST : IA87

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE : POST TEST

DET

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES M∞	P∞-psia		NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) Δα	Δβ	ΔX	ΔZ	ΔY -10	-100	-200	-400			
RTU-101	O1/ET1, SRBL1	-0.4	5.4	4.52	90.2			0.0	0.0	0	A	298	297	296	295			
-102								↓		300		299	300	301	302			
-103								5.0		↓		306	305	304	303			
-104								↓		0	↓	307	308	309	310			
-105								-5.0		↓	C	314	313	312	311			
-106								↓	↓	300	↓	315	316	317	318			
-107								0.0	4.0	0	A		321	320	319			
-108								↓		300			322	323	324			
-109								5.0		↓			327	326	325			
-110								↓		0	↓		328	329	330			
-111								-5.0		↓	C		333	332	331			
-112								↓	↓	300	↓		334	335	336			
-113								0.0	8.0	0	A			338	337			
-114								↓		300				339	340			
-115								5.0		↓				342	341			
-116								↓		0	↓			343	344			
-117								-5.0		↓	C			346	345			
↓ -118	↓	↓	↓	↓	↓			↓	↓	300	↓			347	348			

TEST RUN NUMBERS

7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS

IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

ΔZ) A = -100, 0, 100, 200, 400 or 400, 200, 100, 0, -100

C = 100, 200, 400 or 400, 200, 100

NOTES: 1) ΔX, ΔY AND ΔZ ARE IN INCHES FULLSCALE
2) ALL ORBITER CONTROL SURFACES SET AT 0-DEGREE DEFLECTION
3) CORRESPONDING SRB DATASETS ARE ATU-XXX

TABLE II. Continued

TEST: IA87

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: POST TEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. O/ET		PARAMETERS/VALUES			NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)							
		α	β	M_∞	$P_{t\infty}$ - psia			$\Delta\alpha$	$\Delta\beta$	ΔX	ΔZ	ΔY 10	100	200	400
ATU-119	O₁ET₁ SRBR1	0.5	10.9	4.52	90.2			0.2	0.0	0	A	352	351	350	349
-120								↓		300		353	354	355	356
-121								5.2		↓		360	359	358	357
-122								↓		0	↓	361	362	363	364
-123								-4.9		↓	C	368	367	366	365
-124								↓	↓	300	↓	369	370	371	372
-125								0.2	-4.0	0	A		375	374	373
-126								↓		300			376	377	378
-127								5.2		↓			381	380	379
-128								↓		0	↓		382	383	384
-129								-4.9		↓	C		387	386	385
-130								↓	↓	300	↓		388	389	390
-131								0.2	-8.0	0	A			392	391
-132								↓		300				393	394
-133								5.2		↓				396	395
-134								↓		0	↓			397	398
-135								-4.9		↓	C			400	399
↓ -136	↓	↓	↓	↓	↓			↓	↓	300	↓			401	402

TEST RUN NUMBERS

7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

ΔZ; A = -100, 0, 100, 200, 400 or 400, 200, 100, 0, -100

C = 100, 200, 400 or 400, 200, 100

NOTES:
1) ΔX, ΔY AND ΔZ ARE IN INCHES FULLSCALE
2) ALL ORBITER CONTROL SURFACES SET AT 0-DEGREE DEFLECTION
3) CORRESPONDING SRB DATASETS ARE ATU-XXX

TABLE II. Continued

TEST: IA84

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: POST TEST

0/ET

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES M_{∞}	P_{∞} - psia		NO. OF RUNS	$\Delta\alpha$	$\Delta\beta$	ΔX	ΔZ	ΔY -40	-100	-200	-400		
RTU-137	O_1/ET_1, SRBL1	-0.5	10.9	4.52	90.2			0.2	0.0	0	A	401	406	405	404		
-138								↓		300		408	409	410	411		
-139								5.2		↓		415	414	413	412		
-140								↓		0	↓	416	417	418	419		
-141								-4.9		↓	C	423	422	421	420		
-142								↓	↓	300	↓	424	425	426	427		
-143								0.2	4.0	0	A		430	429	428		
-144								↓		300			431	432	433		
-145								5.2		↓			436	435	434		
-146								↓		0	↓		437	438	439		
-147								-4.9		↓	C		442	441	440		
-148								↓	↓	300	↓		443	444	445		
-149								0.2	8.0	0	A			447	446		
-150								↓		300				448	449		
151								5.2		↓				451	450		
-152								↓		0	↓			452	453		
-153								-4.9		↓	C			455	454		
↓ -154	↓	↓	↓	↓	↓			↓	↓	300	↓			456	457		

TEST RUN NUMBERS

7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

ΔZ) A = -100, 0, 100, 200, 400 or 400, 200, 100, 0, -100

C = 100, 200, 400 or 400, 200, 100

NOTES: 1) ΔX, ΔY AND ΔZ ARE IN INCHES FULLSCALE
2) ALL ORBITER CONTROL SURFACES SET AT 0-DEGREE DEFLECTION
3) CORRESPONDING SRB DATASETS ARE ATU-XXX

TABLE II. - Continued

TEST: IA87

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: POST TEST

DATA SET IDENTIFIER	CONFIGURATION	O/ET SCHD. α	β	PARAMETERS/VALUES M_∞	$P_{t\infty}$ - psia		NO. OF RUNS	Δα	Δβ	ΔX	ΔZ	ΔY 0	100	200	400		
RTU-155	O1/ET1, SRBR1	5.9	10.8	4.52	91.2			0.2	0.0	0	A	461	460	459	458		
-156								↓		300		462	463	464	465		
-157								5.2		↓		469	468	467	466		
-158								↓		0	↓	470	471	472	473		
-159								-4.8		↓	C	477	476	475	474		
-160								↓	↓	300	↓	478	479	480	481		
-161								0.2	-4.0	0	A		484	483	482		
-162								↓		300			485	486	487		
-163								5.2		↓			490	489	488		
-164								↓		0	↓		491	492	493		
-165								-4.8		↓	C		496	495	494		
-166								↓	↓	300	↓		497	498	499		
-167								0.2	-8.0	0	A			501	500		
-168								↓		300				502	503		
169								5.2		↓				505	504		
-170								↓		0	↓			506	507		
-171								-4.8		↓	C			509	508		
↓ -172	↓	↓	↓	↓	↓			↓	↓	300	↓			510	511		

TEST RUN NUMBERS

7 13 19 25 31 37 43 49 55 61 67 75 76

α OR β SCHEDULES

COEFFICENTS

ΔZ) A = -100, 0, 100, 200, 400 or 400, 200, 100, 0, -100

C = 100, 200, 400 or 400, 200, 100

IDVAR (1) IDVAR (2) NDV

NOTES: 1) ΔX, ΔY AND ΔZ - ARE IN INCHES FULLSCALE
2) ALL ORBITER CONTROL SURFACES SET AT 0-DEGREE DEFLECTION
3) CORRESPONDING SRB DATASETS ARE ATU-XXX

TABLE II. - Continued

TEST: IA87

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: POST TEST

DATA SET IDENTIFIER	CONFIGURATION	O/ET SCHD. α	β	PARAMETERS/VALUES M_∞	P_{cm} ~ psia		NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) Δα	Δβ	ΔX	ΔZ	ΔY -40	-100	-200	-400
RTU-173	O_1/ET_1, SRBL1	5.9	10.8	4.52	91.2			0.2	0.0	0	A	516	515	514	513
-174								↓		300		517	518	519	520
-175								5.2		↓		524	523	522	521
-176								↓		0	↓	525	526	527	528
-177								-4.8		↓	C	532	531	530	529
-178								↓	↓	300	↓	533	534	535	536
-179								0.2	4.0	0	A			538	537
-180								↓		300				539	540
-181								5.2		↓				542	541
-182								↓		0	↓			543	544
-183								-4.8		↓	C			546	545
-184								↓	↓	300	↓			547	548
-185								0.2	8.0	0	A			550	549
-186								↓		300				551	552
-187								5.2		↓				554	553
-188								↓		0	↓			555	556
-189								-4.8		↓	C			558	557
↓ -190	↓	↓	↓	↓	↓			↓	↓	300	↓			559	560

TEST RUN NUMBERS

7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

ΔZ) A = -100, 0, 100, 200, 400 or 400, 200, 100, 0, -100

C = 100, 200, 400 or 400, 200, 100

NOTES: 1) ΔX, ΔY AND ΔZ ARE IN INCHES FULLSCALE
2) ALL ORBITER CONTROL SURFACES ARE SET AT 0-DEGREE DEFLECTION
3) CORRESPONDING SRB DATASETS ARE ATU-XYX

TABLE II. - Continued

TEST: 1A87

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: POST TEST

DATA SET IDENTIFIER	CONFIGURATION	Q/ET SCHD. α	β	PARAMETERS/VALUES M∞	Pc-psia		NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) Δα	Δβ	ΔX	ΔZ	ΔY 10	100	200	400		
RTU-191	O₁/ET₁, SRBR1	10.2	11.0	4.52	91.2			0.0	0.0	0	A	564	563	562	561		
-192								↓		300		565	566	567	568		
-193								5.1		↓		572	571	570	569		
-194								↓		0	↓	573	574	575	576		
-195								-4.9		↓	C	580	579	578	577		
-196								↓	↓	300	↓	581	582	583	584		
-197								0.1	-4.1	0	A		587	586	585		
-198								↓		300			588	589	590		
-199								5.1		↓			593	592	591		
-200								↓		0	↓		594	595	596		
-201								-4.9		↓	C		599	598	597		
-202								↓	↓	300	↓		600	601	602		
-203								0.1	-8.1	0	A			604	603		
-204								↓		300				605	606		
-205								5.1		↓				608	607		
-206								↓		0	↓			609	610		
-207								-4.9		↓	C			612	611		
↓ -208	↓	↓	↓	↓	↓			↓	↓	300	↓			613	614		

TEST RUN NUMBERS

7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS

α OR β SCHEDULES

ΔZ) A = -100, 0, 100, 200, 400 or 400, 200, 100, 0, -100

C = 100, 200, 400 or 400, 200, 100

IDVAR (1) IDVAR (2) NDV

NOTES: 1) ΔX, ΔY AND ΔZ ARE IN INCHES FULLSCALE
2) ALL ORBITER CONTROL SURFACES ARE SET AT 0-DEGREE DEFLECTION
3) CORRESPONDING SRB DATASETS ARE ATU-XXX

TABLE II. - Continued

TEST: IA87

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: POST TEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. O/ET α	SCHD. β	PARAMETERS/VALUES M_∞	$P_{t\infty}$ - psia		NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) Δα	Δβ	ΔX	ΔZ	ΔY -50	-100	-200	-400	
ATU-209	O₁/ET₁, SRBL1	10.2	11.0	4.52	91.2			0.1	-0.1	0	A	620	619	618	616/617	*
-210								↓		300		621	622	623	624	
-211								5.1		↓		628	627	626	625	
-212								↓		0	↓	629	630	631	632	
-213								-4.9		↓	C	636	635	634	633	
-214								↓	↓	300	↓	637	638	639	640	
-215								0.1	3.9	0	A		643	642	641	
-216								↓		300			644	645	646	
-217								5.1		↓			649	648	647	
-218								↓		0	↓		650	651	652	
-219								-4.9		↓	C		655	654	653	
-220								↓	↓	300	↓		656	657	658	
-221								0.1	8.0	0	A			660	659	
-222								↓		300				661	662	
-223								5.1		↓				664	663	
-224								↓		0	↓			665	666	
-225								-4.9		↓	C			668	667	
-226	↓	↓	↓	↓	↓			↓	↓	300	↓			669	670	

TEST RUN NUMBERS

7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

ΔZ) A = -100, 0, 100, 200, 400 or 400, 200, 100, 0, -100

C = 100, 200, 400 or 400, 200, 100

NOTES:
1) ΔX, ΔY AND ΔZ ARE IN INCHES FULLSCALE
2) ALL ORBITER CONTROL SURFACES SET AT 0-DEGREE DEFLECTION
3) CORRESPONDING SRB DATASETS ARE ATU-XXX

* DATA FROM COMBINATION OF 616 & 617; RUN NO LABEL IS 616

TABLE II. - Continued

TEST: IA87																	
		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: POST TEST					
		OVET															
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES			NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)									
		α	β	M_∞	P_{∞} ~ psi			Δα	Δβ	ΔX	ΔZ	ΔY 10	100	200	400		
RTU-227	O₁/ET₁, SRBRI	40.0	15.8	4.52	60.4			0.2	-0.1	0	A	674	673	672	671		
-228								↓		300		675	676	677	678		
-229								5.2		↓		682	681	680	679		
-230								↓		0	↓	683	684	685	686		
-231								-4.9		↓	B	690	689	688	687		
-232								↓	↓	300	↓	691	692	693	694		
-233								0.2	-4.1	0	A		697	696	695		
-234								↓		300			698	699	700		
-235								5.2		↓			703	702	701		
-236								↓		0	↓		704	705	706		
-237								-4.9		↓	B		709	708	707		
-238								↓	↓	300	↓		710	711	712		
-239								0.2	-8.1	0	A			714	713		
-240								↓		300				715	716		
-241								5.2		↓				718	717		
-242								↓		0	↓			719	720		
-243								-4.9		↓	B			722	721		
↓ -244	↓	↓	↓	↓	↓			↓	↓	300	↓			723	724		

TEST RUN NUMBERS

7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

ΔZ) A = -100, 0, 100, 200, 400 or 400, 200, 100, 0, -100

B = 0, 100, 200, 400 or 400, 200, 100, 0

NOTES: 1) ΔX, ΔY AND ΔZ ARE IN INCHES FULLSCALE
2) ALL ORBITER CONTROL SURFACES SET AT 0 - DEGREE DEFLECTION
3) CORRESPONDING SRB DATASETS ARE ATU-XXX

TABLE II. - Continued

TEST: IA87

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: POST TEST

DATA SET IDENTIFIER	CONFIGURATION	O/ET SCHD. α	O/ET SCHD. β	PARAMETERS/VALUES M_{∞}	PARAMETERS/VALUES P_{∞} - psia	PARAMETERS/VALUES	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) $\Delta\alpha$	$\Delta\beta$	ΔX	ΔZ	70	100	200	300		
RTU-245	O_1/ET_1, SRBR1	10.0	155	4.52	60.4			5.2	3.9	0	A	728	727	726	725		
↓ -246	/ ↓	↓	↓	↓	↓			↓	↓	300	A, 400*	729	730	731	732*		

TEST RUN NUMBERS

7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

ΔZ) A: -100, 0, 100, 200, 400 or 400, 200, 100, 0, -100

NOTES:
1) ΔX, ΔY AND ΔZ ARE IN INCHES FULLSCALE.
2) ALL ORBITER CONTROL SURFACES SET AT 0-DEGREE DEFLECTION
3) CORRESPONDING SRB DATASETS ARE ATU-XXY

TABLE II. - Continued

TEST: IA87

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: POST TEST

DATA SET IDENTIFIER	CONFIGURATION	O/ET SCHD.		PARAMETERS/VALUES			NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)									
		α	β	M∞	P∞ - psia			Δα	Δβ	ΔX	ΔZ	~~θ~~	-100	-200	-300	-400	
RTU-247	O₁/ET₁, SRBL₁	10.0	15.8	4.52	60.4			0.2	-0.1	0	A		737	736	735	734	
248								↓		300			738	739	740	741	
-249								5.2		↓			745	744	743	742	
250								↓		0	↓		746	747	748	749	
-251								-4.9		↓	D		750				
-252								↓	↓	300	C		751	752	753	754	
-253								0.2	3.9	0	A		758	757	756	755	
-254								↓		300			759	760	761	762	
-255								5.2		↓			766	765	764	763	
-256								↓		0	↓		767	768	769	770	
-257								-4.9		↓	C		774	773	772	771	
-258								↓	↓	300	↓		775	776	777	778	
-259								0.2	7.9	0	A			781	780	779	
-260								↓		300				782	783	784	
-261								5.2		↓				787	786	785	
-262								↓		0	↓			788	789	790	
-263								-4.9		↓	C			793	792	791	
↓ -264	↓	↓	↓	↓	↓			↓	↓	300	↓			794	795	796	

TEST RUN NUMBERS

7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS		IDVAR (1)	IDVAR (2)	NDV
α OR β SCHEDULES	ΔZ) A = -100, 0, 100, 200, 400 or 400, 200, 100, 0, -100 D = 200, 400 or 400, 200	C = 100, 200, 400 or 400, 200, 100		

NOTES: 1) ΔX, ΔY AND ΔZ ARE IN INCHES FULLSCALE
2) ALL ORBITER CONTROL SURFACES SET AT 0-DEGREE DEFLECTION
3) CORRESPONDING SRB DATASETS ARE ATU-XXX

TABLE II. - Continued

TEST: IA87

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: POST TEST

O/ET

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES M_∞	PARAMETERS/VALUES P_∞-psia	PARAMETERS/VALUES	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) Δα	Δβ	ΔX	ΔZ	ΔY/D	-100	-200	-300	-400		TEST RUN NUMBERS
RTU-265	O_1ET$_1$ SRBL1	10.0	5.8	4.52	6.04			-4.9	-0.1	0	C		800	799	798	797		

7 13 19 25 31 37 43 49 55 61 67 75 76

α OR β SCHEDULES

COEFFICENTS

ΔZ) C = 100, 200, 400 or 400, 200, 100

IDVAR (1) IDVAR (2) NDV

NOTE: 1) ΔX, ΔY AND ΔZ ARE IN INCHES FULLSCALE
2) ALL ORBITER CONTROL SURFACE: SET AT 0-DEGREE DEFLECTION
3) CORRESPONDING SRB DATASETS ARE ATU-XXY

TABLE II. - Continued

TEST: 1087

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: POST TEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	M∞	P∞-psia		NO. OF RUNS	Δα	Δβ	ΔX	ΔZ	ΔY 10	100	200	400			TEST RUN NUMBERS
		α/ET																
RTU-266	O₁/ET₁, SRBRI	-0.5	15.9	4.52	60.9			0.2	0.0	0	A	804	803	802	801			
-267								↓		300		805	806	807	808			
-268								5.2		↓		812	811	810	809			
-269								↓		0	↓	813	814	815	816			
-270								-4.8		↓	C	820	819	818	817			
-271								↓	↓	300	↓	821	822	823	824			
-272								0.2	-4.0	0	A		827	826	825			
-273								↓		300			828	829	830			
-274								5.2		↓			833	832	831			
-275								↓		0	↓		834	835	836			
-276								-4.8		↓	C		839	838	837			
-277								↓	↓	300	↓		840	841	842			
-278								0.2	-8.0	0	A			844	843			
-279								↓		300				845	846			
-280								5.2		↓				848	847			
-281								↓		0	↓			849	850			
-282								-4.8		↓	C			852	851			
↓ -283	↓	↓	↓	↓	↓			↓	↓	300	↓			853	854			

7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS — IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

ΔZ) A = -100, 0, 100, 200, 400 or 400, 200, 100, 0, -100

C = 100, 200, 400 or 400, 200, 100

NOTES: 1) ΔX, ΔY AND ΔZ ARE IN INCHES FULLSCALE
2) ALL ORBITER CONTROL SURFACES SET AT 0 DEGREE DEFLECTION
3) CORRESPONDING SRB DATASETS ARE ATU-XXX

TABLE II. - Continued

TEST: IA87

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: POST TEST

DATA SET IDENTIFIER	CONFIGURATION	O/ET SCHD. α	O/ET SCHD. β	PARAMETERS/VALUES M∞	PARAMETERS/VALUES P∞ psia	PARAMETERS/VALUES	NO. OF RUNS	Δα	Δβ	ΔX	ΔZ	ΔY -100	ΔY -200	ΔY -300			
RTU-284	O, ET, SRBL1	-0.5	N.T	4.5	60.4			0.2	0.0	0	A	858	857	856			
-285	↓	↓	↓	↓	↓			↓		300		859	860	861			
-286								5.2		↓		864	863	862			
-287								↓		0	↓	865	866	867			
-288								-4.8		↓	C	870	869	868			
-289								↓	↓	300	↓	871	872	873			
-290								0.2	4.0	0	A	876	875	874			
-291								↓		300		877	878	879			
-292								5.2		↓		882	881	880			
-293								↓		0	↓	883	884	885			
-294								-4.8		↓	C	888	887	856			
-295								↓	↓	300	↓	889	890	891			
-296								0.2	8.0	0	A		893	892			
-297								↓		300			894	895			
-298								5.2		↓			897	896			
-299								↓		0	↓		898	899			
-300								-4.8		↓	C		901	900			
-301	↓	↓	↓	↓	↓			↓	↓	300	↓		902	903			

TEST RUN NUMBERS

7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

ΔZ) A = -100, 0, 100, 200, 400 or 400, 200, 100, 0, -100

C = 100, 200, 400 or 400, 200, 100

NOTES: 1) ΔX, ΔY AND ΔZ ARE IN INCHES FULLSCALE
2) ALL ORBITER CONTROL SURFACES SET AT 0-DEGREE DEFLECTION
3) CORRESPONDING SRB DATASETS ARE ATU-XXX

TABLE II. - Continued

TEST: IA87

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: POST TEST

DATA SET IDENTIFIER	CONFIGURATION	O/ET SCHD. α	β	CONTROL DEFLECTION M_∞	P_∞ -	psia		NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) Δα	ΔB	ΔX	ΔZ	~~ΔY~~ 10	100	230				TEST RUN NUMBERS
RTU-302	O1/ET, SRBR1	-0.5	15.T	4.52	604				0.2	4.0	0	A	906	905	904				
↓ -303	↓	↓	↓	↓	↓				↓	↓	300	↓	907	908					
-304									5.2		↓		910	909					
↓ -305	↓	↓	↓	↓	↓				↓	↓	0	↓	911	912	913				

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

ΔZ) A = -400, 0, 100, 200, 400 or 400, 200, 100, 0, -100

NOTES: 1) ΔX, ΔY AND ΔZ ARE IN INCHES FULLSCALE
2) ALL ORBITER CONTROL SURFACES SET AT 0 DEGREE DEFLECTION
3) CORRESPONDING SRB DATASETS ARE ATT-XXX

NASA-MSFC-MAF

TABLE II. - Concluded

TEST: IA87		DATA SET/RUN NUMBER COLLATION SUMMARY						DATE: POST TEST
DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	CONTROL DEFLECTION M_∞	CONTROL DEFLECTION $P_{t\infty}$ ~ psia	CONTROL DEFLECTION	NO. OF RUN	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)
RTU-306	O/ET. ISOLATED	-0.4	0.0	4.52	100.5		55	
-307		-5.7			90.2		184	
-308		10.3	↓				239	
-309		-0.4	5.4				294	
-310		-0.5	10.9		↓		403	
-311		-5.9	10.8		91.2		512	
2		10.2	11.0		↓		615	
-313		10.0	15.8		60.4		733	
-314	↓	-0.5	15.7	↓	↓		855	
ATU-306	SRB ISOLATED	19.0	0.0	4.52	60.4		914	
-307		15.0					915	
-308		10.0					916	
-309		5.0					917	
-310		0.0					918	
-311	↓	-5.0	↓	↓	↓		919	

TEST RUN NUMBERS

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CN	CA	CLM	CY	CYN	CBL					M	ALPHA	6
				COEFFICENTS						IDVAR (1)	IDVAR (2)	NDV

α OR β SCHEDULES

NOTES: 1) EACH DATASET IS ONE DISCRETE DATA POINT
2) ALL ORBITER CONTROL SURFACES SET AT 0-DEGREE DEFLECTION

NASA-MSFC-MAF

TABLE III

MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY B_{19}

GENERAL DESCRIPTION : Fuselage, Configuration 3, per Rockwell Lines VL70-000139B

MODEL SCALE: 0.010

DRAWING NUMBER : VL70-000139B
(Model drawing SS-A01182, Release 7)

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length	1290.3	12.903
Max Width	267.6	2.676
Max Depth	244.5	2.445
Fineness Ratio	4.82175	4.82175
Area - Ft^2		
Max. Cross-Sectional	386.67	0.0387
Planform		
Wetted		
Base		

TABLE III. - Continued

MODEL DIMENSIONAL DATA

MODEL COMPONENT : CANOPY -C_7

GENERAL DESCRIPTION : Configuration 3A canopy.

MODEL SCALE: 0.010

DRAWING NUMBER : VL70-000139B

(Model drawing SS-A01182, Release 7)

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (X_o = 433 -to X_o =578), In.	F.S. 145	1.450
Max Width		
Max Depth		
Fineness Ratio		
Area		
Max. Cross-Sectional		
Planform		
Wetted		
Base		

TABLE III. - Continued

MODEL COMPONENT: ELEVON - E_{23}

GENERAL DESCRIPTION: Configuration 3 per W_{107} Rockwell Lines

VL70-000139B, data for (1) of (2) sides.

MODEL SCALE: 0.010

DRAWING NUMBER: VL70-000139B

(Model drawing SS-A01182, Release 7)

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area - Ft^2	205.52	0.0206
Span (equivalent) - In.	353.34	3.533
Inb'd equivalent chord , In.	114.78	1.148
Outb'd equivalent chord , In.	55.00	0.550
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.208	0.208
At Outb'd equiv. chord	0.400	0.400
Sweep Back Angles, degrees		
Leading Edge	0.00	0.00
Trailing Edge	-10.24	-10.24
Hingeline	0.00	0.00
Area Moment (Normal to hinge line), Ft^3 (Product of Area Moment)	1548.07	0.00155

TABLE III.

MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY FLAP - F_5

GENERAL DESCRIPTION : Configuration 3A lightweight orbiter body flap.

MODEL SCALE: 0.010 MODEL DRAWING: SS-A00062

DRAWING NUMBER : VL70-000139B

(Model drawing SS-A01182, Release 7)

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length , In.	84.70	0.8470
Max Width	267.6	2.6760
Max Depth		
Fineness Ratio		
Area Ft^2		
Max. Cross-Sectional	142.5195	0.01425
Planform		
Wetted	38.0958	0.00381
Base		

TABLE III. - Continued

MODEL DIMENSIONAL DATA

MODEL COMPONENT : OMS POD - M_4

GENERAL DESCRIPTION : Configuration 3 per Rockwell Lines VL70-000139

NOTE: M_4 identical to M3, except intersection to fuselage.

MODEL SCALE: 0.010

DRAWING NUMBER : VL70-000139B
(Model Drawing SS-A01182, Release 7)

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length , In.	346.0	3.460
Max Width , In.	108.0	1.080
Max Depth , In.	113.0	1.130
Fineness Ratio		
Area		
Max. Cross-Sectional		
Planform		
Wetted		
Base		

Centerline of OMS Pods

WP = 463.9 in F.S., WP = 400 + 63.9 = 463.9

BP = 80.0 IN. F.S.

Length: 1214.0 to 1560.0 = 346.0 in F.S.

TABLE III. - Continued

MODEL COMPONENT: OMS NOZZLES - N_8

GENERAL DESCRIPTION: Basic OMS Nozzle of Configuration 2A per Rockwell Lines VL70-008306 and VL70-000089"B". Intersection of nozzle exit plane and nozzle centerline at X_o = 1570.75, Y_o = + 99.25, Z_o = 507.25

MODEL SCALE = 0.010

DRAWING NO. VL70-008306, VL79-000089"B", SS-A00092

(Model drawing SS-A01182, Release 7)

DIMENSIONS	FULL SCALE	MODEL SCALE
Mach No.		
Length ~ in.		
Gimbal Point to Exit Plane		
Throat to Exit Plane		
Diameter ~ in.		
Exit	50.00	0.500
Throat	N/A	N/A
Inlet	28.00	0.280
Area ~ ft^2.		
Exit	13.635	.001364
Throat		
Gimbal Point (station) ~ in.		
X	1518.0	15.18
Y	± 88.0	± 0.88
Z	492.0	4.920
Null Position ~ deg.		
Pitch	15°49'	15°49'
Yaw	± 12°17'	12°17'

TABLE III. - Continued

*REVISED 4/24/74

MODEL DIMENSIONAL DATA

MODEL COMPONENT: RUDDER - R_5

GENERAL DESCRIPTION: Configuration 139B Orbiter Rudder for stabilizer V_7

MODEL SCALE: 0.010

DRAWING NUMBER: VL70-000139B, VL70-000085
(Model Drawing SS-A01182, Release 7)

DIMENSIONS:	FULL-SCALE	MODEL SCALE
*Area- Ft^2	100.15	0.0100
Span (equivalent) , In.	201.0	2.010
Inb'd equivalent chord , In.	91.585	0.916
Outb'd equivalent chord , In.	50.833	0.508
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.400	0.400
At Outb'd equiv. chord	0.400	0.400
Sweep Back Angles, degrees		
Leading Edge	34.83	34.83
Trailing Edge	26.25	26.25
Hingeline	34.83	34.83
Area Moment (Productof Area & $\bar{c}$ ') ,Ft^3	610.92	0.0006
Mean Aerodynamic chord , In.	73.2	0.732

TABLE III. - Continued

MODEL DIMENSIONAL DATA

MODEL COMPONENT: VERTICAL - V_7

GENERAL DESCRIPTION: Centerline vertical tail, double-wedge airfoil with rounded leading edge.

NOTE: Same as V5, but with manipulator housing removed.

MODEL SCALE: 0.010

DRAWING NUMBER: VL70-000139B (Model Drawing SS-A01182, Release 7)

DIMENSIONS:

TOTAL DATA

	FULL SCALE	MODEL SCALE
Area (Theo) - Ft^2		
Planform	425.92	0.0426
Span (Theo) - In.	315.72	3.157
Aspect Ratio	1.675	1.675
Rate of Taper	0.507	0.507
Taper Ratio	0.404	0.404
Sweep-Back Angles, Degrees.		
Leading Edge	45.000	45.000
Trailing Edge	26.249	26.249
0.25 Element Line	41.130	41.130
Chords:		
Root (Theo) WP	268.50	2.685
Tip (Theo) WP	108.47	1.0847
MAC	199.81	1.998
Fus. Sta. of .25 MAC	1463.50	14.635
W.P. of .25 MAC	635.522	6.355
B.L. of .25 MAC	0.00	0.00
Airfoil Section		
Leading Wedge Angle - Deg.	10.000	10.00
Trailing Wedge Angle - Deg.	14.920	14.920
Leading Edge Radius	2.0	2.0
Void Area	13.17	.001317
Blanketed Area	0.00	0.00

ORIGINAL PAGE IS OF POOR QUALITY

TABLE III. - Continued

MODEL COMPONENT: WING-W_{107}

GENERAL DESCRIPTION: Configuration 3 per Rockwell Lines VL70-000139B

NOTE: Same as W103 except cuff, airfoil and incidence angle.

MODEL SCALE: 0.010 (Model Drawing SS-A01182, Release 7)

TEST NO.

DWG. NO. VL70-000139B

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo.) Ft^2		
Planform	2690.0	0.2690
Span (Theo In.	936.68	9.3668
Aspect Ratio	2.265	2.265
Rate Taper	1.177	1.177
Taper Ratio	0.200	0.200
Dihedral Angle, degrees	3.500	3.500
Incidence Angle, degrees	0.500	0.500
Aerodynamic Twist, degrees	+ 3.000	+ 3.000
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	- 10.24	-10.24
0.25 Element Line	35.209	35.209
Chords:		
Root (Theo) B.P.0.0.	689.24	6.896
Tip, (Theo) B.P.	137.85	1.3785
MAC	474.81	4.7481
Fus. Sta. of .25 MAC	1136.89	11.369
W.P. of .25 MAC	299.20	2.992
B.L. of .25 MAC	182.13	1.821
EXPOSED DATA		
Area (Theo) Ft^2	1752.29	0.1752
Span, (Theo) In. BP108	720.68	7.207
Aspect Ratio	2.058	2.058
Taper Ratio	0.2451	0.2451
Chords		
Root BP108	562.40	5.624
Tip 1.00 $\frac{b}{2}$	137.85	1.379
MAC	393.03	3.930
Fus. Sta. of .25 MAC	1185.31	11.853
W.P. of .25 MAC	300.20	3.002
B.L. of .25 MAC	251.76	2.518
Airfoil Section (Rockwell Mod NASA) XXXX-64		
Root $\frac{t}{c}$ =	0.10	0.10
Tip $\frac{t}{c}$ =	0.12	0.12
Data for (1) of (2) Sides		
Leading Edge Cuff Planform Area Ft^2	118.333	0.0118
	500.0	.0500
Leading Edge Intersects Fus M. L. @ Sta	1083.4	10.834
Leading Edge Intersects Wing @ Sta		

TABLE III. - Continued

MODEL DIMENSIONAL DATA

MODEL COMPONENT : EXTERNAL TANK - T_{20}

GENERAL DESCRIPTION : External Oxygen-Hydrogen Tank

MODEL SCALE: 0.010

DRAWING NUMBER : VL72-000131, VL78-000062B

(Model drawing SS-A00117, Release 4)

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (In.)(Nose @ X_T=328.92)	1846.905	18.469
Max Width (Dia., In. (@X_T=975.675)	333.2	3.332
Major Depth (In.,)	330.2	3.302
Fineness Ratio	5.65713	5.65713
Area - Ft^2		
Max. Cross-Sectional (@ X_T = 975.675)	605.534	0.0605
Major Cross Section	594.679	0.0595
WP of Tank Centerline (Z), In.	400.0000	4.0000
Base (On 330.2 Dia.)	594.679	0.0595

TABLE III. - Continued

MODEL DIMENSIONAL DATA

MODEL COMPONENT: ATTACH STRUCTURE - AT_{16}

GENERAL DESCRIPTION: Forward orbiter/ET Attach Structure (2 member Structure)

MODEL SCALE: 0.010 **MODEL DRAWING:** SS-A00117, Release 4

DRAWING NO.: VL78-000062B, SK-H-4011

DIMENSIONS:

MEMBER		FULL SCALE	MODEL SCALE
#1	X_o	394.38	3.944
	Y_o	0	0
	Z_o	LWR ML	LWR ML
	X_T	1131.0	11.310
	Y_T	46.8	0.468
	Z_T	561.298	5.613
#2	X_o	394.38	3.944
	Y_o	0	0
	Z_o	LWR ML	LWR ML
	X_T	1131.0	11.310
	Y_T	- 46.8	- 0.468
	Z_T	561.298	5.613

Diameter of Members: 5.70 In. Dia. F.S.

TABLE III. - Continued

MODEL DIMENSIONAL DATA

MODEL COMPONENT: ATTACH STRUCTURE - AT$_{17}$

GENERAL DESCRIPTION: Left rear orbiter/ET attach structure (2 member structure)

MODEL SCALE: 0.010 **MODEL DRAWING:** SS-A00117, Release 4

DRAWING NO.: VL78-000062B, SK-H-4013

DIMENSIONS:

MEMBER		FULL SCALE	MODEL SCALE
#1	X_O	1317	13.17
	Y_O	- 96.5	- 0.965
	Z_O	267.5	2.675
	X_T	2058.0	20.58
	Y_T	- 125.827	- 1.258
	Z_T	515.5	5.155
#2	X_O	1317.0	13.17
	Y_O	- 96.5	- 0.965
	Z_O	267.5	2.675
	X_T	2058.0	20.58
	Y_T	- 125.827	- 1.258
	Z_T	515.5	5.155

Diameter of Members: #1 11.5 In. Dia. F.S.

#2 15.5 In. Dia. F.S.

TABLE III. - Continued

MODEL DIMENSIONAL DATA

MODEL COMPONENT: ATTACH STRUCTURE - AT_{18}

GENERAL DESCRIPTION: Right rear orbiter/ET attach structure (3 member structure)

Drawing No: VL78-000062B

MODEL SCALE: 0.010

MODEL DRAWING: SS-A00117, Release 4

DIMENSIONS:	MEMBER		FULL SCALE	MODEL SCALE
	#1	X_o	1317.00	13.170
		Y_o	+ 96.5	+ 0.965
		Z_o	267.5	2.675
		X_T	1872.0	18.720
		Y_T	+ 125.827	+ 1.258
		Z_T	515.5	5.155
	#2	X_o	1317.0	13.170
		Y_o	+ 96.5	+ 0.965
		Z_o	267.5	2.675
		X_T	2058.0	20.580
		Y_T	+ 125.827	+ 1.258
		Z_T	515.5	5.155
	#3	X_o	1317.0	13.170
		Y_o	54.40	0.544
		Z_o	19.30	0.193
		X_T	2058.0	20.580
		Y_T	2.5	0.025
		Z_T	567.6	5.676
Diameter of Members (In.):	#1		15.5	0.155
	#2		11.5	0.115
	#3		4.5	0.045

TABLE III. - Continued

MODEL DIMENSIONAL DATA

MODEL COMPONENT: FEEDLINE - FL_5

GENERAL DESCRIPTION: LOX feedline simulated between ET and Orbiter.

MODEL SCALE: 0.010 MODEL DRAWING: SS-A00117, Release 4

DRAWING NO.: VL78-000062B,

DIMENSIONS:

		FULL SCALE	MODEL SCALE
Leading edge at:	X_T	1033.3	10.333
	Y_T	70.0	0.700
	X_T	1033.3	10.333
	Y_T	- 70.0	- 0.700
Trailing edge at:	X_T	2071.50	20.715
	Y_T	70.00	0.700
	Dia., Inches	18.80	0.188
	X_T	2071.50	20.715
	Y_T	+ 70.00	+ 0.700

Centerline of LOX feedline located radia lly at $\phi = 23^{\circ}24'$

TABLE III. - Continued

MODEL DIMENSIONAL DATA

MODEL COMPONENT: PRESSURE LINE - FL_6

GENERAL DESCRIPTION: Max. cross-sectional area simulating LH_2 pressure line and electrical conduit line on the ET. Drawing No: VL78-000062B

MODEL SCALE: 0.010 MODEL DRAWING: SS-A00117, Release 4

DIMENSIONS:		FULL SCALE	MODEL SCALE
Leading edge at:	X_T	1127.1	11.271
	Y_T	110.3	1.103
Trailing edge at:	X_T	2062.1	20.621
	Y_T	110.3	1.103

Centerline of LH_2 pressure line located radially at $\phi = 33^{\circ}45'$

TABLE III. - Continued

MODEL DIMENSIONAL DATA

MODEL COMPONENT : LH$_2$ UMBILICAL FEEDLINE FL$_9$

GENERAL DESCRIPTION : LH$_2$ umbilical feedline with an electrical quick-disconnect box between the Orbiter and ET.

MODEL SCALE: 0.010

DRAWING NUMBER VL78-000062B
(Model drawing SS-A00117, Release 4)

DIMENSIONS :	FULL SCALE	MODEL SCALE
Centerline at X_T	2071.5	20.715
Max Width	31.2	0.312
Max Depth	37.5	0.375
Diameter	17.0	0.170
Area		
Max. Cross-Sectional		
Planform		
Wetted		
Base		

TABLE III. - Continued

MODEL DIMENSIONAL DATA

MODEL COMPONENT: FAIRING - FR_6

GENERAL DESCRIPTION: Cross member between aft ET/orbiter attach structures

MODEL SCALE: 0.010

MODEL DRAWING: SS-A00117
Release 4

DRAWING NO.: VL78-000062B, VL78-000050

DIMENSIONS:	FULL SCALE	MODEL SCALE
Leading edge at X_T	2035.50	20.355
Length	15.00	0.150
Width	193.0	1.930

TABLE III. - Continued

MODEL DIMENSIONAL DATA

MODEL COMPONENT: ET PROTUBERANCE - PT_{13}

GENERAL DESCRIPTION: Maximum cross-sectional area simulating LOX recirculation line and electrical conduit box on planform view of external tank, T_{20}.

MODEL SCALE: 0.010

MODEL DRAWING: SS-A00117 Release 4

DRAWING NO.: VL78-000062B

DIMENSIONS:		FULL SCALE	MODEL SCALE
Leading edge at:	X_T	1208.3	12.083
	Y_T	+ 95.0	+ 0.950
	X_T	1208.3	12.083
	Y_T	- 95.0	- 0.950
Trailing edge at:	X_T	2060.5	20.605
	Y_T	+ 95.0	+ 0.950
	X_T	2060.5	20.605
	Y_T	- 95.0	- 0.950

Centerline of LOX recirculation line located radially at $\phi = 33^{\circ}45'$

TABLE III. - Continued

MODEL DIMENSIONAL DATA

MODEL COMPONENT: ET PROTUBERANCE - PT_{14}

GENERAL DESCRIPTION: LOX pressure line on Tank, T_{20}

MODEL SCALE: 0.010

DRAWING NO.: VL78-000062B (Model drawing SS-A00117, Release 4)

DIMENSIONS:		FULL SCALE	MODEL SCALE
Leading edge at:	X_T	355.90	3.559
	Y_T	6.0	0.06
Trailing edge at:	X_T	2060.5	20.605
	Y_T	+ 87.0	+ 0.870

Centerline of LOX pressure line located radially at $\phi = 23^{\circ}24'$

TABLE III. - Continued

MODEL DIMENSIONAL DATA

MODEL COMPONENT: NOSE CONE LINES - PT_{20}

GENERAL DESCRIPTION: Maximum cross-sectional area simulating the LOX pressure line and electrical conduit on top of external tank (T_{20}) nose cone area.

MODEL SCALE: 0.010

DRAWING NO.: VL78-000062B (Model drawing SS-A00117, Release 4)

DIMENSIONS:		FULL SCALE	MODEL SCALE
Leading edge at:	X_T	360.92	3.609
	Y_T	34.0	0.340
Trailing edge at:	X_T	955.1	9.551
	Y_T	336.5	3.365

Centerline of lines located radially at $\phi = 33^{\circ}45'$

TABLE III. - Continued

MODEL DIMENSIONAL DATA

MODEL COMPONENT : BOOSTER SOLID ROCKET MOTOR - S_{18}

GENERAL DESCRIPTION : Configuration MCR500. Data for (1) of (2) sides.

MODEL SCALE: 0.010

DRAWING NUMBER VL77-000066 (Model drawing SS-A01308, Release 1)

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (Includes nozzle), In.	1989.4	19.894
Max Width (Tank Dia.), In.	146.0	1.460
Max Depth (Aft Shroud), In.	192.0	1.920
Fineness Ratio	9.06771	9.06771
Area , Ft^2		
Max. Cross-Sectional	201.06193	0.0201
Planform		
Wetted		
Base		
WP of BSRM Centerline (Z_T), In.	400.0	4.000
FS of BSRM Nose (X_T), In.	743.00	7.430

TABLE III. - Concluded

MODEL DIMENSIONAL DATA

MODEL COMPONENT: SRB PROTUBERANCE - PS_7

DESCRIPTION: SRB/ET attach ring: two attach rings and one structural ring

MODEL SCALE: 0.010

DRAWING NO. VL77-000066 (Model drawing SS-A01308, Release 1)

DIMENSIONS)DATA FOR 1 OF 2):	FULL SCALE	MODEL SCALE
Centerline at X_B:	1505	15.05
	1517	15.17
	1852	18.52
Width	10	0.10
Heigth	10	0.10

Notes:

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

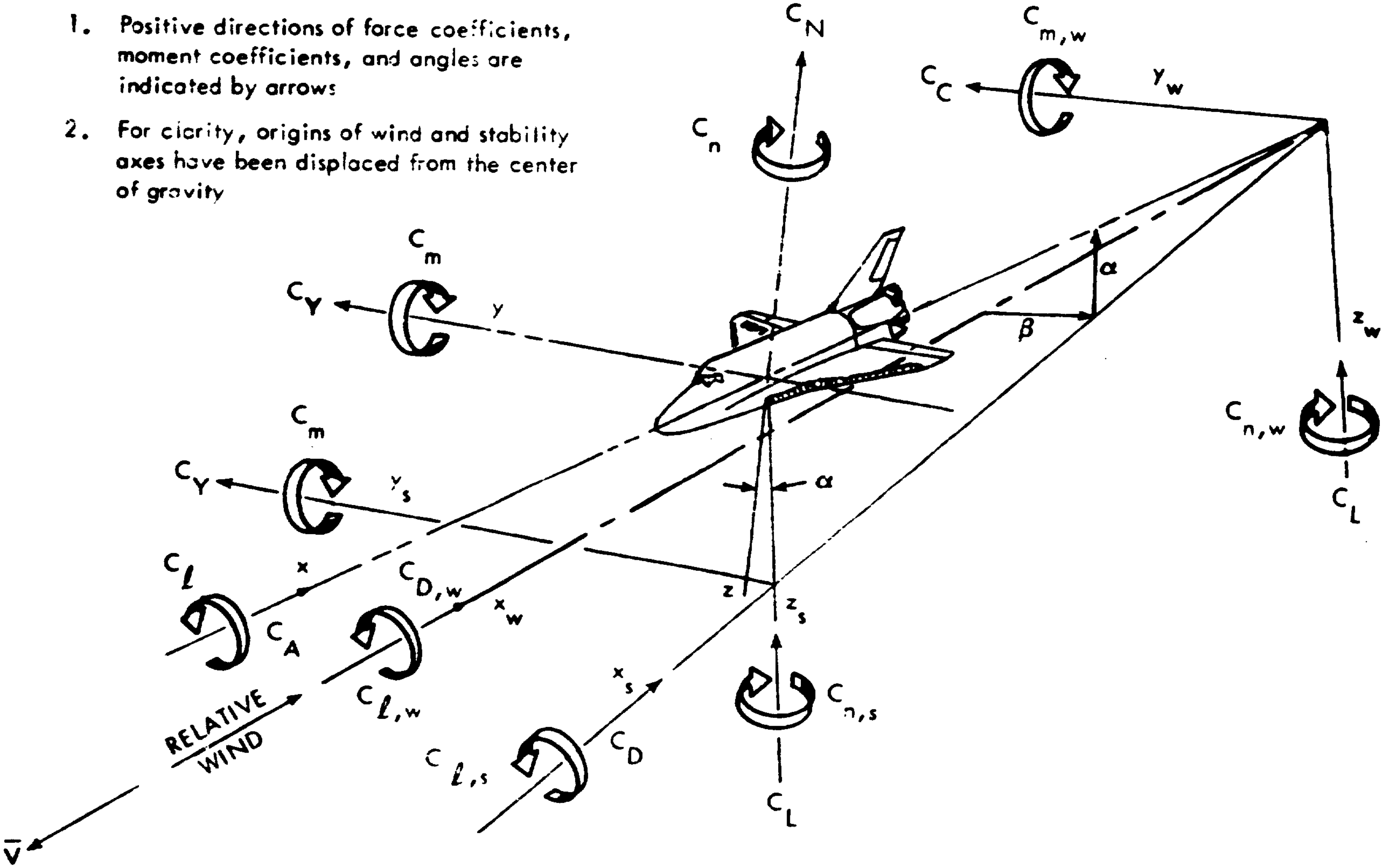
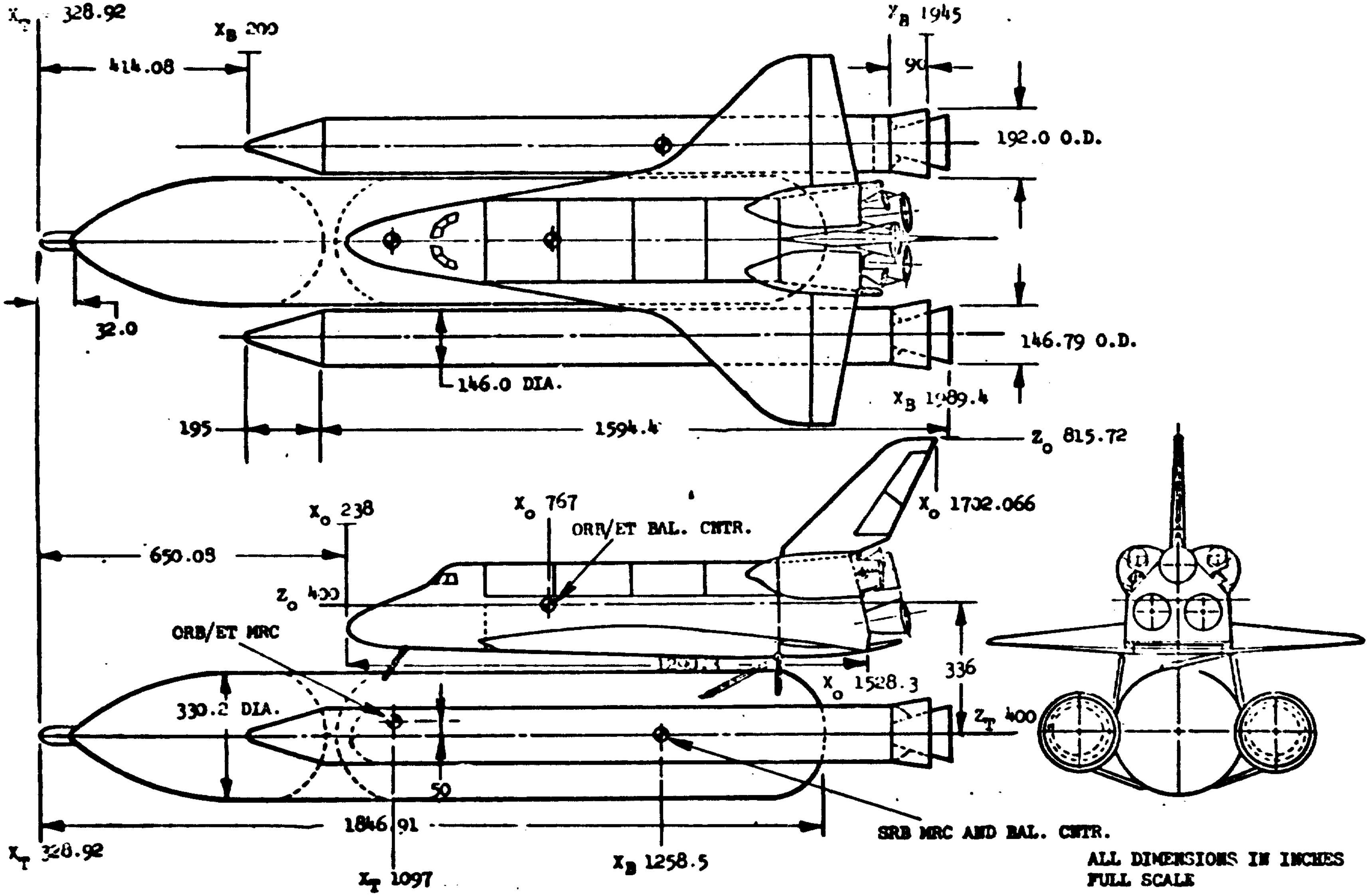

C_N
$C_{m,w}$
C_C
y_w
C_n
C_m
C_Y
y
α
β
z_w
$C_{n,w}$
C_L
C_m
C_Y
y_s
α
C_ℓ
x
$C_{D,w}$
x_w
z
z_s
C_A
$C_{\ell,w}$
x_s
$C_{n,s}$
RELATIVE WIND
$C_{\ell,s}$
C_D
C_L
$\bar{V}$

Figure 1. Axis Systems


X_T 328.92
X_B 200
414.08
Y_B 1945
90
192.0 O.D.
32.0
146.79 O.D.
146.0 DIA.
X_B 1989.4
195
1594.4
Z_o 815.72
X_o 1702.066
X_o 238
X_o 767
ORB/ET BAL. CNTR.
650.08
Z_o 400
ORB/ET MRC
336
X_o 1528.3
330.2 DIA.
Z_T 400
50
1846.91
X_T 328.92
X_T 1097
X_B 1258.5
SRB MRC AND BAL. CNTR.
ALL DIMENSIONS IN INCHES
FULL SCALE

a. Integrated Vehicle Configuration
Figure 2. Model Sketches

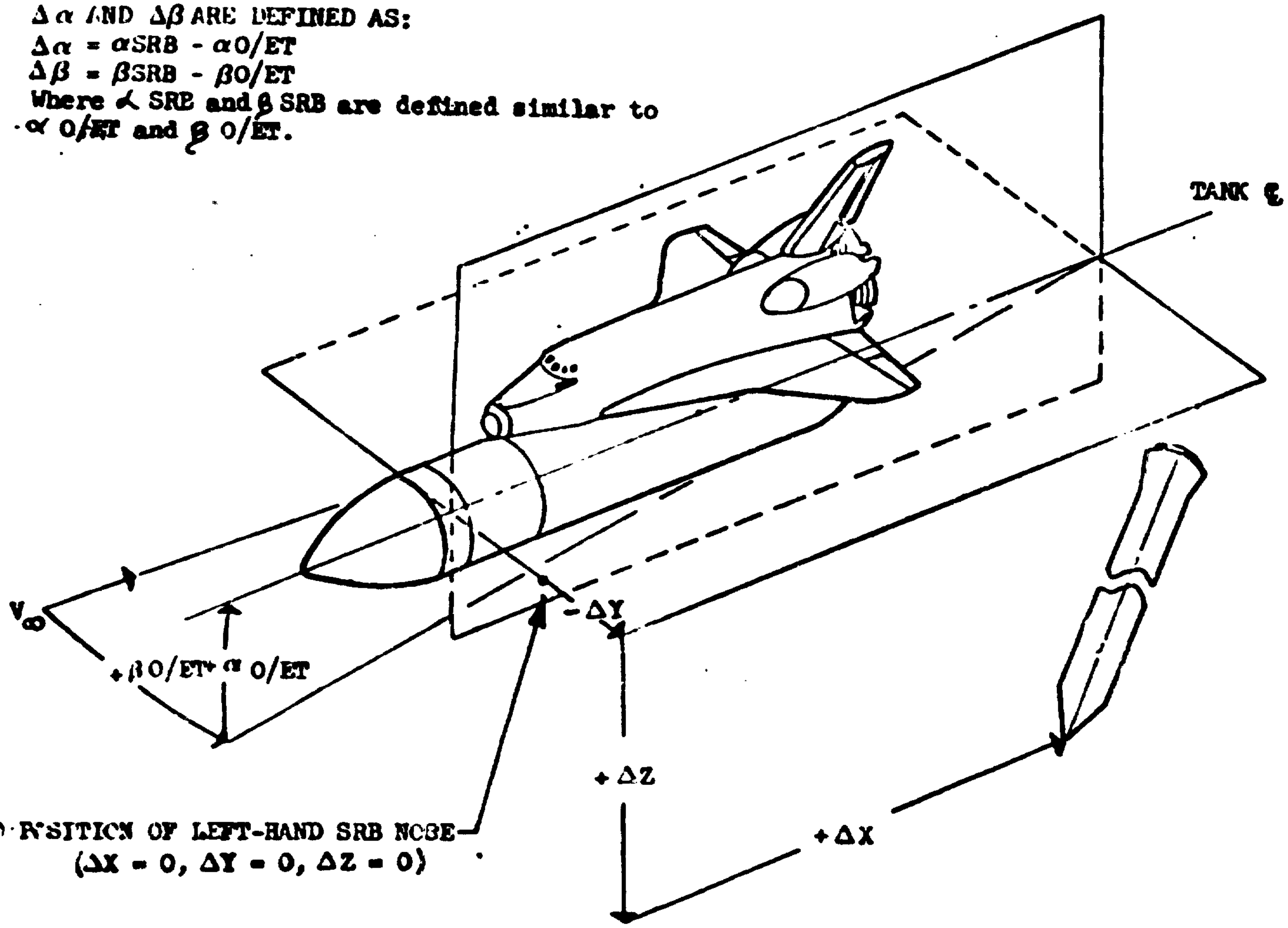
NOTES: 1. ΔX, ΔY, AND ΔZ ARE DISPLACEMENTS OF THE SRB NOSE FROM THE MATED SRB NOSE POSITION.

2. POSITIVE ΔY IS TO RIGHT.

3. $\Delta\alpha$ AND $\Delta\beta$ ARE DEFINED AS:

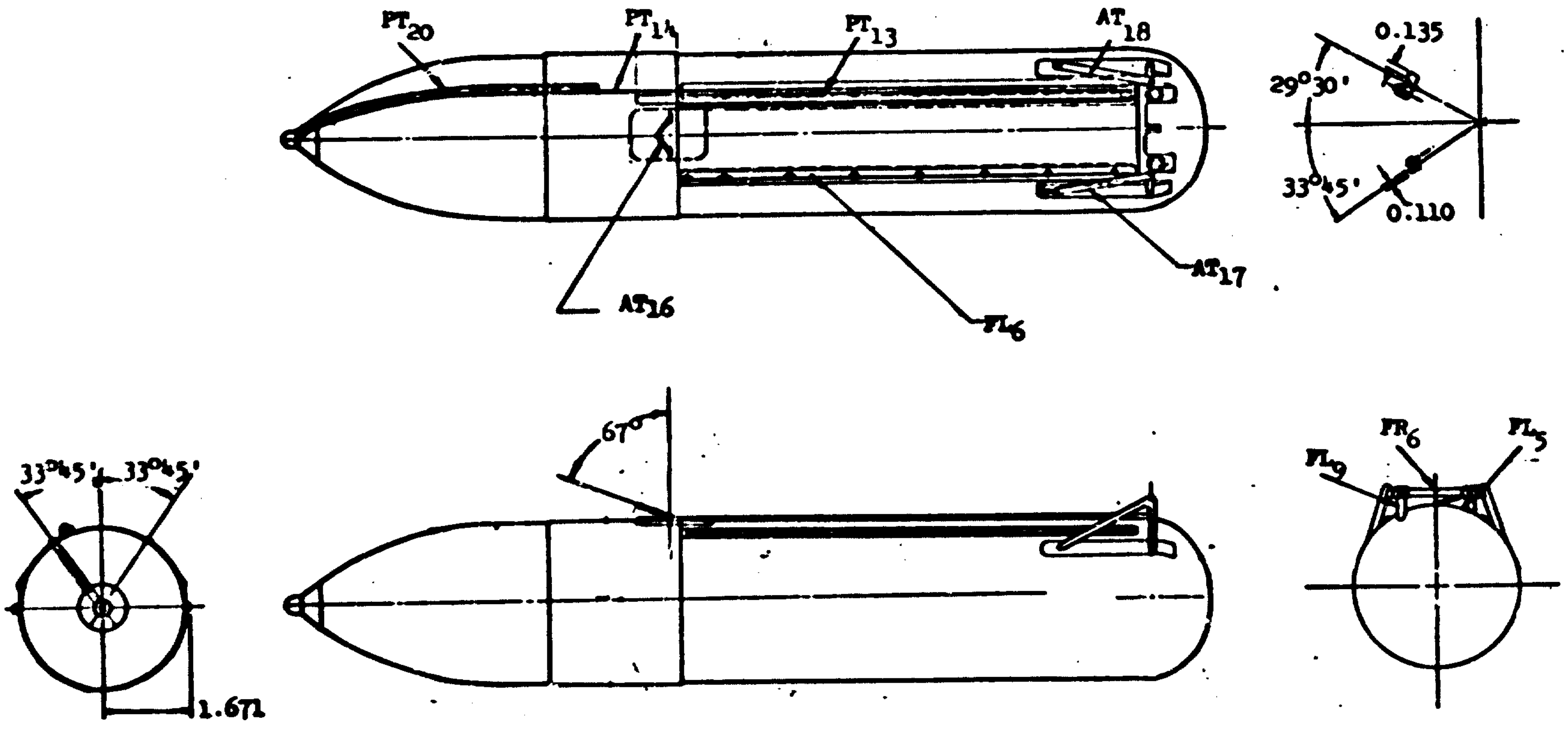
$$\Delta\alpha = \alpha SRB - \alpha O/ET$$
$$\Delta\beta = \beta SRB - \beta O/ET$$

Where α SRB and β SRB are defined similar to α O/ET and β O/ET.

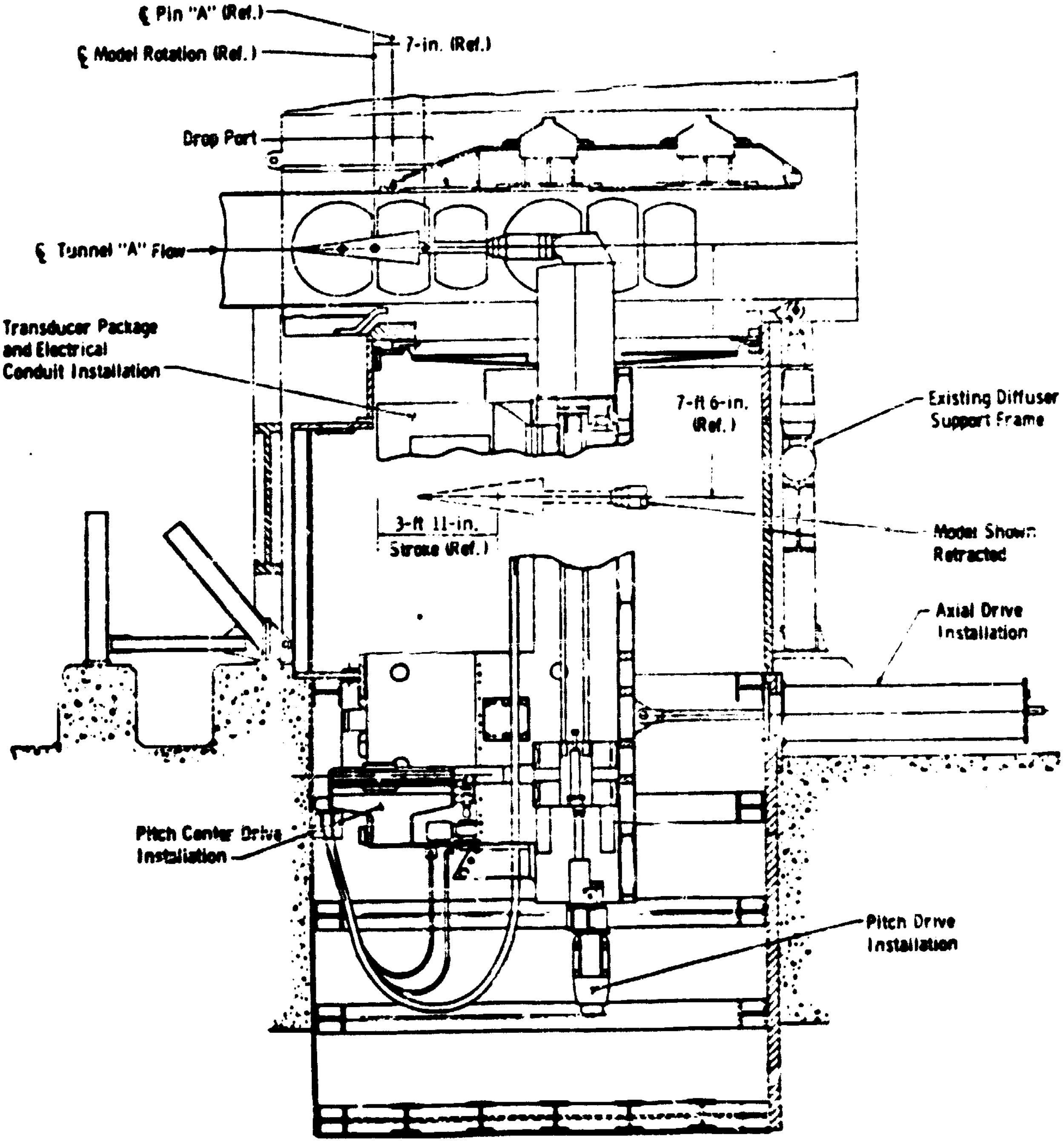

TANK ℄
V_∞
$+\beta$ O/ET
$+\alpha$ O/ET
$-\Delta Y$
$+\Delta Z$
$+\Delta X$

MATED POSITION OF LEFT-HAND SRB NOSE
($\Delta X = 0$, $\Delta Y = 0$, $\Delta Z = 0$)

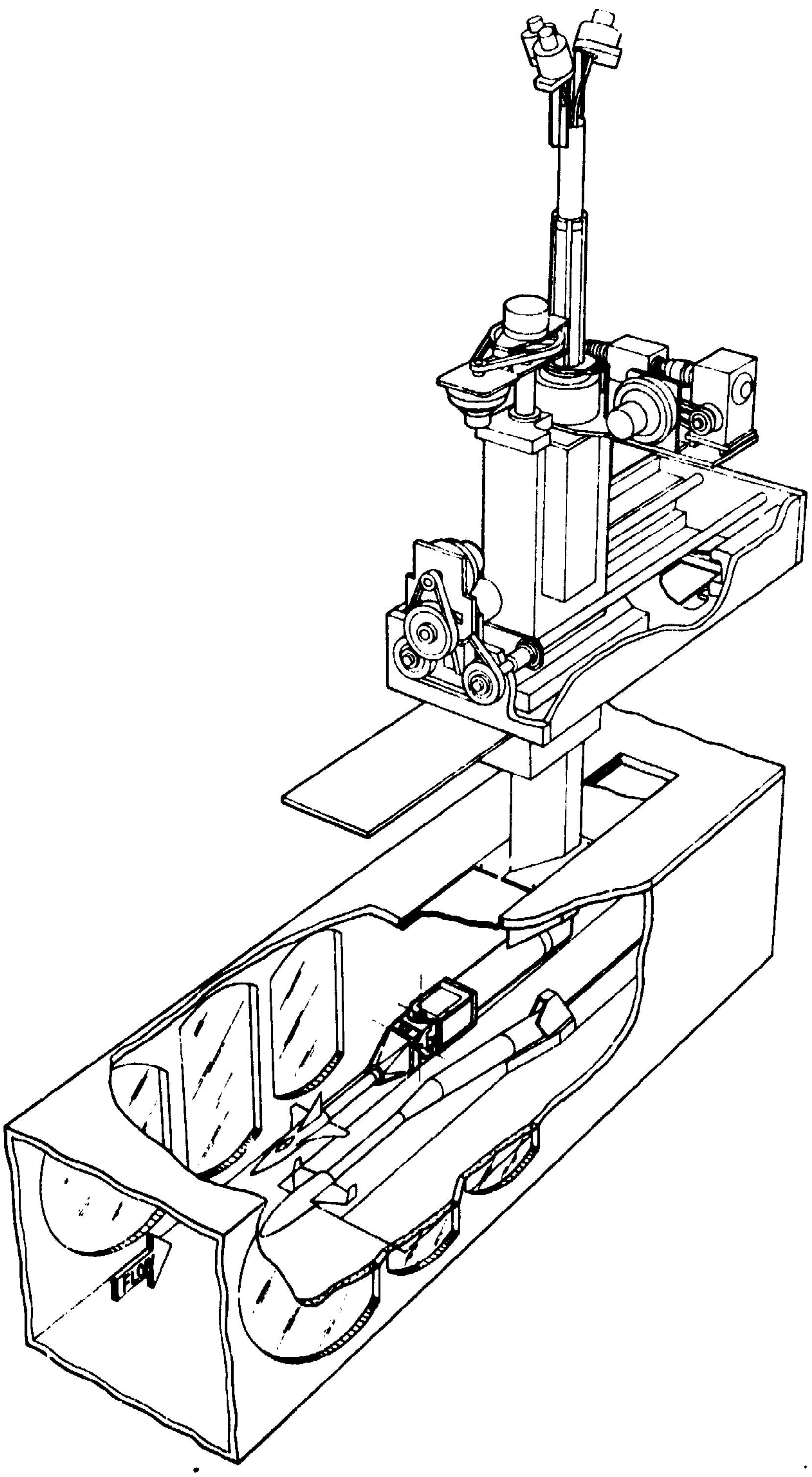
b. SRB Separation Geometry
Figure 2. Continued.


PT$_{20}$
PT$_{14}$
PT$_{13}$
AT$_{18}$
0.135
29°30'
33°45'
0.110
AT$_{16}$
FL$_6$
AT$_{17}$
67°
FR$_6$
FL$_5$
FL$_9$
33°45'
33°45'
1.671

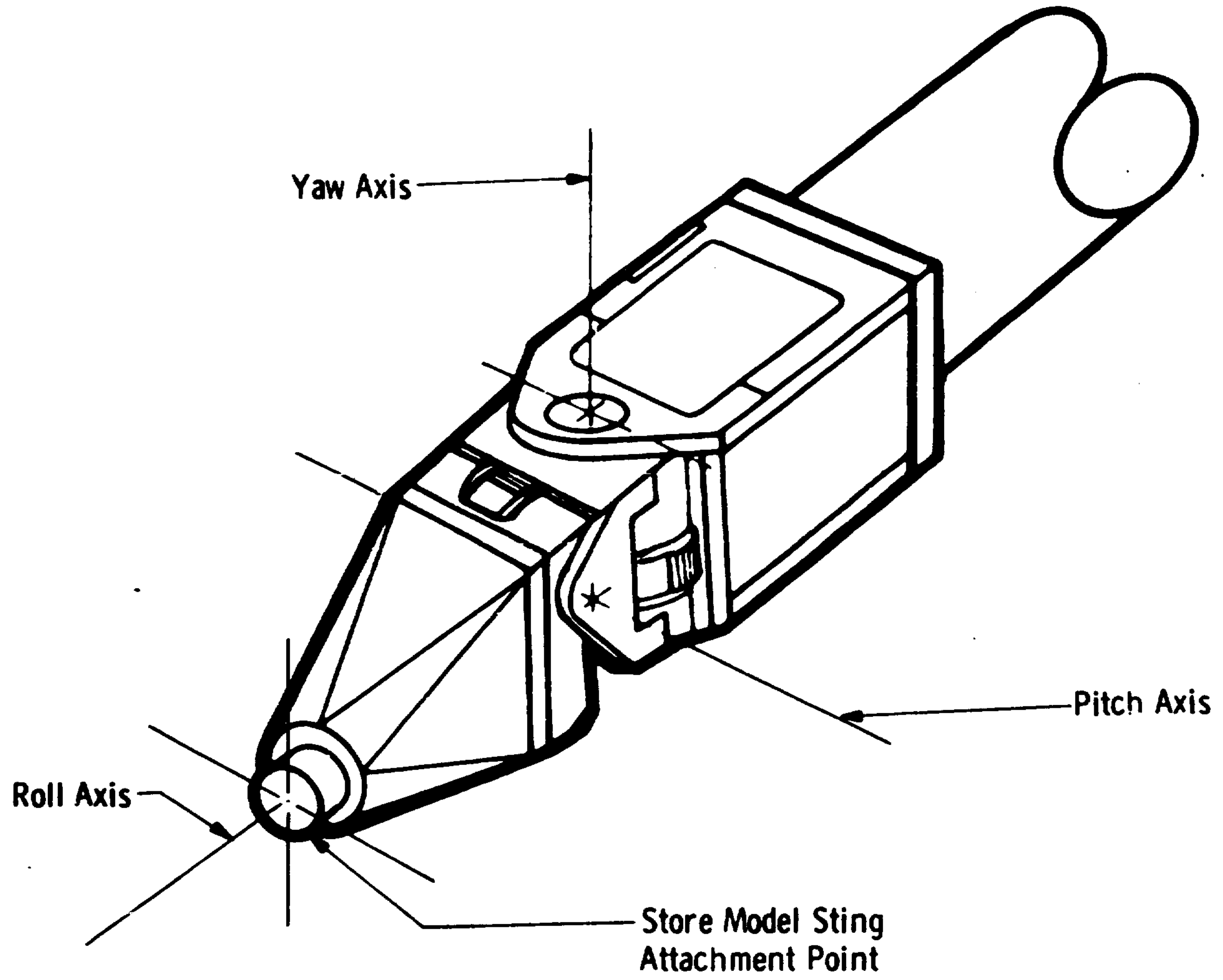
c. External Tank (T_{20}) Protrusions
Figure 2. Continued.


℄ Pin "A" (Ref.)
℄ Model Rotation (Ref.)
7-in. (Ref.)
Drop Port
℄ Tunnel "A" Flow
Transducer Package and Electrical Conduit Installation
7-ft 6-in. (Ref.)
Existing Diffuser Support Frame
3-ft 11-in. Stroke (Ref.)
Model Shown Retracted
Axial Drive Installation
Pitch Center Drive Installation
Pitch Drive Installation

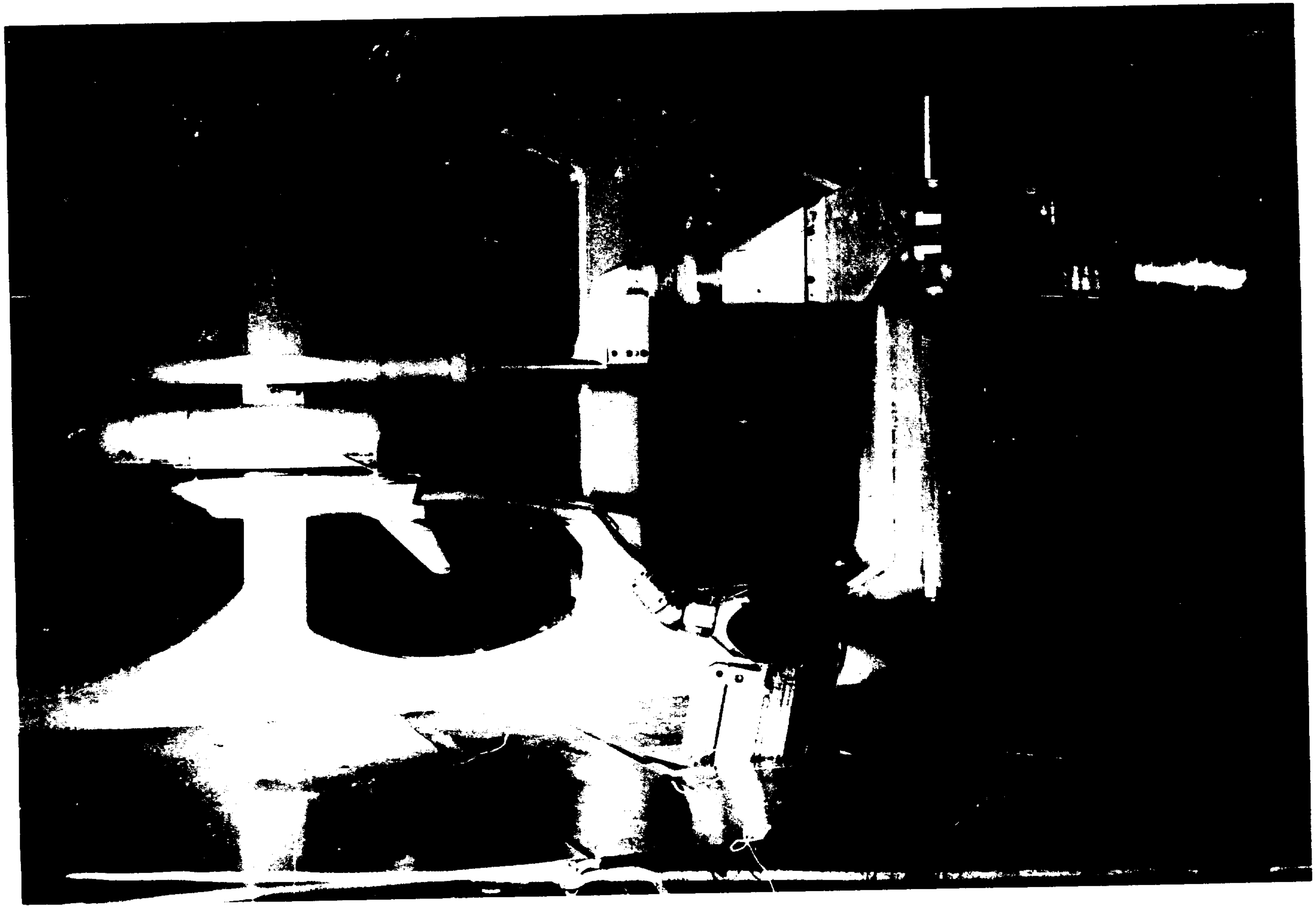
d. AEDC von Karman Gas Dynamic Facility Tunnel A
Figure 2. Continued.



e. Artist's Conception of the VKF/CTS Installed in Tunnel A
Figure 2. Continued.

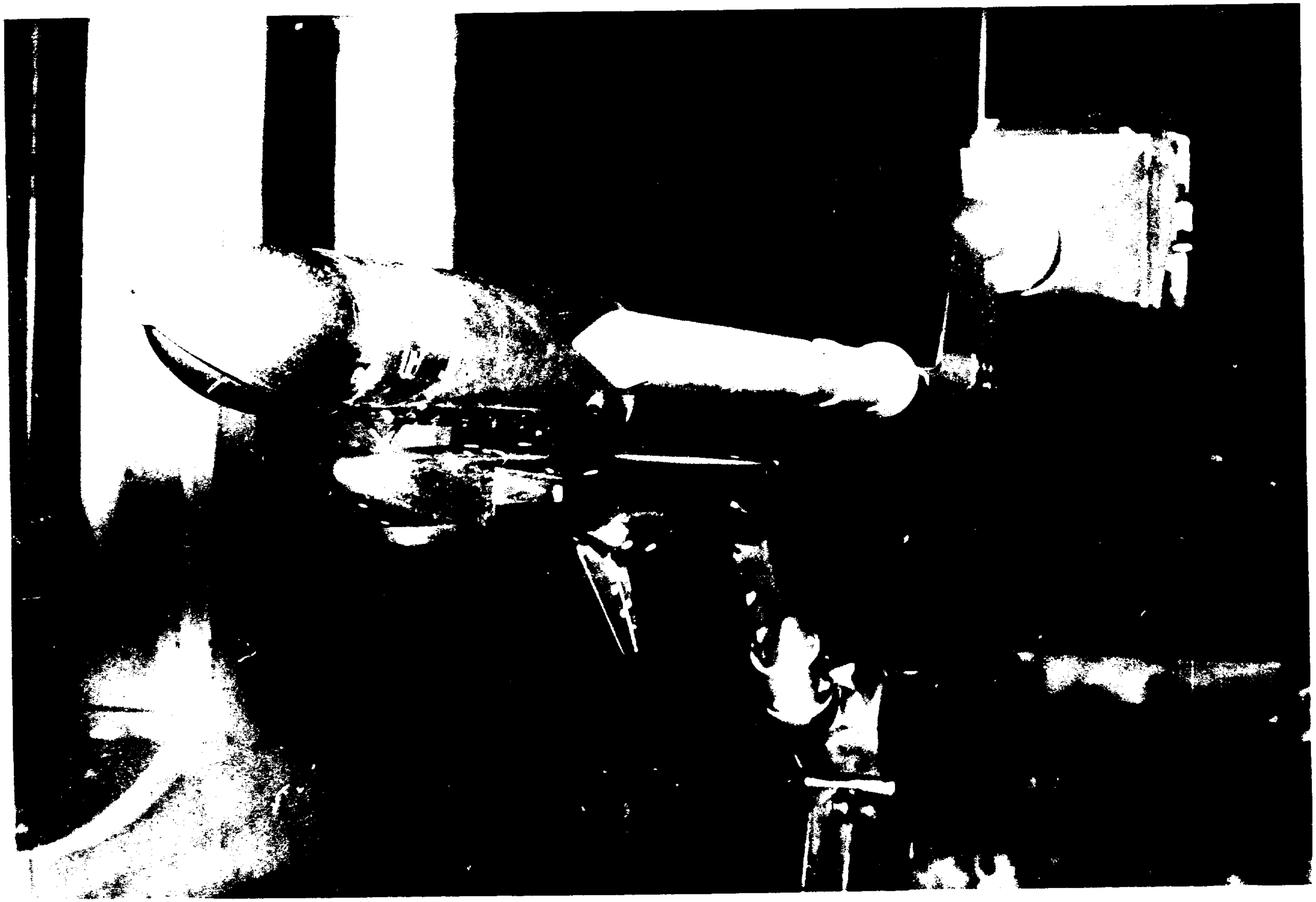

Yaw Axis
Pitch Axis
Roll Axis
Store Model Sting Attachment Point

f. Artist's Conception of the VKF/CTS With Roll-Pitch-Yaw Support
Figure 2. Concluded.

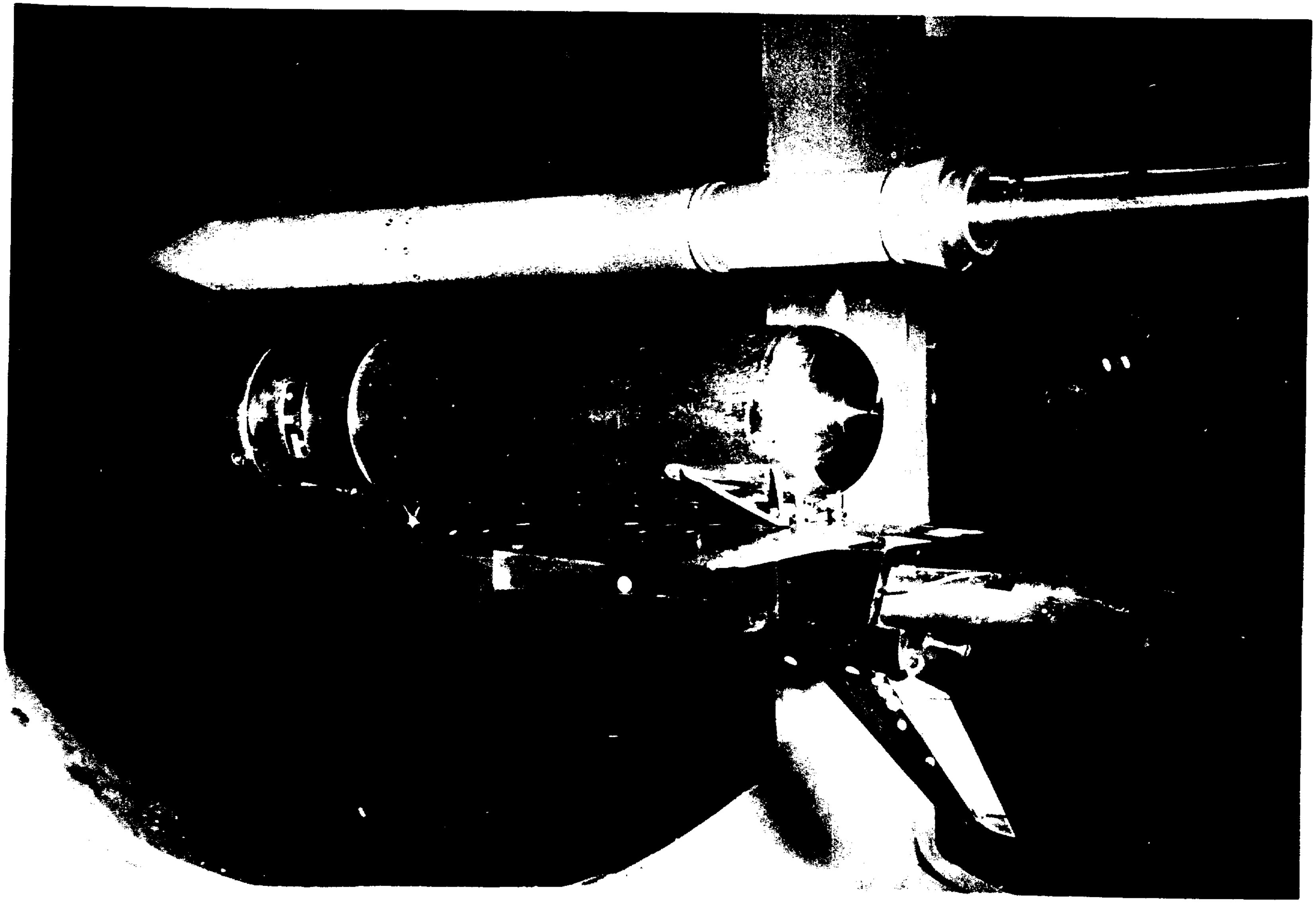


a. Side View
Figure 3. Installation Photographs

ORIGINAL PAGE IS
OF POOR QUALITY



b. Front-Quarter View
Figure 3. Continued.



c. Rear-Quarter View
Figure 3. Concluded.

APPENDIX

TABULATED SOURCE DATA

(see Volume 1 for Plotted Data figures)

Tabulations of plotted data are available
upon request from Data Management Services.

```
DATE 20 MAY 75                              IA87 TABULATED SOURCE DATA                                         PAGE    1

                                AEDC/VA528(IA87)-O1ET131-ORB/ET W R/H SRB SEPAR.              (RTU001)   ( 03 OCT 74  )

                 REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                            MACH   =     4.520   PTOTL  =   100.500
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                            ALPHA  =     -.400   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                            DALPHA =      .000   DBETA  =      .000
SCALE =       .0100                                                              X      =      .000

                              RUN NO.    4/ 0    RN/L =   6.51

      Y         Z         CN        CA       CLM       CY        CYN       CBL      DLTALF    DLTBTA     X
    11.398   -100.560   -.06736    .18898    .02197   -.01749   -.00589   -.00233    .02835   -.05629   -.10364
    10.186      -.172   -.07386    .18729    .02906   -.01379   -.00389   -.00119    .01615   -.00113    .00877
     8.672    100.160   -.07201    .18773    .02221   -.00882   -.00438    .00026   -.01092    .05358    .03775
    10.440    199.530   -.06130    .18897    .02899   -.00908   -.00292   -.00060    .02794    .00812   -.03979
    10.494    399.770   -.06274    .18631    .02572    .00103    .00106    .00144    .01198   -.01537   -.08483

                              RUN NO.    3/ 0    RN/L =   6.51

      Y         Z         CN        CA       CLM       CY        CYN       CBL      DLTALF    DLTBTA     X
   101.750   -101.460   -.06672    .18784    .02238   -.02414    .00281   -.00373    .06416   -.01934   -.07218
   101.840     -2.217   -.07121    .18778    .02817   -.02102    .00056   -.00160    .09685   -.06325   -.12521
   100.610     99.923   -.06638    .18958    .02824   -.01759    .00089   -.00027    .01161   -.00196   -.17186
   100.940    199.990   -.05502    .19046    .02207   -.01267    .00242   -.00077    .00489   -.01210   -.21078
   101.120    400.790   -.06781    .18632    .02745    .00366    .00040    .00133   -.02884   -.03451   -.08430

                              RUN NO.    2/ 0    RN/L =   6.51

      Y         Z         CN        CA       CLM       CY        CYN       CBL      DLTALF    DLTBTA     X
   199.720   -100.150   -.06567    .18946    .02526   -.00976    .00769   -.00151    .01560    .00581   -.13203
   200.500       .058   -.06640    .18936    .02567   -.00982    .00708   -.00005    .02187   -.03600   -.20976
   199.680    100.870   -.06246    .18868    .02330   -.00696    .00520   -.00000   -.02864    .00308   -.09324
   199.610    200.710   -.06231    .18696    .02316   -.00300    .00405   -.00020   -.02947    .02113   -.20003
   198.570    400.320   -.07091    .18645    .02876    .00628   -.00072    .00124   -.02668    .05214   -.06939

                              RUN NO.    1/ 0    RN/L =   6.51

      Y         Z         CN        CA       CLM       CY        CYN       CBL      DLTALF    DLTBTA     X
   398.700   -100.590   -.07321    .18713    .03018    .00813   -.00181    .00084    .03892    .07706   -.19744
   400.130      -.501   -.07229    .18719    .02953    .00797   -.00165    .00063    .03216    .00971   -.26277
   400.670     99.663   -.07177    .18730    .02910    .00816   -.00176    .00036    .01996   -.02492   -.23291
   402.280    200.130   -.07297    .18685    .03001    .00687   -.00239    .00077   -.00628   -.09064   -.13448
   400.880    400.270   -.07405    .18703    .03070    .00923   -.00259    .00110    .00276   -.01865   -.13292
```

ORIGINAL PAGE IS
OF POOR QUALITY

PRECEDING PAGE BLANK NOT FILMED

```
DATE 20 MAY 75                              IA87 TABULATED SOURCE DATA                                   PAGE    2

                                 AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR.          (RTU002)   ( 03 OCT 74  )

            REFERENCE DATA                                                                     PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =     4.520   PTOTL  =   100.500
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                         ALPHA  =     -.400   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          CALPHA =      .000   DBETA  =      .000
SCALE =       .0100                                                            X      =   300.000

                        RUN NO.    5/ 0    RN/L =   6.51

      Y          Z          CN          CA          CLM        CY          CYN         CBL         DLTALF      DLTBTA     X
   10.449    -100.110    -.06463     .18925      .02254    -.01366      .00335     -.00145      .01258     -.00550  299.98000
   12.647        .747    -.06780     .18884      .02541    -.01182      .00225     -.00073     -.02197     -.08387  299.93000
   11.450     100.440    -.06484     .18962      .02597    -.00745      .00170      .00002     -.00656     -.05857  299.91000
   10.895     199.980    -.06063     .18730      .02388    -.00206      .00023     -.00016      .01361     -.01661  299.99000
   11.389     400.780    -.06121     .18602      .02435     .00010      .00202      .00146     -.02204     -.03866  299.99000

                        RUN NO.    6/ 0    RN/L =   6.50

      Y          Z          CN          CA          CLM        CY          CYN         CBL         DLTALF      DLTBTA     X
   98.565    -100.780    -.06229     .18906      .02199    -.01153      .00555     -.00207      .03443      .08202  299.90000
   98.142       -.074    -.06589     .18891      .02540    -.00975      .00464      .00006      .00483      .06957  299.82000
   99.328      99.131    -.05986     .18944      .02252    -.00610      .00286     -.00060      .06256      .02622  299.91000
  101.180     200.380    -.05605     .18742      .01953    -.00549      .00300     -.00110     -.01204     -.02609  299.97000
  100.690     399.790    -.06718     .18607      .02651     .00361      .00092      .00135      .01399     -.00949  299.88000

                        RUN NO.    7/ 0    RN/L =   6.50

      Y          Z          CN          CA          CLM        CY          CYN         CBL         DLTALF      DLTBTA     X
  201.810    -101.510    -.06694     .18931      .02548    -.01340      .01118     -.00141      .05965     -.07081  299.91000
  201.430       -.336    -.06483     .18914      .02482    -.01055      .00821      .00016     -.00426     -.04373  299.88000
  200.170      98.328    -.05654     .18878      .01944    -.00925      .00742     -.00100      .09959      .02019  299.88000
  200.200     199.850    -.06129     .18593      .02190    -.00404      .00499     -.00026      .01533      .00420  299.96000
  199.360     397.760    -.07425     .18712      .03085     .00909     -.00261      .00111      .08515      .04191  299.89000

                        RUN NO.    8/ 0    RN/L =   6.50

      Y          Z          CN          CA          CLM        CY          CYN         CBL         DLTALF      DLTBTA     X
  400.600    -100.160    -.07306     .18786      .03010      .00843     -.00185      .00078      .01437     -.01500  299.89000
  400.780       -.005    -.07223     .18769      .02945      .00840     -.00184      .00048      .01772     -.01282  299.95000
  400.880     100.550    -.07283     .18724      .02995      .00866     -.00226      .00071     -.02247     -.04543  299.87000
  400.460     200.530    -.07389     .18702      .03073      .00900     -.00259      .00111     -.02550     -.02013  299.88000
  399.320     399.840    -.07385     .18695      .03072      .00918     -.00263      .00113      .01271      .05344  299.86000
```

```
                                  AEDC/VA528(IA87)-O1ET131-ORB/ET W R/M SRB SEPAR.          (RTU003)    ( 03 OCT 74  )

            REFERENCE DATA                                                                         PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                 MACH    =     4.520   PTOTL  =   100.500
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                                ALPHA   =     -.400   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                 DALPHA  =     5.000   DBETA  =      .000
SCALE =        .0100                                                                  X       =   300.000

                       RUN NO.    12/ 0    RN/L =   6.50

     Y          Z         CN        CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA      X
   11.048    -99.117   -.07277    .18958    .02843   -.01398    .00197    .00040    4.95350   -.06844  299.75000
    7.956       .409   -.07085    .18816    .02896   -.00651   -.00097    .00060    4.98280    .09128  299.92000
   10.637     99.798   -.06268    .18973    .02526   -.00031   -.00127   -.00034    5.01140   -.01164  299.90000
    9.585    198.580   -.06590    .18714    .02748    .00250   -.00163    .00060    5.05040    .04318  300.02000
   10.320    399.640   -.06355    .18642    .02508    .00300    .00085    .00142    5.01070    .00592  300.00000

                       RUN NO.    11/ 0    RN/L =   6.51

     Y          Z         CN        CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA      X
  100.600   -100.030   -.06741    .18821    .02598   -.01178    .00516   -.00006    5.00120   -.00269  299.98000
  101.600      -.488   -.06730    .18964    .02719   -.00693    .00283    .00134    5.01580   -.06281  299.89000
   99.687    100.410   -.05827    .18917    .02137   -.00407    .00197   -.00096    4.99700    .01337  299.85000
  100.940    199.950   -.06280    .18685    .02444   -.00282    .00196    .00044    5.00530   -.02482  299.97000
  101.700    401.340   -.06988    .18628    .02803    .00639   -.00063    .00128    4.95110   -.06268  299.75000

                       RUN NO.    10/ 0    RN/L =   6.50

     Y          Z         CN        CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA      X
  200.310    -99.976   -.06841    .18885    .02683   -.01250    .01004    .00001    5.00630    .00322  299.84000
  199.290      1.001   -.06375    .18896    .02440   -.00911    .00697    .00067    4.97440    .02329  299.91000
  200.040    101.090   -.05646    .18764    .01899   -.00790    .00695   -.00116    4.95900    .00159  299.84000
  200.470    200.760   -.06767    .18619    .02699   -.00148    .00357    .00138    4.94130   -.03156  299.84000
  200.430    399.520   -.07396    .18691    .03077    .00921   -.00261    .00112    5.00980   -.01343  299.95000

                       RUN NO.     9/ 0    RN/L =   6.49

     Y          Z         CN        CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA      X
  399.830   -100.940   -.07266    .18769    .02987    .00837   -.00187    .00068    5.05310    .03496  299.95000
  400.520      -.966   -.07215    .18748    .02943    .00848   -.00197    .00049    5.04980   -.00154  299.94000
  400.750     99.357   -.07363    .18705    .03054    .00899   -.00251    .00101    5.03170   -.03269  299.94000
  400.350    199.750   -.07400    .18717    .03079    .00905   -.00255    .00109    5.01310   -.00303  299.96000
  400.340    399.940   -.07402    .18717    .03078    .00903   -.00261    .00112    5.00830   -.00858  299.96000
```

```
                                    AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.                  (RTU004)    ( 03 OCT 74  )

              REFERENCE DATA                                                                               PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                                      MACH    =      4.520   PTOTL  =   100.500
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YT                                     ALPHA   =      -.400   BETA   =      .000
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                                      DALPHA  =      5.000   DBETA  =      .000
SCALE =       .0100                                                                         X       =       .000

                        RUN NO.    13/ 0    RN/L =    6.50

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
   10.394     -99.623    -.07752      .18818      .02970     -.01628     -.00764     -.00028     4.98920      .02630    -.22050
   10.606       -.196    -.07608      .18661      .03316     -.00753     -.00737      .00082     5.01210     -.00280    -.12647
   10.924      99.859    -.07055      .18770      .03234     -.00099     -.00686      .00054     5.00910     -.03151    -.20354
   10.230     199.630    -.06088      .18948      .02847     -.00235     -.00399     -.00049     5.01400      .01138    -.13992
    9.140     398.890    -.06665      .18644      .02742      .00473     -.00064      .00132     5.03780      .03219    -.04832

                        RUN NO.    14/ 0    RN/L =    6.48

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
  100.960    -100.060    -.07353      .18725      .02771     -.02300     -.00009     -.00142     5.00970     -.01244    -.06817
   99.215       2.250    -.07271      .18773      .03067     -.01689     -.00220     -.00016     4.90540      .04038    -.26631
   99.699     102.290    -.06545      .18963      .02854     -.01243     -.00086      .00019     4.90500      .02565    -.24351
   98.385     201.720    -.05558      .19057      .02242     -.00715      .00087     -.00096     4.93860      .09641    -.18314
  100.600     399.640    -.06886      .18662      .02782      .00517     -.00032      .00130     5.01090     -.01833    -.12483

                        RUN NO.    15/ 0    RN/L =    6.48

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
  200.330    -101.220    -.06887      .18928      .02731     -.01001      .00896      .00036     5.05870      .02537    -.15785
  201.290      -1.228    -.06584      .18904      .02552     -.00865      .00614      .00040     5.05790     -.01314      .00411
  201.090      98.540    -.06453      .18814      .02904     -.00443      .00384      .00070     5.07200     -.02788      .04432
  200.080     199.770    -.06482      .18703      .02476     -.00001      .00225      .00005     5.01060     -.00714     -.04612
  199.420     398.910    -.07202      .18668      .02943      .00750     -.00144      .00120     5.04580      .04772      .01998

                        RUN NO.    16/ 0    RN/L =    6.48

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
  400.640    -100.200    -.07288      .18728      .02999      .00835     -.00193      .00083     5.00750     -.01451    -.12888
  400.230        .134    -.07214      .18734      .02949      .00828     -.00173      .00064     4.99720     -.00226    -.18461
  399.760     100.090    -.07220      .18728      .02939      .00868     -.00202      .00049     4.99910      .01714    -.27532
  399.590     200.070    -.07387      .18715      .03071      .00899     -.00254      .00105     5.00010      .03370    -.13545
  398.400     399.130    -.07422      .18735      .03081      .00922     -.00267      .00115     5.05520      .08141    -.02722
```

```
DATE 20 MAY 75                                   IA87 TABULATED SOURCE DATA                                          PAGE    5

                                       AEDC/VA520(IA87)-OLET1S1-ORB/ET W R/H SRB SEPAR.              (RTU005)    ( 03 OCT 74  )

              REFERENCE DATA                                                                            PARAMETRIC DATA

SREF   =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                             MACH    =      4.520   PTOTL  =   100.900
LREF   =  1290.3000 INCHES    YMRP  =       .0000 IN. YT                             ALPHA   =      -.400   BETA   =      .000
BREF   =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                             DALPHA  =     -5.000   DBETA  =      .000
SCALE  =       .0100                                                                  X       =       .000

                        RUN NO.    20/ 0    RN/L =   6.51

        Y           Z          CN          CA         CLM         CY         CYN        CBL        DLTALF      DLTBTA       X
     10.896       -.163     -.04734      .18930      .00898     -.02238     .00168    -.00067    -4.98110     -.01376    -.12769
      9.750     100.080     -.06660      .18850      .02807     -.02253     .00081    -.00175    -5.05030     -.02565    -.17119
     10.374     199.500     -.05876      .18901      .02702     -.02032     .00020    -.00138    -4.98250     -.00120    -.19294
     10.963     399.600     -.05766      .18619      .02453     -.00522     .00310     .00148    -4.98420     -.02381    -.17431

                        RUN NO.    19/ 0    RN/L =   6.51

        Y           Z          CN          CA         CLM         CY         CYN        CBL        DLTALF      DLTBTA       X
    102.400      -1.290     -.05231      .18942      .01309     -.02671     .00432    -.00762    -4.92130     -.04222    -.22035
    101.000      98.093     -.06300      .19032      .02461     -.02358     .00286    -.00199    -4.93850     -.05923    -.25730
    100.000     200.080     -.05338      .19071      .02108     -.02018     .00449    -.00147    -5.00190     -.00648    -.16873
    100.030     401.130     -.06335      .18591      .02513     -.00215     .00354     .00158    -5.03230     -.00673     .00433

                        RUN NO.    18/ 0    RN/L =   6.50

        Y           Z          CN          CA         CLM         CY         CYN        CBL        DLTALF      DLTBTA       X
    200.710       -.226     -.05782      .19067      .01869     -.01347     .01008    -.00370    -4.99030     -.01095    -.29274
    200.390     100.200     -.06015      .18999      .02155     -.01097     .00769    -.00085    -4.99980     -.00122    -.12571
    199.090     200.210     -.05761      .18734      .01978     -.00848     .00683    -.00106    -5.00120      .03911    -.20051
    197.900     400.120     -.06968      .18606      .02811      .00465     .00025     .00134    -5.03410      .04489    -.10402

                        RUN NO.    17/ 0    RN/L =   6.48

        Y           Z          CN          CA         CLM         CY         CYN        CBL        DLTALF      DLTBTA       X
    399.200       -.617     -.07217      .18719      .02953      .00761    -.00127     .00063    -4.98640      .06291    -.26732
    400.220      99.351     -.07142      .18726      .02634      .00772    -.00140     .00029    -4.96730      .02121    -.27728
    401.510     200.030     -.07215      .18699      .02928      .00865    -.00208     .00042    -4.99490     -.06150    -.12695
    400.410     400.010     -.07400      .18698      .03075      .00918    -.00262     .00113    -4.99090     -.00621    -.15009
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
DATE 20 MAY 75                                   IA87 TABULATED SOURCE DATA                                          PAGE    6

                                          AEDC/VA528(IA87)-O1ET131-ORB/ET W R/M SRB SEPAR.             (RTU006)    ( 03 OCT 74  )

               REFERENCE DATA                                                                             PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                       MACH    =     4.520   PTOTL  =   100.900
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                                       ALPHA   =     -.400   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                       CALPHA  =    -5.000   CBETA  =      .000
SCALE =       .0100                                                                          X       =   300.000

                             RUN NO.   21/ 0    RN/L =   6.51

        Y           Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
     10.032       -.064     -.05392      .18021      .01428     -.01735      .00543     -.00385    -4.99440     -.00443  299.93000
     12.034     100.830     -.06021      .18954      .02113     -.01473      .00443     -.00168    -5.02020     -.03715  300.11000
     10.472     200.090     -.05607      .18832      .02102     -.01092      .00413     -.00135    -4.99550     -.01502  300.04000
     10.441     400.660     -.05788      .18581      .02326     -.00370      .00350      .00155    -5.04230     -.02869  300.09000

                             RUN NO.   22/ 0    RN/L =   6.90

        Y           Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
    101.070       -.150     -.05280      .19015      .01528     -.01339      .00729     -.00380    -4.98940     -.02058  299.98000
     99.420      99.541     -.06003      .18996      .02222     -.01035      .00518     -.00072    -4.99620      .02480  299.84000
    101.490     199.750     -.09034      .18802      .01903     -.00865      .00486     -.00243    -4.98090     -.05875  299.85000
    100.640     399.660     -.06380      .18569      .02476     -.00063      .00323      .00153    -4.98410     -.00842  299.85000

                             RUN NO.   23/ 0    RN/L =   6.51

        Y           Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
    201.070      -1.233     -.06199      .18903      .02235     -.01340      .01047     -.00139    -4.96350     -.05765  299.81000
    200.500      99.060     -.05663      .18926      .01931     -.01099      .00822     -.00104    -5.00990     -.00377  299.90000
    200.000     199.000     -.05412      .18656      .01683     -.00847      .00750     -.00185    -4.99000     -.00432  299.85000
    200.440     399.930     -.07360      .18631      .03052      .00867     -.00238      .00112    -4.99140     -.00727  299.95000

                             RUN NO.   24/ 0    RN/L =   6.90

        Y           Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
    400.340       -.067     -.07195      .18750      .02932      .00820     -.00166      .00046    -4.99070     -.01510  299.84000
    400.290     100.100     -.07194      .18699      .02925      .00845     -.00202      .00043    -4.99570      .00465  299.83000
    400.020     200.120     -.07395      .18683      .03071      .00904     -.00260      .00112    -5.00890     -.01861  299.99000
    399.020     400.220     -.07403      .18696      .03076      .00918     -.00265      .00114    -5.01860     -.01176  299.37000
```

AEDC/VA520(IA87)-OIET181-ORB/ET W R/H SRB SEPAR. (RTU007) (03 OCT 74)

REFERENCE DATA

```
SREF  =  2000.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT
SCALE =      .0100
```

PARAMETRIC DATA

```
MACH   =    4.520   PTOTL  =  100.900
ALPHA  =    -.400   BETA   =     .000
DALPHA =     .000   DBETA  =   -4.000
X      =     .000
```

RUN NO. 27/ 0 RN/L = 6.90

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
98.965	-100.010	-.05447	.19007	.01223	-.04037	.00650	-.00523	.00761	-3.98610	-.19677
99.502	-.071	-.06068	.18853	.02564	-.03679	.00473	-.00231	.01036	-3.98840	-.27179
99.432	99.934	-.06242	.18938	.02668	-.02830	.00302	-.00040	.00991	-3.98090	-.25414
99.714	199.890	-.05927	.19000	.02075	-.01883	.00343	-.00086	.01363	-3.99240	-.25494
100.510	400.590	-.06419	.18502	.02536	.00119	.00174	.00149	.00594	-4.03210	-.08868

RUN NO. 26/ 0 RN/L = 6.90

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
199.880	-100.180	-.05540	.19032	.01647	-.02147	.01257	-.00420	.01489	-4.00120	-.09338
200.880	-.138	-.06165	.19054	.02274	-.01987	.00988	-.00032	.01293	-4.00620	-.08663
199.080	101.220	-.05637	.18946	.02003	-.01557	.00794	-.00052	-.04566	-3.99030	-.11714
199.700	199.780	-.05628	.18716	.01970	-.01064	.00726	-.00042	.01377	-3.99770	-.01876
199.730	399.760	-.06964	.18622	.02606	.00522	-.00009	.00132	.01447	-4.00070	-.08360

RUN NO. 25/ 0 RN/L = 6.50

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.190	-99.850	-.07190	.18781	.02862	.00617	-.00007	.00016	-.01175	-3.97910	-.23140
400.096	-.959	-.07075	.18718	.02831	.00614	-.00017	.00031	.06175	-3.96820	-.17363
400.390	99.236	-.07076	.18696	.02837	.00700	-.00082	.0003[illegible]	.04737	-3.98480	-.13518
402.200	199.670	-.07248	.18571	.02954	.00840	-.00206	.00060	.02245	-4.00090	-.05167
399.830	400.150	-.07365	.18677	.03069	.00912	-.00252	.00113	.00190	-3.99390	-.12733

```
                         AEDC/VA526(IA87)-OIET151-ORB/ET W R/H SRB SEPAR.          (RTU008)   ( 03 OCT 74  )

          REFERENCE DATA                                                                PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                  MACH    =     4.320   PTOTL  =   100.900
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                  ALPHA   =     -.400   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   490.0000 IN. ZT                  DALPHA  =      .000   CBETA  =    -4.000
SCALE =       .0100                                                     X       =   300.000

                      RUN NO.   28/ 0    RN/L =   6.40

      Y         Z         CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   100.900  -100.540   -.05658    .18935    .01779   -.02302    .01108   -.00276    .02889   -4.03980  300.00000
    99.782      .235   -.06056    .18920    .02143   -.02135    .00972   -.00089    .01586   -4.00370  299.89000
    97.334    99.646   -.05786    .19005    .02168   -.01491    .00694   -.00032    .02016   -3.94320  299.79000
   100.320   200.240   -.05144    .18713    .01714   -.00893    .00419   -.00140    .00193   -4.02980  299.90000
   101.560   402.030   -.06487    .18576    .02518    .00189    .00186    .00146   -.08765   -4.05450  300.16000

                      RUN NO.   29/ 0    RN/L =   6.47

      Y         Z         CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   201.230  -101.520   -.05868    .19001    .01954   -.01987    .01373   -.00299    .08470   -4.04720  299.98000
   200.400     -.576   -.06154    .18938    .02266   -.01619    .01047   -.00026    .01616   -4.00960  299.93000
   199.820    98.557   -.05403    .18919    .01799   -.01356    .00886   -.00100    .08409   -4.01400  299.89000
   199.230   199.800   -.05486    .18395    .01754   -.00922    .00736   -.00115    .01434   -3.97690  299.73000
   197.800   397.480   -.06383    .18551    .03060    .00871   -.00245    .00112    .09466   -3.91870  299.76000

                      RUN NO.   30/ 0    RN/L =   6.47

      Y         Z         CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   400.730  -100.180   -.07121    .18770    .02874    .00769   -.00116    .00017    .01150   -4.01530  299.96000
   399.720      .013   -.07129    .18743    .02882    .00810   -.00163    .00026    .01322   -3.98790  299.94000
   400.200    99.809   -.07217    .18711    .02945    .00845   -.00212    .00050    .02039   -4.00330  299.90000
   400.390   200.530   -.07386    .18668    .03072    .00919   -.00267    .00114   -.02481   -4.00070  299.96000
   399.740   400.350   -.07389    .18685    .03072    .00898   -.00257    .00111   -.02035   -3.97520  299.92000
```

```
                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.          (RTU009)    ( 03 OCT 74  )

               REFERENCE DATA                                                                 PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                           MACH   =     4.520   PTOTL  =   100.500
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                           ALPHA  =     -.400   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                           DALPHA =     5.000   DBETA  =    -4.000
SCALE =       .0100                                                             X      =   300.000

                          RUN NO.    33/ 0    RN/L =    6.51

       Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
     99.420   -100.000    -.06395     .18933     .02334    -.02305     .01010    -.00057    5.00510   -3.98320  299.77000
    101.460      -.515    -.06591     .189[illegible]3     .02623    -.01667     .00696     .00117    5.00330   -4.08130  299.99000
     98.697    100.280    -.05536     .18956     .02011    -.00902     .00388    -.00092    4.99400   -3.97210  299.78000
     99.910    199.830    -.05859     .18680     .02211    -.00530     .00248     .00006    5.00760   -4.00950  299.82000
    102.210    401.620    -.06769     .18604     .02672     .00469     .00028     .00134    4.94900   -4.07340  299.76000

                          RUN NO.    32/ 0    RN/L =    6.51

       Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
    198.780   -100.140    -.06441     .18930     .02418    -.01916     .01244    -.00046    5.00550   -3.96530  299.73000
    198.160      1.235    -.06162     .18902     .02302    -.01490     .00926     .00037    4.96070   -3.95250  299.75000
    198.740    101.070    -.05283     .18865     .01698    -.01232     .00844    -.00137    4.95940   -3.95060  299.69000
    199.590    200.130    -.06215     .18568     .02303    -.00544     .00536     .00064    4.97380   -3.99760  299.76000
    199.730    399.570    -.07425     .18687     .03085     .00914    -.00264     .00112    5.01080   -4.00190  300.02000

                          RUN NO.    31/ 0    RN/L =    6.47

       Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
    399.860   -100.780    -.07166     .18739     .02900     .00788    -.00153     .00032    5.03860   -3.97770  299.89000
    400.660      -.763    -.07151     .18728     .02895     .00820    -.00178     .00030    5.04510   -3.99940  299.89000
    400.650     99.131    -.07325     .18690     .03013     .00873    -.00242     .00082    5.04890   -4.00950  299.95000
    400.000    199.700    -.07391     .18588     .03071     .00892    -.00254     .00109    5.01460   -4.00120  299.64000
    400.650    399.880    -.07408     .18701     .03078     .00896    -.00259     .00111    5.00730   -4.01080    9.90000
```

```
                         AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.           (RTU010)   ( 03 OCT 74  )

          REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                  MACH   =     4.520   PTOTL  =   100.500
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                  ALPHA  =     -.400   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                  DALPHA =     5.000   DBETA  =    -4.000
SCALE =       .0100                                                    X      =      .000

                         RUN NO.   34/ 0    RN/L =   6.51

     Y          Z          CN          CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   99.016    -99.965    -.07164     .18813     .02529    -.03857     .00367    -.00187    4.99430   -3.96990    -.47132
  100.330      -.538    -.07047     .18752     .02919    -.02718    -.00084    -.00046    5.01650   -4.01010     .01035
   99.858     99.609    -.06352     .18888     .02853    -.01787    -.00141     .00011    5.01290   -4.00720    -.11654
  100.460    199.450    -.05251     .18997     .02198    -.01153     .00088    -.00076    5.01600   -4.01300    -.07860
  100.390    399.540    -.06729     .18614     .02715     .00436    -.00006     .00135    5.01340   -4.01730    -.14856

                         RUN NO.   35/ 0    RN/L =   6.51

     Y          Z          CN          CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  199.660   -101.790    -.06512     .18950     .02433    -.02055     .01031    -.00047    5.08950   -3.97390    -.07541
  200.790     -1.280    -.06066     .19006     .02246    -.01819     .00862     .00019    5.04450   -4.04670    -.04586
  201.890     98.812    -.05735     .18890     .02077    -.01210     .00639    -.00010    5.05400   -4.07300     .06633
  199.330    199.820    -.05968     .18670     .02166    -.00602     .00505    -.00013    5.00860   -3.98920    -.15273
  198.370    399.020    -.07071     .18618     .02852     .00630    -.00078     .00128    5.03030   -3.94610    -.13852

                         RUN NO.   36/ 0    RN/L =   6.50

     Y          Z          CN          CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  400.690   -100.180    -.07151     .18731     .02896     .00659    -.00055     .00048    5.00530   -4.01590    -.11348
  400.980       .246    -.07114     .18687     .02873     .00653    -.00053     .00059    4.98450   -4.04890    -.22713
  400.040    100.390    -.07102     .18685     .02854     .00742    -.00112     .00038    4.97730   -4.01330    -.19862
  399.890    200.090    -.07366     .18687     .03039     .00877    -.00244     .00093    4.99080   -3.98090    -.18264
  400.560    399.715    -.07420     .18702     .03080     .00907    -.00262     .00113    5.01010   -4.01210    -.06249
```

```
                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR.          (RTU011)   ( 03 OCT 74  )

             REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH    =     4.520   PTOTL  =   100.500
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                          ALPHA   =     -.400   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA  =    -5.000   DBETA  =    -4.000
SCALE =      .0100                                                             X       =      .000

                         RUN NO.   39/ 0   RN/L =   6.51

     Y         Z         CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   99.593      .142    -.03032     .19087    -.00438    -.04371     .00976    -.00987   -4.97230   -3.99070   -.18436
   99.419    99.970    -.05758     .19011     .02079    -.04084     .00874    -.00298   -4.99210   -3.98330   -.16789
   99.045   200.120    -.04865     .19109     .01977    -.03308     .00890    -.00148   -5.00280   -3.98300   -.28409
  101.510   401.730    -.05852     .18575     .02285    -.00638     .00526     .00166   -5.06090   -4.07160   -.02445

                         RUN NO.   38/ 0   RN/L =   6.49

     Y         Z         CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  199.870     -.159    -.03307     .19184     .00048    -.02684     .01542    -.00855   -4.98950   -3.99880   -.26377
  198.870    99.765    -.05361     .19098     .01788    -.02124     .01100    -.00138   -5.02420   -3.99570   -.20580
  198.300   200.330    -.04785     .18858     .01393    -.01675     .00990    -.00208   -4.99700   -3.97520   -.17426
  199.420   399.670    -.06742     .18575     .02660     .00176     .00203     .00147   -4.98450   -3.99730   -.05676

                         RUN NO.   37/ 0   RN/L =   6.49

     Y         Z         CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  401.070      .239    -.06879     .18815     .02692     .00480     .00108    -.00046   -5.01990   -4.02820   -.07267
  400.250    98.871    -.06933     .18725     .02724     .00577     .00010    -.00013   -4.92530   -3.96610   -.24235
  400.870   199.480    -.07117     .18678     .02852     .00753    -.00133     .00026   -4.96190   -4.00650   -.19565
  400.015   400.070    -.07375     .18669     .03069     .00918    -.00263     .00113   -4.99660   -3.99730   -.15224

                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR.          (RTU012)   ( 03 OCT 74  )

             REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH    =     4.520   PTOTL  =   100.500
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                          ALPHA   =     -.400   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA  =    -5.000   DBETA  =    -4.000
SCALE =      .0100                                                             X       =   300.000

                         RUN NO.   40/ 0   RN/L =   6.48

     Y         Z         CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   99.430     -.107    -.04558     .19044     .01021    -.02447     .01210    -.00399   -4.98790   -3.97090  299.76000
   97.108    99.161    -.05344     .19008     .01745    -.02279     .01080    -.00150   -4.98550   -3.93590  299.65000
  100.470   200.440    -.04503     .18764     .01328    -.01808     .00909    -.00255   -5.01070   -4.06170  299.94000
  100.010   399.630    -.06054     .18549     .02308    -.00341     .00462     .00164   -4.98150   -4.00060  299.88000
```

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR. (RTU012) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 100.500
ALPHA = -.400 BETA = .000
DALPHA = -5.000 DBETA = -4.000
X = 300.000

RUN NO. 41/ 0 RN/L = 6.49

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.490	-1.180	-.05121	.19064	.01459	-.02018	.01320	-.00349	-4.94000	-4.01950	299.81000
199.510	99.622	-.05249	.18961	.01676	-.01613	.01017	-.00140	-4.99780	-3.97130	299.87000
199.390	199.880	-.04844	.18701	.01341	-.01458	.01016	-.00238	-4.98980	-3.98110	299.83000
199.950	399.940	-.07231	.18592	.02955	.00766	-.00155	.00120	-4.99050	-4.00440	300.02000

RUN NO. 42/ 0 RN/L = 6.49

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.350	-.086	-.06959	.18751	.02755	.00738	-.00102	-.00032	-4.98680	-4.01260	299.91000
400.020	100.120	-.07154	.18714	.02881	.00842	-.00195	.00025	-5.00230	-3.99110	299.89000
399.340	199.460	-.07392	.18685	.03068	.00893	-.00262	.00112	-4.96560	-3.96800	299.71000
399.200	400.360	-.07392	.18684	.03071	.00909	-.00264	.00113	-5.02100	-3.97440	299.96000

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR. (RTU013) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 100.500
ALPHA = -.400 BETA = .000
DALPHA = .000 DBETA = -8.000
X = .000

RUN NO. 44/ 0 RN/L = 6.51

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.660	-100.030	-.04010	.19028	.00492	-.04464	.02358	-.00672	.00996	-8.00860	-.30851
200.610	-.198	-.05217	.19028	.01558	-.04698	.02245	-.00217	.01369	-8.00270	-.31868
199.020	101.480	-.04868	.19056	.01604	-.03436	.01585	-.00641	-.06522	-7.98240	-.24570
200.370	199.800	-.04470	.18737	.01309	-.01865	.00938	-.00172	.01200	-8.00170	-.17443
200.880	399.780	-.06725	.18581	.02654	.00283	.00125	.00140	.01264	-8.01210	-.09657

RUN NO. 43/ 0 RN/L = 6.51

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
399.260	-99.722	-.06457	.18815	.02378	.00060	.00405	-.00183	-.00853	-7.95310	-.26551
400.290	-1.032	-.06571	.18688	.02467	.00279	.00224	-.00084	.07552	-7.98760	-.27331
400.290	99.504	-.06895	.18654	.02697	.00438	.00090	.00010	.03514	-8.01420	-.19894
401.030	199.330	-.07117	.18648	.02847	.00707	-.00103	.00046	.04506	-8.05050	.01645
399.690	400.270	-.07400	.18669	.03071	.00914	-.00267	.00114	.00360	-7.98800	-.31357

```
                                 AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.          (RTU014)   ( 03 OCT 74  )

             REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                              MACH   =      4.520   PTOTL   =    100.500
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                             ALPHA  =      -.400   BETA    =       .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                              DALPHA =       .000   DBETA   =     -8.000
SCALE =       .0100                                                                X      =    300.000

                        RUN NO.    45/ 0    RN/L =   6.51

     Y         Z          CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  203.450  -101.090    -.05079    .18921    .01374    -.03104     .01951    -.00409     .07306   -8.07360  300.14000
  201.280     -.952    -.05555    .18914    .01855    -.02758     .01624    -.00077     .04768   -8.00610  299.99000
  200.760    98.459    -.04929    .18842    .01510    -.02070     .01188    -.00122     .08299   -8.02380  299.94000
  200.940   199.800    -.04772    .18614    .01323    -.01537     .01013    -.00186     .01665   -7.99280  299.76000
  200.630   399.940    -.07252    .18583    .02974     .00799    -.00185     .00116     .00498   -8.04670  299.95000

                        RUN NO.    46/ 0    RN/L =   6.49

     Y         Z          CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  399.420  -100.210    -.06776    .18806    .02617     .00644    -.00021    -.00085     .01289   -8.00140  300.05000
  398.630     -.212    -.06816    .18714    .02637     .00741    -.00106    -.00071     .03002   -7.96630  299.85000
  399.280    99.919    -.07133    .18670    .02871     .00820    -.00194     .00020     .00638   -8.00860  299.88000
  398.910   200.670    -.07377    .18662    .03066     .00880    -.00257     .00110    -.03586   -7.98370  299.82000
  397.770   400.110    -.07382    .18675    .03068     .00884    -.00257     .00110    -.00431   -7.91810  299.65000

                                 AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.          (RTU015)   ( 03 OCT 74  )

             REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                              MACH   =      4.520   PTOTL   =    100.500
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                             ALPHA  =      -.400   BETA    =       .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                              DALPHA =      5.000   DBETA   =     -8.000
SCALE =       .0100                                                                X      =    300.000

                        RUN NO.    48/ 0    RN/L =   6.47

     Y         Z          CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  199.780  -100.120    -.05917    .18900    .02013    -.03014     .01782    -.00140    5.00820   -7.97710  299.57000
  198.200     1.327    -.05614    .18919    .01969    -.02466     .01362     .00015    4.94140   -7.93360  299.41000
  199.160   101.070    -.04850    .18872    .01480    -.01782     .01037    -.00142    4.95630   -7.94070  299.79000
  199.820   200.190    -.05408    .18548    .01770    -.01101     .00784    -.00038    4.98690   -7.96870  299.78000
  200.400   399.640    -.07377    .18641    .03056     .00897    -.00255     .00116    5.01150   -8.00450  299.96000
```

```
                                AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.          (RTU015)   ( 03 OCT 74  )

          REFERENCE DATA                                                                   PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                     MACH   =     4.520   PTOTL  =   100.500
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YT                    ALPHA  =     -.400   BETA   =      .000
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                     DALPHA =     5.000   DBETA  =    -8.000
SCALE =       .0100                                                        X      =   300.000

                       RUN NO.   47/ 0    RN/L =   6.48

     Y          Z         CN         CA        CLM        CY        CYN       CBL      DLTALF    DLTBTA     X
   398.970   -100.750   -.06908    .18754    .02700    .00746   -.00103   -.00041   5.04020   -7.94460  299.75000
   400.570      -.817   -.07079    .18707    .02622    .00789   -.00159    .00002   5.04510   -8.02270  299.98000
   399.080     99.443   -.07234    .18661    .02945    .00855   -.00223    .00053   5.02890   -7.99930  299.88000
   401.410    198.880   -.07393    .18666    .03069    .00890   -.00260    .00111   5.05350   -8.08020  300.33000
   399.390    399.820   -.07395    .18689    .03071    .00914   -.00266    .00115   5.00710   -7.99110  299.82000

                                AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.          (RTU016)   ( 03 OCT 74  )

          REFERENCE DATA                                                                   PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                     MACH   =     4.520   PTOTL  =   100.500
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YT                    ALPHA  =     -.400   BETA   =      .000
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                     DALPHA =     5.000   DBETA  =    -8.000
SCALE =       .0100                                                        X      =      .000

                       RUN NO.   49/ 0    RN/L =   6.46

     Y          Z         CN         CA        CLM        CY        CYN       CBL      DLTALF    DLTBTA     X
   201.710   -100.170   -.05751    .18975    .01848   -.04659    .02274   -.00189   5.01110   -8.02200   -.17754
   200.500      -.255   -.05675    .19000    .02035   -.03511    .01498   -.00002   5.00900   -7.99940   -.21377
   200.950     99.766   -.05080    .18989    .01766   -.02091    .00865   -.00054   5.01150   -8.00710   -.33735
   200.220    199.790   -.05207    .18698    .01766   -.01294    .00753   -.00048   5.00750   -7.99990   -.25625
   199.260    399.540   -.06941    .18626    .02777    .00507   -.00010    .00132   5.00600   -7.92510   -.35599

                       RUN NO.   50/ 0    RN/L =   6.49

     Y          Z         CN         CA        CLM        CY        CYN       CBL      DLTALF    DLTBTA     X
   400.190   -100.300   -.06780    .18673    .02626    .00271    .00238   -.00041   5.00420   -8.01240    .01188
   400.200       .335   -.06873    .18661    .02696    .00343    .00152    .00018   4.97460   -8.01570   -.25159
   399.240    100.180   -.06940    .18644    .02735    .00488    .00053    .00027   4.98800   -7.99250   -.22215
   398.940    200.380   -.07186    .18619    .02913    .00743   -.00139    .00073   4.97280   -7.98670   -.31388
   399.720    399.690   -.07389    .18676    .03060    .00897   -.00263    .00113   5.01160   -8.00020   -.04477
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU017) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 100.500
ALPHA = -.400 BETA = .000
DALPHA = -5.000 DBETA = -8.000
X = .000

RUN NO. 52/ 0 RN/L = 6.48

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
201.380	.462	-.00186	.19197	-.02244	-.05261	.02787	-.01161	-4.98730	-8.02910	-.39794
201.610	99.821	-.04136	.19054	.00881	-.04916	.02433	-.00320	-4.99170	-8.01510	-.30535
197.620	201.040	-.03759	.18887	.00899	-.03602	.01870	-.00233	-5.04940	-7.94470	-.32457
200.600	399.660	-.06099	.18489	.02282	-.00487	.00585	.00170	-4.98540	-8.00470	-.03676

RUN NO. 51/ 0 RN/L = 6.49

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.350	.527	-.05362	.18803	.01504	-.00022	.00467	-.00488	-5.00450	-7.99970	-.10482
400.150	99.041	-.06304	.18693	.02235	.00272	.00244	-.00177	-4.92890	-7.97520	-.30318
401.070	199.430	-.06923	.18593	.02709	.00565	-.00006	.00002	-4.95620	-8.03620	.06548
398.900	399.990	-.07401	.18631	.03062	.00912	-.00270	.00115	-4.99750	-7.97730	-.29148

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU018) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 100.500
ALPHA = -.400 BETA = .000
DALPHA = -5.000 DBETA = -8.000
X = 300.000

RUN NO. 53/ 0 RN/L = 6.48

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
203.170	-.362	-.03749	.18964	.00450	-.03236	.01964	-.00537	-4.95400	-8.03810	300.05000
200.630	99.281	-.04715	.18817	.01329	-.02649	.01544	-.00187	-4.96610	-7.97050	299.73000
199.650	199.940	-.04121	.18639	.00892	-.02138	.01329	-.00305	-4.99520	-7.97500	299.75000
200.430	399.770	-.06917	.18526	.02732	.00466	.00041	.00133	-4.98550	-7.99850	299.75000

RUN NO. 54/ 0 RN/L = 6.47

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
399.700	-.074	-.06500	.18766	.02388	.00630	-.00002	-.00176	-4.99000	-8.00280	299.90000
398.290	99.782	-.06893	.18649	.02671	.00766	-.00142	-.00063	-4.98770	-7.95340	299.68000
398.880	199.450	-.07381	.18636	.03048	.00895	-.00264	.00109	-4.97020	-7.98050	299.65000
397.730	400.310	-.07365	.18643	.03052	.00907	-.00266	.00114	-5.02050	-7.94110	299.67000

ORIGINAL PAGE IS
OF POOR QUALITY

```
                         AEDC/VA528(IA87)-O1ET151-ORB/ET W L/H SRB SEPAR.            (RTU019)   ( 03 OCT 74  )

        REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH    =     4.520   PTOTL  =   100.500
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                         ALPHA   =     -.400   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA  =      .000   DBETA  =      .000
SCALE =       .0100                                                            X       =      .000

                          RUN NO.   56/ 0    RN/L =    6.49

     Y          Z         CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA      X
 -397.810   -100.630   -.07473    .18573    .03028    .00907    -.00292    .00114     .03402    -.08761    -.18686
 -398.420      -.418   -.07389    .18570    .02967    .00905    -.00294    .00137     .01973    -.02490    -.14841
 -400.060     99.664   -.07332    .18552    .02921    .00890    -.00290    .00160     .01739     .01612    -.23579
 -400.040    200.160   -.07477    .18559    .03017    .00852    -.00243    .00123    -.01040     .05783    -.22997
 -399.730    400.010   -.07551    .18549    .03082    .00806    -.00216    .00089     .00557     .00538    -.25852

                          RUN NO.   57/ 0    RN/L =    6.49

     Y          Z         CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA      X
 -198.990   -100.180   -.07049    .18726    .02675    .02635    -.01266    .00370     .01459    -.01720    -.27011
 -200.020      -.107   -.06926    .18717    .02661    .02635    -.01242    .00224     .03028     .00442    -.21134
 -198.830    100.840   -.06625    .18625    .02488    .02359    -.01024    .00201    -.02817    -.00345    -.23931
 -199.060    200.750   -.06530    .18577    .02399    .01915    -.00829    .00226    -.03142    -.01717    -.22659
 -197.310    400.350   -.07268    .18484    .02900    .01078    -.00391    .00078    -.02719    -.06139    -.21305

                          RUN NO.   58/ 0    RN/L =    6.49

     Y          Z         CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA      X
  -98.860   -101.220   -.06600    .18733    .02066    .04099    -.01035    .00633     .05884    -.05802    -.17963
  -99.891      -.096   -.07331    .18727    .02751    .03983    -.00779    .00396     .01213    -.00206    -.17193
  -99.455     99.911   -.06910    .18820    .02609    .03622    -.00761    .00256     .01246    -.00848    -.15086
 -100.550    200.040   -.05892    .18862    .02277    .03115    -.00890    .00309     .00471     .01150    -.23617
  -99.965    400.780   -.06979    .18513    .02773    .01376    -.00529    .00070    -.02485     .02456    -.20472

                          RUN NO.   59/ 0    RN/L =    6.50

     Y          Z         CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA      X
   -8.949    -99.551   -.06789    .18606    .02039    .03703    -.00020    .00475    -.00071     .03596    -.08414
   -9.906      -.306   -.07002    .18581    .02897    .03164    -.00105    .00362     .01795     .04066    -.13017
   -7.458    100.600   -.07453    .18694    .03206    .02896    -.00133    .00206    -.03639    -.06636    -.09923
   -8.972    199.530   -.06496    .18756    .02932    .02960    -.00345    .00285     .02577    -.02387    -.19826
  -10.966    399.750   -.06511    .18515    .02616    .01705    -.00634    .00063     .01812     .01408    -.10350
```

```
DATE 20 MAY 75                          IA87 TABULATED SOURCE DATA                                   PAGE   17

                                 AEDC/VA528(IA87)-OIET181-ORB/ET W L/H SRB SEPAR.          (RTU020)   ( 03 OCT 74  )

              REFERENCE DATA                                                                 PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =     4.520   PTOTL  =   100.500
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                         ALPHA  =     -.400   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA =      .000   DBETA  =      .000
SCALE =       .0100                                                            X      =   300.000

                         RUN NO.   63/ 0    RN/L =   6.50

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
  -399.150   -100.160    -.07453      .18618      .03023      .00897     -.00292      .00122      .01007      .00252  299.91000
  -399.500      -.103    -.07379      .18627      .02959      .00905     -.00296      .00151      .01646     -.00068  299.84000
  -400.420    100.510    -.07452      .18570      .03009      .00861     -.00249      .00127     -.01992      .05164  299.80000
  -399.490    200.370    -.07560      .18563      .03084      .00850     -.00229      .00094     -.01815      .01209  299.80000
  -397.670    399.760    -.07550      .18569      .03081      .00842     -.00222      .00092      .01670     -.08127  299.89000

                         RUN NO.   62/ 0    RN/L =   6.49

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
  -200.110   -101.530    -.06980      .18723      .02667      .03094     -.01685      .00348      .06271      .03640  299.89000
  -200.450      -.535    -.06727      .18734      .02534      .02887     -.01425      .00210      .00542      .02356  299.95000
  -199.910     98.570    -.06015      .18679      .02051      .02653     -.01275      .00316      .09044     -.00466  299.88000
  -200.000    199.860    -.06518      .18464      .02357      .02027     -.00937      .00209      .01590      .00129  299.92000
  -198.080    397.860    -.07550      .18523      .03079      .00838     -.00226      .00093      .08183     -.05075  299.96000

                         RUN NO.   61/ 0    RN/L =   6.49

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
   -99.305   -100.850    -.06372      .18777      .02172      .03048     -.01198      .00458      .04308     -.03671  299.75000
   -99.381      -.150    -.06777      .18793      .02578      .02754     -.01013      .00205      .01043      .00195  299.83000
   -98.568     99.177    -.06251      .18818      .02305      .02507     -.00869      .00273      .05184     -.03083  299.83000
  -100.150    200.770    -.05724      .18581      .01902      .02484     -.00923      .00363     -.02712      .02677  299.81000
   -99.474    401.870    -.06987      .18456      .02719      .01331     -.00540      .00075     -.09655      .00916  299.78000

                         RUN NO.   60/ 0    RN/L =   6.49

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
   -12.051   -100.650    -.06703      .18765      .02327      .03222     - 00999      .00384      .03961      .08092  299.88000
   -11.283       .320    -.07067      .18715      .02624      .03031     -.00857      .00278      .00151      .06226  299.74000
   -10.606    100.310    -.06807      .18779      .02686      .02696     -.00793      .00218     -.00637      .05775  299.86000
    -9.257    199.990    -.06216      .18565      .02352      .02161     -.00623      .00263      .01106     -.00187  299.78000
   -10.472    401.070    -.06371      .10511      .02485      .01816     -.00729      .00062     -.02936      .03798  299.92000
```

```
DATE 20 MAY 75                              IA87 TABULATED SOURCE DATA                                   PAGE   18

                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.            (RTU021)   ( 03 OCT 74  )

              REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                        MACH   =     4.520  PTOTL  =   100.500
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YT                        ALPHA  =     -.400  BETA   =      .000
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                        DALPHA =     5.000  DBETA  =      .000
SCALE =       .0100                                                           X      =   300.000

                         RUN NO.    64/ 0    RN/L =   6.49

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   -398.490   -101.050    -.07443     .18625     .03004     .00916    -.00295     .00134    5.05210    -.04860  299.89000
   -398.900      -.982    -.07389     .18587     .02980     .00903    -.00263     .00151    5.04720    -.01690  299.84000
   -399.640     99.350    -.07536     .18560     .03067     .00847    -.0023[illegible]     .00100    5.02880     .02579  299.86000
   -399.300    199.520    -.07555     .18566     .03082     .00809    -.00215     .00088    5.01350    -.00642  299.77000
   -399.230    399.850    -.07536     .18553     .03078     .00837    -.00221     .00091    5.00670    -.00128  299.90000

                         RUN NO.    65/ 0    RN/L =   6.48

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   -199.270   -100.210    -.07097     .18724     .02767     .03060    -.01590     .00228    5.00650    -.01158  299.78000
   -198.740      1.001    -.06644     .18685     .02506     .02730    -.01291     .00157    4.97420    -.00885  299.72000
   -198.510    101.200    -.05936     .18631     .01986     .02468    -.01172     .00333    4.95400    -.02090  299.74000
   -197.6[illegible]0    200.810    -.07077     .18494     .02794     .01744    -.00778     .00062    4.93660    -.02292  299.66000
   -201.[illegible]30    399.550    -.07551     .18552     .03580     .00837    -.00223     .00092    5.01050     .02253  299.81000

                         RUN NO.    66/ 0    RN/L =   6.49

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
    -99.230   -100.090    -.06972     .18734     .02634     .03016    -.01093     .00231    5.00830    -.01326  299.90000
   -100.530      -.826    -.06982     .18783     .02776     .02599    -.00880     .00113    5.02770     .05008  299.83000
    -98.629    100.050    -.06083     .18730     .02194     .02354    -.00816     .00305    5.00670    -.03541  299.89000
    -99.985    199.910    -.06356     .18535     .02374     .02152    -.00768     .00190    5.00660     .01123  299.85000
   -100.990    400.990    -.07252     .18493     .02875     .01081    -.00384     .00084    4.96170     .05718  299.84000

                         RUN NO.    67/ 0    RN/L =   6.48

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
     -9.057    -98.499    -.07489     .18746     .02858     .03229    -.00829     .00178    4.92940     .01969  299.85000
     -7.238       .437    -.07455     .18673     .02965     .02583    -.00560     .00141    4.97380    -.08792  299.87000
     -9.402     99.741    -.06586     .18766     .02805     .02036    -.00500     .00231    5.01320    -.00023  299.94000
     -8.318    198.700    -.06737     .18562     .02714     .01646    -.00391     .00167    5.05170    -.05846  300.09000
     -8.101    399.570    -.06578     .18513     .02544     .01517    -.00604     .00066    5.01440    -.03280  299.90000
```

AEDC/VA528(IA87)-O1ET151-ORB/ET W L/H SRB SEPAR. (RTU022) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 100.900
ALPHA = -.400 BETA = .000
DALPHA = 5.000 DBETA = .000
X = .000

RUN NO. 71/ 0 RN/L = 6.48

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-399.040	-100.330	-.07451	.18561	.03005	.00913	-.00283	.00123	5.00900	-.00793	-.12712
-399.500	.051	-.07386	.18547	.02957	.00902	-.00288	.00141	5.00060	-.00204	-.16781
-398.730	99.996	-.07367	.18568	.02945	.00901	-.00280	.00155	5.00230	-.03033	-.18071
-398.950	199.790	-.07543	.18542	.03069	.00841	-.00224	.00097	5.01010	-.03765	-.16413
-398.100	399.090	-.07552	.18558	.03083	.00832	-.00220	.00091	5.05540	-.06870	-.07591

RUN NO. 70/ 0 RN/L = 6.48

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-198.590	-101.100	-.07209	.18695	.02830	.02712	-.01256	.00214	5.05650	-.04696	-.15358
-199.630	-1.164	-.06912	.18656	.02659	.02573	-.01149	.00176	5.05380	-.01180	-.11504
-199.870	98.521	-.06777	.18632	.02604	.02152	-.00892	.00147	5.07040	.00456	.05144
-199.500	199.820	-.06743	.18545	.02547	.01669	-.00680	.00195	5.01020	-.00619	-.03761
-198.790	398.820	-.07370	.18493	.02953	.01006	-.00331	.00087	5.04780	-.05830	-.01858

RUN NO. 69/ 0 RN/L = 6.47

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-100.770	-101.420	-.07519	.18703	.02747	.04053	-.00790	.00341	5.05700	-.03065	-.10302
-98.887	1.018	-.07514	.18729	.03019	.03695	-.00567	.00234	4.92190	-.00074	-.22066
-99.115	99.595	-.06875	.18814	.02869	.03190	-.00594	.00203	5.01220	-.00648	-.08025
-99.180	199.600	-.05892	.18783	.02264	.02659	-.00755	.00308	5.01700	-.00190	-.03424
-99.770	399.630	-.07072	.18526	.02803	.01239	-.00462	.00076	5.01120	.00764	-.11853

RUN NO. 68/ 0 RN/L = 6.48

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-8.341	-99.631	-.07854	.18590	.02883	.03480	.00229	.00243	4.98750	-.04528	-.31031
-8.942	.019	-.07892	.18581	.03329	.02692	.00133	.00165	5.00480	-.03070	-.19576
-7.376	97.848	-.07393	.18641	.03284	.02157	.00095	.00155	5.09050	-.07576	-.03334
-8.857	199.660	-.06443	.18792	.02889	.02285	-.00218	.00279	5.01200	-.03812	-.13422
-8.187	398.710	-.06882	.18517	.02779	.01317	-.00445	.00075	5.03970	-.04673	.00129

```
                        AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.             (RTU023)    ( 03 OCT 74  )

          REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH    =     4.520   PTOTL  =   100.500
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                          ALPHA   =     -.400   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA  =    -5.000   DBETA  =      .000
SCALE =       .0100                                                            X       =      .000

                    RUN NO.    72/ 0    RN/L =   6.47

      Y          Z          CN          CA          CLM         CY          CYN         CBL       DLTALF      DLTBTA       X
   -398.190      -.732    -.07416      .18594      .02978      .00971     -.00336      .00142   -4.96570    -.08382    -.27987
   -399.160     99.330    -.07287      .18559      .02892      .00939     -.00319      .00172   -4.97260    -.02300    -.17173
   -400.730    199.910    -.07367      .18558      .02937      .00900     -.00276      .00161   -4.99440     .05105    -.14163
   -399.840    399.970    -.07555      .18567      .03084      .00827     -.00219      .00090   -4.99350     .00202    -.20392

                    RUN NO.    73/ 0    RN/L =   6.48

      Y          Z          CN          CA          CLM         CY          CYN         CBL       DLTALF      DLTBTA       X
   -199.690      -.199    -.06159      .18869      .02055      .03065     -.01549      .00574   -4.98980    -.00382    -.16593
   -198.840    105.290    -.06321      .18736      .02264      .02806     -.01314      .00304   -5.00510    -.02749    -.17532
   -198.290    200.090    -.06182      .18607      .02166      .02410     -.01106      .00295   -4.99640    -.04362    -.21704
   -197.930    400.240    -.07170      .18310      .02643      .01264     -.00502      .00073   -5.04500    -.02634    -.09152

                    RUN NO.    74/ 0    RN/L =   6.49

      Y          Z          CN          CA          CLM         CY          CYN         CBL       DLTALF      DLTBTA       X
    -99.023       .009    -.05123      .18834      .01907      .04565     -.01185      .01068   -4.99130    -.01097    -.11835
   -101.930     98.430    -.06639      .18825      .02483      .04232     -.01020      .00422   -4.94990     .07913    -.21538
    -99.544    199.970    -.05666      .18893      .02104      .03767     -.01083      .00386   -4.99580    -.00046    -.19841
   -100.340    401.060    -.06607      .18486      .02585      .01917     -.00829      .00052   -5.03150     .00446    -.03970


                        AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.             (RTU024)    ( 03 OCT 74  )

          REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH    =     4.520   PTOTL  =   100.500
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                          ALPHA   =     -.400   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA  =    -5.000   DBETA  =      .000
SCALE =       .0100                                                            X       =   300.000

                    RUN NO.    78/ 0    RN/L =   6.47

      Y          Z          CN          CA          CLM         CY          CYN         CBL       DLTALF      DLTBTA       X
   -399.170     99.889    -.07369      .18547      .02944      .00907     -.00285      .00158   -4.98840     .00209  299.90000
   -399.370    200.100    -.07545      .18531      .03078      .00833     -.00222      .00091   -5.01020     .00737  299.86000
   -399.160    400.220    -.07536      .18523      .03078      .00835     -.00223      .00091   -5.01750     .00453  300.00000
```

```
                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.          (RTU024)    ( 03 OCT 74  )

              REFERENCE DATA                                                                    PARAMETRIC DATA

SREF   =  2690.0000 SQ.FT.    XMRP   =  1097.0000 IN. XT                          MACH   =     4.520   PTOTL   =   100.300
LREF   =  1290.3000 INCHES    YMRP   =       .0000 IN. YT                          ALPHA  =     -.400   BETA    =      .000
BREF   =  1290.3000 INCHES    ZMRP   =   450.0000 IN. ZT                          CALPHA =    -5.000   DBETA   =      .000
SCALE  =        .0100                                                              X      =   300.000

                         RUN NO.    77/ 0    RN/L =   6.47

       Y          Z          CN          CA         CLM         CY         CYN         CBL        DLTALF      DLTBTA      X
   -200.340    100.090    -.05901     .18678     .01981     .02902    -.01403     .00338    -5.00990      .02972  299.82000
   -200.020    199.900    -.05859     .18498     .01871     .02414    -.01167     .00370    -4.99080     -.00392  299.81000
   -199.620    399.890    -.07540     .18481     .03069     .00877    -.00240     .00093    -4.98840      .00000  299.92000

                         RUN NO.    76/ 0    RN/L =   6.47

       Y          Z          CN          CA         CLM         CY         CYN         CBL        DLTALF      DLTBTA      X
   -100.010    100.010    -.06210     .18819     .02241     .02896    -.01085     .00312    -5.00590     -.00657  299.75000
   -100.470    200.120    -.05243     .18616     .01612     .02952    -.01148     .00475    -4.97380      .05724  299.83000
   -100.270    399.600    -.06677     .18439     .02590     .01762    -.00788     .00058    -4.98410      .00472  299.87000

                         RUN NO.    75/ 0    RN/L =   6.52

       Y          Z          CN          CA         CLM         CY         CYN         CBL        DLTALF      DLTBTA      X
    -10.900    100.610    -.06305     .18777     .02145     .03392    -.01096     .00414    -5.01270      .02567  300.02000
     -9.432    200.110    -.05834     .18803     .02117     .03093    -.01065     .00373    -4.99620     -.00084  299.99000
     -8.886    399.700    -.06049     .18437     .02384     .02202    -.00886     .00050    -4.98710     -.02543  299.97000


                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.          (RTU025)    ( 03 OCT 74  )

              REFERENCE DATA                                                                    PARAMETRIC DATA

SREF   =  2690.0000 SQ.FT.    XMRP   =  1097.0000 IN. XT                          MACH   =     4.520   PTOTL   =   100.300
LREF   =  1290.3000 INCHES    YMRP   =       .0000 IN. YT                          ALPHA  =     -.400   BETA    =      .000
BREF   =  1290.3000 INCHES    ZMRP   =   450.0000 IN. ZT                          CALPHA =      .000   DBETA   =     4.000
SCALE  =        .0100                                                              X      =      .000

                         RUN NO.    79/ 0    RN/L =   6.47

       Y          Z          CN          CA         CLM         CY         CYN         CBL        DLTALF      DLTBTA      X
   -399.090    -99.898    -.07310     .18577     .02897     .01988    -.00420     .00183     -.00946     3.95660    -.27374
   -398.870      -.911    -.07277     .18527     .02884     .01972    -.00418     .00163      .05900     3.95040    -.22208
   -399.000     99.310    -.07250     .18513     .02862     .00988    -.00367     .00173      .04645     3.97720    -.21070
   -401.190    199.860    -.07410     .18494     .02963     .00886    -.00264     .00145      .01812     4.06580    -.09209
   -399.500    400.140    -.07561     .18532     .03081     .00835    -.00226     .00092      .00309     3.99370    -.15621
```

AEDC/VA520(IA87)-O1ET1S1-ORB/ET W L/M SRB SEPAR. (RTU025) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 490.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 100.500
ALPHA = -.400 BETA = .000
DALPHA = .000 DBETA = 4.000
X = .000

RUN NO. 80/ 0 RN/L = 6.47

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-100.000	-100.140	-.05778	.10873	.01718	.03881	-.01928	.00672	.01565	3.99560	-.24102
-100.000	-.360	-.06579	.10846	.02423	.03662	-.01652	.00277	.02552	4.05840	-.11428
-100.300	101.130	-.06030	.10768	.02108	.03307	-.01402	.00276	-.03899	4.01770	-.14717
-100.000	199.760	-.06077	.1054	.02154	.02651	-.01188	.00231	.01834	3.98260	-.09967
-106.670	399.790	-.07172	.10467	.02836	.01214	-.00470	.00076	.01430	3.98810	-.09290

RUN NO. 81/ 0 RN/L = 6.47

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-99.721	-100.000	-.05708	.10759	.01260	.05909	-.01557	.00758	.01610	3.99010	-.01598
-98.803	.077	-.06990	.10609	.02432	.05500	-.01190	.00479	.00945	3.98480	-.15208
-97.945	99.997	-.06612	.10729	.02677	.04767	-.01034	.00272	.01045	3.96950	-.08991
-98.499	199.800	-.05453	.10852	.02131	.03816	-.01027	.00328	.00758	3.98600	-.11543
-99.755	400.700	-.06655	.10438	.02588	.01643	-.00669	.00080	-.00844	4.02320	-.03859

AEDC/VA520(IA87)-O1ET1S1-ORB/ET W L/M SRB SEPAR. (RTU026) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 490.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 100.500
ALPHA = -.400 BETA = .000
DALPHA = .000 DBETA = 4.000
X = 300.000

RUN NO. 84/ 0 RN/L = 6.46

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-400.100	-100.150	-.07355	.10826	.02824	.00980	-.00368	.00177	.01133	4.01030	299.97000
-398.700	-.031	-.07315	.10980	.02910	.00941	-.00317	.00169	.01440	3.97490	299.92000
-398.900	99.780	-.07405	.10535	.02958	.00923	-.00278	.00155	.01925	3.99370	299.89000
-399.210	200.630	-.07558	.10537	.03080	.00850	-.00225	.00092	-.02869	3.99670	299.94000
-397.880	400.390	-.07564	.10514	.03079	.00847	-.00223	.00091	-.01446	3.95500	299.83000

```
                                AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.          (RTU026)   ( 03 OCT 74  )

            REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                      MACH   =      4.520   PTOTL  =   100.500
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YT                     ALPHA  =      -.400   BETA   =      .000
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                      CALPHA =       .000   DBETA  =     4.000
SCALE =       .0100                                                         X      =    300.000

                        RUN NO.    83/ 0    RN/L =   6.46

      Y          Z          CN          CA         CLM         CY         CYN         CBL        DLTALF      DLTBTA      X
   -199.890   -101.520    -.06166     .18849      .02042     .03803     -.02014      .00558      .08505     4.02240  299.95000
   -199.080      -.755    -.06412     .18800      .02324     .03503     -.01708      .00263      .02405     3.98850  299.97000
   -199.600     98.505    -.05685     .18665      .01873     .03207     -.01502      .00317      .08616     4.02590  299.91000
   -198.210    199.980    -.05830     .18445      .01876     .02593     -.01212      .00318      .01130     3.97290  299.81000
   -196.770    397.510    -.07558     .18462      .03072     .00876     -.00237      .00093      .08855     3.91310  299.89000

                        RUN NO.    82/ 0    RN/L =   6.46

      Y          Z          CN          CA         CLM         CY         CYN         CBL        DLTALF      DLTBTA      X
    -99.741   -100.440    -.05759     .18797      .01721     .04249     -.01789      .00562      .02473     4.02630  299.97000
    -99.030      -.131    -.06236     .18786      .02148     .03962     -.01578      .00311      .01468     3.99880  299.93000
    -96.880     99.871    -.06079     .18814      .02231     .03446     -.01320      .00259      .00641     3.95080  299.82000
    -99.649    200.520    -.05330     .18531      .01693     .02906     -.01559      .00408     -.01033     4.02380  299.98000
    -99.137    401.570    -.06749     .18439      .02579     .01563     -.00671      .00067     -.06875     3.98450  300.06000

                                AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.          (RTU027)   ( 03 OCT 74  )

            REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                      MACH   =      4.520   PTOTL  =   100.500
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YT                     ALPHA  =      -.400   BETA   =      .000
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                      CALPHA =      5.000   DBETA  =     4.000
SCALE =       .0100                                                         X      =    300.000

                        RUN NO.    85/ 0    RN/L =   6.46

      Y          Z          CN          CA         CLM         CY         CYN         CBL        DLTALF      DLTBTA      X
   -398.890   -100.590    -.07401     .18581      .02953     .00968     -.00328      .00158     5.03560     3.95930  299.84000
   -399.630      -.869    -.07328     .18555      .02916     .00913     -.00302      .00167     5.04320     3.99220  299.85000
   -399.340     99.132    -.07483     .18519      .03025     .00846     -.00238      .00117     5.04620     3.98890  299.88000
   -401.100    199.060    -.07565     .18533      .03082     .00853     -.00225      .00092     5.03670     4.08550  300.07000
   -399.630    399.910    -.07547     .18499      .03075     .00843     -.00222      .00091     5.00700     4.00060  299.86000
```

ORIGINAL PAGE IS
OF POOR QUALITY

C-2

```
                                     AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.            (RTU027)   ( 03 OCT 74  )

             REFERENCE DATA                                                                            PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                                   MACH   =     4.520   PTOTL  =   100.500
 LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YT                                  ALPHA  =     -.400   BETA   =      .000
 BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                                   DALPHA =     5.000   DBETA  =     4.000
 SCALE =        .0100                                                                     X      =   300.000

                          RUN NO.    86/ 0    RN/L =    6.47

     Y          Z          CN          CA          CLM         CY         CYN         CBL       DLTALF      DLTBTA      X
  -198.320   -100.000   -.06764     .18766      .02528      .03739    -.01895      .00296    5.00980     3.96890   299.72000
  -197.430      1.085   -.06456     .18733      .02373      .03377    -.01566      .00196    4.96570     3.95920   299.69000
  -198.900    101.350   -.05615     .18630      .01799      .03044    -.01429      .00353    4.95300     3.95980   299.73000
  -198.160    200.370   -.06555     .18421      .02428      .02226    -.01002      .00133    4.97360     3.96230   299.78000
  -199.210    399.490   -.07556     .18499      .03080      .00867    -.00230      .00095    5.01250     3.99730   300.00000

                          RUN NO.    87/ 0    RN/L =    6.46

     Y          Z          CN          CA          CLM         CY         CYN         CBL       DLTALF      DLTBTA      X
   -98.236    -99.889   -.06553     .18757      .02328      .04218    -.01668      .00318    4.99700     3.96790   299.81000
   -99.640      -.772   -.06783     .18790      .02643      .03588    -.01320      .00111    5.01900     4.05450   299.95000
   -98.407     99.951   -.05841     .18761      .02094      .02912    -.01020      .00302    5.00490     3.97350   299.92000
   -97.084    198.330   -.05933     .18497      .02141      .02450    -.00837      .00247    5.09550     3.91130   299.78000
  -100.670    401.270   -.07019     .18423      .02728      .01252    -.00490      .00078    4.95740     4.05920   299.95000

                                     AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.            (RTU028)   ( 03 OCT 74  )

             REFERENCE DATA                                                                            PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                                   MACH   =     4.520   P[illegible]TL =   100.500
 LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YT                                  ALPHA  =     -.400   BETA   =      .000
 BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                                   DALPHA =     5.000   DBETA  =     4.000
 SCALE =        .0100                                                                     X      =      .000

                          RUN NO.    90/ 0    RN/L =    6.46

    .Y          Z          CN          CA          CLM         CY         CYN         CBL       DLTALF      DLTBTA      X
  -399.910   -100.230   -.07334     .18517      .02924      .01094    -.00400      .00155    5.00800     4.00860    -.17064
  -399.980       .202   -.07292     .18491      .02894      .01077    -.00406      .00151    4.98630     4.03290    -.18447
  -399.620    100.350   -.07272     .18482      .02877      .00980    -.00345      .00170    4.97990     4.01010    -.10760
  -398.700    199.880   -.07490     .18471      .03034      .00898    -.00245      .00114    5.00040     3.96870    -.32168
  -399.580    399.720   -.07565     .18519      .03081      .00850    -.00223      .00091    5.01520     4.00110    -.10170
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU028) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 100.500
ALPHA = -.400 BETA = .000
DALPHA = 5.000 DBETA = 4.000
X = .000

RUN NO. 89/ 0 RN/L = 6.46

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-198.530	-101.480	-.06798	.18799	.02526	.03728	-.01675	.00266	5.07790	3.95380	-.07945
-199.730	-1.233	-.06490	.18797	.02390	.03535	-.01494	.00230	5.04740	4.02540	-.02313
-199.830	98.730	-.06197	.18633	.02242	.02982	-.01229	.00207	5.06120	4.03210	.03131
-198.640	199.930	-.06248	.18513	.02244	.02248	-.00973	.00222	5.00890	3.98050	-.07578
-197.380	399.050	-.07255	.18458	.02877	.01130	-.00410	.00085	5.02830	3.93090	-.13287

RUN NO. 88/ 0 RN/L = 6.46

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-98.451	-100.080	-.07255	.18687	.02405	.05738	-.01224	.00414	5.00520	3.98110	-.24169
-98.886	-.317	-.07306	.18679	.02861	.04749	-.00718	.00288	5.01270	3.98890	-.04648
-98.884	99.559	-.06620	.18731	.02788	.03890	-.00647	.00224	5.01940	3.99270	-.08640
-99.031	199.530	-.05644	.18811	.02243	.03105	-.00782	.00311	5.01770	3.99190	.03717
-99.324	399.580	-.06953	.18469	.02746	.01360	-.00507	.00075	5.01440	4.00560	-.02209

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU029) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 100.500
ALPHA = -.400 BETA = .000
DALPHA = -5.000 DBETA = 4.000
X = .000

RUN NO. 91/ 0 RN/L = 6.46

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-400.120	.240	-.07122	.18611	.02757	.01236	-.00551	.00238	-5.01870	4 01590	-.13722
-398.540	98.920	-.07161	.18520	.02783	.01108	-.00451	.00205	-4.92920	3.94160	-.25852
-399.850	199.450	-.07298	.18498	.02879	.00948	-.00320	.00178	-4.96360	3.99360	-.23015
-399.170	400.120	-.07563	.18524	.03081	.00848	-.00226	.00092	-4.99530	3.98790	-.22280

RUN NO. 92/ 0 RN/L = 6.46

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-199.130	-.042	-.03514	.18999	.00071	.04464	-.02220	.01149	-4.98700	3.99850	-.20527
-197.950	99.696	-.05763	.18841	.01906	.03866	-.01717	.00378	-5.02560	3.98100	-.23787
-197.940	200.300	-.05216	.18596	.01539	.03468	-.01590	.00423	-5.00270	3.99080	-.10119
-198.550	399.730	-.06990	.18389	.02728	.01492	-.00634	.00066	-4.98750	3.98710	-.06822

ORIGINAL PAGE IS
OF POOR QUALITY

```
                          AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.            (RTU029)   ( 03 OCT 74  )

          REFERENCE DATA                                                             PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                       MACH   =      4.520  PTOTL  =   100.500
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                       ALPHA  =      -.400  BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                       DALPHA =     -5.000  DBETA  =     4.000
SCALE =      .0100                                                          X      =       .000

                       RUN NO.   93/ 0    RN/L =   6.46

      Y          Z          CN         CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA     X
   -97.417    100.410    -.05971     .18777     .01988    .05909    -.01570    .00560   -5.01710    3.94980   -.38650

                          AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.            (RTU030)   ( 03 OCT 74  )

          REFERENCE DATA                                                             PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                       MACH   =      4.520  PTOTL  =   100.500
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                       ALPHA  =      -.400  BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                       DALPHA =     -5.000  DBETA  =     4.000
SCALE =      .0100                                                          X      =    300.000

                       RUN NO.   96/ 0    RN/L =   6.46

      Y          Z          CN         CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA     X
  -399.650     99.943    -.07294     .18542     .02890    .00937    -.00300    .00179   -4.99340    4.00320  300.03000
  -398.900    199.340    -.07573     .18526     .03082    .00847    -.00226    .00092   -4.96500    3.96900  299.85000
  -398.300    400.420    -.07542     .18519     .03077    .00848    -.00222    .00091   -5.02680    3.97230  299.99000

                       RUN NO.   95/ 0    RN/L =   6.46

      Y          Z          CN         CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA     X
  -199.120     99.847    -.05565     .18734     .01763    .03518    -.01661    .00366   -5.00070    3.97690  300.00000
  -198.870    199.950    -.05202     .18494     .01471    .03120    -.01507    .00448   -4.99090    3.97820  299.93000
  -198.780    399.930    -.07455     .18436     .03003    .00980    -.00300    .00088   -4.99690    3.99180  299.97000

                       RUN NO.   94/ 0    RN/L =   6.46

      Y          Z          CN         CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA     X
  -100.020    100.180    -.05690     .18791     .01836    .04129    -.01691    .00396   -4.99770    4.03530  300.21000
   -99.780    200.890    -.04799     .18627     .01397    .03781    -.01539    .00492   -5.02770    4.05720  300.00000
   -98.536    399.650    -.06334     .18378     .02375    .02083    -.00953    .00048   -4.98270    3.98260  299.90000
```

```
                                      AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.               (RTU031)    ( 03 OCT 74  )

               REFERENCE DATA                                                                        PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                              MACH   =       4.520   PTOTL  =      90.200
 LREF  =  1290.3000 INCHES    YMRP  =        .0000 IN. YT                            ALPHA  =       -.400   BETA   =        .000
 BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                              DALPHA =        .000   DBETA  =       8.000
 SCALE =       .0100                                                                 X      =        .000

                        RUN NO.   97/ 0    RN/L =   5.87

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   -398.930    -99.745    -.06620     .18635     .02444     .01525    -.00783     .00366    -.01248    7.96590    -.16506
   -398.570      -.933    -.06727     .18529     .02532     .01387    -.00661     .00281     .06818    7.95670    -.09569
   -399.000     99.565    -.07000     .18483     .02722     .01226    -.00534     .00196     .02811    7.99630    -.11487
   -399.750    199.420    -.07182     .18449     .02848     .01020    -.00368     .00166     .04313    8.02620    -.06245
   -398.490    400.170    -.07425     .18491     .03050     .00828    -.00220     .00088     .00675    7.97500    -.19567

                        RUN NO.   98/ 0    RN/L =   5.87

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   -199.890   -100.140    -.04312     .18753     .00666     .05887    -.02876     .00892     .01662    7.99960    -.26634
   -199.580      -.160    -.05521     .18813     .01691     .05921    -.02680     .00413     .01214    7.99180    -.17886
   -198.370    101.340    -.05123     .18788     .01654     .04959    -.02140     .00314    -.05249    7.98220    -.20761
   -199.280    199.750    -.04903     .18512     .01485     .03648    -.01566     .00354     .01741    7.99230    -.08291
   -199.550    399.870    -.06869     .18401     .02702     .01395    -.00583     .00067     .01282    7.99550     .04483

                                      AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.               (RTU032)    ( 03 OCT 74  )

               REFERENCE DATA                                                                        PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                              MACH   =       4.520   PTOTL  =      90.200
 LREF  =  1290.3000 INCHES    YMRP  =        .0000 IN. YT                            ALPHA  =       -.400   BETA   =        .000
 BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                              DALPHA =        .000   DBETA  =       8.000
 SCALE =       .0100                                                                 X      =     300.000

                        RUN NO.  100/ 0    RN/L =   5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   -399.200   -100.210    -.06903     .18654     .02656     .01094    -.00463     .00278     .01255    7.99720  300.08000
   -398.190      -.152    -.06954     .18542     .02690     .01002    -.00377     .00251     .02630    7.96780  299.95000
   -398.900    100.050    -.07182     .18485     .02863     .00882    -.00281     .00173     .00460    7.99830  300.04000
   -398.330    200.460    -.07447     .18506     .03057     .00838    -.00223     .00090    -.02396    7.97650  299.90000
   -397.330    400.140    -.07430     .18501     .03051     .00848    -.00226     .00090    -.00003    7.92500  299.75000
```

AEDC/VA528(IA87)-O1ET131-ORB/ET W L/H SRB SEPAR. (RTU032) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 490.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.400 BETA = .000
DALPHA = .000 DBETA = 8.000
X = 300.000

RUN NO. 99/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-200.700	-101.220	-.05162	.18789	.01389	.04874	-.02582	.00686	.07692	8.02100	300.28000
-200.000	-.948	-.05778	.18771	.01943	.04418	-.02156	.00323	.04482	7.99090	299.98000
-200.140	98.525	-.05108	.18657	.01566	.03867	-.01776	.00345	.07944	8.02690	299.94000
-198.890	199.860	-.05004	.18437	.01412	.03220	-.01519	.00393	.01529	7.97440	299.76000
-200.620	400.010	-.07356	.18429	.02999	.00880	-.00263	.00082	.00234	8.04930	300.17000

AEDC/VA528(IA87)-O1ET131-ORB/ET W L/H SRB SEPAR. (RTU033) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 490.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.400 BETA = .000
DALPHA = 5.000 DBETA = 8.000
X = 300.000

RUN NO. 101/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-397.710	-100.520	-.07031	.18595	.02739	.01014	-.00391	.00236	5.02750	7.94070	299.86000
-399.300	-.816	-.07171	.18542	.02845	.00954	-.00329	.00189	5.04380	8.00000	300.01000
-399.240	99.550	-.07326	.18521	.02951	.00869	-.00256	.00142	5.02710	8.00590	300.07000
-400.200	198.900	-.07477	.18519	.03086	.00834	-.00224	.00090	5.05160	8.05820	300.29000
-398.770	399.810	-.07475	.18520	.03066	.00840	-.00227	.00091	5.00870	7.98830	299.98000

RUN NO. 102/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-198.980	-100.170	-.06112	.18783	.02082	.04761	-.02385	.00376	5.01160	7.96670	299.70000
-197.830	1.043	-.05867	.18749	.02047	.04180	-.01950	.00245	4.95860	7.95840	299.74000
-198.200	101.300	-.05059	.18716	.01542	.03636	-.01656	.00366	4.94720	7.93610	299.73000
-198.910	200.290	-.05721	.18425	.01903	.02759	-.01271	.00231	4.97870	7.94670	299.81000
-199.410	399.670	-.07456	.18462	.03057	.00825	-.00226	.00087	5.01530	7.99180	300.09000

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU034) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.400 BETA = .000
DALPHA = 5.000 DBETA = 8.000
X = .000

RUN NO. 104/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-398.720	-100.160	-.06911	.18545	.02664	.01423	-.00673	.00245	5.00820	7.99320	-.03677
-399.200	.374	-.07032	.18499	.02761	.01304	-.00585	.00172	4.97650	8.00820	-.17953
-398.730	100.080	-.07041	.18491	.02758	.01196	-.00499	.00182	4.99110	7.99180	-.24431
-398.600	200.260	-.07268	.18436	.02925	.00947	-.00311	.00132	4.97950	7.98730	-.10235
-399.580	399.660	-.07450	.18502	.03058	.00829	-.00221	.00088	5.01210	8.00110	-.18819

RUN NO. 103/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-200.110	-101.730	-.08104	.18760	.02020	.05850	-.02664	.00404	5.08330	7.98770	-.08698
-201.810	-1.408	-.05769	.18871	.02010	.05117	-.02132	.00248	5.05340	8.07830	.14101
-202.080	99.435	-.05296	.18744	.01789	.03846	-.01489	.00284	5.02940	8.09820	.14156
-199.610	199.770	-.05516	.18532	.01889	.02961	-.01275	.00247	5.01290	7.99170	-.13818
-198.210	399.770	-.07014	.18432	.02781	.01224	-.00475	.00071	5.00570	7.92050	-.27622

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU035) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.400 BETA = .000
DALPHA = -5.000 DBETA = 8.000
X = .000

RUN NO. 105/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-398.950	.431	-.05634	.18662	.01655	.01723	-.00922	.00664	-5.00660	7.98480	.04135
-398.690	99.236	-.06467	.18554	.02310	.01486	-.00725	.00376	-4.94090	7.95930	-.15773
-399.210	199.330	-.06999	.18437	.02721	.01124	-.00460	.00203	-4.95320	7.99880	-.03681
-398.640	399.930	-.07450	.18496	.03058	.00837	-.00223	.00089	-4.99550	7.97720	-.17942

RUN NO. 106/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-199.450	200.290	-.04025	.18643	.00946	.03144	-.02393	.00474	-5.00810	7.99140	-.27985
-199.990	399.820	-.06272	.18365	.02352	.02178	-.01052	.00041	-4.98530	8.00240	.02251

ORIGINAL PAGE IS
OF POOR QUALITY

```
                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.          (RTU036)   ( 03 OCT 74  )

               REFERENCE DATA                                                                         PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                  MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                                  ALPHA  =     -.400   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                  DALPHA =    -5.000   DBETA  =     8.000
SCALE =        .0100                                                                    X      =   300.000

                         RUN NO.  108/ 0    RN/L =   5.86

      Y           Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
  -398.940     100.010     -.07019      .18532      .02729      .00967     -.00339      .00240    -4.99010     7.99500  300.04000
  -398.560     199.530     -.07420      .18483      .03045      .00833     -.00226      .00094    -4.97440     7.97820  299.68000
  -397.000     400.180     -.07455      .18537      .03366      .00624     -.00222      .00089    -5.01290     7.93000  299.76000

                         RUN NO.  107/ 0    RN/L =   5.86

      Y           Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
  -199.540      99.469     -.04910      .18702      .01404      .04400     -.02096      .00420    -4.97270     7.97530  299.83000
  -199.440     200.030     -.04362      .18468      .00991      .03882     -.01889      .00521    -4.99260     7.98370  299.88000
  -200.950     400.800     -.07005      .18369      .02767      .01205     -.00491      .00071    -5.05250     8.08860  300.15000

                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.          (RTU037)   ( 03 OCT 74  )

               REFERENCE DATA                                                                         PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                  MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                                  ALPHA  =    -5.700   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                  DALPHA =      .000   DBETA  =      .000
SCALE =        .0100                                                                    X      =      .000

                         RUN NO.  112/ 0    RN/L =   5.86

      Y           Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
    11.949    -100.510     -.20934      .21702      .05470     -.03197      .00012     -.00577      .02753     -.06610     -.05652
    10.271       -.299     -.21557      .21547      .05944     -.03779      .00863     -.00323      .01112      .01211     -.23237
    10.531      99.834     -.21493      .21433      .06502     -.03225      .00595     -.00055      .00855     -.00198     -.06402
    10.230     201.510     -.20161      .21483      .06301     -.02175      .00296     -.00015     -.06706     -.01006     -.05340
     8.290     401.130     -.19806      .21098      .05936      .00030      .00102      .00134     -.03433      .08936     -.12312

                         RUN NO.  111/ 0    RN/L =   5.85

      Y           Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
   101.440    -101.620     -.20612      .21565      .05589     -.03260      .00933     -.00656      .08041     -.02003     -.10998
   103.110      -2.290     -.21307      .21439      .06141     -.03149      .00689     -.00345      .09178     -.07589     -.02465
   100.800     100.090     -.20737      .21505      .06229     -.02636      .00564     -.00061      .00217      .00554     -.04733
   100.490     199.890     -.19547      .21397      .05787     -.01735      .00395     -.00084      .01172      .00611     -.08001
   100.840     400.200     -.20599      .21104      .06168      .00472     -.00038      .00120     -.03096     -.02134     -.09219
```

```
                                    AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.               (RTU037)   ( 03 OCT 74  )

              REFERENCE DATA                                                                       PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                  MACH   =     4.520  PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                                  ALPHA  =    -5.700  BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                  DALPHA =      .000  DBETA  =      .000
SCALE =       .0100                                                                    X      =      .000

                         RUN NO.  110/ 0    RN/L =   5.86

     Y          Z         CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  200.280   -100.270   -.20503     .21541     .05963   -.01296     .01010   -.00271     .01229   -.00270   -.13687
  200.600       .729   -.20690     .21450     .06174   -.01020     .00737   -.00021   -.02835   -.02129   -.09057
  199.570    100.280   -.20433     .21246     .06050   -.00734     .00548     .00004     .00168     .02555   -.02026
  199.340    200.650   -.20641     .21099     .06226   -.00095     .00247     .00123   -.03783     .01459   -.03146
  198.180    399.480   -.21188     .21127     .06497     .00661   -.00142     .00109     .01100     .06538   -.02897

                         RUN NO.  109/ 0    RN/L =   5.86

     Y          Z         CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  398.890   -100.660   -.21396     .21229     .06636     .00631   -.00098     .00101     .03479     .07210   -.06790
  399.750      -.716   -.21285     .21227     .06547     .00630   -.00097     .00070     .03732     .03669   -.10171
  399.900     99.512   -.21295     .21187     .06554     .00669   -.00144     .00067     .03403     .02235   -.06981
  400.790    199.740   -.21392     .21174     .06627     .00712   -.00195     .00105     .01363   -.03909   -.01345
  400.720    400.340   -.21350     .21163     .06619     .00732   -.00195     .00106   -.00247   -.00888   -.11676


                                    AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.               (RTU038)   ( 03 OCT 74  )

              REFERENCE DATA                                                                       PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                  MACH   =     4.520  PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                                  ALPHA  =    -5.700  BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                  DALPHA =      .000  DBETA  =      .000
SCALE =       .0100                                                                    X      =   300.000

                         RUN NO.  113/ 0    RN/L =   5.85

     Y          Z         CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   12.089   -100.160   -.19997     .21521     .05358   -.02366     .00851   -.00422     .00889   -.01660  299.93000
   10.992      -.110   -.20538     .21709     .05646   -.02874     .01045   -.00235     .05593   -.01161  299.88000
   13.235    191.860   -.20633     .21407     .06089   -.02078     .00786   -.00048   -.04758   -.07598  299.92000
    8.673    197.600   -.20737     .21156     .06458   -.00775     .00301     .00156     .09878     .05605  299.98000
    8.769    397.680   -.20138     .21102     .05989     .00271     .00033     .00129     .08310     .06063  300.01000
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU038) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -5.700 BETA = .000
CALPHA = .000 CBETA = .000
X = 300.000

RUN NO. 114/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.810	-100.100	-.20196	.21554	.05643	-.01896	.01014	-.00388	.01129	-.01505	299.93000
100.730	-.305	-.20399	.21497	.05897	-.01281	.00653	-.00066	.00813	-.01225	299.88000
99.025	99.003	-.20170	.21303	.05864	-.00896	.00437	-.00068	.05299	.00089	299.89000
99.871	199.370	-.20609	.21134	.06384	-.00454	.00251	.00143	.01412	.01190	299.93000
101.000	399.900	-.20541	.21075	.06106	.00408	.00005	.00122	.02128	-.00957	299.94000

RUN NO. 115/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
202.510	-101.650	-.20459	.21512	.05947	-.01499	.01267	-.00253	.07413	-.06280	299.90000
202.470	-.829	-.20517	.21421	.06075	-.00957	.00721	.00005	.02481	-.07363	299.98000
201.530	99.420	-.20141	.21226	.05806	-.00738	.00618	-.00079	.03464	-.02607	299.88000
200.910	199.860	-.20638	.21096	.06224	-.00160	.00306	.00146	.01051	.00616	299.90000
200.570	397.990	-.21369	.21156	.06618	.00721	-.00193	.00105	.08512	.00481	299.89000

RUN NO. 116/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.100	-100.060	-.21337	.21240	.06614	.00649	-.00105	.00092	.00604	-.00666	299.92000
399.640	.253	-.21293	.21217	.06557	.00647	-.00128	.00065	-.00566	-.01323	299.94000
399.890	190.180	-.21382	.21185	.06626	.00734	-.00199	.00107	-.00168	-.00567	299.92000
401.060	200.200	-.21366	.21175	.06621	.00724	-.00196	.00106	-.01879	-.03391	300.04000
400.010	400.300	-.21388	.21195	.06628	.00717	-.00190	.00103	-.01733	.00798	299.87000

```
                         AEDC/VA528(IA87)-O1ET181-ORB/ET W R/M SRB SEPAR.          (RTU039)   ( 03 OCT 74 )

        REFERENCE DATA                                                               PARAMETRIC DATA

SREF  =  2000.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                       MACH   =    4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                       ALPHA  =   -5.700   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                       DALPHA =    5.000   DBETA  =      .000
SCALE =       .0100                                                         X      =  300.000

                     RUN NO.  120/ 0    RN/L =   5.85

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   11.011   -100.190   -.21123     .21555     .06113    -.02031     .00538    -.00150    5.00940    -.00944  299.95000
    9.887      -.320   -.21329     .21419     .06307    -.01858     .00506    -.00022    5.01820     .00709  299.93000
   10.615     99.817   -.20732     .21269     .06218    -.00842     .00207     .00017    5.01530    -.01137  299.92000
    8.387    198.200   -.20868     .21174     .06512    -.00066     .00008     .00130    5.06460     .07042  300.15000
   10.633    399.700   -.20437     .21121     .06094     .00463    -.00052     .00120    5.01250    -.00316  300.01000

                     RUN NO.  119/ 0    RN/L =   5.86

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   99.992   -100.120   -.20823     .21415     .06138    -.01521     .00750    -.00142    5.01520     .00997  299.92000
  102.700       .379   -.20730     .21466     .06217    -.00809     .00362     .00035    4.99500    -.08602  300.03000
  101.210    100.030   -.20480     .21171     .06073    -.00481     .00219    -.00022    5.01820    -.04095  299.90000
  100.770    200.020   -.20726     .21165     .06380    -.00128     .00139     .00137    5.01070    -.01653  299.89000
  101.610    401.270   -.20868     .21095     .06289     .00565    -.00080     .00117    4.96070    -.04201  299.92000

                     RUN NO.  118/ 0    RN/L =   5.86

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  200.410   -100.190   -.20811     .21420     .06301    -.01194     .00964    -.00027    5.01290     .00852  299.92000
  198.820      1.183   -.20508     .21319     .06091    -.00863     .00643     .00029    4.97130     .06524  299.83000
  199.400    100.410   -.20398     .21165     .05988    -.00444     .00447    -.00007    4.98430     .04229  299.99000
  200.200    200.790   -.20683     .21113     .06219     .00093     .00186     .00139    4.96170    -.00572  299.72000
  197.970    399.830   -.21375     .21189     .06625     .00724    -.00192     .00104    4.98740     .08992  299.99000

                     RUN NO.  117/ 0    RN/L =   5.86

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  400.530   -100.250   -.21361     .21245     .06608     .00634    -.00114     .00084    5.01550     .00631  299.98000
  400.050      -.725   -.21321     .21209     .06576     .00664    -.00148     .00073    5.04290     .01011  300.05000
  400.120     99.477   -.21370     .21171     .06621     .00734    -.00197     .00107    5.03220    -.00071  300.0000
  401.000    199.400   -.21363     .21172     .06622     .00713    -.00191     .00103    5.03560    -.03876  300.0
  400.250    399.910   -.21363     .21172     .06620     .00718    -.00196     .00106    5.01180    -.00518  300.0
```

```
                              AEDC/VA528(IA87)-O1ET151-ORB/ET W R/M SRB SEPAR.          (RTU040)   ( 03 OCT 74  )

            REFERENCE DATA                                                                   PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                            MACH   =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                           ALPHA  =     -5.700   BETA   =       .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                            CALPHA =      5.000   CBETA  =       .000
SCALE =       .0100                                                              X      =       .000

                         RUN NO.  121/ 0    RN/L =   5.86

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   9.670     90.543    -.22390     .21553     .06442    -.02659    -.00332    -.00252    4.99450     .05339    -.15813
  10.544      -.092    -.22359     .21290     .06757    -.01994    -.00167    -.00059    5.01710     .00723    -.17448
   8.767     98.519    -.21314     .21306     .06574    -.01228    -.00150    -.00004    5.06760     .06316    -.03856
  12.118    190.160    -.20135     .21371     .06284    -.00921    -.00118    -.00022    5.04400    -.07183     .04288
  11.016    401.100    -.20417     .21115     .06137     .00475    -.00079     .00117    4.94600    -.06666    -.10090

                         RUN NO.  122/ 0    RN/L =   5.86

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
 101.920   -101.010    -.21406     .21304     .06220    -.02775     .00469    -.00345    5.04810    -.02661     .05835
  98.626      2.224    -.21600     .21382     .06541    -.02374     .00270    -.00109    4.90900     .05969    -.31310
  98.721    102.230    -.20608     .21531     .06256    -.01760     .00201    -.00010    4.90780     .07214    -.23398
  98.576    201.070    -.19965     .21215     .06047    -.01079     .00165     .00000    4.96420     .08358    -.10006
 100.440    399.740    -.20957     .21140     .06355     .00600    -.00123     .00113    5.01770    -.01525     .01957

                         RUN NO.  123/ 0    RN/L =   5.86

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
 200.690   -100.870    -.21045     .21422     .06389    -.01020     .00770    -.00028    5.04100     .00605    -.05971
 201.200     -1.099    -.20815     .21367     .06278    -.00651     .00468     .00061    5.06090    -.02438     .05873
 201.290     99.342    -.20628     .21205     .06188    -.00301     .00320     .00059    5.04930    -.02930    -.06975
 202.390    199.270    -.20816     .21148     .06326     .00231     .00059     .00128    5.05250    -.08155    -.04213
 200.570    399.040    -.21335     .21143     .06582     .00718    -.00182     .00109    5.04490     .00367     .05307

                         RUN NO.  124/ 0    RN/L =   5.86

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
 400.390   -100.219    -.21354     .21215     .06604     .00646    -.00119     .00091    5.01350    -.01372    -.05795
 401.190       .092    -.21250     .21202     .06544     .00646    -.00122     .00069    5.00440    -.05044    -.01730
 400.990    100.270    -.21330     .21154     .06586     .00704    -.00178     .00088    4.98840    -.04764    -.13777
 400.270    199.920    -.21389     .21173     .06624     .00712    -.00191     .00103    5.00280     .00029    -.05492
 399.160    399.615    -.21402     .21194     .06629     .00720    -.00199     .00106    5.02330     .06136     .00845
```

```
                              AEDC/VA520(IA87)-O1ET151-ORB/ET W R/M SRB SEPAR.          (RTU041)   ( 03 OCT 74  )

           REFERENCE DATA                                                                PARAMETRIC DATA

SREF  =  2000.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                         ALPHA  =    -5.700   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   490.0000 IN. ZT                          DALPHA =    -5.000   DBETA  =      .000
SCALE =        .0100                                                           X      =      .000

                   RUN NO.  127/ 0    RN/L =   5.86

     Y          Z          CN         CA         CLM        CY         CYN        CBL      DLTALF     DLTBTA      X
  100.430      .403    -.18798     .21748     .04234    -.04385     .01429    -.01139   -4.98940    -.00587    -.10545
  103.290    99.407    -.20022     .21706     .05494    -.03960     .01191    -.00394   -4.94070    -.06416    -.18432
  101.290   199.840    -.19417     .21526     .05655    -.02680     .00818    -.00127   -4.99070     .00247    -.24006
  101.040   401.440    -.20002     .21081     .05884    -.00093     .00258     .00142   -5.05160    -.02674     .02251

                   RUN NO.  126/ 0    RN/L =   5.85

     Y          Z          CN         CA         CLM        CY         CYN        CBL      DLTALF     DLTBTA      X
  201.080      .124    -.19298     .21695     .05074    -.01881     .01373    -.00589   -4.98960    -.01325    -.22383
  200.100   100.710    -.19928     .21349     .05702    -.01410     .00912    -.00102   -5.04530    -.00215    -.09340
  199.080   199.470    -.20240     .21109     .05962    -.00786     .00803     .00031   -4.96850     .04098    -.17923
  197.480   399.630    -.20980     .21083     .06370     .00552    -.00081     .00114   -5.01300     .05883    -.04171

                   RUN NO.  125/ 0    RN/L =   5.86

     Y          Z          CN         CA         CLM        CY         CYN        CBL      DLTALF     DLTBTA      X
  300.000     -.436    -.21290     .21251     .06529     .00508    -.00013     .00055   -4.96360     .04697    -.18176
  300.100    99.223    -.212[illegible]     .21206     .06498     .00599    -.00088     .00045   -4.95560     .05217    -.17597
  400.090   199.290    -.21584     .21174     .06626     .00708    -.00191     .00103   -4.96700     .02253    -.16913
  400.820   400.340    -.21383     .21178     .06625     .00719    -.00192     .00103   -5.00660    -.00818     .08861

                              AEDC/VA520(IA87)-O1ET151-ORB/ET W R/M SRB SEPAR.          (RTU042)   ( 03 OCT 74  )

           REFERENCE DATA                                                                PARAMETRIC DATA

SREF  =  2000.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                         ALPHA  =    -5.700   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA =    -5.000   DBETA  =      .000
SCALE =        .0100                                                           X      =   300.000

                   RUN NO.  128/ 0    RN/L =   5.85

     Y          Z          CN         CA         CLM        CY         CYN        CBL      DLTALF     DLTBTA      X
   11.325    99.952    -.19712     .21641     .05228    -.03443     .01326    -.00268   -4.99080    -.01228  299.97000
   10.464   199.990    -.205[illegible]     .21122     .06347    -.02213     .00943     .00140   -4.99580     .00100  299.92000
   11.314   401.090    -.19737     .21599     .05842    -.00123     .00209     .00140   -5.03200    -.02447  300.05000
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.            (RTU042)   ( 03 OCT 74  )

          REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =      4.520   PTOTL   =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                          ALPHA  =     -5.700   BETA    =       .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA =     -5.000   DBETA   =       .000
SCALE =       .0100                                                             X      =    300.000

                        RUN NO.  129/ 0    RN/L =   5.86

     Y          Z         CN         CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA      X
   98.344     99.813    -.19984     .21373    .05709    -.01623    .00803   -.00126   -4.99910    .08278  299.87000
   98.766    199.280    -.20476     .21089    .06216    -.01058    .00501    .00116   -4.97870    .03547  299.81000
  100.720    399.740    -.20132     .21059    .05910     .00099    .00171    .00131   -4.98480    .00089  299.88000

                        RUN NO.  130/ 0    RN/L =   5.86

     Y          Z         CN         CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA      X
  202.030     99.451    -.19876     .21278    .05645    -.01145    .00837   -.00119   -4.96400   -.04323  299.83000
  200.710    199.780    -.20519     .21063    .06159    -.00566    .00496    .00125   -4.98890    .00068  299.88000
  201.180    398.520    -.21324     .21128    .06579     .00687   -.00167    .00106   -4.93780   -.02579  299.86000

                        RUN NO.  131/ 0    RN/L =   5.86

     Y          Z         CN         CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA      X
  400.750    100.070    -.21364     .21178    .06605     .00682   -.00175    .00089   -4.99730   -.01485  299.97000
  400.510    199.970    -.21389     .21176    .06624     .00707   -.00191    .00103   -4.99580   -.00246  299.90000
  400.100    400.380    -.21388     .21194    .06629     .00704   -.00187    .00100   -5.02830   -.00386  299.97000

                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.            (RTU043)   ( 03 OCT 74  )

          REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =      4.520   PTOTL   =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                          ALPHA  =     -5.700   BETA    =       .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA =       .000   DBETA   =     -4.000
SCALE =       .0100                                                             X      =       .000

                        RUN NO.  132/ 0    RN/L =   5.86

     Y          Z         CN         CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA      X
   99.698    -99.749    -.19838     .21665    .04747    -.05401    .01488   -.00844    -.00067   -3.99400    -.04714
   99.726      -.041    -.20980     .21667    .05760    -.05361    .01459   -.00450     .00910   -3.97510    -.03549
   98.182    100.400    -.20675     .21478    .06175    -.04313    .01135   -.00079    -.01407   -3.90600    -.34259
```

```
DATE 20 MAY 75                       IA87 TABULATED SOURCE DATA

                     AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.           (RTU044)    ( 03 OCT 74  )

                                                                                        PARAMETRIC DATA
              REFERENCE DATA
                                                                            MACH   =      4.520   PTOTL   =     90.200
 SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                      ALPHA  =     -5.700   BETA    =       .000
 LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                      DALPHA =       .000   DBETA   =     -4.000
 BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                      X      =    300.000
 SCALE =       .0100

                        RUN NO.  133/ 0    RN/L =   5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   100.760   -100.450    -.19436     .21555     .05054    -.03197     .01622    -.00502     .02075   -4.04190  300.11000
    99.731      -.117    -.19779     .21562     .05418    -.02682     .01293    -.00202     .01263   -3.99560  299.99000
    99.957     99.913    -.19948     .21339     .05753    -.01913     .00903    -.00063     .01368   -3.99920  300.00000
    98.536    199.150    -.20397     .21111     .06234    -.00882     .00419     .00146     .02276   -3.96560  299.89000
    99.866    399.610    -.20313     .21070     .05995     .00283     .00060     .00122     .01527   -3.99370  299.93000

                        RUN NO.  134/ 0    RN/L =   5.87

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   202.470   -101.770    -.19682     .21589     .05369    -.02362     .01690    -.00476     .09658   -4.07680  300.10000
   202.310      -.416    -.20306     .21443     .05934    -.01533     .00971    -.00051     .00784   -4.08030  300.01000
   200.530     99.439    -.19818     .21240     .05632    -.01227     .00802    -.00095     .04694   -4.01250  299.95000
   199.130    199.840    -.20491     .21095     .06175    -.00556     .00465     .00153     .01041   -3.97200  299.97000
   199.730    398.440    -.21311     .21104     .06584     .00657    -.00167     .00100     .05909   -3.99680  300.01000

                        RUN NO.  135/ 0    RN/L =   5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   400.600   -100.110    -.21276     .21282     .06552     .00564    -.00038     .00054     .00953   -4.01180  300.03000
   400.620       .427    -.21230     .21221     .06525     .00604    -.00101     .00050    -.01181   -4.01650  299.90000
   400.060     99.816    -.21361     .21167     .06616     .00708    -.00190     .00102     .01723   -3.99390  299.95000
   400.040    200.000    -.21359     .21169     .06617     .00703    -.00190     .00102     .00519   -4.00830  299.99000
   398.940    400.110    -.21388     .21194     .06629     .00688    -.00187     .00100    -.00477   -3.95590  299.86000
```

```
                          AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.            (RTU045)    ( 03 OCT 74  )

              REFERENCE DATA                                                           PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                        MACH   =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                        ALPHA  =     -5.700   BETA   =       .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                        DALPHA =      5.000   DBETA  =     -4.000
SCALE =       .0100                                                          X      =    300.000

                        RUN NO.  138/ 0    RN/L =   5.85

     Y          Z         CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   99.250   -100.090    -.20628     .21448     .05955    -.02743     .01280    -.00192    5.01420   -3.97350  299.84000
   98.974      -.176    -.20578     .21510     .06098    -.01876     .00809     .00050    5.01170   -3.96830  299.88000
  100.700    100.260    -.20072     .21199     .05832    -.00976     .00420    -.00029    5.00590   -4.03380  299.93000
   99.985    199.920    -.20527     .21139     .06323    -.00333     .00181     .00142    5.01170   -4.00930  299.93000
  100.510    400.920    -.20669     .21121     .06172     .00465    -.00035     .00115    4.97280   -4.02660  300.00000

                        RUN NO.  137/ 0    RN/L =   5.85

     Y          Z         CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  199.660   -100.250    -.20583     .21453     .06044    -.01878     .01300    -.00149    5.01140   -3.97780  299.85000
  196.980      1.244    -.20407     .21409     .06026    -.01255     .00767     .00012    4.95650   -3.91210  299.62000
  198.200    100.570    -.20008     .21167     .05762    -.00868     .00606    -.00057    4.97810   -3.92640  300.01000
  198.930    200.400    -.20525     .21107     .06171    -.00195     .00305     .00144    4.97860   -3.95650  299.96000
  199.860    399.740    -.21367     .21156     .06617     .00714    -.00195     .00104    5.01280   -4.00140  300.04000

                        RUN NO.  136/ 0    RN/L =   5.86

     Y          Z         CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  400.590   -100.000    -.21308     .21241     .06579     .00615    -.00100     .00074    4.99460   -4.00460  299.97000
  400.350      -.776    -.21281     .21202     .06547     .00619    -.00125     .00058    5.04330   -3.99240  299.95000
  401.460     99.725    -.21396     .21189     .06630     .00699    -.00190     .00102    5.01710   -4.03640  300.08000
  401.690    199.110    -.21402     .21197     .06630     .00701    -.00187     .00101    5.05610   -4.05160  300.06000
  400.630    399.940    -.21394     .21184     .06629     .00689    -.00188     .00100    5.01100   -4.00760  299.94000
```

```
                         AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.           (RTU046)    ( 03 OCT 74  )

          REFERENCE DATA                                                                 PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                           MACH   =     4.520  PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                          ALPHA  =    -5.700  BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                           DALPHA =     5.000  DBETA  =    -4.000
SCALE =        .0100                                                            X      =      .000

                         RUN NO.  139/ 0    RN/L =   5.85

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
    99.664   -100.020    -.21675     .21524     .06113    -.04799     .00990    -.00387    5.00450   -3.98760   -.25675
   100.300      -.395    -.21669     .21369     .06482    -.03829     .00637    -.00152    5.02050   -4.00620    .07356
   100.570     99.778    -.20463     .21489     .06212    -.02573     .00358    -.00029    5.01440   -4.01150   -.02422
    99.902    199.730    -.19503     .21308     .05853    -.01496     .00220    -.00046    5.01470   -4.00110   -.05432
    99.897    399.780    -.20773     .21119     .06256     .00543    -.00099     .00115    5.01430   -4.00640    .05274

                         RUN NO.  140/ 0    RN/L =   5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   199.490   -101.280    -.20837     .21502     .06205    -.01971     .01108    -.00091    5.05380   -3.94070   -.07109
   201.480     -1.548    -.20509     .21443     .06083    -.01574     .00786     .00009    5.07950   -4.04390    .07571
   202.150     99.702    -.20181     .21180     .05961    -.01066     .00581     .00025    5.02520   -4.08700    .06202
   202.220    199.390    -.20516     .21128     .06192    -.00206     .00255     .00143    5.05130   -4.08410    .17763
   199.520    399.240    -.21217     .21133     .06511     .00631    -.00144     .00106    5.03020   -3.98090   -.06065

                         RUN NO.  141/ 0    RN/L =   5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   400.930   -100.120    -.21290     .21216     .06554     .00528    -.00034     .00083    5.01090   -4.01870   -.06385
   401.310       .530    -.21210     .21220     .06495     .00551    -.00054     .00064    4.97660   -4.05680   -.11782
   400.120    100.010    -.21255     .21146     .06537     .00646    -.00141     .00075    5.00290   -4.01130   -.17088
   400.680    200.240    -.21362     .21161     .06618     .00710    -.00195     .00104    4.98440   -4.02010   -.08126
   399.650    400.090    -.21367     .21181     .05623     .00711    -.00194     .00105    4.99570   -3.95570   -.19400
```

```
                             AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.            (RTU047)    ( 03 OCT 74  )

             REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                              MACH    =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                              ALPHA   =     -5.700   BETA   =       .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                              DALPHA  =     -5.000   CBETA  =     -4.000
SCALE =        .0100                                                                X       =    300.000

                         RUN NO.  142/ 0    RN/L =    5.86

       Y           Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
    202.180      99.779     -.19498      .21302      .05402     -.01737      .01090     -.00161    -4.97530    -4.05490  300.10000
    199.900     199.760     -.20291      .21043      .06021     -.01003      .00685      .00113    -4.98490    -3.98340  299.82000
    199.190     400.210     -.21130      .21089      .06432      .00555     -.00084      .00116    -5.00630    -3.97230  299.92000

                         RUN NO.  143/ 0    RN/L =    5.86

       Y           Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
    400.620     100.160     -.21327      .21181      .06577      .00673     -.00163      .00077    -5.00010    -4.01460  299.98000
    399.600     199.710     -.21384      .21188      .06626      .00706     -.00189      .00102    -4.97880    -3.97530  299.88000
    399.460     399.800     -.21396      .21186      .06629      .00698     -.00190      .00102    -4.99860    -3.98240  299.85000

                             AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.            (RTU048)    ( 03 OCT 74  )

             REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                              MACH    =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                              ALPHA   =     -5.700   BETA   =       .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                              DALPHA  =       .000   CBETA  =     -8.000
SCALE =        .0100                                                                X       =    300.000

                         RUN NO.  144/ 0    RN/L =    5.85

       Y           Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
    200.450    -100.050     -.19059      .21660      .04905     -.03866      .02519     -.00597      .00714    -7.99270  299.88000
    199.930       -.185     -.19686      .21449      .05441     -.02780      .01648     -.00175      .01195    -7.97990  299.90000
    198.150     100.410     -.19394      .21207      .05792     -.02076      .01207     -.00102     -.00950    -7.90520  299.39000

                         RUN NO.  145/ 0    RN/L =    5.86

       Y           Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
    400.060    -100.120     -.20950      .21336      .06296      .00404      .00094     -.00065      .01444    -8.01170  300.16000
    399.230        .257     -.21064      .21187      .06393      .00563     -.00059     -.00001     -.01106    -7.98820  299.80000
    398.870      99.806     -.21363      .21176      .06605      .00712     -.00190      .00096      .01702    -7.98880  299.83000
    399.340     199.750     -.21388      .21188      .06626      .00716     -.00198      .00105      .02257    -7.99030  299.83000
    398.060     400.220     -.21399      .21191      .06631      .00714     -.00195      .00105     -.01458    -7.92820  299.66000
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU049) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -5.700 BETA = .000
DALPHA = 5.000 DBETA = -8.000
X = 300.000

RUN NO. 147/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.150	-100.130	-.20015	.21535	.05627	-.03231	.02025	-.00255	5.00930	-7.97630	299.73000
200.010	-.250	-.20096	.21390	.05827	-.02065	.01173	-.00003	5.01780	-7.99900	300.01000
200.710	99.692	-.19609	.21170	.05524	-.01393	.00818	-.00088	5.01420	-8.00640	300.09000
199.170	200.150	-.20306	.21083	.06088	-.00582	.00459	.00155	4.98870	-7.94150	299.91000
200.710	399.760	-.21367	.21131	.06610	.00689	-.00184	.00103	5.01490	-8.00560	300.08000

RUN NO. 146/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
399.580	-100.320	-.21175	.21288	.06450	.00562	-.00040	.00015	5.01130	-7.97470	299.96000
399.520	-.507	-.21243	.21208	.06516	.00605	-.00108	.00045	5.03430	-7.99270	299.98000
399.990	99.366	-.21375	.21166	.06622	.00704	-.00189	.00102	5.03820	-8.01840	300.22000
401.780	199.480	-.21409	.21196	.06633	.00708	-.00195	.00103	5.04030	-8.08120	300.39000
399.770	399.880	-.21396	.21176	.06628	.00697	-.00190	.00102	5.01230	-8.00080	300.08000

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU050) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -5.700 BETA = .000
DALPHA = 5.000 DBETA = -8.000
X = .000

RUN NO. 148/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
201.310	-101.830	-.20138	.21527	.05586	-.04759	.02533	-.00274	5.07850	-7.94440	.06876
203.880	-1.670	-.19845	.21581	.05654	-.03652	.01687	-.00004	5.08920	-8.07760	.21390
200.980	99.979	-.19484	.21337	.05563	-.02092	.00861	-.00032	5.00850	-8.00870	-.13304
200.610	199.640	-.20199	.21145	.06109	-.00824	.00473	.00157	5.01740	-7.99660	-.09907
199.720	399.350	-.21116	.21111	.06429	.00607	-.00122	.00109	5.02830	-7.95890	-.06113

```
                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.                (RTU050)   ( 03 OCT 74  )

              REFERENCE DATA                                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                    MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                                   ALPHA  =    -5.700   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                    CALPHA =     5.000   DBETA  =    -8.000
SCALE =       .0100                                                                      X      =      .000

                          RUN NO.  149/ 0    RN/L =   5.86

     Y          Z          CN          CA          CLM         CY          CYN        CBL       DLTALF      DLTBTA       X
  399.550   -100.160    -.20999      .21245      .06343      .00199      .00208     .00008    5.01450    -8.00290     .09760
  400.390       .523    -.21065      .21185      .06391      .00367      .00070     .00053    4.97590    -8.04840    -.04198
  399.520    100.090    -.21127      .21130      .06445      .00559     -.00069     .00069    4.99980    -7.99280    -.11991
  399.240    200.060    -.21358      .21142      .06607      .00683     -.00177     .00103    4.98880    -7.97910    -.19210
  398.080    400.350    -.21393      .21186      .06629      .00716     -.00196     .00104    4.98000    -7.93290    -.14661

                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.                (RTU051)   ( 03 OCT 74  )

              REFERENCE DATA                                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                    MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                                   ALPHA  =    -5.700   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                    CALPHA =    -5.000   DBETA  =    -8.000
SCALE =       .0100                                                                      X      =      .000

                          RUN NO.  151/ 0    RN/L =   5.85

     Y          Z          CN          CA          CLM         CY          CYN        CBL       DLTALF      DLTBTA       X
  201.040     99.758    -.17561      .21706      .03934     -.05818      .02933    -.00528   -4.99140    -8.00100    -.27356
  197.140    200.970    -.18251      .21147      .04762     -.04265      .02212    -.00151   -5.06990    -7.91870    -.33305
  200.180    399.850    -.19898      .21011      .05744     -.00232      .00377     .00147   -4.98900    -7.99880    -.01073

                          RUN NO.  150/ 0    RN/L =   5.86

     Y          Z          CN          CA          CLM         CY          CYN        CBL       DLTALF      DLTBTA       X
  400.110    100.090    -.20509      .21146      .05952      .00223      .00202    -.00125   -4.99680    -7.99690    -.02653
  400.320    199.340    -.21266      .21108      .06533      .00569     -.00102     .00095   -4.94580    -8.00290    -.07635
  399.590    400.360    -.21376      .21167      .06621      .00700     -.00188     .00102   -5.00790    -7.98470    -.11094
```

```
                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.                (RTU052)    ( 03 OCT 74  )

              REFERENCE DATA                                                                            PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                                   MACH    =      4.520   PTOTL   =      90.200
LREF  =  1290.3000 INCHES    YMRP  =        .0000 IN. YT                                 ALPHA   =     -5.700   BETA    =        .000
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                                   DALPHA  =     -5.000   DBETA   =      -8.000
SCALE =        .0100                                                                     X       =    300.000

                            RUN NO.  152/ 0    RN/L =   5.86

      Y          Z          CN          CA          CLM          CY          CYN          CBL        DLTALF      DLTBTA      X
   203.640     99.927    -.18864     .21297      .04968     -.02876      .01696     -.00230    -4.96660    -8.06050  300.13000
   200.670    199.780    -.19775     .20939      .05701     -.01700      .01041      .00076    -4.98590    -7.98710  299.84000
   201.490    400.900    -.20736     .21034      .06184      .00351      .00054      .00123    -5.05930    -8.08350  300.16000

                            RUN NO.  153/ 0    RN/L =   5.85

      Y          Z          CN          CA          CLM          CY          CYN          CBL        DLTALF      DLTBTA      X
   399.690    100.130    -.21225     .21150      .06493      .00614     -.00134      .00041    -5.00420    -8.00400  299.90000
   398.670    199.690    -.21367     .21161      .06617      .00697     -.00189      .00102    -4.98430    -7.96760  299.71000
   397.710    399.460    -.21400     .21175      .06627      .00707     -.00194      .00104    -4.97590    -7.94580  299.69000

                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.                (RTU053)    ( 03 OCT 74  )

              REFERENCE DATA                                                                            PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                                   MACH    =      4.520   PTOTL   =      90.200
LREF  =  1290.3000 INCHES    YMRP  =        .0000 IN. YT                                 ALPHA   =     -5.700   BETA    =        .000
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                                   DALPHA  =       .000   DBETA   =      -4.000
SCALE =        .0100                                                                     X       =       .000

                            RUN NO.  156/ 0    RN/L =   5.86

      Y          Z          CN          CA          CLM          CY          CYN          CBL        DLTALF      DLTBTA      X
    99.949    -99.894    -.19643     .21807      .04642     -.05340      .01474     -.00845      .00346    -3.99640    -.01552
    99.220       .032    -.20942     .21641      .05755     -.05356      .01466     -.00449      .00266    -3.96930    -.08868
    99.681     99.896    -.20635     .21500      .06157     -.04300      .01158     -.00081      .01054    -3.97680    -.08176
    99.787    199.690    -.19110     .21414      .05827     -.02583      .00644     -.00088      .00879    -3.97610    -.19734
    99.984    400.690    -.20228     .21081      .05971      .00257      .00061      .00123     -.01823    -3.99810    -.04570

                            RUN NO.  155/ 0    RN/L =   5.86

      Y          Z          CN          CA          CLM          CY          CYN          CBL        DLTALF      DLTBTA      X
   199.980   -100.220    -.19417     .21641      .05109     -.02641      .01666     -.00592      .01162    -3.99980    -.14552
   200.110       .416    -.20292     .21491      .05896     -.02148      .01165     -.00101     -.01584    -4.03650    -.07588
   198.700    100.670    -.19893     .21294      .05734     -.01699      .00876     -.00044     -.01869    -4.00080    -.15831
   197.680    200.860    -.20306     .21086      .06158     -.00821      .00531      .00122     -.04980    -3.94220    -.18885
   200.090    399.710    -.21093     .21107      .06428      .00580     -.00107      .00106      .01273    -4.00660    -.04723
```

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU053) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -5.700 BETA = .000
DALPHA = .000 DBETA = -4.000
X = .000

RUN NO. 154/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.450	-100.100	-.21240	.21261	.06527	.00389	.00082	.00047	-.00225	-3.99890	-.10985
400.510	-.811	-.21153	.21211	.06464	.00483	.00000	.00049	.05174	-3.97320	-.09577
400.720	99.689	-.21237	.21194	.06505	.00582	-.00093	.00056	.02355	-4.00910	-.14548
400.960	199.280	-.21348	.21133	.06614	.00686	-.00182	.00098	.04729	-4.01660	-.07446
400.740	400.350	-.21371	.21162	.06622	.00699	-.00190	.00101	-.00371	-4.00490	-.14574

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU054) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -5.700 BETA = .000
DALPHA = .000 DBETA = -4.000
X = 300.000

RUN NO. 157/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.310	-100.420	-.19425	.21542	.05058	-.03204	.01633	-.00503	.02242	-4.03550	300.09000
99.752	-.208	-.19822	.21575	.05433	-.02673	.01288	-.00201	.01483	-3.99960	300.05000
99.872	99.846	-.19912	.21307	.05740	-.01906	.00903	-.00067	.01244	-3.99710	300.03000
98.528	199.080	-.20396	.21099	.06233	-.00857	.00412	.00146	.02315	-3.96460	299.91000
99.587	399.640	-.20319	.21053	.05995	.00303	.00056	.00122	.01396	-3.98690	299.94000

RUN NO. 158/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
202.330	-101.800	-.19705	.21565	.05380	-.02338	.01685	-.00476	.09593	-4.07260	300.10000
202.330	-.349	-.20308	.21437	.05936	-.01536	.00970	-.00049	.00801	-4.07880	300.09000
200.750	99.379	-.19834	.21250	.05638	-.01236	.00808	-.00098	.04751	-4.01770	299.96000
199.570	199.830	-.20476	.21073	.06171	-.00539	.00461	.00151	.01229	-3.97860	299.97000
199.360	398.420	-.21295	.21088	.06585	.00657	-.00170	.00099	.05879	-3.98950	299.96000

```
                                AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.          (RTU054)    ( 03 OCT 74  )

            REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                           MACH   =     4.520  PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                           ALPHA  =    -5.700  BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                           CALPHA =      .000  CBETA  =    -4.000
SCALE =      .0100                                                              X      =   300.000

                        RUN NO.  159/ 0    RN/L =   5.86

       Y          Z         CN         CA        CLM       CY        CYN        CBL      DLTALF     DLTBTA      X
    400.690    -99.968    -.21264    .21261    .06551    .00540    -.00032    .00051    .01110   -4.01020  299.99000
    400.390       .288    -.21257    .21201    .06534    .00600    -.00101    .00049   -.01184   -4.01090  300.00000
    400.160     99.887    -.21370    .21171    .06621    .00687    -.00186    .00099    .01729   -3.99960  299.92000
    400.030    199.990    -.21394    .21190    .06631    .00680    -.00183    .00099    .00821   -4.00550  299.96000
    399.360    400.130    -.21390    .21198    .06630    .00705    -.00191    .00101   -.00741   -3.95960  299.84000

                                AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.          (RTU055)    ( 03 OCT 74  )

            REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                           MACH   =     4.520  PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                           ALPHA  =    -5.700  BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                           CALPHA =     5.000  DBETA  =    -4.000
SCALE =      .0100                                                              X      =   300.000

                        RUN NO.  162/ 0    RN/L =   5.85

       Y          Z         CN         CA        CLM       CY        CYN        CBL      DLTALF     DLTBTA      X
     99.339   -100.010    -.20614    .21430    .05949   -.02750     .01284   -.00195   5.01350   -3.97260  299.95000
     99.600      -.183    -.20594    .21542    .06107   -.01869     .00810    .00049   5.00950   -3.98400  299.91000
    100.580    100.270    -.20041    .21183    .05827   -.00995     .00432   -.00032   5.00530   -4.03080  299.93000
     99.817    199.950    -.20528    .21122    .06321   -.00363     .00194    .00137   5.01210   -4.00640  299.94000
    100.530    401.000    -.20650    .21070    .06166    .00474    -.00041    .00116   4.97360   -4.02990  300.00000

                        RUN NO.  161/ 0    RN/L =   5.85

       Y          Z         CN         CA        CLM       CY        CYN        CBL      DLTALF     DLTBTA      X
    199.580   -100.150    -.20573    .21444    .06048   -.01900     .01305   -.00151   5.01140   -3.97920  299.83000
    197.350      1.210    -.20378    .21389    .06019   -.01258     .00771    .00011   4.95600   -3.91780  299.71000
    197.960    100.340    -.20018    .21138    .05764   -.00858     .00603   -.00057   4.97980   -3.92020  299.76000
    199.220    200.400    -.20531    .21086    .06169   -.00205     .00307    .00141   4.98220   -3.96450  299.94000
    200.090    399.700    -.21366    .21148    .06617    .00705    -.00190    .00102   5.01610   -4.00560  300.07000
```

```
                                  AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.                 (RTU055)   ( 03 OCT 74  )

            REFERENCE DATA                                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                 MACH   =    4.520  PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                                 ALPHA  =   -5.700  BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                 DALPHA =    5.000  DBETA  =    -4.000
SCALE =      .0100                                                                    X      =  300.000

                        RUN NO.  160/ 0   RN/L =   5.86

     Y          Z         CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA      X
  400.970    -99.963   -.21300     .21223    .06575     .00599   -.00095     .00072   4.99550   -4.00990  299.94000
  400.890      -.734   -.21241     .21176    .06538     .00601   -.00121     .00055   5.04640   -3.99880  300.06000
  401.210     99.713   -.21342     .21144    .06614     .00678   -.00183     .00098   5.01480   -4.03370  300.10000
  401.060    199.120   -.21379     .21162    .06622     .00685   -.00184     .00099   5.05760   -4.05130  300.12000
  399.880    399.860   -.21405     .21193    .06633     .00678   -.00185     .00099   5.01350   -4.00010  299.92000

                                  AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.                 (RTU056)   ( 03 OCT 74  )

            REFERENCE DATA                                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                 MACH   =    4.520  PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                                 ALPHA  =   -5.700  BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                 DALPHA =    5.000  DBETA  =    -4.000
SCALE =      .0100                                                                    X      =     .000

                        RUN NO.  163/ 0   RN/L =   5.86

     Y          Z         CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA      X
   99.638    -99.994   -.21584     .21651    .06067    -.04796    .00987    -.00389   5.00560   -3.99630    -.25266
  100.220      -.457   -.21654     .21339    .06475    -.03819    .00640    -.00153   5.02250   -4.00200     .04428
  100.390     99.766   -.20445     .21488    .06207    -.02579    .00370    -.00032   5.01510   -4.01130    -.00274
   99.787    199.720   -.19511     .21237    .05863    -.01524    .00247    -.00045   5.01600   -3.99630     .02399
   99.731    399.720   -.20766     .21098    .06254     .00525   -.00091     .00110   5.01400   -4.00400     .06222

                        RUN NO.  164/ 0   RN/L =   5.85

     Y          Z         CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA      X
  199.160   -101.240   -.20869     .21513    .06219    -.01967    .01112    -.00092   5.05480   -3.93590    -.07673
  201.610     -1.522   -.20509     .21437    .06080    -.01591    .00792     .00005   5.08050   -4.04710     .07096
  202.000     99.716   -.20220     .21217    .05976    -.01063    .00588     .00021   5.02550   -4.08270     .07082
  202.210    199.480   -.20494     .21097    .06183    -.00178    .00253     .00140   5.05320   -4.08480     .22401
  199.300    399.250   -.21216     .21116    .06510     .00625   -.00142     .00103   5.03070   -3.97890    -.00177
```

```
                                          AEDC/VA520(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.              (RTU056)    ( 03 OCT 74  )

              REFERENCE DATA                                                                             PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                                  MACH   =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YT                                 ALPHA  =     -5.700   BETA   =       .000
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                                  DALPHA =      5.000   DBETA  =     -4.000
SCALE =       .0100                                                                     X      =       .000

                         RUN NO.  165/ 0    RN/L =   5.86

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF     DLTBTA      X
  400.810   -100.200    -.21283      .21193      .06550      .00525     -.00035      .00081    5.01570   -4.01500    -.03563
  401.100       .428    -.21187      .21185      .06489      .00544     -.00056      .00062    4.98070   -4.05430    -.01587
  400.340    100.090    -.21313      .21166      .06556      .00639     -.00141      .00072    5.00120   -4.01450    -.01425
  400.200    200.370    -.21378      .21153      .06622      .00678     -.00182      .00098    4.98450   -4.01400    -.10383
  399.200    400.000    -.21373      .21164      .06624      .00684     -.00183      .00099    4.99670   -3.95170    -.19104

                                          AEDC/VA520(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.              (RTU057)    ( 03 OCT 74  )

              REFERENCE DATA                                                                             PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                                  MACH   =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YT                                 ALPHA  =     -5.700   BETA   =       .000
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                                  DALPHA =     -5.000   DBETA  =     -4.000
SCALE =       .0100                                                                     X      =       .000

                         RUN NO.  168/ 0    RN/L =   5.86

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF     DLTBTA      X
  100.270     99.996    -.19009      .21760      .04701     -.06214      .02060     -.00567   -4.99790   -3.98370    -.15517
   99.641    199.940    -.18986      .21566      .05492     -.04855      .01659     -.00095   -4.99440   -3.96660    -.16036
  100.410    401.500    -.19582      .21134      .05729     -.00473      .00411      .00153   -5.05460   -4.02890    -.00093

                         RUN NO.  167/ 0    RN/L =   5.86

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF     DLTBTA      X
  199.940     99.856    -.19332      .21430      .05303     -.02517      .01282     -.00198   -5.01120   -3.99010    -.21860
  198.150    200.000    -.19446      .21078      .05464     -.01802      .00993     -.00085   -4.99650   -3.96780    -.15748
  199.900    399.820    -.20573      .21046      .06094      .00255      .00112      .00125   -4.99220   -4.00000    -.00737

                         RUN NO.  166/ 0    RN/L =   5.86

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF     DLTBTA      X
  400.200     99.900    -.21064      .21185      .06385      .00470     -.00001      .00020   -4.96400   -3.97710    -.14868
  400.780    199.370    -.21349      .21137      .06603      .00667     -.00169      .00099   -4.95670   -3.99970    -.08281
  400.360    400.400    -.21366      .21164      .06622      .00683     -.00185      .00099   -5.00980   -4.00060    -.06737
```

```
                                     AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR.              (RTU058)    ( 03 OCT 74  )

              REFERENCE DATA                                                                          PARAMETRIC DATA

 SREF   =  2690.0000 SQ.FT.   XMRP   =  1097.0000 IN. XT                            MACH    =      4.520   PTOTL   =     90.200
 LREF   =  1290.3000 INCHES   YMRP   =      .0000 IN. YT                            ALPHA   =     -5.700   BETA    =       .000
 BREF   =  1290.3000 INCHES   ZMRP   =   450.0000 IN. ZT                            DALPHA  =     -5.000   DBETA   =     -4.000
 SCALE  =      .0100                                                                X       =    300.000

                        RUN NO.  169/ 0    RN/L =   5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
    98.802    100.220    -.19274     .21417     .05157    -.03021     .01476    -.00247   -5.00380   -4.00730  300.09000
    97.255    199.470    -.20065     .21050     .06005    -.01980     .00975     .00127   -5.00560   -3.95570  299.81000
   100.080    399.700    -.19928     .21076     .05808    -.00072     .00253     .00138   -4.98150   -3.99350  299.92000

                        RUN NO.  170/ 0    RN/L =   5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
   202.030     99.796    -.19484     .21290     .05397    -.01756     .01095    -.00165   -4.97520   -4.05400  300.00000
   200.070    199.850    -.20251     .21024     .06018    -.01011     .00694     .00113   -4.98760   -3.98350  299.83000
   200.640    398.140    -.21070     .21066     .06406     .00520    -.00065     .00112   -4.90740   -3.98680  299.90000

                        RUN NO.  171/ 0    RN/L =   5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
   401.360    100.130    -.21330     .21174     .06580     .00660    -.00163     .00076   -4.99990   -4.02680  300.10000
   399.740    199.730    -.21372     .21156     .06619     .00693    -.00188     .00100   -4.97890   -3.97380  299.86000
   399.370    399.910    -.21358     .21158     .06619     .00683    -.00185     .00099   -4.99520   -3.98390  299.94000


                                     AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR.              (RTU059)    ( 03 OCT 74  )

              REFERENCE DATA                                                                          PARAMETRIC DATA

 SREF   =  2690.0000 SQ.FT.   XMRP   =  1097.0000 IN. XT                            MACH    =      4.520   PTOTL   =     90.200
 LR     =  1290.3000 INCHES   YMRP   =      .0000 IN. YT                            ALPHA   =     -5.700   BETA    =       .000
 BREF   =  1290.3000 INCHES   ZMRP   =   450.0000 IN. ZT                            DALPHA  =       .000   DBETA   =     -8.000
 SC     =      .0100                                                                X       =       .000

                        RUN NO.  173/ 0    RN/L =   5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
   200.450   -100.120    -.17959     .21745     .03950    -.05302     .03043    -.00825     .01140   -7.99430    -.23412
   200.810      -.304    -.19079     .21648     .04923    -.05456     .02760    -.00327     .01555   -7.99870    -.02512
   198.470    101.740    -.19114     .21461     .05306    -.04020     .01866    -.00064    -.07604   -7.97490    -.27603
   200.690    199.690    -.19594     .21014     .05690    -.01609     .00869     .00059     .01899   -7.99570    -.03551
   201.760    398.840    -.20672     .21544     .06157     .00425    -.00005     .00120     .01946   -8.02630     .08922
```

```
                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.            (RTU059)   ( 03 OCT 74  )

          REFERENCE DATA                                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                            MACH    =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                           ALPHA   =    -5.700   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                            DALPHA  =      .000   DBETA  =    -8.000
SCALE =       .0100                                                              X       =      .000

                        RUN NO.  172/ 0    RN/L =   5.86

      Y           Z          CN          CA         CLM        CY         CYN        CBL       DLTALF    DLTBTA       X
   399.940    -99.987    -.20293     .21390     .05785    -.00083     .00441    -.00256     .01202   -7.99470    -.01257
   399.520      -.245    -.20767     .21219     .06187     .00236     .00190    -.00042     .01712   -7.96880     .02295
   399.700     99.470    -.21087     .21159     .06399     .00460     .00003     .00044     .04336   -7.98560    -.04948
   401.030    199.530    -.21338     .21126     .06590     .00656    -.00158     .00102     .03131   -8.04260     .12432
   399.290    400.300    -.21377     .21161     .06623     .00704    -.00195     .00103    -.00447   -7.97840    -.16329

                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.            (RTU060)   ( 03 OCT 74  )

          REFERENCE DATA                                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                            MACH    =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                           ALPHA   =    -5.700   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                            DALPHA  =      .000   DBETA  =    -8.000
SCALE =       .0100                                                              X       =   300.000

                        RUN NO.  174/ 0    RN/L =   5.83

      Y           Z          CN          CA         CLM        CY         CYN        CBL       DLTALF    DLTBTA       X
   201.230   -100.040    -.19063     .21637     .04909    -.03875     .02520    -.00598     .00776   -8.00170  299.90000
   199.670      -.152    -.19711     .21454     .05449    -.02778     .01648    -.00177     .00887   -7.97400  299.85000
   203.300     99.568    -.19396     .21187     .05390    -.02000     .01180    -.00105     .04652   -8.05000  300.04000
   200.190    199.820    -.20218     .21030     .06054    -.00957     .00644     .00164     .01196   -7.98120  299.86000
   202.320    400.600    -.21187     .21070     .06485     .00587    -.00115     .00105    -.03490   -8.08040  300.04000

                        RUN NO.  175/ 0    RN/L =   5.85

      Y           Z          CN          CA         CLM        CY         CYN        CBL       DLTALF    DLTBTA       X
   400.490   -100.120    -.20924     .21317     .06292     .00394     .00096    -.00066     .01409   -8.01630  300.17000
   399.310       .263    -.21086     .21202     .06401     .00563    -.00061    -.00001    -.00932   -7.98830  299.95000
   399.030     99.827    -.21368     .21163     .06607     .00701    -.00183     .00093     .01604   -7.98910  299.90000
   399.520    199.730    -.21417     .21202     .06635     .00695    -.00188     .00100     .01971   -7.98950  299.82000
   397.920    400.360    -.21359     .21166     .06621     .00689    -.00187     .00100    -.01864   -7.92690  299.67000
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU061) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -5.700 BETA = .000
CALPHA = 5.000 CBETA = -8.000
X = 300.000

RUN NO. 177/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
199.650	-100.080	-.19995	.21516	.05622	-.03227	.02024	-.00256	5.01090	-7.96850	299.64000
201.860	-.207	-.20081	.21379	.05823	-.02072	.01172	-.00005	5.01760	-8.02410	300.06000
197.850	100.770	-.19638	.21187	.05538	-.01380	.00815	-.00089	4.96560	-7.89660	299.54000
198.890	200.140	-.20309	.21085	.06089	-.00570	.00452	.00156	4.98850	-7.94170	300.04000
200.650	399.750	-.21365	.21107	.06608	.00688	-.00186	.00102	5.01740	-8.00600	300.17000

RUN NO. 176/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
399.680	-100.240	-.21123	.21247	.06434	.00532	-.00026	.00009	5.01320	-7.97650	299.96000
399.850	-.502	-.21214	.21186	.06505	.00617	-.00109	.00045	5.03400	-7.99770	300.01000
400.550	99.364	-.21414	.21179	.06631	.00712	-.00198	.00104	5.03640	-8.02720	300.12000
402.130	199.360	-.21400	.21167	.06627	.00696	-.00191	.00102	5.04250	-8.08570	300.32000
399.740	399.960	-.21390	.21174	.06627	.00708	-.00192	.00102	5.01420	-7.99890	300.00000

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU062) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -5.700 BETA = .000
CALPHA = 5.000 CBETA = -8.000
X = .000

RUN NO. 178/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.180	-101.920	-.20144	.21510	.05585	-.04765	.02527	-.00273	5.08330	-7.92890	.01501
202.850	-1.530	-.19847	.21569	.05650	-.03666	.01680	-.00004	5.08990	-8.06640	.24376
200.750	100.000	-.19445	.21324	.05554	-.02123	.00869	-.00036	5.00870	-8.00520	-.10280
200.490	199.700	-.20198	.21120	.06109	-.00837	.00470	.00156	5.01430	-7.99390	-.11130
199.740	399.370	-.21086	.21103	.06429	.00581	-.00114	.00105	5.02830	-7.95830	-.13062

```
                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.            (RTU062)   ( 03 OCT 74  )

            REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                          ALPHA  =    -5.700   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA =     5.000   DBETA  =    -8.000
SCALE =      .0100                                                             X      =      .000

                       RUN NO.  179/ 0    RN/L =   5.86

    Y         Z          CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  400.580  -100.120   -.20992     .21242    .06343    .00210     .00198     .00009    5.01480   -8.01370    .13649
  400.100      .490   -.21046     .21178    .06387    .00396     .00064     .00054    4.97760   -8.04180   -.03929
  399.450   100.060   -.21157     .21148    .06457    .00546    -.00067     .00067    5.00140   -7.99330   -.07493
  399.650   200.060   -.21364     .21134    .06609    .00687    -.00177     .00101    4.99380   -7.98630   -.14949
  398.120   400.370   -.21407     .21198    .06635    .00696    -.00188     .00101    4.97790   -7.93430   -.24011

                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.            (RTU063)   ( 03 OCT 74  )

            REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                          ALPHA  =    -5.700   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA =    -5.000   DBETA  =    -8.000
SCALE =      .0100                                                             X      =      .000

                       RUN NO.  181/ 0    RN/L =   5.86

    Y         Z          CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  201.650    99.733   -.17592     .21685    .03952   -.05768     .02914    -.00519   -4.99090   -8.00790   -.28562
  197.280   201.000   -.18276     .21156    .04771   -.04253     .02200    -.00150   -5.07550   -7.91890   -.38810
  200.430   399.800   -.19898     .20991    .05744   -.00207     .00369     .00145   -4.98790   -8.00250    .07521

                       RUN NO.  180/ 0    RN/L =   5.86

    Y         Z          CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  400.180   100.220   -.20489     .21127    .05946    .00210     .00208    -.00128   -5.00170   -7.99970    .09420
  400.380   199.430   -.21266     .21104    .06536    .00566    -.00103     .00095   -4.95830   -8.00170   -.00912
  399.490   400.300   -.21359     .21161    .06621    .00677    -.00182     .00099   -5.00620   -7.98590   -.15216
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                                     AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.              (RTU064)    ( 03 OCT 74  )

                    REFERENCE DATA                                                                     PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                                      MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YT                                      ALPHA  =    -5.700   BETA   =      .000
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                                      DALPHA =    -5.000   DBETA  =    -8.000
SCALE =       .0100                                                                         X      =   300.000

                              RUN NO.  182/ 0    RN/L =   5.87

      Y          Z          CN          CA          CLM         CY         CYN         CBL        DLTALF      DLTBTA      X
   202.050     99.874    -.18874     .21283      .04972     -.02876     .01695     -.00229    -4.96660    -8.05450  300.23000
   200.230    199.880    -.19769     .20906      .05712     -.01688     .01028      .00084    -4.98990    -7.97710  299.88000
   201.610    400.860    -.20731     .20984      .06191      .00366     .00043      .00121    -5.05780    -8.08880  300.29000

                              RUN NO.  183/ 0    RN/L =   5.86

      Y          Z          CN          CA          CLM         CY         CYN         CBL        DLTALF      DLTBTA      X
   400.100    100.060    -.21197     .21100      .06484      .00623    -.00136      .00041    -4.99660    -8.00980  299.97000
   398.550    199.860    -.21367     .21152      .06618      .00698    -.00192      .00102    -4.98260    -7.96520  299.75000
   397.730    399.540    -.21391     .21186      .06631      .00672    -.00180      .00098    -4.98120    -7.94440  299.68000

                                     AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.              (RTU065)    ( 03 OCT 74  )

                    REFERENCE DATA                                                                     PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                                      MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YT                                      ALPHA  =    10.300   BETA   =      .000
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                                      DALPHA =      .000   DBETA  =      .000
SCALE =       .0100                                                                         X      =      .000

                              RUN NO.  188/ 0    RN/L =   5.86

      Y          Z          CN          CA          CLM         CY         CYN         CBL        DLTALF      DLTBTA      X
    10.761   -100.580     .18011     .15237     -.02848     -.02240    -.00425      .00324      .02882     -.05898    -.11636
    10.320       .031     .19344     .15333     -.02582     -.02579    -.00381      .00494      .00616     -.02833    -.13727
    10.667     99.583     .20523     .15312     -.02736     -.01131    -.00758      .00416      .01645     -.02365    -.11640
    10.574    199.560     .20704     .15434     -.02901      .00159    -.01081      .00324      .02576     -.01612    -.10389
    10.764    399.700     .21150     .15975     -.04231      .00555    -.00275     -.00141      .01940     -.01184    -.07821

                              RUN NO.  187/ 0    RN/L =   5.85

      Y          Z          CN          CA          CLM         CY         CYN         CBL        DLTALF      DLTBTA      X
    98.156   -101.410     .19084     .15449     -.03465     -.02056    -.00512      .00371      .06957      .06354    -.14928
   100.350       .080     .19324     .15492     -.03015     -.02273    -.00353      .00375      .00246     -.03221    -.13754
   100.610     99.955     .20686     .15523     -.03502     -.01858    -.00233      .00090      .01299     -.02410    -.08492
   100.950    200.280     .20779     .15804     -.03366     -.00929    -.00025      .00194     -.00280     -.03598    -.09778
   101.280    401.280     .21526     .15924     -.04643      .00165    -.00033     -.00194     -.04273     -.04453    -.10812
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU065) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = 10.300 BETA = .000
CALPHA = .000 CBETA = .000
X = .000

RUN NO. 186/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.670	-100.050	.21078	.15902	-.04510	-.01746	.00981	-.00201	.00990	-.01790	-.13581
200.920	-.097	.20502	.15888	-.04037	-.01906	.01035	-.00013	.01301	-.02501	-.14518
200.370	101.930	.20629	.15957	-.04092	-.01679	.00980	.00020	-.09102	-.02206	-.11572
198.580	201.400	.20674	.15888	-.04134	-.00653	.00430	.00038	-.05744	.04697	-.06588
200.620	399.890	.21263	.15791	-.04672	-.00131	.00264	-.00178	.01738	-.00932	-.05824

RUN NO. 185/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
401.020	-100.790	.20182	.15870	-.03912	.00267	.00095	-.00122	.04777	-.01666	-.13801
401.110	-.662	.20107	.15800	-.03851	.00414	-.00041	-.00028	.03934	-.02607	-.11430
401.520	99.699	.20096	.15754	-.03853	.00511	-.00128	-.00002	.00333	-.03898	-.02450
400.260	200.900	.20243	.15764	-.03960	.00548	-.00140	-.00053	-.03756	.02082	-.10541
400.310	402.950	.19765	.15773	-.03628	.00628	-.00227	.00008	.03727	.00442	-1.45850

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU066) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = 10.300 BETA = .000
CALPHA = .000 CBETA = .000
X = 300.000

RUN NO. 189/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
10.296	-100.220	.18283	.15162	-.02878	-.01504	.00001	.00402	.01476	-.02637	300.00000
9.342	-.266	.19385	.15473	-.03010	-.02031	.00257	.00437	.02606	-.01246	299.91000
12.155	98.389	.20462	.15678	-.03374	-.01129	.00000	.00377	.08312	-.10414	299.89000
13.140	197.200	.20803	.15917	-.03686	-.00237	-.00156	.00210	.09974	-.06907	299.86000
12.649	400.270	.20864	.15833	-.04281	.00168	-.00001	.00006	-.00011	-.07749	299.97000

```
                                 AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.            (RTU066)   ( 03 OCT 74  )

             REFERENCE DATA                                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                             MACH   =    4.520  PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                            ALPHA  =   10.300  BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                             DALPHA =     .000  DBETA  =      .000
SCALE =       .0100                                                               X      =  300.000

                          RUN NO.  190/ 0    RN/L =   5.85

     Y          Z          CN        CA        CLM        CY        CYN       CBL       DLTALF    DLTBTA    X
  100.850   -101.190    .19787    .15550   -.03595   -.01121    .00303    .00249    .05975    .02671  299.90000
  102.290     -1.886    .19936    .15621   -.03635   -.01582    .00496    .00179    .09702   -.10968  299.94000
  102.440     99.435    .20296    .15791   -.03685   -.01425    .00465    .00226    .03809   -.05360  299.94000
  100.840    199.630    .21457    .16113   -.04335   -.01222    .00528    .00105    .01401   -.02207  300.00000
  100.520    399.630    .20162    .15761   -.03889    .00086    .00127    .00067    .01681   -.01117  299.88000

                          RUN NO.  191/ 0    RN/L =   5.85

     Y          Z          CN        CA        CLM        CY        CYN       CBL       DLTALF    DLTBTA    X
  199.160   -100.260    .20540    .15895   -.04121   -.01704    .01092   -.00091   -.00301    .04678  299.77000
  199.210     -1.138    .20708    .15971   -.04165   -.02095    .01300   -.00084    .05763    .03296  299.87000
  200.320     99.997    .21000    .16015   -.04339   -.01781    .01174    .00038    .01202   -.01883  299.95000
  201.120    199.980    .21272    .15794   -.04629   -.00821    .00694   -.00119    .01191   -.01965  299.88000
  198.510    398.720    .19652    .15726   -.03517    .00508   -.00145    .00074    .04746    .06487  299.94000

                          RUN NO.  192/ 0    RN/L =   5.85

     Y          Z          CN        CA        CLM        CY        CYN       CBL       DLTALF    DLTBTA    X
  400.460   -100.110    .20129    .15862   -.03892    .00520   -.00129   -.00094    .00762   -.00558  299.95000
  400.500       .734    .20011    .15808   -.03823    .00566   -.00172   -.00051   -.03650   -.01782  299.96000
  399.260    100.780    .20111    .15831   -.03884    .00545   -.00166   -.00089   -.02843    .03749  299.90000
  399.330    200.540    .19970    .15825   -.03792    .00576   -.00192   -.00071   -.00920    .04571  299.92000
  399.580    398.970    .19572    .15834   -.03468    .00660   -.00249    .00069    .06227    .01681  300.06000
```

```
                          AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR.            (RTU087)   ( 03 OCT 74  )

          REFERENCE DATA                                                                 PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                            MACH   =     4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                            ALPHA  =    10.300   BETA   =       .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                            DALPHA =     5.000   CBETA  =       .000
SCALE =       .0100                                                              X      =   300.000

                         RUN NO.  196/ 0    RN/L =   5.86

     Y          Z          CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
   11.150    -98.436     .17958     .15348    -.02457    -.02585     .00373     .00563    4.94180    -.09751  299.77000
   10.992      -.058     .19835     .15449    -.03106    -.02076     .00140     .00515    5.02260    -.04793  299.88000
    9.883    100.780     .20573     .15722    -.03369    -.00490    -.00336     .00381    4.96770     .01527  299.82000
    9.015    199.050     .20762     .15980    -.03636     .00351    -.00439     .00187    5.06430     .04723  300.05000
   11.038    399.570     .20564     .15856    -.04080     .00274    -.00048     .00050    5.02460    -.02142  300.14000

                         RUN NO.  195/ 0    RN/L =   5.86

     Y          Z          CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
   98.835    -98.794     .19583     .15491    -.03440    -.01847     .00569     .00307    4.95360    -.00473  299.76000
   98.486      -.152     .20280     .15615    -.03797    -.01880     .00555     .00201    5.03730     .04007  299.89000
  100.920     99.651     .20396     .15820    -.03666    -.01464     .00451     .00297    5.02720    -.03920  299.93000
  100.230    199.850     .21848     .16151    -.04573    -.01053     .00459     .00067    5.02470    -.00047  299.79000
  100.670    401.340     .20098     .15774    -.03828     .00141     .00089     .00081    4.97210    -.00090  299.74000

                         RUN NO.  194/ 0    RN/L =   5.85

     Y          Z          CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
  200.100    -99.937     .20720     .15913    -.04213    -.02204     .01346    -.00068    5.01170    -.00549  299.91000
  202.810       .158     .20929     .15986    -.04299    -.02499     .01515    -.00076    5.02010    -.08114  299.85000
  200.720    102.370     .21129     .15985    -.04417    -.01830     .01191     .00056    4.90800    -.03676  299.74000
  200.360    199.660     .21341     .15773    -.04703    -.00696     .00626    -.00166    5.01860    -.00045  300.16000
  201.000    399.710     .19638     .15727    -.03512     .00547    -.00175     .00072    5.02600    -.01887  299.97000

                         RUN NO.  193/ 0    RN/L =   5.86

     Y          Z          CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
  401.430   -101.130     .20227     .15853    -.03969     .00505    -.00122    -.00113    5.05440    -.03302  299.99000
  402.000     -1.162     .20139     .15817    -.03908     .00561    -.00164    -.00074    5.05260    -.05481  300.06000
  401.810     99.632     .20179     .15816    -.03943     .00559    -.00160    -.00111    5.02170    -.02220  300.08000
  399.930    200.690     .19934     .15809    -.03766     .00594    -.00199    -.00059    4.96870     .04110  299.77000
  400.710    399.650     .19577     .15839    -.03470     .00640    -.00248     .00069    5.02260    -.00779  299.97000
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU068) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = 10.300 BETA = .000
DALPHA = 5.000 DBETA = .000
X = .000

RUN NO. 197/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
10.964	-100.400	.17689	.15258	-.02222	-.03566	-.00134	.00641	5.02680	-.06658	.44296
10.748	-.246	.19758	.15266	-.02488	-.02381	-.00713	.00596	5.02010	-.04969	.33103
10.574	99.889	.20996	.15363	-.02940	-.00394	-.01061	.00383	5.01300	-.02814	.35786
9.539	199.820	.20182	.15529	-.02630	.00747	-.01236	.00442	5.01490	.02170	.23777
8.071	398.400	.21004	.15954	-.04174	.00764	-.00399	-.00144	5.08090	.08949	.48240

RUN NO. 198/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.330	-99.916	.19157	.15439	-.03357	-.03021	-.00242	.00447	5.00840	-.03182	.18506
100.610	-.432	.20061	.15450	-.03258	-.02527	-.00374	.00348	5.01880	-.03546	.44472
101.420	99.467	.20790	.15523	-.03424	-.01611	-.00404	.00179	5.03560	-.04001	.43620
100.530	199.380	.20876	.15881	-.03747	-.00654	-.00083	.00192	5.02800	-.01765	.48825
101.000	399.650	.21466	.15914	-.04631	.00225	-.00072	-.00178	5.02330	-.01624	.27275

RUN NO. 199/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.500	-101.890	.20932	.15790	-.04359	-.02348	.01188	-.00059	5.09690	-.01555	.45284
200.200	-.213	.20711	.15831	-.04153	-.02395	.01210	.00010	5.01450	-.02205	.24156
200.840	99.689	.20792	.15908	-.04198	-.01804	.01003	.00022	5.01970	-.02496	.42853
203.360	200.190	.20392	.15914	-.03858	-.00618	.00359	.00160	4.96430	-.05765	.42059
201.550	398.870	.21183	.15792	-.04630	-.00105	.00230	-.00157	5.04210	-.03331	.45681

RUN NO. 200/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
401.120	-100.390	.20245	.15869	-.03948	.00139	.00175	-.00121	5.01820	-.01683	.55953
399.870	.466	.20241	.15805	-.03930	.00265	.00057	-.00048	4.99240	.01504	.39169
399.950	99.957	.20228	.15764	-.03934	.00393	-.00055	-.00019	5.02010	-.00078	.45747
400.780	198.960	.20368	.15784	-.04050	.00439	-.00086	-.00082	5.07250	-.04709	.47252
400.330	399.510	.19677	.15804	-.03551	.00620	-.00234	.00038	5.01650	.00132	.33134

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU069) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = 10.300 BETA = .000
DALPHA = -5.000 DBETA = .000
X = .000

RUN NO. 204/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
10.636	100.080	.19776	.15358	-.02506	-.01482	-.00648	.00353	-4.99840	-.04744	-.08393
10.290	199.420	.20548	.15430	-.02686	-.00627	-.00834	.00329	-4.97710	-.00797	-.08220
11.124	399.850	.21437	.16005	-.04339	.00056	-.00030	-.00063	-4.98590	-.02392	-.01940

RUN NO. 203/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.350	100.180	.20144	.15580	-.03252	-.01925	-.00228	.00103	-4.99370	-.01200	-.09157
100.610	199.950	.20690	.15703	-.03572	-.01225	-.00027	.00190	-4.99310	-.02772	-.16288
101.510	401.010	.21440	.15954	-.04527	.00033	.00025	-.00138	-5.02210	-.05436	-.00093

RUN NO. 202/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.520	100.190	.20609	.16033	-.04105	-.01619	.00966	-.00048	-4.99550	-.01789	-.07798
200.270	199.700	.21025	.15995	-.04375	-.00955	.00641	-.00052	-4.98360	-.00965	-.04312
200.500	399.840	.21277	.15819	-.04666	-.00218	.00300	-.00177	-4.99130	-.00596	-.08842

RUN NO. 201/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
401.150	99.556	.20050	.15810	-.03800	.00519	-.00152	.00003	-4.98590	-.04493	-.15116
402.600	200.390	.20143	.15771	-.03896	.00518	-.00155	-.00039	-5.03070	-.08984	.01398
401.070	399.840	.19895	.15779	-.03750	.00601	-.00202	-.00048	-4.99010	-.01159	-.13338

```
                                         AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.               (RTU070)    ( 03 OCT 74  )

                 REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                      MACH    =      4.520   PTOTL  =      90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                                     ALPHA   =     10.300   BETA   =        .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                      DALPHA  =     -5.000   DBETA  =        .000
SCALE =        .0100                                                                       X       =    300.000

                               RUN NO.  205/ 0    RN/L =   5.85

     Y          Z          CN          CA         CLM         CY          CYN        CBL        DLTALF      DLTBTA      X
   11.245     98.645     .20104      .15619     -.03247     -.01480      .00152      .00343    -4.94300    -.06907  299.81000
   13.503    200.030     .21023      .15845     -.03809     -.00735      .00002      .00178    -4.99120    -.01499  299.80000
   12.446    401.240     .21941      .15839     -.04978     -.00154      .00133     -.00160    -5.03610    -.08513  300.13000

                               RUN NO.  206/ 0    RN/L =   5.86

     Y          Z          CN          CA         CLM         CY          CYN        CBL        DLTALF      DLTBTA      X
   98.792     99.558     .20329      .15784     -.03775     -.01376      .00436      .00118    -4.95670     .06037  299.92000
  100.240    199.750     .21210      .16037     -.04186     -.01431      .00581      .00113    -4.98560    -.01051  299.80000
  100.740    399.810     .20500      .15760     -.04143     -.00027      .00178      .00005    -4.98800    -.01878  299.95000

                               RUN NO.  207/ 0    RN/L =   5.85

     Y          Z          CN          CA         CLM         CY          CYN        CBL        DLTALF      DLTBTA      X
  201.360     99.012     .20903      .16057     -.04286     -.01930      .01266     -.00045    -4.95710    -.03722  299.79000
  200.880    200.140     .21361      .15864     -.04667     -.01107      .00851     -.00119    -4.98840    -.01031  299.87000
  196.570    399.160     .19634      .15738     -.03511      .00408     -.00079      .00078    -4.97520     .02235  299.85000

                               RUN NO.  208/ 0    RN/L =   5.85

     Y          Z          CN          CA         CLM         CY          CYN        CBL        DLTALF      DLTBTA      X
  400.350     99.896     .20061      .15845     -.03837      .00546     -.00166     -.00070    -4.99190    -.00649  299.97000
  400.040    200.810     .20044      .15847     -.03842      .00560     -.00178     -.00090    -5.03460     .01594  299.95000
  400.650    400.040     .19573      .15842     -.03467      .00644     -.00248      .00069    -4.99120    -.01073  299.91000
```

```
                                        AEDC/VA528(IA87)-O1ET151-ORB/ET W R/M SRB SEPAR.          (RTU071)   ( 03 OCT 74  )

              REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                 MACH    =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                                ALPHA   =    10.300   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                 DALPHA  =      .000   DBETA  =    -4.000
SCALE =       .0100                                                                   X       =      .000

                         RUN NO.  211/ 0    RN/L =   5.85

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  100.410   -100.160     .19762     .15530    -.04332    -.03616     .00088     .00268     .01479   -4.05040   -.06888
   99.947      -.025     .19604     .15362    -.03110    -.03988     .00208     .00431     .00930   -4.04000   -.17197
   99.256     99.997     .21522     .15456    -.03718    -.02875    -.00060     .00154     .01015   -4.01010   -.28381
  100.080    200.090     .21451     .15678    -.03729    -.01415    -.00086     .00263    -.00479   -4.04050   -.10850
  101.300    400.590     .21833     .15945    -.04757     .00082    -.00025    -.00209    -.01375   -4.06230   -.02228

                         RUN NO.  210/ 0    RN/L =   5.85

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  199.500   -100.090     .20946     .15928    -.04340    -.02823     .01307    -.00014     .01091   -4.02530   -.26807
  199.700      -.172     .20852     ..5636    -.04222    -.03126     .01339     .00014     .01158   -4.01700   -.14042
  200.090     99.773     .21248     .15850    -.04423    -.02760     .01330     .00011     .01151   -4.01770   -.03946
  197.170    200.690     .21740     .15986    -.04781    -.01822     .01057    -.00075    -.00840   -3.92250   -.20457
  199.880    399.610     .21661     .15829    -.04904    -.00273     .00298    -.00227     .01599   -3.99320   -.02201

                         RUN NO.  209/ 0    RN/L =   5.86

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  399.480   -101.300     .20637     .15916    -.04254    -.00065     .00353    -.00277     .08054   -3.94810   -.21608
  401.000      -.901     .20594     .15845    -.04212     .00005     .00248    -.00202     .05692   -4.03290   -.08175
  401.080     99.192     .20276     .15784    -.03970     .00228     .00064    -.00045     .03323   -4.05880   -.05617
  402.220    200.440     .20380     .15768    -.04060     .00331    -.00013    -.00073    -.02395   -4.03760    .02223
  400.650    399.940     .19947     .15776    -.03773     .00611    -.00210    -.00048     .01098   -3.99930    .04689
```

```
                         AEDC/VA528(IA87)-OIET181-ORB/ET W R/H SRB SEPAR.          (RTU072)   ( 03 OCT 74  )

          REFERENCE DATA                                                                   PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =     4.520  PTOTL  =    90.200
LREF  =  1290.3900 INCHES   YMRP  =      .0000 IN. YT                          ALPHA  =    10.300  BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          CALPHA =      .000  CBETA  =    -4.000
SCALE =       .0100                                                            X      =   300.000

                       RUN NO.  212/ 0    RN/L =   5.86

      Y          Z         CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   100.240   -100.540    .20798     .15594    -.04390    -.02024     .00686     .00090     .02999   -4.03340  300.06000
   101.010     -2.370    .20386     .15580    -.03890    -.02602     .00907     .00206     .09008   -4.11970  300.03000
   103.240     99.443    .21010     .15699    -.04062    -.02285     .00793     .00229     .04194   -4.11100  300.17000
    99.215    199.730    .21938     .16034    -.04513    -.01691     .00640     .00120     .01238   -3.99940  299.84000
    99.922    399.600    .20503     .15765    -.04109    -.00022     .00169     .00043     .01956   -4.00210  299.93000

                       RUN NO.  213/ 0    RN/L =   5.86

      Y          Z         CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   199.940   -100.060    .21490     .16097    -.04760    -.02352     .01365    -.00218     .01604   -4.01150  299.99000
   198.350     -1.003    .20874     .15832    -.04247    -.02810     .01527    -.00076     .04378   -3.97050  299.86000
   199.590     99.963    .21328     .15962    -.04519    -.02694     .01560    -.00010     .01686   -4.00860  299.80000
   199.710    200.160    .22005     .15847    -.05088    -.01551     .01086    -.00160     .00484   -4.00360  299.82000
   199.900    399.580    .19719     .15726    -.03576     .00319    -.00018     .00079     .01536   -4.00310  299.94000

                       RUN NO.  214/ 0    RN/L =   5.86

      Y          Z         CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   400.470   -100.030    .20498     .15881    -.04179     .00444    -.00062    -.00196     .01094   -3.99120  299.89000
   400.170      -.164    .20486     .15837    -.04165     .00474    -.00108    -.00175     .01882   -3.99150  299.92000
   400.280    101.240    .20262     .15823    -.03995     .00519    -.00145    -.00114    -.06360   -4.00150  299.94000
   398.730    200.490    .20190     .15844    -.03943     .00551    -.00170    -.00124    -.01690   -3.94090  299.99000
   398.020    400.260    .19559     .15834    -.03465     .00621    -.00244     .00065     .00299   -3.91120  299.77000
```

AEDC/VA528(IA87)-O1ET151-ORB/ET W R/H SRB SEPAR. (RTU073) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = 10.300 BETA = .000
DALPHA = 5.000 DBETA = -4.000
X = 300.000

RUN NO. 217/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
97.937	-99.382	.19759	.15900	-.03556	-.02791	.00919	.00342	4.97170	-3.95900	299.57000
98.155	-.465	.20917	.15552	-.04161	-.02824	.00917	.00223	5.05260	-4.00160	299.76000
100.910	99.651	.20981	.15759	-.03912	-.01964	.00542	.00313	5.02540	-4.04780	300.06000
99.361	200.010	.22207	.16143	-.04680	-.01501	.00568	.00079	4.99270	-3.98670	299.81000
101.710	400.940	.20353	.15800	-.03992	.00052	.00135	.00071	4.98120	-4.06880	300.02000

RUN NO. 216/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
199.330	-99.991	.20794	.15833	-.04235	-.02991	.01665	-.00066	5.01450	-3.99900	299.79000
202.590	.524	.21146	.15820	-.04423	-.03225	.01755	-.00065	4.99260	-4.09810	300.12000
200.580	102.140	.21618	.15992	-.04699	-.02770	.01605	.00002	4.91780	-4.01030	299.86000
196.860	201.560	.22123	.15823	-.03168	-.01370	.00979	-.00180	4.96360	-3.90830	299.70000
200.370	399.650	.19738	.15729	-.03583	.00355	-.00046	.00081	5.01770	-4.01180	300.07000

RUN NO. 215/ 0 RN/L = 5.56

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.770	-101.400	.20581	.15836	-.04244	.00432	-.00069	-.00202	5.08320	-4.02780	300.00000
401.750	-1.160	.20447	.15815	-.04139	.00489	-.00122	-.00146	5.05640	-4.05850	300.10000
402.680	98.986	.20330	.15796	-.04059	.00531	-.00138	-.00137	5.05110	-4.07110	300.13000
400.910	200.320	.20147	.15805	-.03927	.00561	-.00176	-.00118	4.99880	-3.95040	299.93000
399.820	400.040	.19571	.15834	-.03468	.00641	-.00250	.00068	5.00690	-3.99540	299.93000

ORIGINAL PAGE IS
OF POOR QUALITY

```
                                          AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.               (RTU074)    ( 03 OCT 74  )

               REFERENCE DATA                                                                              PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                                          MACH   =      4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YT                                          ALPHA  =     10.300   BETA   =      .000
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                                          DALPHA =      5.000   DBETA  =    -4.000
SCALE =        .0100                                                                            X      =       .000

                             RUN NO.  218/ 0    RN/L =   5.85

      Y          Z          CN         CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA       X
    99.161    -99.721     .19235     .15449    -.03441    -.04807     .00400     .00534    5.00190   -4.01410    -.47753
   100.160      -.461     .20607     .15340    -.03432    -.03772    -.00134     .00382    5.01650   -4.03620     .31028
    99.929     99.475     .21601     .15426    -.03628    -.02112    -.00464     .00154    5.02090   -4.02070     .32889
    99.821    199.100     .21422     .15821    -.03797    -.00910    -.00228     .00228    5.04070   -4.00160     .50543
   100.000    399.680     .21770     .15918    -.04771     .00163    -.00074    -.00217    5.02290   -4.00970     .50342

                             RUN NO.  219/ 0    RN/L =   5.86

      Y          Z          CN         CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA       X
   199.150   -100.150     .21618     .15929    -.04759    -.03509     .01393    -.00018    5.02160   -4.00780     .35818
   201.410     -2.053     .21663     .15839    -.04725    -.03559     .01507    -.00005    5.08010   -4.09910     .64638
   199.860     99.705     .21448     .15862    -.04499    -.02758     .01279     .00068    5.02220   -4.01880     .31147
   199.940    199.680     .21417     .15970    -.04533    -.01325     .00720     .00044    5.02350   -4.01240     .35118
   201.190    398.760     .21601     .15770    -.04908    -.00249     .00265    -.00224    5.04520   -4.05420     .57495

                             RUN NO.  220/ 0    RN/L =   5.86

      Y          Z          CN         CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA       X
   400.660   -100.370     .20698     .15862    -.04293    -.00219     .00439    -.00173    5.02450   -4.00950     .43757
   400.050       .458     .20435     .15802    -.04076    -.00090     .00302    -.00122    4.98050   -3.97670     .24192
   399.280    100.460     .20337     .15766    -.04017     .00095     .00148    -.00052    4.99150   -3.96610     .29223
   399.750    199.920     .20470     .15769    -.04126     .00221     .00059    -.00091    5.02260   -3.99100     .30700
   400.730    398.960     .19824     .15763    -.03680     .00569    -.00218    -.00016    5.04910   -4.06680     .43898
```

```
                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR.              (RTU075)    ( 03 OCT 74  )

              REFERENCE DATA                                                                         PARAMETRIC DATA

SREF   =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                                  MACH    =     4.520    FTOTL   =     90.200
LREF   =  1290.3000 INCHES    YMRP  =      .0000 IN. YT                                  ALPHA   =    10.300    BETA    =       .000
BREF   =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                                  CALPHA  =    -5.000    DBETA   =     -4.000
SCALE  =       .0100                                                                     X       =      .000

                         RUN NO.   223/ 0    RN/L =   5.85

      Y          Z          CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
    99.600    100.110     .20652     .15556    -.03341    -.03163     .00042     .00171   -4.99340   -4.01710   -.13392
   100.570    199.940     .21347     .15698    -.04071    -.02558     .00371     .00143   -5.00210   -4.05120   -.23953
   101.010    400.990     .21997     .15954    -.04828    -.00511     .00323    -.00120   -5.00890   -4.04180    .01012

                         RUN NO.   222/ 0    RN/L =   5.85

      Y          Z          CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   199.110    100.040     .21353     .15876    -.04544    -.02735     .01330    -.00124   -4.99430   -4.01040   -.17964
   198.190    201.960     .21634     .15987    -.04705    -.02253     .01275    -.00064   -5.09280   -3.93550    .00589
   200.180    399.800     .21666     .15833    -.04878    -.00355     .00336    -.00203   -4.98290   -4.00390   -.11003

                         RUN NO.   221/ 0    RN/L =   5.85

      Y          Z          CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   401.470     98.940     .20562     .15814    -.04196     .00169     .00112    -.00166   -4.93570   -4.02960   -.12423
   400.190    199.860     .20315     .15784   [illegible]  .00334    -.00011    -.00060   -4.98540   -3.99800   -.12905
   401.170    399.150     .20100     .15771   [illegible]  .00535    -.00179    -.00106   -4.98470   -4.01210    .09249

                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR.              (RTU076)    ( 03 OCT 74  )

              REFERENCE DATA                                                                         PARAMETRIC DATA

SREF   =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                                  MACH    =     4.520    FTOTL   =     90.200
LREF   =  1290.3000 INCHES    YMRP  =      .0000 IN. YT                                  ALPHA   =    10.300    BETA    =       .000
BREF   =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                                  CALPHA  =    -5.000    DBETA   =     -4.000
SCALE  =       .0100                                                                     X       =   300.000

                         RUN NO.   224/ 0    RN/L =   5.95

      Y          Z          CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   101.220     99.794     .20965     .15692    -.04098    -.02400     .00866     .00135   -4.94520   -4.05680  300.19000
    99.561    200.090     .21917     .15943    -.04526    -.02205     .00890     .00119   -5.00070   -3.99160  299.87000
   100.590    399.770     .20973     .15711    -.04462    -.00257     .00300    -.00025   -4.98900   -4.01450  299.95000

                         RUN NO.   225/ 0    RN/L =   5.86

      Y          Z          CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   200.290     98.721     .21217     .15952    -.04449    -.02699     .01549    -.00068   -4.95700   -4.00820  299.82000
   199.410    200.120     .22171     .15945    -.05166    -.01893     .01276    -.00178   -4.99410   -3.99775  299.83000
   198.690    398.600     .19841     .15719    -.03672     .00145     .00077     .00058   -4.96410   -3.94230  299.79000
```

```
                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.                (RTU076)    ( 03 OCT 74  )

            REFERENCE DATA                                                                              PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                                       MACH   =      4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YT                                       ALPHA  =     10.300   BETA   =      .000
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                                       DALPHA =     -5.000   DBETA  =    -4.000
SCALE =        .0100                                                                          X      =    300.000

                        RUN NO.  226/ 0    RN/L =   5.85

     Y          Z          CN         CA        CLM         CY        CYN        CBL       DLTALF     DLTBTA      X
  400.740     99.930     .20325     .15836    -.04038     .00482    -.00127    -.00139   -4.98840   -4.00610  300.02000
  400.690    201.160     .20206     .15832    -.03969     .00527    -.00159    -.00135   -5.06560   -4.05670  300.06000
  398.520    400.600     .19580     .15849    -.03469     .00617    -.00245     .00065   -5.02360   -3.89970  299.88000

                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.                (RTU077)    ( 03 OCT 74  )

            REFERENCE DATA                                                                              PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                                       MACH   =      4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YT                                       ALPHA  =     10.300   BETA   =      .000
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                                       DALPHA =       .000   DBETA  =    -8.000
SCALE =        .0100                                                                          X      =       .000

                        RUN NO.  228/ 0    RN/L =   5.06

     Y          Z          CN         CA        CLM         CY        CYN        CBL       DLTALF     DLTBTA      X
  200.610   -100.200     .21696     .15702    -.04979    -.04411     .01673     .00063     .03036   -8.03900    -.28511
  200.960      -.133     .22015     .15693    -.04924    -.05076     .02016     .00047     .01188   -8.04190    -.20537
  201.130     99.663     .22888     .15798    -.05333    -.04211     .01793    -.00020     .01956   -8.03820    -.02013
  201.000    199.860     .22867     .15963    -.05317    -.02963     .01443    -.00041     .01313   -8.03790     .05383
  200.150    399.670     .22143     .15844    -.05163    -.00451     .00360    -.00254     .01938   -7.99280     .04817

                        RUN NO.  227/ 0    RN/L =   5.85

     Y          Z          CN         CA        CLM         CY        CYN        CBL       DLTALF     DLTBTA      X
  399.670   -100.140     .21084     .15829    -.04557    -.00610     .00743    -.00349     .01547   -7.99020    -.09579
  400.670     -1.294     .21301     .15739    -.04732    -.00446     .00588    -.00315     .08561   -8.03210    -.03945
  401.310     99.307     .20899     .15712    -.04460    -.00197     .00381    -.00230     .03837   -8.04850     .01632
  403.130    199.410     .20619     .15765    -.04222     .00027     .00193    -.00115     .02589   -8.09640     .27379
  400.020    399.770     .20175     .15746    -.03956     .00497    -.00135    -.00120     .01275   -7.99110    -.14365
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                                        AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.              (RTU078)    ( 03 OCT 74  )

            REFERENCE DATA                                                                           PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                               MACH   =      4.520  PTOTL  =      90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                              ALPHA  =     10.300  BETA   =        .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                               DALPHA =       .000  DBETA  =      -8.000
SCALE =        .0100                                                                X      =    300.000

                              RUN NO.  229/ 0    RN/L =   5.85

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA     X
   201.570   -100.180     .22018      .15724     -.05171     -.03416      .01903     -.00337      .01672    -8.04210  300.04000
   197.490     -1.280     .21401      .15797     -.04598     -.03815      .01970     -.00058      .05490    -7.92660  299.44000
   201.320     99.981     .22024      .15882     -.04918     -.03720      .02003     -.00031      .01380    -8.03420  299.76000
   199.930    199.940     .23063      .15948     -.05723     -.02475      .01562     -.00205      .01029    -8.01260  299.77000
   202.030    399.250     .19948      .15725     -.03739      .00062      .00147      .00072      .00896    -8.07660  300.18000

                              RUN NO.  230/ 0    RN/L =   5.86

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA     X
   399.750   -100.160     .20982      .15813     -.04532      .00337      .00016     -.00261      .01743    -7.99050  300.00000
   399.850      -.808     .21127      .15790     -.04640      .00412     -.00041     -.00294      .05609    -8.03050  299.95000
   399.420    101.010     .20670      .15778     -.04317      .00469     -.00104     -.00210     -.05766    -7.98480  299.91000
   398.410    200.490     .20390      .15794     -.04106      .00497     -.00141     -.00177     -.02161    -7.91780  299.73000
   399.970    399.730     .19565      .15821     -.03467      .00615     -.00245      .00065      .01735    -7.99920  299.78000

                                        AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.              (RTU079)    ( 03 OCT 74  )

            REFERENCE DATA                                                                           PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                               MACH   =      4.520  PTOTL  =      90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                              ALPHA  =     10.300  BETA   =        .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                               DALPHA =      5.000  DBETA  =      -8.000
SCALE =        .0100                                                                X      =    300.000

                              RUN NO.  232/ 0    RN/L =   5.85

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA     X
   200.560   -100.080     .21287      .16046     -.04518     -.04017      .02157     -.00050     5.01540    -8.02100  299.71000
   201.010      -.165     .21818      .15856     -.04838     -.04200      .02131     -.00038     5.01490    -8.03250  300.00000
   200.600     99.467     .22291      .15938     -.05061     -.03659      .01936      .00001     5.02340    -8.03170  300.06000
   200.980    199.590     .22926      .15876     -.05643     -.02140      .01378     -.00205     5.02330    -8.01460  300.01000
   201.850    399.440     .19865      .15711     -.03684      .00123      .00098      .00081     5.02220    -8.02990  300.19000
```

```
                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.            (RTU079)   ( 03 OCT 74  )

          REFERENCE DATA                                                                           PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                               ALPHA  =    10.300   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                DALPHA =     5.000   DBETA  =    -8.000
SCALE =       .0100                                                                  X      =   300.000

                         RUN NO.  231/ 0    RN/L =   5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   400.540   -101.290     .21106     .15785    -.04625     .00358     .00008    -.00263    5.07580   -8.02280  299.99000
   401.760     -1.185     .20982     .15743    -.04553     .00438    -.00073    -.00259    5.06300   -8.07120  300.29000
   402.560     99.028     .20585     .15778    -.04238     .00486    -.00119    -.00172    5.04470   -8.08450  300.22000
   402.720    199.920     .20362     .15771    -.04104     .00514    -.00146    -.00179    5.01250   -6.03070  300.27000
   400.070    399.990     .19570     .15840    -.03465     .00628    -.00247     .00066    5.01600   -7.99970  299.82000

                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.            (RTU080)   ( 03 OCT 74  )

          REFERENCE DATA                                                                           PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                               ALPHA  =    10.300   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                DALPHA =     5.000   DBETA  =    -8.000
SCALE =       .0100                                                                  X      =      .000

                         RUN NO.  233/ 0    RN/L =   5.85

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   201.120   -100.130     .21916     .15740    -.04969    -.05757     .02175     .00064    5.01710   -8.05120     .38705
   200.860      -.183     .22741     .15768    -.05242    -.05073     .01823     .00045    5.02010   -8.04590     .23080
   199.900     99.635     .22578     .15882    -.05003    -.03624     .01394     .00109    5.02420   -8.02580     .33793
   201.170    199.740     .22709     .16012    -.05266    -.02350     .01164    -.00074    5.01850   -8.03670     .36625
   199.520    399.550     .22167     .15836    -.05203    -.00389     .00330    -.00266    5.05930   -7.97980     .33125

                         RUN NO.  234/ 0    RN/L =   5.85

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   400.180   -100.360     .21212     .15765    -.04647    -.00878     .00914    -.00343    5.02090   -8.01070     .62745
   399.140       .775     .21129     .15725    -.04612    -.00571     .00665    -.00283    4.96880   -7.94510     .19492
   398.560    100.310     .20566     .15746    -.04177    -.00388     .00480    -.00105    4.99040   -7.93830     .25933
   397.940    200.280     .20643     .15735    -.04250    -.00104     .00283    -.00116    4.99080   -7.93430     .19026
   399.730    399.120     .20089     .15732    -.03886     .00480    -.00134    -.00092    5.04650   -8.06800     .41668
```

```
                                        AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.              (RTU081)   ( 03 OCT 74  )

              REFERENCE DATA                                                                            PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                     MACH    =     4.520   PTOTL   =    90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                                    ALPHA   =    10.300   BETA    =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                     DALPHA  =    -5.000   DBETA   =    -8.000
SCALE =        .0100                                                                      X       =      .000

                          RUN NO.  236/ 0     RN/L =    5.85

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
  200.770     99.888     .22924      .15812     -.05490     -.04671      .02071     -.00161    -4.98810    -8.03530    -.31526
  200.900    199.690     .22954      .15892     -.05373     -.04071      .02035     -.00035    -4.98640    -8.03890    -.04092
  201.640    399.680     .22350      .15762     -.05284     -.00865      .00622     -.00201    -4.98030    -8.02300     .06628

                          RUN NO.  235/ 0     RN/L =    5.86

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
  399.810    100.060     .21443      .15749     -.04852     -.00265      .00439     -.00350    -4.99030    -7.98650    -.02130
  399.860    199.830     .20883      .15737     -.04442     -.00018      .00230     -.00210    -4.98260    -7.99010    -.09857
  399.670    399.850     .20358      .15734     -.04097      .00429     -.00094     -.00168    -4.98560    -7.98930    -.12946

                                        AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.              (RTU082)   ( 03 OCT 74  )

              REFERENCE DATA                                                                            PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                     MACH    =     4.520   PTOTL   =    90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                                    ALPHA   =    10.300   BETA    =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                     DALPHA  =    -5.000   DBETA   =    -8.000
SCALE =        .0100                                                                      X       =   300.000

                          RUN NO.  237/ 0     RN/L =    5.86

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
  201.000     98.134     .21883      .15912     -.04841     -.03727      .01998     -.00052    -4.94590    -8.04230  299.67000
  200.580    199.880     .23288      .16022     -.05857     -.03053      .01880     -.00234    -4.98680    -8.01000  299.75000
  200.110    399.850     .20279      .15613     -.04036     -.00058      .00217      .00003    -4.98560    -7.99480  299.94000

                          RUN NO.  238/ 0     RN/L =    5.86

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
  400.230     99.878     .21080      .15775     -.04637      .00411     -.00052     -.00333    -4.98660    -7.99750  300.17000
  400.170    200.360     .20410      .15781     -.04135      .00488     -.00125     -.00183    -5.03420    -8.04050  300.09000
  399.970    399.810     .19576      .15831     -.03469      .00630     -.00249      .00067    -4.99110    -7.99710  300.00000
```

```
                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR.                (RTU083)    ( 03 OCT 74  )

            REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                              MACH    =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                             ALPHA   =     -.400   BETA   =     5.400
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                              CALPHA  =      .000   CBETA  =      .000
SCALE =       .0100                                                                X       =      .000

                    RUN NO.  243/ 0    RN/L =   5.86

      Y         Z         CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
    10.149   -99.945   -.05839     .18986     .01854    -.18630     .03382    -.01924     .04536     .01764     .01927
     7.601     1.965   -.06743     .18704     .02722    -.18180     .03524    -.01980    -.03516     .08529    -.08030
     9.927   102.010   -.06613     .18994     .02865    -.18283     .03754    -.01921    -.04221     .01411    -.01345
    10.528   199.610   -.05723     .19182     .02547    -.18807     .04383    -.01962     .05870    -.01094     .02643
    10.843   399.860   -.05487     .18963     .02137    -.17168     .04411    -.01704     .05360    -.01536    -.02564

                    RUN NO.  242/ 0    RN/L =   5.85

      Y         Z         CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
    99.209  -100.720   -.05759     .18834     .01886    -.18354     .04126    -.02053     .05632     .06432     .01236
   102.110    -1.889   -.06440     .18880     .02540    -.18695     .04361    -.02052     .11303    -.07596    -.03489
   100.400   100.150   -.05844     .19282     .02337    -.18506     .04468    -.01941     .04102    -.00997    -.00122
   103.650   200.180   -.04856     .19287     .01660    -.17977     .04654    -.01943     .05773    -.09555     .01415
   101.820   401.320   -.05690     .19008     .02165    -.17044     .04392    -.01707    -.01969    -.06476     .02147

                    RUN NO.  241/ 0    RN/L =   5.86

      Y         Z         CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   200.610  -100.090   -.06309     .19027     .02441    -.18032     .04833    -.01942     .05465    -.00555     .04429
   199.810     -.297   -.06047     .19200     .02332    -.17977     .04816    -.01832     .08797     .01083    -.07558
   200.720   100.910   -.05615     .19246     .02067    -.17783     .04744    -.01834     .00578    -.02452    -.03229
   200.350   200.910   -.05113     .19167     .01700    -.17472     .04586    -.01910    -.00591    -.01288     .06992
   198.770   399.490   -.05874     .18983     .02199    -.16853     .04321    -.01714     .05803     .04701     .02222

                    RUN NO.  240/ 0    RN/L =   5.85

      Y         Z         CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   400.010  -100.260   -.06280     .19004     .02467    -.16949     .04473    -.01758     .04781     .03364    -.05818
   400.310      .021   -.06126     .18996     .02355    -.16811     .04334    -.01730     .04065    -.00382    -.06671
   400.350    99.951   -.05895     .19017     .02185    -.16758     .04315    -.01798     .04145    -.00760    -.10993
   400.960   200.090   -.05881     .19005     .02157    -.16613     .04201    -.01838     .04337    -.01507     .03015
   400.430   400.340   -.06246     .19019     .02442    -.16441     .04060    -.01729     .03276    -.00107    -.00588
```

```
                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.              (RTU084)    ( 03 OCT 74  )

              REFERENCE DATA                                                                         PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                MACH   =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                               ALPHA  =      -.400   BETA   =      5.400
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                CALPHA =       .000   CBETA  =       .000
SCALE =       .0100                                                                  X      =    300.000

                        RUN NO.  244/ 0    RN/L =   5.85

    Y          Z          CN          CA          CLM        CY          CYN        CBL        DLTALF      DLTBTA      X
  12.879    -101.270    -.05607     .19068      .01887     -.19056     .04860     -.02068      .09548     -.06781   299.93000
  12.795       -.164    -.06027     .19043      .02261     -.18552     .04624     -.01951      .04055     -.08844   300.02000
  12.359      99.553    -.05468     .19313      .02047     -.18323     .04679     -.01956      .06211     -.08677   300.02000
  10.515     200.020    -.04518     .19148      .01392     -.17938     .04547     -.02032      .04366     -.00471   300.11000
  12.340     401.580    -.05182     .18971      .01866     -.17245     .04519     -.01700     -.01057     -.05699   300.15000

                        RUN NO.  245/ 0    RN/L =   5.85

    Y          Z          CN          CA          CLM        CY          CYN        CBL        DLTALF      DLTBTA      X
 100.750    -100.970    -.05039     .19033      .01506     -.19018     .05067     -.02282      .08372      .01790   299.97000
  98.243       1.105    -.05863     .19170      .02264     -.18675     .04884     -.01869     -.00027      .07681   300.07000
  99.291     100.180    -.04805     .19485      .01659     -.18575     .04947     -.01938      .07245      .02531   299.97000
 101.020     201.670    -.03657     .19167      .00704     -.18353     .04894     -.02191     -.01931     -.01929   300.03000
 100.740     399.930    -.05907     .18923      .02208     -.16647     .04210     -.01721      .04742     -.01439   299.91000

                        RUN NO.  246/ 0    RN/L =   5.86

    Y          Z          CN          CA          CLM        CY          CYN        CBL        DLTALF      DLTBTA      X
 199.980    -100.930    -.06071     .19284      .02314     -.18199     .05228     -.01822      .06591      .01894   299.96000
 201.830       -.339    -.05576     .19281      .01996     -.18187     .05163     -.01819      .03824     -.04010   299.95000
 203.010      98.818    -.04922     .19144      .01515     -.17805     .04907     -.01932      .12049     -.06795   300.08000
 202.010     199.930    -.05694     .18935      .02043     -.17147     .04512     -.01796      .06034     -.03527   300.03000
 200.870     398.420    -.06256     .18969      .02444     -.16415     .04057     -.01729      .10514     -.00972   300.01000

                        RUN NO.  247/ 0    RN/L =   5.86

    Y          Z          CN          CA          CLM        CY          CYN        CBL        DLTALF      DLTBTA      X
 401.000    -100.230    -.06215     .19052      .02416     -.16499     .04101     -.01737      .04579     -.01625   299.94000
 400.660       -.052    -.06051     .19062      .02296     -.16536     .04139     -.01791      .05215     -.01481   299.96000
 401.220     100.330    -.05959     .19049      .02216     -.16541     .04138     -.01835      .02382     -.06855   300.02000
 400.750     199.975    -.06248     .19034      .02441     -.16460     .04064     -.01732      .04066     -.00484   299.99000
 399.280     399.670    -.06249     .19035      .02445     -.16468     .04066     -.01733      .06085      .03597   299.94000
```

AEDC/VA528(IA87)-O1ET151-ORB/ET W R/H SRB SEPAR. (RTU085) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.400 BETA = 5.400
DALPHA = 5.000 DBETA = .000
X = 300.000

RUN NO. 251/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
9.057	-98.626	-.06542	.18936	.02522	-.18770	.04515	-.01858	4.97520	-.00238	299.99000
8.654	1.324	-.06337	.19180	.02601	-.17769	.04154	-.01767	4.99140	.07261	299.84000
8.311	100.640	-.05253	.19351	.01946	-.17623	.04367	-.01986	5.01560	.09480	299.95000
8.546	199.030	-.05312	.19113	.01929	-.17367	.04275	-.01874	5.06810	.07867	300.05000
10.873	399.700	-.05435	.18979	.01961	-.16922	.04349	-.01714	5.04790	-.01134	300.11000

RUN NO. 250/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.710	-100.060	-.05763	.18984	.02092	-.18935	.04909	-.01980	5.04260	-.00397	300.07000
102.220	-1.149	-.06096	.19235	.02497	-.18529	.04783	-.01736	5.07460	-.08076	300.07000
99.747	98.675	-.04524	.19444	.01451	-.18125	.04703	-.01996	5.10410	.03158	300.26000
100.610	199.740	-.04653	.19061	.01408	-.17919	.04683	-.01946	5.04760	.00633	300.04000
101.790	400.960	-.06072	.18950	.02324	-.16517	.04116	-.01728	4.99080	-.06533	299.95000

RUN NO. 249/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.780	-100.050	-.06057	.19284	.02330	-.18286	.05237	-.01741	5.04940	-.00900	300.05000
201.880	.313	-.05590	.19259	.02018	-.18114	.05045	-.01750	5.04630	-.06228	299.95000
200.270	101.800	-.04897	.19103	.01484	-.17719	.04844	-.01945	4.95690	.00049	299.90000
198.910	200.630	-.05978	.18964	.02263	-.16974	.04408	-.01711	4.98540	.04381	300.02000
200.760	399.680	-.06231	.18966	.02433	-.16435	.04060	-.01730	5.04960	-.01420	300.03000

RUN NO. 248/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
399.910	-100.740	-.06158	.19053	.02379	-.16524	.04105	-.01753	5.07180	.02392	300.02000
400.700	-.224	-.06014	.19064	.02277	-.16560	.04144	-.01803	5.03810	-.01820	300.04000
401.300	100.140	-.06050	.19025	.02292	-.16489	.04100	-.01799	5.02940	-.03291	300.02000
401.840	200.260	-.06227	.19025	.02436	-.16474	.04068	-.01734	5.02900	-.03850	300.18000
400.590	399.850	-.06228	.19007	.02438	-.16453	.04061	-.01731	5.04000	-.00514	300.14000

```
                         AEDC/VA528(IA87)-Q1ET151-ORB/ET W R/H SRB SEPAR.          (RTU086)   ( 03 OCT 74  )

          REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                      MACH    =     4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                     ALPHA   =     -.400   BETA   =      5.400
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                      CALPHA  =     5.000   DBETA  =       .000
SCALE =       .0100                                                        X       =      .000

                         RUN NO.  252/ 0    RN/L =   5.86

      Y          Z          CN         CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA       X
   10.416    -99.749    -.06963     .18816     .02696    -.18404    .03067   -.01702   5.03400     .01104    -.07025
   10.208      -.015    -.07171     .18681     .03187    -.17683    .03295   -.01829   5.04090     .00632    -.13208
   10.451    100.060    -.07137     .18885     .03307    -.17689    .03643   -.01789   5.04140    -.00856    -.12547
    9.374    199.730    -.05410     .19255     .02291    -.17989    .04206   -.01984   5.04180     .02189    -.09740
    9.488    398.120    -.05750     .19023     .02253    -.16911    .04284   -.01715   5.11210     .05675     .21618

                         RUN NO.  253/ 0    RN/L =   5.86

      Y          Z          CN         CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA       X
  100.790   -100.100    -.06819     .18842     .02724    -.18436    .04013   -.01826   5.04470    -.01104     .00514
  101.370      1.378    -.06694     .18883     .02805    -.18322    .04071   -.01901   4.98810    -.03826    -.05087
  100.760     99.641    -.06046     .19203     .02524    -.18070    .04315   -.01858   5.05290    -.01294     .02139
   99.319    199.610    -.04968     .19250     .01724    -.17479    .04429   -.01943   5.04720     .00222    -.15556
  100.330    399.680    -.05761     .19011     .02177    -.16876    .04306   -.01716   5.04960    -.00884    -.02021

                         RUN NO.  254/ 0    RN/L =   5.86

      Y          Z          CN         CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA       X
  200.450   -101.530    -.06318     .19032     .02492    -.18043    .04770   -.01800   5.10900     .01542     .15250
  201.420     -1.266    -.05988     .19198     .02330    -.17937    .04737   -.01772   5.08870    -.01656     .16069
  201.030     98.850    -.05689     .19223     .02137    -.17489    .04528   -.01783   5.07740    -.03192     .04458
  200.720    199.800    -.05218     .19133     .01758    -.17305    .04496   -.01909   5.04270    -.00374     .06577
  198.880    398.420    -.05934     .18963     .02240    -.16693    .04228   -.01724   5.09840     .07000     .09395

                         RUN NO.  255/ 0    RN/L =   5.86

      Y          Z          CN         CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA       X
  400.360   -100.230    -.06194     .18994     .02410    -.16964    .04438   -.01746   5.03760    -.00938    -.06306
  400.380      -.206    -.06090     .18982     .02331    -.16815    .04330   -.01729   5.05280    -.00818    -.09697
  400.430     99.650    -.05905     .19022     .02189    -.16760    .04293   -.01803   5.06140    -.00095     .08067
  399.730    199.730    -.05987     .18974     .02248    -.16564    .04146   -.01806   5.05150     .00285     .02541
  399.980    399.720    -.06243     .19042     .02443    -.16490    .04075   -.01738   5.04270    -.06809     .06904
```

```
                              AEDC/VA526(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR.            (RTU087)   ( 03 OCT 74  )

            REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                         MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                         ALPHA  =     -.400   BETA   =     5.400
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                         DALPHA =    -5.000   DBETA  =      .000
SCALE =       .0100                                                           X      =      .000

                        RUN NO.  259/ 0    RN/L =   5.85

     Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF      DLTBTA       X
   11.635    101.100    -.06193      .18950     .02448    -.19452     .04200    -.02163   -5.00710    -.06210     .12194
   10.396    199.650    -.05333      .19279     .02260    -.19733     .04488    -.02034   -4.94170    -.00367    -.02973
   10.813    399.690    -.05019      .18991     .01983    -.18056     .04818    -.01685   -4.93950    -.02192    -.03049

                        RUN NO.  258/ 0    RN/L =   5.85

     Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF      DLTBTA       X
  101.140     99.989    -.05763      .19207     .02198    -.19184     .04700    -.02142   -4.96420    -.02695    -.04208
  100.670    200.000    -.043_8      .19547     .01340    -.19064     .05091    -.02113   -4.95650    -.01177     .04268
  100.220    401.530    -.05509      .18960     .02093    -.17422     .04577    -.01698   -5.01480     .00938     .12855

                        RUN NO.  257/ 0    RN/L =   5.85

     Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF      DLTBTA       X
  200.960    100.040    -.05121      .19373     .01718    -.18344     .05099    -.01987   -4.95620    -.01010    -.12506
  199.410    200.540    -.04926      .19253     .01592    -.17855     .04783    -.01930   -4.97800     .01106    -.02043
  199.440    400.370    -.05766      .18982     .02156    -.17083     .04451    -.01706   -5.00230    -.02416    -.07551

                        RUN NO.  256/ 0    RN/L =   5.86

     Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF      DLTBTA       X
  400.180     99.998    -.05823      .19059     .02149    -.16938     .04419    -.01811   -4.96900    -.00001    -.10359
  401.050    200.040    -.05700      .19006     .02039    -.16753     .04307    -.01866   -4.96360    -.02891    -.02676
  400.460    400.080    -.06234      .19009     .02440    -.16436     .04054    -.01729   -4.96160    -.00311     .00714
```

```
                              AEDC/VA523(IA87)-O1ET:S1-ORB/ET W R/H SRB SEPAR.          (RTU088)   ( 03 OCT 74  )

           REFERENCE DATA                                                                 PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                     MACH   =     4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                     ALPHA  =     -.400   BETA   =      5.400
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                     DALPHA =    -5.000   DBETA  =       .000
SCALE =       .0100                                                       X      =   300.000

                   RUN NO.  260/ 0    RN/L =   5.85

    Y         Z        CN         CA        CLM        CY        CYN       CBL       DLTALF     DLTBTA      X
  12.094    99.833   -.04926    .19259    .01536   -.19164    .05019   -.02150   -4.96140   -.04895  300.11000
  10.783   200.110   -.03890    .19341    .01070   -.19017    .05060   -.02179   -4.96040   -.00746  300.04000
  10.535   399.780   -.04835    .18973    .01771   -.17856    .04809   -.01683   -4.94590   -.00441  300.01000

                   RUN NO.  261/ 0    RN/L =   5.85

    Y         Z        CN         CA        CLM        CY        CYN       CBL       DLTALF     DLTBTA      X
 102.070   100.190   -.04822    .19522    .01633   -.19120    .05213   -.02008   -4.98100   -.03773  300.02000
 100.840   200.570   -.02955    .19417    .00329   -.19013    .05244   -.02324   -4.94130   -.01973  300.00000
 100.530   399.660   -.05640    .18944    .02038   -.17007    .04420   -.01713   -4.94900   -.01346  299.90000

                   RUN NO.  262/ 0    RN/L =   5.85

    Y         Z        CN         CA        CLM        CY        CYN       CBL       DLTALF     DLTBTA      X
 200.740   100.010   -.04570    .19266    .01288   -.18227    .05135   -.01999   -4.95650   -.01111  299.96000
 202.900   199.580   -.05104    .18976    .01596   -.17524    .04763   -.01945   -4.90930   -.04393  299.97000
 200.270   397.960   -.06148    .18946    .02383   -.16493    .04100   -.01728   -4.89530   -.01166  299.85000

                   RUN NO.  263/ 0    RN/L =   5.86

    Y         Z        CN         CA        CLM        CY        CYN       CBL       DLTALF     DLTBTA      X
 400.360   100.030   -.05855    .19073    .02158   -.16553    .04162   -.01856   -4.95490   -.00868  299.96000
 401.250   200.150   -.06138    .19036    .02363   -.16516    .04092   -.01772   -4.96980   -.06867  300.03000
 400.060   399.750   -.06228    .19050    .02441   -.16476    .04067   -.01735   -4.94470    .00802  299.98000
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                          AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR.           (RTU089)    ( 03 OCT 74  )

         REFERENCE DATA                                                                         PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH    =     4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                          ALPHA   =     -.400   BETA   =      5.400
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          CALPHA  =      .000   CBETA  =     -4.000
SCALE =       .0100                                                            X       =      .000

                        RUN NO.  266/ 0    RN/L =   5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
    99.632   -101.500    -.05329     .18901     .01484    -.20079     .04610    -.02011     .11995   -3.89790   -.11118
   100.780       .038    -.06201     .18784     .02285    -.20142     .04594    -.02122     .05116   -4.01640   -.00152
   100.600     99.872    -.05944     .19013     .02478    -.19651     .04696    -.01964     .05375   -4.00760    .00273
   100.520    200.040    -.04439     .19424     .01552    -.18833     .04878    -.02002     .04214   -4.00350   -.10102
   100.980    400.730    -.05603     .18981     .02146    -.17086     .04397    -.01708     .01494   -4.03160    .00956

                        RUN NO.  265/ 0    RN/L =   5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   200.680   -100.110    -.04449     .19346     .01057    -.19159     .05478    -.02388     .04726   -4.00640   -.04666
   201.130      -.592    -.05433     .19441     .01940    -.18847     .05183    -.01895     .08583   -4.07650   -.03947
   200.130    100.8[illegible]0    -.04978     .19315     .01645    -.18699     .05176    -.01919     .01862   -4.01230    .01690
   199.130    200.850    -.04787     .19184     .01524    -.17976     .04844    -.01900    -.00348   -3.96290   -.11888
   198.510    400.100    -.05758     .18972     .02149    -.16907     .04356    -.01708     .01328   -3.94940   -.19851

                        RUN NO.  264/ 0    RN/L =   5.85

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   400.280    -99.685    -.06179     .19094     .02405    -.17477     .04863    -.01836     .01141   -3.96860   -.07233
   399.490      -.927    -.05978     .19031     .02257    -.17133     .04551    -.01762     .09394   -3.92160   -.06396
   400.970     99.746    -.05765     .19035     .02098    -.17034     .04482    -.01869     .04424   -4.01370    .00096
   402.150    200.430    -.05735     .19009     .02055    -.16812     .04333    -.01854     .02252   -4.05150    .11200
   400.470    400.140    -.06224     .19018     .02436    -.16472     .04066    -.01734     .04255   -4.00110   -.01987
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR. (RTU090) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.400 BETA = 5.400
CALPHA = .000 DBETA = -4.000
X = 300.000

RUN NO. 267/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
98.633	-97.721	-.04300	.19137	.01017	-.20289	.05685	-.02350	-.03259	-3.93370	299.93000
100.620	-.104	-.05401	.19128	.01890	-.19827	.05406	-.01957	.05359	-3.99830	300.00000
98.766	100.680	-.04747	.19514	.01665	-.19422	.05341	-.01946	.02792	-3.95180	300.01000
101.110	201.380	-.03372	.19195	.00594	-.18701	.05002	-.02200	-.00353	-4.02450	300.03000
100.600	399.620	-.05750	.18939	.02114	-.16749	.04268	-.01719	.05606	-4.01800	300.07000

RUN NO. 268/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.420	-101.400	-.05028	.19405	.01537	-.19238	.05769	-.02094	.09747	-3.99080	300.07000
201.630	-.509	-.05158	.19426	.01741	-.19135	.05613	-.01877	.04650	-4.02840	300.17000
200.790	99.944	-.04409	.19298	.01217	-.18575	.05247	-.01954	.05003	-4.01060	300.08000
200.800	199.980	-.05311	.18943	.01784	-.17674	.04796	-.01830	.04806	-4.00810	300.13000
200.160	398.890	-.06188	.18983	.02414	-.16491	.04079	-.01732	.08099	-3.97970	300.13000

RUN NO. 269/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.690	-100.080	-.06114	.19067	.02350	-.16549	.04139	-.01768	.04610	-4.01280	299.94000
400.690	-.171	-.05963	.19084	.02250	-.16569	.04158	-.01810	.06704	-3.98790	300.01000
400.820	99.511	-.05873	.19064	.02169	-.16552	.04149	-.01854	.07476	-4.01290	299.93000
401.270	200.870	-.06224	.19027	.02437	-.16463	.04065	-.01734	-.01455	-4.05530	300.00000
399.340	399.640	-.06223	.19046	.02439	-.16487	.04072	-.01736	.05917	-3.96120	299.94000

```
                                  AEDC/VA328(IA87)-O1ET181-ORB/ET W R/M SRB SEPAR.             (RTU091)    ( 03 OCT 74  )

             REFERENCE DATA                                                                         PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                              MACH    =      4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                             ALPHA   =      -.400   BETA   =     5.400
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                              DALPHA  =      5.000   DBETA  =    -4.000
SCALE =        .0100                                                               X       =    300.000

                         RUN NO.  272/ 0    RN/L =   5.86

   Y          Z         CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA      X
 100.410    -99.702   -.05192    .19170    .01687   -.20090    .05401   -.02052   5.04330  -3.99410  299.89000
 100.310      -.105   -.06036    .19196    .02456   -.19367    .05110   -.01739   5.05060  -3.99290  299.94000
 100.540     99.160   -.04365    .19468    .01433   -.18682    .04945   -.01991   5.08010  -4.00950  300.13000
 100.160    199.710   -.04357    .19132    .01267   -.18157    .04727   -.01970   5.04880  -3.98910  299.95000
 100.800    400.260   -.05974    .18981    .02258   -.16594    .04156   -.01727   5.02230  -4.04620  299.95000

                         RUN NO.  271/ 0    RN/L =   5.86

   Y          Z         CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA      X
 201.020   -100.020   -.05737    .19384    .02113   -.19195    .05680   -.01780   5.05090  -4.01700  300.01000
 201.040       .919   -.05282    .19369    .01852   -.18992    .05481   -.01787   5.02030  -4.04230  300.05000
 198.720    101.330   -.04368    .19218    .01166   -.18341    .05134   -.01994   4.99190  -3.93980  299.93000
 197.930    200.190   -.05802    .18964    .02183   -.17350    .04612   -.01696   5.00030  -3.91480  299.84000
 200.550    395.790   -.06245    .19008    .02447   -.16457    .04061   -.01732   5.03970  -4.00960  300.11000

                         RUN NO.  270/ 0    RN/L =   5.85

   Y          Z         CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA      X
 399.890   -100.280   -.06073    .19052    .02327   -.16557    .04126   -.01770   5.04590  -3.96400  300.01000
 400.610     -1.253   -.05949    .19066    .02237   -.16546    .04139   -.01811   5.09650  -3.99480  300.12000
 401.240     99.582   -.05996    .19031    .02250   -.16500    .04107   -.01818   5.05080  -4.03440  300.02000
 402.070    200.110   -.06235    .19031    .02439   -.16476    .04071   -.01736   5.01180  -4.08310  300.10000
 400.450    399.030   -.06242    .19050    .02446   -.16455    .04060   -.01732   5.04090  -4.00535  300.13000
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU092) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 FTOTL = 90.200
ALPHA = -.400 BETA = 5.400
DALPHA = 5.000 DBETA = -4.000
X = .000

RUN NO. 273/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.680	-100.020	-.06383	.18790	.02292	-.19856	.04[illegible]58	-.01852	5.05160	-4.00890	-.09441
100.890	-.209	-.06610	.18701	.02766	-.19285	.04095	-.01955	5.05440	-4.00970	-.00252
100.700	99.561	-.06009	.19133	.02006	-.18709	.04305	-.01878	5.05920	-4.01200	.13245
99.965	199.540	-.04589	.19378	.01606	-.17916	.04491	-.01988	5.05130	-3.99850	-.01499
100.970	399.710	-.05686	.19039	.02157	-.16913	.04309	-.01715	5.04780	-4.01750	.05046

RUN NO. 274/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.420	-101.190	-.05818	.19283	.02153	-.18960	.05204	-.01867	5.09580	-3.98330	.07739
201.660	-1.413	-.05473	.19271	.01994	-.18775	.05106	-.01849	5.10330	-4.02210	.12549
201.650	98.738	-.05372	.19265	.01978	-.18090	.04821	-.01778	5.09180	-4.03380	.25706
201.110	199.700	-.04983	.19137	.01633	-.17520	.04578	-.01918	5.04340	-4.00720	.06209
199.740	398.770	-.05861	.18989	.02194	-.16783	.04273	-.01721	5.08560	-3.94570	.06777

RUN NO. 275/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.390	-100.140	-.06106	.19040	.02354	-.17405	.04776	-.01800	5.04240	-4.01270	.01030
400.900	.535	-.05950	.19029	.02242	-.17089	.04493	-.01742	5.01560	-4.03940	-.05611
400.320	101.020	-.05741	.18993	.02095	-.16952	.04439	-.01809	5.04530	-3.98380	.01847
399.910	199.740	-.05857	.18979	.02160	-.16711	.04248	-.01815	5.05600	-3.97630	.01580
399.650	398.910	-.06226	.19017	.02441	-.16425	.04054	-.01729	5.08850	-3.97980	-.01677

```
                                      AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.              (RTU093)    ( 03 OCT 74  )

                 REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                    MACH    =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                                   ALPHA   =      -.400   BETA   =      5.400
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                    DALPHA  =     -5.000   DBETA  =     -4.000
SCALE =        .0100                                                                     X       =       .000

                          RUN NO.  278/ 0    RN/L =    5.86

       Y          Z          CN          CA         CLM         CY         CYN        CBL      DLTALF     DLTBTA       X
    100.930     99.999    -.05156     .19167     .01760    -.20799     .05199    -.02253   -4.95080   -4.01450     .02978
    100.590    200.120    -.04199     .19414     .01420    -.20464     .05602    -.02105   -4.96280   -4.01260     .00080
    101.170    401.610    -.05063     .18956     .01852    -.17838     .04807    -.01681   -5.01360   -4.04330     .20259

                          RUN NO.  277/ 0    RN/L =    5.86

       Y          Z          CN          CA         CLM         CY         CYN        CBL      DLTALF     DLTBTA       X
    200.840     99.935    -.04413     .19524     .01257    -.19364     .05571    -.02079   -4.95690   -4.00990     .01619
    200.290    200.200    -.04281     .19276     .01142    -.18790     .05271    -.02010   -4.96590   -4.02840    -.01105
    197.320    400.000    -.05676     .18978     .02126    -.17189     .04494    -.01702   -5.00520   -3.93130    -.21680

                          RUN NO.  276/ 0    RN/L =    5.85

       Y          Z          CN          CA         CLM         CY         CYN        CBL      DLTALF     DLTBTA       X
    399.500     98.957    -.05655     .19069     .02024    -.17168     .04579    -.01832   -4.90180   -3.90940    -.15486
    401.440    200.050    -.05579     .19042     .01953    -.16965     .04442    -.01876   -4.95660   -4.02660    -.01036
    400.900    400.100    -.06232     .19022     .02444    -.16473     .04065    -.01734   -4.96230   -4.00470     .06443


                                      AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.              (RTU094)    ( 03 OCT 74  )

                 REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                    MACH    =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                                   ALPHA   =      -.400   BETA   =      5.400
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                    DALPHA  =     -5.000   DBETA  =     -4.000
SCALE =        .0100                                                                     X       =    300.000

                          RUN NO.  279/ 0    RN/L =    5.85

       Y          Z          CN          CA         CLM         CY         CYN        CBL      DLTALF     DLTBTA       X
    101.090    100.030    -.04566     .19398     .01444    -.20326     .05811    -.02060   -4.95360   -4.03640  300.02000
     99.444    201.500    -.02580     .19394     .00161    -.19691     .05551    -.02342   -4.99690   -4.01820  300.05000
     99.738    399.720    -.05303     .18910     .01846    -.17250     .04576    -.01695   -4.94950   -4.00330  299.97000

                          RUN NO.  280/ 0    RN/L =    5.85

       Y          Z          CN          CA         CLM         CY         CYN        CBL      DLTALF     DLTBTA       X
    203.350    100.660    -.04593     .19414     .00967    -.18910     .05485    -.02042   -4.99450   -4.08170  300.31000
    201.920    199.990    -.04359     .19021     .01562    -.18252     .05156    -.02043   -4.96040   -4.01180  300.06000
    200.160    399.920    -.06054     .18937     .02309    -.16597     .04164    -.01724   -4.95600   -4.00440  300.00000
```

```
                                       AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.              (RTU094)    ( 03 OCT 74  )

             REFERENCE DATA                                                                         PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                   MACH    =     4.520   PTOTL   =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                                  ALPHA   =     -.400   BETA    =      5.400
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                   DALPHA  =    -5.000   DBETA   =     -4.000
SCALE =       .0100                                                                     X       =   300.000

                          RUN NO.  281/ 0    RN/L =   5.85

      Y          Z          CN          CA          CLM        CY          CYN        CBL        DLTALF     DLTBTA      X
   400.470     99.985    -.05784      .19075      .02104    -.16576      .04173    -.01874    -4.96320   -4.00990  300.05000
   400.470    199.470    -.06082      .19018      .02325    -.16482      .04083    -.01784    -4.93690   -3.99270  300.13000
   399.890    400.710    -.06218      .19041      .02440    -.16468      .04063    -.01733    -5.01630   -4.03870  300.12000

                                       AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.              (RTU095)    ( 03 OCT 74  )

             REFERENCE DATA                                                                         PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                   MACH    =     4.520   PTOTL   =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                                  ALPHA   =     -.400   BETA    =      5.400
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                   DALPHA  =      .000   DBETA   =     -8.000
SCALE =       .0100                                                                     X       =      .000

                          RUN NO.  283/ 0    RN/L =   5.85

      Y          Z          CN          CA          CLM        CY          CYN        CBL        DLTALF     DLTBTA      X
   200.790   -100.070    -.03165      .19338      .00103    -.21164      .06421    -.02531      .05235   -8.00610    -.13031
   200.530      -.125    -.04958      .19333      .01586    -.21038      .06260    -.01997      .05720   -7.99620    -.02622
   199.430    101.380    -.04125      .19363      .01161    -.20149      .05838    -.01982     -.00763   -7.99480    -.10279
   197.890    200.740    -.04348      .19193      .01314    -.18843      .05232    -.01902      .00431   -7.90540    -.34264
   200.770    399.860    -.05629      .18961      .02094    -.17024      .04411    -.01708      .04619   -8.00850     .03368

                          RUN NO.  282/ 0    RN/L =   5.86

      Y          Z          CN          CA          CLM        CY          CYN        CBL        DLTALF     DLTBTA      X
   400.390    -99.294    -.05618      .19228      .02003    -.17996      .05236    -.02020     -.00602   -7.98160     .01376
   400.030      -.725    -.05692      .19094      .02052    -.17604      .04897    -.01861      .08997   -7.94560    -.14943
   400.620     99.439    -.05580      .19054      .01966    -.17277      .04638    -.01823      .06922   -7.99120    -.07341
   402.070    199.910    -.05543      .18995      .01929    -.17020      .04483    -.01866      .05679   -8.04420     .18584
   400.490    400.170    -.06232      .19012      .02443    -.16445      .04056    -.01730      .03562   -7.99500    -.09322
```

```
                                  AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.            (RTU096)   ( 03 OCT 74  )

            REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                               MACH   =     4.520  PTOTL  =     90.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YT                              ALPHA  =     -.400  BETA   =      5.400
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                               DALPHA =      .000  DBETA  =     -8.000
SCALE =        .0100                                                                 X      =   300.000

                       RUN NO.  284/ 0    RN/L =   5.85

      Y          Z          CN         CA        CLM        CY        CYN       CBL       DLTALF     DLTBTA      X
   200.590   -101.310    -.03904    .19373    .00702    -.20511    .06419    -.02370    .11602   -7.96360  300.02000
   200.710     -1.079    -.04717    .19414    .01465    -.20310    .06148    -.01929    .09116   -8.00800  300.17000
   199.650     99.965    -.03871    .19450    .00909    -.19426    .05634    -.01973    .04850   -7.99630  299.99000
   200.330    200.000    -.04551    .18964    .01247    -.18395    .05170    -.01919    .05300   -8.00460  300.01000
   200.670    399.890    -.06104    .18959    .02349    -.16530    .04115    -.01728    .03623   -8.04600  300.12000

                       RUN NO.  285/ 0    RN/L =   5.86

      Y          Z          CN         CA        CLM        CY        CYN       CBL       DLTALF     DLTBTA      X
   400.910   -100.170    -.05784    .19094    .02103    -.16631    .04219    -.01870    .04470   -8.01200  300.02000
   399.740      -.042    -.05859    .19061    .02164    -.16577    .04172    -.01834    .05488   -7.97520  299.87000
   400.920     99.323    -.05790    .19030    .02101    -.16540    .04154    -.01875    .08317   -8.04270  300.07000
   400.750    200.630    -.06215    .19002    .02429    -.16431    .04056    -.01735   -.00141   -8.01460  299.98000
   399.600    400.140    -.06254    .19052    .02451    -.16452    .04056    -.01731    .02786   -7.97890  299.92000

                                  AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.            (RTU097)   ( 03 OCT 74  )

            REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                               MACH   =     4.520  PTOTL  =     90.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YT                              ALPHA  =     -.400  BETA   =      5.400
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                               DALPHA =     5.000  DBETA  =     -8.000
SCALE =        .0100                                                                 X      =   300.000

                       RUN NO.  287/ 0    RN/L =   5.86

      Y          Z          CN         CA        CLM        CY        CYN       CBL       DLTALF     DLTBTA      X
   199.890   -100.320    -.05315    .19327    .01775    -.20383    .06191    -.01938   5.04980   -8.00250  299.77000
   199.870      1.457    -.04826    .19411    .01585    -.20068    .05942    -.01833   4.99110   -8.01300  299.80000
   197.830    101.880    -.03810    .19373    .00873    -.19087    .05434    -.02007   4.97170   -7.91250  299.52000
   200.170    199.580    -.05338    .18938    .01881    -.17901    .04889    -.01735   5.05530   -8.00130  300.06000
   200.410    399.740    -.06200    .18985    .02421    -.16450    .04066    -.01729   5.04040   -8.00740  300.13000
```

```
                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.                (RTU097)   ( 03 OCT 74  )

          REFERENCE DATA                                                                       PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                              MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                              ALPHA  =     -.400   BETA   =     5.400
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                              DALPHA =     5.000   DBETA  =    -8.000
SCALE =       .0100                                                                X      =   300.000

                    RUN NO.  286/ 0    RN/L =   5.86

     Y          Z         CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA      X
  400.020    -99.790   -.05960     .19050    .02223   -.16584    .04152   -.01811   5.01850   -7.96000  299.88000
  400.660     -1.014   -.05883     .19049    .02179   -.16574    .04160   -.01829   5.09010   -7.99210  300.11000
  400.550     99.373   -.05874     .19019    .02164   -.16549    .04133   -.01853   5.07170   -7.99950  300.01000
  402.380    199.430   -.06234     .19020    .02440   -.15462    .04061   -.01731   5.05260   -8.08920  300.25000
  400.440    399.860   -.06235     .19041    .02444   -.16470    .04060   -.01731   5.04180   -8.00600  299.93000

                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.                (RTU098)   ( 03 OCT 74  )

          REFERENCE DATA                                                                       PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                              MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                              ALPHA  =     -.400   BETA   =     5.400
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                              DALPHA =     5.000   DBETA  =    -8.000
SCALE =       .0100                                                                X      =      .000

                    RUN NO.  288/ 0    RN/L =   5.86

     Y          Z         CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA      X
  201.240   -101.800   -.05169     .19104    .01622   -.21234    .06292   -.02049   5.12900   -8.00060     .13615
  202.770     -1.549   -.05023     .19337    .01740   -.20106    .05630   -.01875   5.10190   -8.08910     .27256
  203.080     99.340   -.04680     .19322    .01538   -.19071    .05218   -.01860   5.07610   -8.09280     .26486
  200.210    199.860   -.04469     .19170    .01346   -.18104    .04876   -.01914   5.04630   -7.99290    -.02005
  199.410    399.850   -.05714     .18980    .02125   -.16849    .04316   -.01712   5.04140   -7.93720    -.11624

                    RUN NO.  289/ 0    RN/L =   5.86

     Y          Z         CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA      X
  401.230   -100.170   -.05831     .19139    .02166   -.17883    .05113   -.01900   5.04380   -8.02020     .12854
  401.530       .520   -.05834     .19049    .02166   -.17422    .04719   -.01763   5.00040   -8.06640     .08887
  400.780    100.370   -.05600     .19038    .01987   -.17198    .04591   -.01819   5.02000   -8.02830     .03079
  400.420    200.000   -.05704     .18993    .02043   -.16892    .04380   -.01832   5.03010   -7.99010    -.13778
  398.620    399.470   -.06240     .19032    .02444   -.16453    .04061   -.01732   5.06330   -7.92320    -.24767
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                           AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.              (RTU099)    ( 03 OCT 74  )

        REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                            MACH   =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                           ALPHA  =      -.400   BETA   =      5.400
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                            DALPHA =     -5.000   DBETA  =     -8.000
SCALE =        .0100                                                             X      =       .000

                         RUN NO.  291/ 0    RN/L =   5.86

     Y          Z          CN         CA         CLM        CY          CYN        CBL        DLTALF     DLTBTA      X
   200.690     99.867    -.03622     .19438     .00702    -.21622     .06717    -.02194    -4.95040   -8.00420   -.15561
   198.640    200.870    -.02972     .19297     .00324    -.20328     .06056    -.02131    -4.99380   -7.98050   -.17130
   200.390    399.860    -.05264     .18882     .01867    -.17532     .04722    -.01680    -4.95160   -8.00420    .01127

                         RUN NO.  290/ 0    RN/L =   5.85

     Y          Z          CN         CA         CLM        CY          CYN        CBL        DLTALF     DLTBTA      X
   400.730     99.715    -.05211     .19101     .01693    -.17477     .04778    -.01935    -4.93810   -7.98250   -.07421
   400.870    198.940    -.05364     .19037     .01806    -.17228     .04616    -.01898    -4.88470   -7.97180   -.05186
   400.660    400.100    -.06240     .18995     .02440    -.16463     .04071    -.01730    -4.96320   -7.99940    .03119


                           AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.              (RTU100)    ( 03 OCT 74  )

        REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                            MACH   =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                           ALPHA  =      -.400   BETA   =      5.400
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                            DALPHA =     -5.000   DBETA  =     -8.000
SCALE =        .0100                                                             X      =    300.000

                         RUN NO.  292/ 0    RN/L =   5.85

     Y          Z          CN         CA         CLM        CY          CYN        CBL        DLTALF     DLTBTA      X
   203.080    100.310    -.03445     .19500     .00582    -.20065     .06069    -.02102    -4.96250   -8.08400  300.26000
   201.540    200.130    -.03335     .19067     .00376    -.19152     .05625    -.02171    -4.96350   -8.01690  299.99000
   201.660    400.820    -.05972     .18905     .02241    -.16664     .04220    -.01718    -5.02410   -8.08370  300.29000

                         RUN NO.  293/ 0    RN/L =   5.86

     Y          Z          CN         CA         CLM        CY          CYN        CBL        DLTALF     DLTBTA      X
   400.760     99.959    -.05642     .19027     .02005    -.16570     .04192    -.01904    -4.95870   -8.01280  300.10000
   400.610    199.040    -.06005     .19005     .02258    -.16487     .04090    -.01811    -4.91120   -8.01520  299.86000
   399.840    400.400    -.06227     .19044     .02443    -.16460     .04056    -.01731    -4.99410   -7.99110  299.96000
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU101) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.400 BETA = 5.400
DALPHA = .000 DBETA = .000
X = .000

RUN NO. 295/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-399.040	-100.560	-.06117	.19070	.02357	-.16343	.03957	-.01688	.07253	-.03930	-.04226
-399.030	-.429	-.06102	.19057	.02338	-.16376	.03984	-.01680	.06363	-.01532	-.01784
-399.350	99.205	-.06140	.19006	.02368	-.16401	.04019	-.01694	.08355	-.02235	-.01566
-401.310	199.690	-.06235	.19035	.02442	-.16468	.04061	-.01733	.05399	.07540	-.07733
-399.710	400.090	-.06233	.19031	.02442	-.16458	.04060	-.01732	.03927	.00276	-.00128

RUN NO. 296/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-199.280	-100.230	-.05490	.19234	.01893	-.14052	.02637	-.01449	.04694	-.00600	-.05753
-200.210	.049	-.05219	.19213	.01802	-.13932	.02815	-.01566	.05083	.03113	-.12519
-199.020	100.770	-.04747	.19121	.01521	-.14186	.02941	-.01546	.00009	-.00300	.03654
-197.290	200.430	-.04902	.18980	.01549	-.15120	.03315	-.01550	.00720	-.06655	.03861
-197.230	400.170	-.06124	.18987	.02368	-.15324	.03966	-.01736	.00608	-.07193	.06460

RUN NO. 297/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-101.490	-101.240	-.05758	.19097	.01662	-.11844	.02754	-.01215	.08946	.08291	.07557
-99.687	-.873	-.05660	.19207	.01863	-.12306	.03044	-.01432	.06996	.04259	.11213
-97.418	98.063	-.05236	.19225	.01999	-.12791	.03159	-.01577	.10379	-.05702	.04725
-98.011	199.790	-.04310	.19165	.01605	-.13265	.03148	-.01556	.03775	-.03111	-.05806
-99.379	400.560	-.05641	.18959	.02085	-.15818	.03679	-.01746	.02156	.01071	-.00560

RUN NO. 298/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-9.208	-100.340	-.05959	.19076	.01454	-.12170	.03183	-.01181	.04645	.01340	.11779
-7.690	-.224	06345	.19045	.02184	-.13044	.03558	-.01465	.03866	-.04113	.03364
-6.598	99.365	-.05409	.19166	.02245	-.13715	.03630	-.01622	.06128	-.07488	.11788
-8.255	199.660	-.04425	.19126	.02010	-.14098	.03706	-.01591	.05375	-.02993	-.03180
-9.257	401.520	-.04934	.18984	.01794	-.15268	.03504	-.01737	-.02243	-.03026	.22396

AEDC/VA528(IA87)-O1ET131-ORB/ET W L/H SRB SEPAR. (RTU102) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 FTOTL = 90.200
ALPHA = -.400 BETA = 5.400
DALPHA = .000 DBETA = .000
X = 300.000

RUN NO. 302/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-397.190	-101.080	-.06104	.19065	.02353	-.16358	.03970	-.01683	.08810	-.08703	300.04000
-399.180	.028	-.06125	.19039	.02368	-.16366	.04003	-.01687	.04912	-.01357	300.01000
-399.330	100.390	-.06232	.19047	.02444	-.16446	.04056	-.01731	.01911	.01264	300.03000
-398.400	200.130	-.06246	.19055	.02449	-.16458	.04060	-.01732	.03011	-.02892	300.01000
-398.450	400.430	-.06248	.19035	.02451	-.16405	.04043	-.01725	.00949	-.02782	300.14000

RUN NO. 301/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-199.030	-100.100	-.05559	.19193	.01952	-.14372	.02752	-.01517	.04219	-.01428	300.01000
-199.870	.449	-.05379	.19121	.01876	-.14651	.03028	-.01608	.00124	.03005	300.08000
-197.680	99.560	-.04765	.19075	.01457	-.14888	.03146	-.01497	.06644	-.08886	299.97000
-199.530	198.650	-.05128	.18925	.01665	-.15269	.03373	-.01595	.12111	-.00753	299.97000
-198.030	398.600	-.06244	.19008	.02445	-.16447	.04056	-.01730	.09533	-.04037	300.10000

RUN NO. 300/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-98.468	-100.110	-.05328	.19070	.01747	-.14143	.02903	-.01411	.04322	-.01065	300.11000
-96.189	-.197	-.05400	.19102	.01893	-.14541	.03174	-.01570	.03449	-.00621	300.07000
-97.747	98.762	-.04995	.19083	.01700	-.14807	.03331	-.01566	.09978	-.03743	300.20000
-99.532	199.180	-.04946	.19033	.01680	-.15111	.03473	-.01601	.07381	.02455	300.10000
-98.122	399.700	-.05586	.18911	.02041	-.15766	.03641	-.01745	.05209	-.02664	300.01000

RUN NO. 299/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-9.189	-100.190	-.05216	.18981	.01430	-.13162	.02937	-.01298	.04302	.00357	300.04000
-9.890	1.138	-.05924	.19254	.02029	-.13546	.03117	-.01506	-.00822	.02332	300.05000
-9.366	101.050	-.05265	.19126	.02002	-.14032	.03311	-.01649	-.01843	.00779	299.94000
-8.656	199.950	-.04948	.19034	.01833	-.14941	.03539	-.01662	.04192	-.00848	300.07000
-7.672	398.950	-.05030	.18947	.01793	-.15444	.03528	-.01739	.07895	-.04543	300.12000

```
                                AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.            (RTU103)    ( 03 OCT 74  )

              REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =   1097.0000 IN. XT                           MACH   =      4.520    FTOTL  =     90.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YT                           ALPHA  =      -.400    BETA   =      5.400
BREF  =  1290.3000 INCHES    ZMRP  =    450.0000 IN. ZT                           CALPHA =      5.000    CBETA  =       .000
SCALE =       .0100                                                               X      =    300.000

                         RUN NO.  303/ 0    RN/L =   5.85

      Y          Z          CN          CA         CLM         CY          CYN        CBL        DLTALF     DLTBTA      X
  -398.990   -100.790    -.06152     .19078     .02371    -.16356      .03980    -.01685    5.07700    -.02402  300.12000
  -399.250      -.523    -.06170     .19035     .02391    -.16393      .04022    -.01700    5.06200    -.01094  299.99000
  -399.310     99.336    -.06252     .19031     .02447    -.16423      .04051    -.01729    5.06750    -.00530  300.00000
  -400.300    198.820    -.06251     .19040     .02450    -.16433      .04048    -.01727    5.08410     .06427  300.06000
  -398.830    399.870    -.06250     .19049     .02451    -.15429      .04051    -.01729    5.03860    -.00893  300.06000

                         RUN NO.  304/ 0    RN/L =   5.86

      Y          Z          CN          CA         CLM         CY          CYN        CBL        DLTALF     DLTBTA      X
  -200.680    -98.851    -.05709     .19134     .02082    -.14432      .02839    -.01622    4.99080     .04589  299.91000
  -199.390      -.300    -.05254     .19092     .01807    -.14719      .03077    -.01612    5.04530     .00948  300.06000
  -199.560     99.746    -.04748     .19035     .01435    -.15014      .03224    -.01494    5.04770     .01737  300.02000
  -201.210    199.830    -.05494     .18924     .01958    -.15442      .03467    -.01696    5.01770     .08322  300.08000
  -199.090    400.820    -.06224     .19021     .02438    -.16441      .04053    -.01730    4.97220     .00281  299.94000

                         RUN NO.  305/ 0    RN/L =   5.85

      Y          Z          CN          CA         CLM         CY          CYN        CBL        DLTALF     DLTBTA      X
  -100.700    -99.595    -.05607     .19165     .02051    -.14294      .03026    -.01553    5.00440     .07326  300.00000
   -98.898       .871    -.05558     .19081     .02071    -.14718      .03322    -.01675    4.98480     .01181  299.94000
   -97.216    100.690    -.04916     .19094     .01650    -.15024      .03453    -.01553    5.00710    -.04352  300.04000
   -99.205    199.820    -.05182     .18994     .01860    -.15276      .03548    -.01667    5.03910     .00840  300.09000
  -100.050    400.950    -.05843     .18977     .02182    -.16054      .03792    -.01746    5.00570     .03619  299.94000

                         RUN NO.  306/ 0    RN/L =   5.86

      Y          Z          CN          CA         CLM         CY          CYN        CBL        DLTALF     DLTBTA      X
   -10.758    -99.504    -.06225     .19174     .02180    -.13562      .03314    -.01547    5.00020     .08573  299.78000
    -8.459      -.209    -.05888     .19152     .02206    -.14009      .03398    -.01643    5.03530    -.01767  300.02000
    -8.426     99.083    -.04979     .19110     .01882    -.14823      .03648    -.01644    5.07900    -.04143  300.15000
    -7.577    198.190    -.05224     .19054     .02014    -.15494      .03783    -.01692    5.08990    -.06676  300.19000
    -8.391    399.910    -.05317     .18967     .01913    -.15697      .03631    -.01747    5.03320    -.02443  300.11000
```

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA528(IA87)-O1ET131-ORB/ET W L/H SRB SEPAR. (RTU104) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.400 BETA = 5.400
DALPHA = 5.000 DBETA = .000
X = .000

RUN NO. 310/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-399.570	-100.300	-.06119	.19055	.02357	-.16354	.03976	-.01691	5.04330	.00202	-.00492
-400.070	.087	-.06092	.19021	.02336	-.16353	.03984	-.01677	5.02220	.03244	-.07711
-399.500	100.285	-.06205	.19018	.02410	-.16414	.04034	-.01709	5.01420	.00638	-.01053
-399.090	200.030	-.06240	.19033	.02444	-.16426	.04048	-.01727	5.02680	-.02862	-.05044
-399.550	399.610	-.06246	.19027	.02446	-.16419	.04049	-.01728	5.04400	.00207	-.05117

RUN NO. 309/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-197.800	-101.380	-.05818	.19175	.02012	-.14015	.02747	-.01571	5.09840	-.09382	.02853
-200.300	-1.106	-.05140	.19170	.01770	-.13920	.02870	-.01593	5.07120	.03642	.03623
-201.140	99.442	-.04759	.19088	.01534	-.14480	.03072	-.01557	5.07130	.05172	-.04957
-201.390	198.890	-.05372	.18944	.01861	-.15443	.03493	-.01646	5.10140	.07583	-.00150
-198.370	399.340	-.06177	.18987	.02405	-.16373	.04021	-.01733	5.06050	-.04146	.00945

RUN NO. 308/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-98.181	-99.906	-.06236	.19067	.02063	-.11984	.03013	-.01424	5.02020	-.03330	-.08430
-98.928	-.494	-.05808	.19196	.02154	-.12688	.03276	-.01600	5.03490	.00497	.11554
-98.667	100.770	-.05039	.19200	.01974	-.13201	.03318	-.01600	4.98890	-.01569	-.03975
-100.040	201.290	-.04203	.19156	.01533	-.13738	.03269	-.01557	4.95950	.04053	.00684
-99.173	399.610	-.05861	.18990	.02213	-.16042	.03816	-.01742	5.04180	.00325	.05568

RUN NO. 307/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-8.507	-100.070	-.06980	.19058	.02307	-.12940	.03704	-.01516	5.03120	-.02404	.00328
-9.016	-.167	-.06149	.19014	.02409	-.13910	.04024	-.01672	5.02840	-.00375	-.02285
-9.046	99.742	-.05085	.19125	.02199	-.14768	.04025	-.01666	5.04210	.00159	-.00276
-7.930	198.870	-.04527	.19120	.02042	-.14781	.03890	-.01622	5.10070	-.04629	.03710
-9.395	399.720	-.05417	.18995	.02012	-.15725	.03680	-.01744	5.02430	.01535	.11994

```
                                            AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.          (RTU105)    ( 03 OCT 74  )

             REFERENCE DATA                                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1087.0000 IN. XT                             MACH   =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                            ALPHA  =      -.400   BETA   =      5.400
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                             DALFHA =     -5.000   DBETA  =       .000
SCALE =       .0100                                                               X      =       .000

                         RUN NO.  311/ 0    RN/L =   5.85

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -399.360     99.566    -.06102     .19025     .02335    -.16376     .03995    -.01676   -4.93430    -.00655   -.08536
  -400.020    199.430    -.06236     .19023     .02440    -.16433     .04051    -.01727   -4.93030     .00382   -.10397
  -399.960    399.860    -.06247     .19053     .02448    -.16448     .04057    -.01732   -4.96060     .00753    .04033

                         RUN NO.  312/ 0    RN/L =   5.85

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -199.790     99.956    -.04590     .19219     .01423    -.13779     .02750    -.01492   -4.96490     .00492    .00681
  -197.430    199.990    -.04355     .19035     .01202    -.14560     .03015    -.01442   -4.95910    -.06758    .07306
  -198.070    400.250    -.06059     .18963     .02320    -.16192     .03880    -.01740   -5.02300    -.03570    .19450

                         RUN NO.  313/ 0    RN/L =   5.85

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   -97.539     98.219    -.04830     .19239     .01531    -.12047     .02830    -.01362   -4.89850    -.05821   -.02612
   -98.236    199.840    -.04169     .19225     .01506    -.12514     .02887    -.01497   -4.96740    -.03355   -.05883
   -99.300    400.850    -.05128     .18923     .01806    -.15226     .03370    -.01742   -4.99380     .00228    .08823

                         RUN NO.  314/ 0    RN/L =   5.85

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
    -8.098     99.732    -.05166     .19146     .01702    -.12557     .03266    -.01337   -4.95980    -.03404    .24188
    -8.284    199.740    -.04427     .19200     .01979    -.12889     .03261    -.01529   -4.96160    -.02195    .11758
    -9.163    399.780    -.04032     .18959     .01409    -.14572     .03316    -.01667   -4.95790    -.00681    .01068
```

```
                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.             (RTU106)    ( 03 OCT 74  )

                  REFERENCE DATA                                                                      PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                               MACH   =     4.520   PTOTL  =     90.200
 LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                              ALPHA  =     -.400   BETA   =      5.400
 BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                               DALFHA =    -5.000   DBETA  =       .000
 SCALE =        .0100                                                                X      =   300.000

                                 RUN NO.  318/ 0    RN/L =   5.85

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF      DLTBTA     X
   -399.910     99.068    -.06217     .19027     .02430    -.16417     .04040    -.01721    -4.92730     .02631  299.95000
   -398.750    199.980    -.06246     .19030     .02448    -.16425     .04047    -.01727    -4.96100    -.01751  300.08000
   -398.180    400.090    -.06245     .19036     .02446    -.16426     .04048    -.01728    -4.97750    -.04129  300.12000

                                 RUN NO.  317/ 0    RN/L =   5.86

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF      DLTBTA     X
   -198.000     99.642    -.04777     .19088     .01461    -.14565     .02990    -.01488    -4.95590    -.06795  299.91000
   -199.480    199.910    -.04598     .18957     .01294    -.14924     .03174    -.01461    -4.96190     .00230  300.03000
   -198.590    398.680    -.06177     .18950     .02402    -.16373     .04010    -.01730    -4.91250    -.02701  299.93000

                                 RUN NO.  316/ 0    RN/L =   5.86

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF      DLTBTA     X
    -98.450     99.370    -.04950     .19084     .01647    -.14376     .03093    -.01537    -4.93660    -.01521  300.15000
    -99.200    199.210    -.04498     .18990     .01377    -.14685     .03253    -.01499    -4.92223     .03563  300.00000
    -98.732    399.660    -.05325     .18916     .01885    -.15452     .03461    -.01746    -4.95450    -.02075  299.94000

                                 RUN NO.  315/ 0    RN/L =   5.86

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF      DLTBTA     X
     -8.761    101.050    -.05281     .19169     .01784    -.13411     .03041    -.01465    -5.00620    -.01913  300.11000
     -8.804    200.030    -.04579     .19032     .01593    -.13995     .03137    -.01582    -4.96590    -.00644  300.12000
     -7.161    397.990    -.04639     .18948     .01610    -.15079     .03390    -.01723    -4.90420    -.06292  299.99000
```

```
DATE 20 MAY 75                               IA87 TABULATED SOURCE DATA                                          PAGE   89

                                 AEDC/VA528(IA87)-01ET1S1-ORB/ET W L/H SRB SEPAR.              (RTU197)    ( 03 OCT 74  )

            REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                                MACH   =      4.520  PTOTL  =     90.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YT                               ALPHA  =      -.400  BETA   =      5.400
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                                DALPHA =       .000  DBETA  =      4.000
SCALE =       .0100                                                                   X      =       .000

                          RUN NO.  319/ 0    RN/L =   5.86

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF     DLTBTA      X
   -398.310   -100.130    -.05882     .19097      .02177     -.16209      .03844     -.01604      .04131    3.96790     .05394
   -397.940      -.726    -.05892     .19008      .02182     -.16286      .03918     -.01612      .08871    3.96250     .12959
   -398.930     99.617    -.06080     .18971      .02320     -.16355      .03994     -.01670      .06555    4.00560     .10718
   -399.080    199.240    -.06251     .19015      .02448     -.16435      .04051     -.01729      .07389    4.01490     .17872
   -398.260    400.110    -.06265     .19050      .02454     -.16434      .04052     -.01728      .03758    3.98070     .04963

                          RUN NO.  320/ 0    RN/L =   5.86

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF     DLTBTA      X
   -198.840   -100.230    -.04407     .19139      .01047     -.12722      .02156     -.01140      .04064    3.99610    -.05628
   -199.550       .131    -.04808     .19217      .01488     -.12412      .02299     -.01432      .01621    4.05750     .03591
   -197.850    100.840    -.04273     .19227      .01288     -.12921      .02538     -.01497      .00280    3.95900    -.05650
   -198.840    199.920    -.04012     .18993      .01047     -.14145      .02895     -.01455      .04296    3.98820     .02216
   -198.900    399.800    -.06016     .18954      .02300     -.16159      .03868     -.01738      .04103    3.99430     .17872

                          RUN NO.  321/ 0    RN/L =   5.86

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF     DLTBTA      X
    -99.003   -100.020    -.04371     .19018      .00462     -.09651      .01875     -.00909      .03302    3.97920    -.07521
    -99.651     -1.057    -.05481     .19205      .01688     -.10705      .02531     -.01380      .08182    3.99770    -.00133
    -98.830     97.948    -.04547     .19234      .01648     -.11482      .02746     -.01530      .10715    3.98300    -.22411
    -99.231    199.830    -.03602     .19217      .01331     -.12525      .02942     -.01533      .03815    3.97810    -.20473
   -100.220    400.910    -.05177     .18923      .01822     -.15408      .03458     -.01748      .01555    4.01590    -.04941
```

INAL PAGE IS
R QUALITY

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/M SRB SEPAR. (RTU108) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRF = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.400 BETA = 5.400
DALPHA = .000 DBETA = 4.000
X = 300.000

RUN NO. 324/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-396.800	-101.310	-.05966	.19116	.02224	-.16241	.03883	-.01616	.07213	3.92210	300.03000
-398.500	.024	-.05986	.19005	.02244	-.16296	.03953	-.01631	.04975	3.95290	299.96000
-398.130	100.150	-.06233	.19021	.02442	-.16400	.04038	-.01722	.03864	3.97170	300.08000
-398.480	200.580	-.06225	.19020	.02441	-.16414	.04047	-.01728	.00907	3.99440	300.14000
-397.440	400.120	-.06252	.19031	.02450	-.16403	.04042	-.01726	.03029	3.92340	299.99000

RUN NO. 323/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-202.220	-100.740	-.04921	.19160	.01472	-.13646	.02359	-.01350	.07196	4.10140	300.26000
-199.190	.217	-.05076	.19123	.01689	-.14133	.02789	-.01560	.02225	4.01350	300.15000
-196.910	99.670	-.04512	.19063	.01314	-.14304	.02682	-.01479	.05559	3.90770	299.89000
-198.750	198.650	-.04577	.18990	.01311	-.14784	.03133	-.01513	.11529	4.00750	299.93000
-197.870	398.980	-.06193	.18959	.02412	-.16354	.04012	-.01727	.07748	3.95500	300.03000

RUN NO. 322/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-99.605	-100.360	-.04550	.18956	.00944	-.12947	.02317	-.01220	.04835	4.00990	300.18000
-99.441	-.126	-.04811	.19081	.01481	-.13336	.02643	-.01439	.04277	3.99910	300.18000
-98.542	98.704	-.04591	.19116	.01492	-.13686	.02814	-.01562	.07801	3.95510	299.96000
-100.800	199.240	-.04441	.18988	.01407	-.14446	.03183	-.01579	.07358	4.05940	300.25000
-99.126	399.760	-.05283	.18880	.01870	-.15507	.03504	-.01747	.04728	3.98130	299.84000

```
                         AEDC/VA528(IA87)-O1ET181-ORB/ET W L/M BRB SEPAR.          (RTU109)   ( 03 OCT 74  )

          REFERENCE DATA                                                               PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH    =     4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                          ALPHA   =     -.400   BETA   =      5.400
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA  =     5.000   CBETA  =      4.000
SCALE =       .0100                                                            X       =   300.000

                          RUN NO.   325/ 0    RN/L =   5.86

     Y          Z          CN         CA         CLM        CY        CYN       CBL        DLTALF     DLTBTA       X
  -398.350   -100.680   -.05981     .19054     .02237   -.16284    .03924   -.01628    5.07440    3.95540  299.94000
  -398.640      -.658   -.06115     .19003     .02335   -.16346    .03990   -.01571    5.07160    3.98910  300.09000
  -398.750     99.454   -.06265     .19063     .02451   -.16471    .04065   -.01735    5.06030    4.00350  300.16000
  -399.910    199.100   -.06249     .19022     .02449   -.16396    .04042   -.01725    5.07660    4.04390  300.20000
  -398.500    399.820   -.06236     .19026     .02445   -.16415    .04047   -.01727    5.04050    3.98540  300.00000

                          RUN NO.   326/ 0    RN/L =   5.66

     Y          Z          CN         CA         CLM        CY        CYN       CBL        DLTALF     DLTBTA       X
  -200.130    -98.438   -.05281     .19109     .01767   -.13772    .02521   -.01505    4.97200    4.08090  299.91000
  -198.960      -.276   -.05041     .19117     .01695   -.14236    .02869   -.01598    5.03990    3.99970  300.13000
  -198.990     99.575   -.04488     .19044     .01279   -.14457    .02961   -.01475    5.05400    3.99190  300.09000
  -200.780    199.730   -.04964     .18888     .01601   -.15041    .03267   -.01619    5.03700    4.06440  300.32000
  -198.520    400.940   -.06242     .18988     .02445   -.16406    .04046   -.01727    4.97170    3.99990  300.07000

                          RUN NO.   327/ 0    RN/L =   5.85

     Y          Z          CN         CA         CLM        CY        CYN       CBL        DLTALF     DLTBTA       X
  -101.700    -99.317   -.05458     .19128     .01858   -.13296    .02595   -.01521    5.01130    4.07680  300.06000
   -99.972       .472   -.05202     .19142     .01837   -.13635    .02846   -.01635    5.00060    4.02900  299.87000
   -98.778    100.890   -.04520     .19062     .01456   -.14280    .03154   -.01557    5.00390    3.98000  299.77000
  -100.010    199.720   -.04775     .18988     .01645   -.14886    .03411   -.01637    5.03580    4.01170  299.99000
  -100.700    400.830   -.05642     .18929     .02043   -.15809    .03662   -.01745    5.00800    4.04030  299.97000
```

```
                              AEDC/VA5C8(IA87)-O1ET181-ORB/ET W L/H SRB SEPAR.          (RTU110)    ( 03 OCT 74  )

           REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                           MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                          ALPHA  =     -.400   BETA   =     5.400
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                           DALPHA =     5.000   DBETA  =     4.000
SCALE =      .0100                                                              X      =      .000

                             RUN NO.  330/ 0    RN/L =   5.85

      Y           Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -398.660   -100.220    -.05927     .19043     .02211    -.16276     .03908    -.01629    5.04180    3.99060    .11426
   -398.710       .075    -.06033     .19004     .02286    -.16334     .03966    -.01661    5.02650    3.98940    .05568
   -398.680    100.090    -.06136     .19000     .02360    -.16366     .04010    -.01684    5.02320    3.98860   -.09505
   -399.040    200.130    -.06237     .18999     .02444    -.16404     .04044    -.01726    5.01770    3.99100   -.04328
   -398.960    399.750    -.06251     .19017     .02448    -.16395     .04040    -.01724    5.04180    3.99550    .05098

                             RUN NO.  329/ 0    RN/L =   5.86

      Y           Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -197.530   -101.100    -.05316     .19156     .01777    -.12856     .02394    -.01442    5.07540    3.93280   -.05164
   -199.750     -1.564    -.04791     .19252     .01550    -.12636     .02460    -.01508    5.09550    4.04660    .05065
   -201.090     99.551    -.04223     .19185     .01267    -.13284     .02660    -.01522    5.05690    4.08890    .12292
   -201.270    199.770    -.04561     .18936     .01368    -.14713     .03155    -.01557    5.07080    4.08390    .21734
   -198.020    398.690    -.06106     .18976     .02349    -.16254     .03931    -.01734    5.06160    3.95950   -.03004

                             RUN NO.  328/ 0    RN/L =   5.86

      Y           Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
    -97.502    -99.692    -.06295     .19067     .01926    -.10457     .02588    -.01355    5.01270    3.94270   -.43841
    -99.548      -.364    -.05456     .19100     .01921    -.11539     .03042    -.01547    5.03230    4.00710    .10660
    -97.368    100.650    -.04531     .19180     .01791    -.12594     .03288    -.01579    4.99760    3.91470    .16079
   -101.440    201.120    -.03798     .19128     .01432    -.13254     .03221    -.01549    4.97900    4.04720    .20465
    -99.468    399.680    -.05629     .18951     .02079    -.15831     .03700    -.01744    5.04650    3.99880    .18412
```

```
                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.            (RTU111)   ( 03 OCT 74  )

             REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                      MACH    =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =        .0000 IN. YT                                    ALPHA   =     -.400   BETA   =     5.400
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                      DALPHA  =   -5.000   DBETA  =     4.000
SCALE =        .0100                                                                       X       =      .000

                            RUN NO.  331/ 0    RN/L =    5.85

      Y          Z          CN          CA         CLM         CY         CYN         CBL       DLTALF      DLTBTA      X
   -397.940     99.033    -.05861     .18972     .02138    -.16313     .03938    -.0[illegible]92   -4.89740    3.94310   -.03205
   -399.650    199.520    -.06197     .18962     .02415    -.16409     .04036    -.01714   -4.93770    4.03250    .15759
   -398.280    400.050    -.06240     .19037     .02447    -.16412     .04044    -.01725   -4.96170    3.97970    .08379

                            RUN NO.  332/ 0    RN/L =    5.85

      Y          Z          CN          CA         CLM         CY         CYN         CBL       DLTALF      DLTBTA      X
   -199.080     99.841    -.04034     .19176     .01037    -.12295     .02224    -.01365   -4.96410    4.00110   -.15618
   -198.600    199.900    -.03480     .19062     .00731    -.13358     .02540    -.01356   -4.96050    3.98770    .07834
   -198.890    399.800    -.05665     .18859     .02064    -.15687     .03565    -.01747   -4.95860    3.99650    .10918

                            RUN NO.  333/ 0    RN/L =    5.86

      Y          Z          CN          CA         CLM         CY         CYN         CBL       DLTALF      DLTBTA      X
    -98.496     98.154    -.04155     .19102     .01097    -.10465     .02312    -.01256   -4.88770    3.92270   -.25534
    -98.811    199.840    -.03348     .19232     .01119    -.11057     .02315    -.01448   -4.97130    3.97120   -.17303
   -100.780    401.320    -.04407     .18897     .01431    -.14615     .03120    -.01717   -5.00400    4.04070    .03254

                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.            (RTU112)   ( 03 OCT 74  )

             REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                      MACH    =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =        .0000 IN. YT                                    ALPHA   =     -.400   BETA   =     5.400
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                      DALPHA  =   -5.000   DBETA  =     4.000
SCALE =        .0100                                                                       X       =   300.000

                            RUN NO.  336/ 0    RN/L =    5.85

      Y          Z          CN          CA         CLM         CY         CYN         CBL       DLTALF      DLTBTA      X
   -399.780     98.968    -.06161     .18998     .02366    -.16390     .04020    -.01689   -4.93420    4.00870  300.27000
   -397.720    199.580    -.06254     .19054     .02449    -.16443     .04059    -.01733   -4.93590    3.94090  299.96000
   -398.090    400.450    -.06238     .19025     .02444    -.16414     .04046    -.01727   -4.98980    3.96570  300.01000

                            RUN NO.  335/ 0    RN/L =    5.85

      Y          Z          CN          CA         CLM         CY         CYN         CBL       DLTALF      DLTBTA      X
   -197.600     99.917    -.04373     .19077     .01231    -.14065     .02753    -.01446   -4.96200    3.92240  299.88000
   -198.000    198.490    -.04101     .18925     .00997    -.14363     .02893    -.01403   -4.87120    3.97280  299.83000
   -198.240    398.650    -.06013     .18958     .02285    -.16124     .03846    -.01741   -4.90920    3.96660  299.99000
```

```
                                     AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.            (RTU112)    ( 03 OCT 74  )

          REFERENCE DATA                                                                            PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                                  MACH    =      4.520   PTOTL   =     90.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YT                                  ALPHA   =      -.400   BETA    =      5.400
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                                  DALPHA  =     -5.000   DBETA   =      4.000
SCALE =       .0100                                                                      X       =    300.000

                          RUN NO.  334/ 0    RN/L =   5.86

       Y          Z          CN          CA          CLM        CY          CYN         CBL        DLTALF      DLTBTA      X
    -99.553     99.903    -.04263     .19012      .01150    -.13053      .02506     -.01422    -4.96270     4.00710  300.34000
    -95.032    199.420    -.03947     .18972      .01068    -.13589      .02716     -.01490    -4.96170     4.00690  300.14000
    -99.247    399.660    -.04879     .18862      .01645    -.15044      .03266     -.01739    -4.95420     3.97940  299.89000

                                     AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.            (RTU113)    ( 03 OCT 74  )

          REFERENCE DATA                                                                            PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                                  MACH    =      4.520   PTOTL   =     90.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YT                                  ALPHA   =      -.400   BETA    =      5.400
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                                  DALPHA  =       .000   DBETA   =      8.000
SCALE =       .0100                                                                      X       =       .000

                          RUN NO.  337/ 0    RN/L =   5.86

       Y          Z          CN          CA          CLM        CY          CYN         CBL        DLTALF      DLTBTA      X
   -399.520    -99.894    -.04950     .19038      .01484    -.15605      .03409     -.01360      .03669     7.99320     .11438
   -398.830      -.926    -.05166     .18958      .01639    -.15682      .03491     -.01448      .10869     7.94660    -.00343
   -399.780     99.424    -.05703     .18870      .02025    -.16103      .03785     -.01582      .07920     8.01230     .00553
   -400.780    199.530    -.06194     .18870      .02416    -.16424      .04050     -.01722      .05979     8.06310     .00492
   -399.420    400.130    -.06250     .19011      .02449    -.16418      .04049     -.01728      .03524     7.99050    -.12023

                          RUN NO.  338/ 0    RN/L =   5.86

       Y          Z          CN          CA          CLM        CY          CYN         CBL        DLTALF      DLTBTA      X
   -199.990   -100.040    -.02285     .19132     -.00530    -.09269      .00341     -.00786      .03459     7.99920    -.22667
   -193.630      -.090    -.03908     .19136      .00808    -.09488      .01027     -.01252      .02502     7.99470    -.07147
   -197.790    101.290    -.03625     .19152      .00933    -.10557      .01552     -.01466     -.05219     7.96040    -.12616
   -199.600    199.740    -.02860     .19030      .00441    -.12800      .02388     -.01371      .04255     7.99610    -.09977
   -199.750    399.840    -.05565     .18874      .02000    -.15725      .03584     -.01754      .04056     8.00090     .14630
```

```
                                      AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.               (RTU114)    ( 03 OCT 74  )

            REFERENCE DATA                                                                                PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =   1097.0000 IN. XT                                        MACH   =      4.520   PTOTL   =      90.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YT                                        ALPHA  =      -.400   BETA    =       5.400
BREF  =  1290.3000 INCHES    ZMRP  =    450.0000 IN. ZT                                        DALPHA =       .000   DBETA   =       8.000
SCALE =       .0100                                                                            X      =    300.000

                          RUN NO.  340/ 0    RN/L =   5.85

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA    X
  -398.500   -101.900    -.05517     .19073     .01914    -.16130     .03783    -.01507     .07155    7.97800  300.30000
  -398.970      -.003    -.05639     .18979     .01971    -.16233     .03885    -.01527     .04920    7.95440  299.80000
  -398.370    100.040    -.06144     .18918     .02356    -.16372     .04018    -.01684     .03638    7.94970  300.00000
  -399.270    200.260    -.06244     .18988     .02443    -.16424     .04048    -.01728     .02484    7.96970  300.11000
  -398.040    400.270    -.06235     .18999     .02444    -.16381     .04039    -.01724     .02921    7.91160  299.86000

                          RUN NO.  339/ 0    RN/L =   5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA    X
  -198.440   -100.280    -.03640     .18957     .00505    -.11987     .01447    -.01093     .04467    7.96740  299.87000
  -200.700       .374    -.04251     .19004     .01086    -.12980     .02150    -.01423     .04002    8.03010  300.09000
  -197.280     99.579    -.03990     .19051     .01024    -.13441     .02456    -.01460     .05662    7.91450  299.59000
  -198.850    198.710    -.03957     .18879     .00933    -.14071     .02779    -.01446     .09798    8.02790  299.75000
  -200.800    400.680    -.06024     .18910     .02291    -.16183     .03882    -.01738    -.00341    8.07320  300.27000

                                      AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.               (RTU115)    ( 03 OCT 74  )

            REFERENCE DATA                                                                                PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =   1097.0000 IN. XT                                        MACH   =      4.520   PTOTL   =      90.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YT                                        ALPHA  =      -.400   BETA    =       5.400
BREF  =  1290.3000 INCHES    ZMRP  =    450.0000 IN. ZT                                        DALPHA =      5.000   DBETA   =       8.000
SCALE =       .0100                                                                            X      =    300.000

                          RUN NO.  341/ 0    RN/L =   5.85

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA    X
  -400.090   -100.460    -.05667     .19012     .02013    -.16187     .03844    -.01547    5.06600    8.00890  300.07000
  -400.080      -.590    -.05827     .18948     .02117    -.16287     .03935    -.01583    5.08030    8.01610  300.01000
  -399.650     99.535    -.06240     .18967     .02441    -.16422     .04044    -.01724    5.05920    8.01960  300.06000
  -400.490    199.280    -.06220     .19007     .02439    -.16416     .04048    -.01728    5.06490    8.04840  300.25000
  -399.040    399.880    -.06269     .19033     .02453    -.16432     .04052    -.01729    5.04180    7.98700  300.02000
```

```
                                    AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.             (RTU115)    ( 03 OCT 74  )

             REFERENCE DATA                                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                 MACH    =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                                ALPHA   =      -.400   BETA   =      5.400
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                 DALPHA  =      5.000   DBETA  =      8.000
SCALE =       .0100                                                                   X       =    300.000

                        RUN NO.  342/ 0    RN/L =   5.85

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA     X
  -199.940    -98.276    -.04704     .19061      .01372     -.12531      .01832     -.01395     4.98380     8.05300  299.64000
  -200.320      -.204    -.04671     .19099      .01452     -.13304      .02398     -.01567     5.03830     8.02170  300.16000
  -199.190     99.588    -.03992     .19037      .01022     -.13784      .02648     -.01450     5.04710     7.95970  300.03000
  -201.830    199.620    -.04303     .18881      .01180     -.14506      .03006     -.01540     5.04690     8.06640  300.46000
  -200.580    401.170    -.06176     .18951      .02399     -.16358      .04003     -.01729     4.96760     8.02320  300.16000

                                    AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.             (RTU116)    ( 03 OCT 74  )

             REFERENCE DATA                                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                 MACH    =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                                ALPHA   =      -.400   BETA   =      5.400
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                 DALPHA  =      5.000   DBETA  =      8.000
SCALE =       .0100                                                                   X       =       .000

                        RUN NO.  344/ 0    RN/L =   5.86

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA     X
  -397.770   -100.190    -.05299     .18976      .01749     -.15598      .03439     -.01499     5.04370     7.98230     .26202
  -398.670       .667    -.05439     .18916      .01841     -.15815      .03590     -.01529     4.99020     8.01080     .04933
  -397.770    100.130    -.05974     .18862      .02247     -.16233      .03908     -.01660     5.02010     7.95790    -.01738
  -398.680    200.000    -.06233     .18942      .02439     -.16399      .04043     -.01726     5.02950     7.96980     .00681
  -397.450    400.200    -.06229     .19013      .02444     -.16391      .04039     -.01725     5.02060     7.90710    -.34925

                        RUN NO.  343/ 0    RN/L =   5.86

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA     X
  -199.040   -101.420    -.04563     .19096      .01182     -.09866      .01031     -.01276     5.10650     7.97360     .13917
  -199.520      -.199    -.04503     .19164      .01331     -.10564      .01730     -.01516     5.02940     7.99100    -.16033
  -199.630     99.879    -.03700     .19259      .01039     -.11863      .02284     -.01500     5.03300     7.99610    -.07646
  -199.670    199.990    -.03370     .18987      .00733     -.13599      .02739     -.01442     5.02680     7.99830    -.14904
  -199.380    399.810    -.05954     .18961      .02260     -.16110      .03836     -.01741     5.04560     7.99540     .05579
```

```
                                  AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.               (RTU117)   ( 03 OCT 74  )

            REFERENCE DATA                                                                         PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                               MACH   =     4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                               ALPHA  =     -.400   BETA   =      5.400
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                               DALPHA =    -5.000   DBETA  =      8.000
SCALE =       .0100                                                                 X      =      .000

                           RUN NO.  345/ 0    RN/L =   5.85

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
  -399.850     99.521    -.04900     .18891     .01421    -.13643     .03460    -.01368   -4.91010    7.97830    -.04259
  -400.540    198.990    -.05925     .18790     .02186    -.16206     .03888    -.01636   -4.89660    8.03620    -.00281
  -399.660    399.970    -.06255     .19004     .02448    -.16405     .04043    -.01726   -4.96170    7.99200    -.16793

                           RUN NO.  346/ 0    RN/L =   5.85

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
  -199.640     99.912    -.02717     .19081     .00030    -.09376     .00891    -.01135   -4.97720    8.00050    -.32037
  -198.900    200.780    -.02487     .19114     .00222    -.10849     .01360    -.01377   -5.02800    7.92150    -.04684
  -199.530    399.710    -.04826     .18771     .01562    -.14861     .03111    -.01738   -4.95850    8.00140     .18731

                                  AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.               (RTU118)   ( 03 OCT 74  )

            REFERENCE DATA                                                                         PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                               MACH   =     4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                               ALPHA  =     -.400   BETA   =      5.400
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                               DALPHA =    -5.000   DBETA  =      8.000
SCALE =       .0100                                                                 X      =   300.000

                           RUN NO.  348/ 0    RN/L =   5.85

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
  -401.840     99.047    -.05769     .18899     .02054    -.16302     .03954    -.01560   -4.95080    8.06870  300.64000
  -398.010    199.580    -.06237     .18947     .02440    -.16400     .04043    -.01726   -4.94610    7.93130  299.82000
  -397.640    400.390    -.06238     .19007     .02445    -.16389     .04038    -.01724   -4.98620    7.91310  299.91000

                           RUN NO.  347/ 0    RN/L =   5.86

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
  -198.990     99.670    -.03498     .18961     .00621    -.12846     .02088    -.01343   -4.93750    7.93410  299.65000
  -199.950    199.940    -.03399     .18871     .00570    -.13443     .02392    -.01340   -4.96040    7.99990  300.00000
  -198.960    399.780    -.05672     .18826     .02057    -.15723     .03586    -.01751   -4.95900    7.98200  299.91000
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU119) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.500 BETA = 10.900
DALPHA = .200 DBETA = .000
X = .000

RUN NO. 352/ 0 RN/L = 5.90

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
9.325	-99.937	-.04925	.19984	.01216	-.36189	.08472	-.03915	.14888	.03468	-.11820
10.494	-.222	-.05609	.19635	.01870	-.35588	.08233	-.03762	.15522	-.00564	.04853
10.927	99.630	-.05449	.19990	.01955	-.36262	.08980	-.04061	.15538	-.01885	.03463
10.644	199.680	-.04551	.20214	.01568	-.37244	.09864	-.04033	.16164	-.01439	-.11159
10.535	399.840	-.04458	.20092	.01372	-.35458	.09779	-.03682	.16047	-.01123	-.05606

RUN NO. 351/ 0 RN/L = 5.92

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
98.979	-100.100	-.04679	.19619	.01101	-.34871	.08679	-.03988	.13659	.08084	-.06817
102.390	-1.928	-.05603	.19974	.01954	-.35458	.09145	-.03860	.21949	-.08924	-.10880
102.750	98.109	-.04680	.20246	.01378	-.35746	.09615	-.04056	.22676	-.07617	.00685
99.874	199.940	-.03933	.20399	.00886	-.36091	.10021	-.04045	.13951	.00447	-.18074
99.679	399.840	-.04580	.20113	.01354	-.35339	.09780	-.03679	.15167	.00971	-.03750

RUN NO. 350/ 0 RN/L = 5.93

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.390	-100.120	-.06213	.19547	.02311	-.34775	.08927	-.03633	.15265	-.00106	.04010
200.240	-.938	-.05659	.20104	.02040	-.35269	.09521	-.03855	.19958	.01774	-.02336
200.290	100.530	-.04644	.20286	.01317	-.35667	.09816	-.03995	.12079	-.02078	.01556
199.750	200.640	-.03936	.20380	.00836	-.35640	.09867	-.03993	.11153	-.00627	.01193
198.160	399.680	-.04603	.20111	.01276	-.35217	.09769	-.03685	.14756	.05931	.08191

RUN NO. 349/ 0 RN/L = 5.93

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
399.320	-100.350	-.05552	.20167	.01895	-.36074	.10459	-.03794	.16130	.04658	-.06841
400.210	-.253	-.05315	.20203	.01744	-.35877	.10292	-.03708	.15446	.01147	.04168
400.640	99.822	-.04676	.20126	.01280	-.35451	.09974	-.03753	.14700	.00269	-.08703
400.000	200.180	-.04095	.20155	.00828	-.35264	.09887	-.03920	.14875	.04489	-.00992
399.900	400.270	-.05057	.20063	.01540	-.34513	.09339	-.03716	.13390	.01736	.14704

```
                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.          (RTU120)    ( 03 OCT 74  )

              REFERENCE DATA                                                                 PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH    =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                         ALPHA   =     -.500   BETA   =    10.900
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA  =      .200   DBETA  =      .000
SCALE =       .0100                                                            X       =   300.000

                          RUN NO.  353/ 0    RN/L =   5.91

    Y          Z          CN         CA         CLM        CY          CYN        CBL        DLTALF     DLTBTA     X
  12.795   -102.420    -.04995     .19794     .01376    -.36738     .09636    -.03978     .23910    -.06441  300.11000
  10.465      -.092    -.05426     .19740     .01829    -.36377     .09655    -.04000     .15200    -.00172  300.00000
  10.477     99.917    -.04350     .20208     .01185    -.36553     .09956    -.04097     .15101    -.00044  300.13000
  10.132    199.910    -.02723     .20201     .00976    -.36655     .10103    -.04231     .14833     .01188  300.06000
  10.303    401.570    -.04154     .20064     .01015    -.35074     .09687    -.03588     .09699     .01850  299.93000

                          RUN NO.  354/ 0    RN/L =   5.90

    Y          Z          CN         CA         CLM        CY          CYN        CBL        DLTALF     DLTBTA     X
 101.590   -100.970    -.04426     .19755     .01041    -.36352     .09605    -.04197     .17858    -.00169  299.90000
  98.298      2.022    -.05129     .19948     .01714    -.36751     .10005    -.04056     .06497     .06034  300.00000
  99.100    100.900    -.03930     .20481     .01001    -.36935     .10345    -.04072     .14761     .05493  300.01000
  98.447    201.690    -.02242     .20255    -.00399    -.36572     .10249    -.04301     .06868     .08814  300.07000
 100.870    399.760    -.04605     .20074     .01230    -.34883     .09575    -.03702     .15404    -.00951  300.06000

                          RUN NO.  355/ 0    RN/L =   5.89

    Y          Z          CN         CA         CLM        CY          CYN        CBL        DLTALF     DLTBTA     X
 199.540   -100.040    -.05925     .20081     .02141    -.36083     .10271    -.03736     .12386     .02115  299.89000
 201.460       .008    -.05063     .20340     .01572    -.36062     .10302    -.03796     .13005    -.03178  299.91000
 201.520     99.212    -.03861     .20264     .00713    -.35700     .10043    -.03962     .20312    -.01855  299.98000
 202.500    200.390    -.03836     .20072     .00599    -.35527     .09961    -.03975     .15626    -.05208  299.95000
 199.080    398.080    -.04941     .20067     .01463    -.34627     .09400    -.03714     .20336     .07880  300.15000

                          RUN NO.  356/ 0    RN/L =   5.89

    Y          Z          CN         CA         CLM        CY          CYN        CBL        DLTALF     DLTBTA     X
 400.440   -100.110    -.05277     .20106     .01705    -.34651     .09400    -.03651     .14903    -.01191  299.96000
 400.820      -.154    -.04966     .20116     .01491    -.34632     .09424    -.03714     .15543    -.06517  300.17000
 401.540    100.090    -.04460     .20172     .01096    -.34723     .09485    -.03904     .13875    -.06776  300.18000
 400.540    199.900    -.04888     .20098     .01407    -.34588     .09367    -.03776     .13159    -.02839  300.01000
 399.650    399.620    -.05092     .20121     .01559    -.34539     .09343    -.03716     .15219    -.00930  299.96000
```

```
                                        AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.            (RTU121)    ( 03 OCT 74  )

              REFERENCE DATA                                                                              PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                  MACH   =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                                  ALPHA  =      -.500   BETA   =     10.900
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                  DALPHA =      5.200   DBETA  =       .000
SCALE =       .0100                                                                    X      =    300.000

                          RUN NO.  360/ 0    RN/L =   5.88

        Y         Z         CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA      X
      9.626    -98.597    -.05901    .19579    .02016    -.36195    .09125    -.03776    5.08160    -.03555  299.99000
      9.031      2.096    -.05802    .19803    .02188    -.35611    .09216    -.03800    5.06030     .07779  299.75000
     10.540     99.780    -.04018    .20391    .01004    -.36015    .09802    -.04153    5.14030    -.00792  300.00000
     10.441    199.740    -.03790    .20232    .00767    -.35822    .09694    -.03981    5.14350    -.00850  299.91000
      9.456    401.000    -.04466    .20076    .01161    -.34788    .09514    -.03700    5.07590     .01921  299.78000

                          RUN NO.  359/ 0    RN/L =   5.90

        Y         Z         CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA      X
    102.430   -101.910    -.05366    .19781    .01795    -.36523    .09588    -.03965    5.21290    -.06352  300.36000
    102.430     -2.613    -.05466    .20035    .01985    -.36392    .09791    -.03843    5.23560    -.07327  300.40000
    100.700     99.956    -.03565    .20512    .00738    -.36344    .10042    -.04082    5.14270     .00069  300.12000
    100.690    199.880    -.03522    .20149    .00470    -.35983    .09964    -.04000    5.14000    -.00694  300.14000
    100.580    399.690    -.04816    .20089    .01360    -.34695    .09444    -.03709    5.14220    -.00374  300.11000

                          RUN NO.  358/ 0    RN/L =   5.89

        Y         Z         CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA      X
    200.640   -100.290    -.05690    .20139    .01974    -.35935    .10142    -.03642    5.16180    -.01000  300.06000
    200.590      -.034    -.04986    .20331    .01522    -.35799    .10116    -.03751    5.17630    -.01707  299.99000
    200.280    101.300    -.03894    .20245    .00715    -.35522    .09930    -.03962    5.09030    -.00115  299.97000
    199.510    200.310    -.04616    .20096    .01209    -.35251    .09771    -.03768    5.09820     .02483  299.92000
    200.520    399.690    -.05083    .20114    .01553    -.34590    .09352    -.03720    5.15050    -.00673  300.04000

                          RUN NO.  357/ 0    RN/L =   5.88

        Y         Z         CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA      X
    399.890   -100.690    -.05213    .20048    .01654    -.34595    .09353    -.03647    5.17670     .03374  300.21000
    400.240      -.363    -.04971    .20149    .01479    -.34694    .09438    -.03732    5.15060    -.00047  300.04000
    400.340     99.963    -.04518    .20135    .01129    -.34653    .09440    -.03892    5.15130     .00244  300.06000
    400.520    199.670    -.05086    .20109    .01547    -.34570    .09345    -.03717    5.15620     .01808  300.19000
    400.100    399.940    -.05062    .20146    .01547    -.34626    .09363    -.03724    5.14200     .00219  300.04000
```

```
                                   AEDC/VA528(IA87)-O1ET151-ORB/ET W R/M SRB SEPAR.              (RTU122)    ( 03 OCT 74  )

           REFERENCE DATA                                                                               PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                  MACH   =      4.520   PTOTL   =     90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                                  ALPHA  =      -.500   BETA    =     10.900
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                  DALPHA =      5.200   DBETA   =       .000
SCALE =       .0100                                                                    X      =       .000

                      RUN NO.  361/ 0    RN/L =   5.88

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
   10.513    -99.851    -.06134      .19980      .02206     -.35767      .08064     -.03584     5.14790      .00426    -.09764
   10.465       .124    -.06087      .19790      .02319     -.34732      .07911     -.03638     5.13640      .00543    -.03366
   10.007    100.060    -.06015      .19961      .02331     -.35518      .08804     -.03865     5.14070      .01602     .03334
   10.953    199.820    -.04263      .20249      .01302     -.36448      .09799     -.04045     5.13970     -.01637     .13338
    9.987    397.640    -.04599      .20118      .01391     -.35174      .09676     -.03684     5.22530      .03467     .36461

                      RUN NO.  362/ 0    RN/L =   5.87

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
  100.410    -99.891    -.06617      .19842      .02624     -.34821      .08570     -.03507     5.13550      .00702    -.11833
  101.520      1.797    -.05668      .20057      .02070     -.35037      .08947     -.03805     5.08620     -.03236    -.16006
  100.620     99.713    -.04957      .20226      .01588     -.35250      .09390     -.03910     5.14540     -.00942    -.01657
  100.600    199.740    -.04013      .20366      .00923     -.35443      .09701     -.04025     5.14120     -.007[illegible]     .06024
  101.060    399.810    -.04611      .20138      .01324     -.35172      .09699     -.03690     5.15150     -.01495     .03561

                      RUN NO.  363/ 0    RN/L =   5.87

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
  200.050   -101.180    -.05942      .19819      .02157     -.34949      .09049     -.03637     5.18870      .00974     .11161
  200.970      -.844    -.05364      .20249      .01855     -.35182      .09428     -.03843     5.17660     -.02729     .11286
  201.920     99.865    -.05012      .20307      .01609     -.35222      .09556     -.03818     5.14310     -.04935     .20377
  203.320    200.500    -.03867      .20343      .00756     -.35341      .09708     -.03999     5.14110     -.08964     .21222
  199.390    399.180    -.04665      .20112      .01293     -.35028      .09644     -.03698     5.17360      .03952     .24799

                      RUN NO.  364/ 0    RN/L =   5.87

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
  400.620   -100.200    -.05358      .20205      .01749     -.35966      .10316     -.03730     5.15160     -.00849     .03651
  399.710      -.292    -.05283      .20145      .01695     -.35693      .10118     -.03672     5.15160      .01213    -.02512
  401.290     99.934    -.04640      .20192      .01245     -.35371      .09879     -.03753     5.15220     -.01685     .21661
  400.340    199.890    -.04238      .20179      .00918     -.35133      .09760     -.03910     5.14270     -.00470     .04575
  400.870    399.900    -.05075      .20097      .01548     -.34537      .09336     -.03713     5.12700     -.05044     .14582
```

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU123) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.500 BETA = 10.900
DALFHA = -4.900 DBETA = .000
X = .000

RUN NO. 368/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
10.013	99.477	-.05084	.20064	.01543	-.37412	.09252	-.04205	-4.83530	.01502	-.05280
11.003	199.440	-.04020	.20152	.01128	-.38512	.10123	-.04313	-4.83600	-.01379	-.16152
10.563	399.660	-.03740	.20099	.01006	-.36482	.10298	-.03668	-4.83350	-.01688	-.27143

RUN NO. 367/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.330	99.877	-.04490	.20201	.01185	-.36519	.09892	-.04348	-4.85950	-.00500	-.01801
105.000	199.640	-.03396	.20541	.00479	-.37054	.10395	-.04256	-4.78900	-.06655	.26447
100.680	401.750	-.04495	.20116	.01332	-.35811	.09971	-.03689	-4.90730	-.02316	.07647

RUN NO. 365/ 0 RN/L = 5.88

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.620	100.050	-.04632	.20520	.01344	-.36073	.10027	-.04084	-4.85850	-.00808	-.06049
200.040	201.000	-.03747	.20436	.00698	-.36289	.10211	-.04119	-4.89620	-.00046	.08931
199.500	400.230	-.04568	.20127	.01293	-.35556	.09918	-.03679	-4.88180	-.04318	-.23740

RUN NO. 365/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.390	99.898	-.04798	.20224	.01359	-.35987	.10346	-.03867	-4.86500	.00866	.02053
400.580	200.290	-.03919	.20220	.00693	-.35653	.10099	-.03950	-4.86550	.01409	.01065
400.070	400.100	-.04995	.20127	.01483	-.34750	.09456	-.03717	-4.85660	.01289	.17763

```
                    AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR.           (RTU124)    ( 03 OCT 74  )

      REFERENCE DATA                                                              PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                      MACH   =     4.320   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                     ALPHA  =     -.500   BETA   =    10.900
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                      DALPHA =    -4.900   DBETA  =      .000
SCALE =       .0100                                                        X      =   300.000

                         RUN NO.  369/ 0    RN/L =   5.87

      Y         Z         CN         CA        CLM        CY        CYN       CBL      DLTALF    DLTBTA     X
   11.701    99.014    -.03778     .20300     .00717    -.37439    .10258   -.04316   -4.85410   -.05835 299.85000
    9.771   199.840    -.02007     .20452    -.00305    -.38203    .10866   -.04456   -4.85390    .01914 299.96000
   11.362   402.340    -.03722     .20193     .00827    -.35805    .10084   -.03663   -4.94400   -.05260 [illegible]0.16000

                         RUN NO.  370/ 0    RN/L =   5.87

      Y         Z         CN         CA        CLM        CY        CYN       CBL      DLTALF    DLTBTA     X
  102.300    98.572    -.03713     .20428     .00762    -.37603    .10633   -.04277   -4.82680   -.06823 299.69000
   97.065   200.380    -.01498     .20470    -.00755    -.37434    .10712   -.04482   -4.81920    .09723 300.00000
  100.750   399.640    -.04430     .20198     .01138    -.35238    .09769   -.03692   -4.84080   -.01396 299.99000

                         RUN NO.  371/ 0    RN/L =   5.87

      Y         Z         CN         CA        CLM        CY        CYN       CBL      DLTALF    DLTBTA     X
  202.770   100.650    -.03639     .20498     .00547    -.36188    .10380   -.04089   -4.91370   -.09104 300.12000
  202.100   199.760    -.03109     .20212     .00980    -.35994    .10223   -.04159   -4.79690   -.00225 300.12000
  200.370   397.200    -.04757     .20079     .01324    -.34888    .09567   -.03705   -4.76510   -.01653 299.76000

                         RUN NO.  372/ 0    RN/L =   5.87

      Y         Z         CN         CA        CLM        CY        CYN       CBL      DLTALF    DLTBTA     X
  400.680    99.961    -.04390     .20195     .01054    -.34806    .09540   -.03906   -4.86070   -.01082 300.03000
  401.170   199.849    -.04456     .20109     .01071    -.34665    .09427   -.03918   -4.86430   -.05510 299.98000
  400.410   399.610    -.05082     .20127     .01553    -.34569    .09346   -.03716   -4.84490   -.01636 300.02000
```

```
                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.          (RTU125)    ( 03 OCT 74 )

          REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                              MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRF  =      .0000 IN. YT                              ALPHA  =     -.500   BETA   =    10.900
BREF  =  1290.3000 INCHES   ZMRF  =   450.0000 IN. ZT                              DALPHA =      .200   DBETA  =    -4.000
SCALE =       .0100                                                                X      =      .000

                         RUN NO.  375/ 0    RN/L =   5.87

    Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF    DLTBTA      X
 100.320   -100.150    -.04512     .19820     .00944    -.36919     .09542    -.03875     .16114   -4.00490   -.13806
 100.810      -.010    -.05138     .19957     .01588    -.36943     .09487    -.03869     .15562   -4.00690   -.09303
 100.690     99.897    -.04927     .19919     .01606    -.37122     .09980    -.04049     .15367   -4.00540   -.04407
  99.978    199.970    -.03687     .20390     .00793    -.36825     .10255    -.04047     .14593   -3.99310   -.11361
 101.680    401.420    -.04569     .20151     .01368    -.35378     .09764    -.03689     .09210   -4.07190    .16878

                         RUN NO.  374/ 0    RN/L =   5.88

    Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF    DLTBTA      X
 200.590   -100.210    -.04399     .19861     .00867    -.35725     .09460    -.04069     .14150   -4.00670    .04276
 200.670     -1.726    -.05099     .20202     .01631    -.36214     .09973    -.03970     .22503   -4.01990   -.10789
 200.670    100.350    -.04414     .20416     .01201    -.36262     .10118    -.03906     .14745   -4.02130    .07871
 199.420    201.470    -.03860     .20399     .00616    -.35919     .09974    -.03979     .06574   -3.99740   -.08225
 198.550    399.420    -.04573     .20139     .01275    -.35278     .09770    -.03688     .14764   -3.94370   -.17301

                         RUN NO.  373/ 0    RN/L =   5.88

    Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF    DLTBTA      X
 399.840    -99.771    -.05442     .20285     .01814    -.36440     .10653    -.03886     .13122   -3.96160   -.08819
 399.180      -.909    -.05187     .20278     .01643    -.36156     .10440    -.03769     .19381   -3.99170   -.06596
 400.830     99.756    -.04677     .20191     .01278    -.35719     .10116    -.03761     .14437   -4.00380    .01833
 400.900    200.170    -.03958     .20199     .00732    -.35530     .10006    -.03940     .15855   -3.98690   -.07073
 399.993    400.260    -.05024     .20081     .01515    -.34607     .09379    -.03714     .13029   -3.98000    .08298
```

```
                                        AEDC/VA528(IA87)-O1ET151-ORB/ET W R/M SRB SEPAR.          (RTU126)   ( 03 OCT 74  )

            REFERENCE DATA                                                                            PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                               MACH    =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                              ALPHA   =      -.500   BETA   =     10.900
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                               DALPHA  =       .200   DBETA  =     -4.000
SCALE =       .0100                                                                 X       =    300.000

                          RUN NO.  376/ 0    RN/L =   5.88

     Y          Z          CN          CA          CLM         CY          CYN         CBL         DLTALF    DLTBTA     X
  100.440   -100.170    -.03450     .20059      .00378     -.37879      .10334     -.04283      .14780   -3.99130  299.91000
  100.010      -.339    -.04778     .19859      .01419     -.37928      .10515     -.04138      .16344   -4.01740  300.01000
   99.074    101.420    -.04015     .20395      .01108     -.37798      .10713     -.04034      .11741   -3.93630  299.92000
   98.611    201.470    -.01935     .20257     -.00530     -.36959      .10377     -.04321      .09940   -3.93210  299.91000
  100.750    399.760    -.04543     .20196      .01204     -.34928      .09582     -.03703      .15831   -4.01770  300.00000

                          RUN NO.  377/ 0    RN/L =   5.87

     Y          Z          CN          CA          CLM         CY          CYN         CBL         DLTALF    DLTBTA     X
  201.620   -101.170    -.04829     .20209      .01296     -.36665      .10602     -.04054      .16594   -4.02780  300.12000
  202.200       .283    -.04611     .20313      .01239     -.36625      .10580     -.03874      .10214   -4.03750  300.13000
  202.740     99.550    -.03763     .20313      .00656     -.36108      .10256     -.03960      .17614   -4.07290  300.21000
  203.010    199.600    -.03859     .20084      .00614     -.35635      .09984     -.03958      .20063   -4.08210  300.09000
  200.330    398.340    -.04911     .20100      .01429     -.34713      .09436     -.03714      .19923   -3.97150  300.02000

                          RUN NO.  378/ 0    RN/L =   5.88

     Y          Z          CN          CA          CLM         CY          CYN         CBL         DLTALF    DLTBTA     X
  400.770   -100.130    -.05190     .20077      .01643     -.34860      .09586     -.03700      .14624   -4.01040  299.94000
  400 130      -.411    -.04912     .20156      .01442     -.34860      .09549     -.03727      .17453   -3.98160  299.97000
  400.450     99.496    -.04302     .20158      .01545     -.34832      .09551     -.03909      .17858   -4.00650  300.05000
  400.560    199.870    -.04920     .20089      .01415     -.34587      .09358     -.03776      .14393   -4.00080  299.99000
  400.150    399.720    -.05083     .20135      .01552     -.34588      .09352     -.03718      .15667   -4.00040  299.94000
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU127) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0600 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.500 BETA = 10.900
DALPHA = 5.200 DBETA = -4.000
X = 300.000

RUN NO. 81/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.510	-99.921	-.04750	.19718	.01338	-.37744	.10133	-.04043	5.15100	-3.99570	300.01000
100.290	-.013	-.05451	.19947	.02008	-.37288	.10114	-.03829	5.15250	-3.99270	300.06000
100.350	99.883	-.03491	.20477	.00774	-.36920	.10273	-.04072	5.15030	-3.99620	299.97000
100.080	199.800	-.03207	.20237	.00326	-.36254	.10017	-.04011	5.14680	-3.99580	300.01000
101.920	401.210	-.04772	.20127	.01331	-.34762	.09460	-.03714	5.08670	-4.08360	299.93000

RUN NO. 380/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.490	-100.300	-.05481	.[illegible]216	.01827	-.36603	.10497	-.03714	5.16580	-4.00080	300.01000
200.540	-.020	-.04692	.20279	.01321	-.36393	.10392	-.03790	5.19010	-4.02390	300.03000
199.780	101.015	-.03744	.20271	.00635	-.35811	.10078	-.03957	5.11380	-3.97010	299.86000
198.730	200.700	-.04669	.20128	.01272	-.35363	.09812	-.03736	5.08500	-3.93940	299.75000
197.660	399.610	-.05043	.20105	.01531	-.34595	.09357	-.03716	5.13190	-3.89570	299.82000

RUN NO. 379/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
399.960	-99.736	-.05125	.20051	.01599	-.34796	.09515	-.03674	5.11860	-3.96560	299.95000
400.190	-.976	-.04891	.20116	.01425	-.34825	.09544	-.03727	5.18600	-3.95850	300.17000
400.890	100.150	-.04457	.20118	.01083	-.34746	.09492	-.03902	5.13780	-4.01570	300.06000
401.460	199.950	-.05075	.20115	.01550	-.34599	.09356	-.03727	5.14690	-4.01080	300.19000
400.510	399.910	-.05080	.20146	.01552	-.34607	.09359	-.03721	5.14020	-4.00050	300.02000

```
                                  AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.              (RTU128)    ( 03 OCT 74  )

                    REFERENCE DATA                                                                     PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                              MACH    =      4.520   PTOTL   =     90.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YT                             ALPHA   =      -.500   BETA    =     10.900
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                              DALPHA  =      5.200   DBETA   =     -4.000
SCALE =        .0100                                                                X       =       .000

                          RUN NO.   382/ 0     RN/L  =    5.87

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF     DLYBTA       X
   97.842    -100.310     -.06104      .19630      .02158     -.36464      .09039     -.03623     5.17850   -3.91550    -.15371
  100.340       1.896     -.05648      .19657      .02072     -.35861      .08821     -.03790     5.07390   -4.01510    -.27509
  100.550      99.620     -.04940      .20167      .01686     -.36035      .09532     -.03900     5.15240   -4.00620     .09350
  100.700     199.660     -.03844      .20408      .00901     -.35713      .09768     -.04007     5.14280   -4.01070    -.00183
  100.610     399.730     -.04601      .20162      .01333     -.35152      .09669     -.03696     5.14680   -4.00950     .03588

                          RUN NO.   383/ 0     RN/L  =    5.87

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF     DLTBTA       X
  200.450    -100.700     -.05577      .20085      .01931     -.35823      .09491     -.03668     5.16080   -3.99320     .04085
  200.190      -1.976     -.05124      .20195      .01684     -.35908      .09770     -.03852     5.22430   -3.99990     .03280
  201.640      99.138     -.04678      .20195      .01389     -.35723      .09802     -.03865     5.16190   -4.05400     .19009
  200.790     199.790     -.03816      .20384      .00750     -.35461      .09724     -.03996     5.13980   -4.00610     .19243
  198.790     398.320     -.04640      .20133      .01284     -.35029      .09637     -.03696     5.20920   -3.92270     .13139

                          RUN NO.   384/ 0     RN/L  =    5.88

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF     DLTBTA       X
  400.640    -100.020     -.05284      .20246      .01694     -.36235      .10468     -.03784     5.14660   -4.00940    -.04407
  400.930        .254     -.05119      .20230      .01594     -.35964      .10271     -.03712     5.12760   -4.04060    -.04154
  400.800      99.814     -.04547      .20179      .01186     -.35556      .09973     -.03760     5.15870   -4.01430     .03333
  400.030     199.780     -.04128      .20144      .00851     -.35268      .09853     -.03907     5.15350   -3.99860    -.01283
  400.310     399.800     -.05074      .20091      .01556     -.34526      .09328     -.03711     5.12770   -4.02610    -.07136
```

```
                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.             (RTU129)    ( 03 OCT 74  )

         REFERENCE DATA                                                                       PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                           MACH    =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                          ALPHA   =     -.500   BETA   =    10.900
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                           DALPHA  =    -4.900   DBETA  =    -4.000
SCALE =       .0100                                                             X       =      .000

                      RUN NO.  387/ 0    RN/L =   5.87

      Y         Z          CN         CA        CLM        CY        CYN       CBL      DLTALF    DLTBTA       X
   100.710   100.100    -.04223    .20102    .01000    -.38036    .10337   -.04376   -4.85900  -4.01580    .03205
   100.760   200.000    -.02848    .20492    .00244    -.38459    .10987   -.04288   -4.85310  -4.00640    .01400
   100.940   401.970    -.04114    .20093    .01111    -.36014    .10105   -.03674   -4.90850  -4.04470    .18666

                      RUN NO.  386/ 0    RN/L =   5.88

      Y         Z          CN         CA        CLM        CY        CYN       CBL      DLTALF    DLTBTA       X
   200.940   100.130    -.03912    .20457    .00608    -.36986    .10507   -.04232   -4.86290  -4.00720    .01703
   199.990   199.940    -.03480    .20407    .00541    -.36893    .10536   -.04115   -4.83450  -4.00760   -.06370
   199.020   400.890    -.04554    .20132    .01296    -.35596    .09922   -.03681   -4.95480  -4.00330   -.07362

                      RUN NO.  385/ 0    RN/L =   5.88

      Y         Z          CN         CA        CLM        CY        CYN       CBL      DLTALF    DLTBTA       X
   399.530    99.504    -.04625    .20344    .01239    -.36226    .10494   -.03843   -4.83090  -3.90700   -.06919
   401.130   200.090    -.03827    .20184    .00635    -.35773    .10166   -.03955   -4.85290  -4.00370   -.00922
   400.500   400.180    -.04900    .20076    .01427    -.34795    .09508   -.03706   -4.86000  -3.99200    .13085

                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.             (RTU130)    ( 03 OCT 74  )

         REFERENCE DATA                                                                       PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                           MACH    =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                          ALPHA   =     -.500   BETA   =    10.900
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                           DALPHA  =    -4.900   DBETA  =    -4.000
SCALE =       .0100                                                             X       =   300.000

                      RUN NO.  388/ 0    RN/L =   5.87

      Y         Z          CN         CA        CLM        CY        CYN       CBL      DLTALF    DLTBTA       X
   101.070    99.595    -.03668    .20352    .00745    -.38717    .11123   -.04241   -4.83460  -4.01070  300.06000
    97.912   201.010    -.01121    .20440   -.00909    -.38205    .11072   -.04505   -4.85170  -3.93140  299.91000
   100.770   399.570    -.04316    .20156    .01075    -.35273    .09791   -.03691   -4.83600  -4.01570  300.06000

                      RUN NO.  389/ 0    RN/L =   5.87

      Y         Z          CN         CA        CLM        CY        CYN       CBL      DLTALF    DLTBTA       X
   201.900   101.230    -.03148    .20438    .00180    -.36775    .10714   -.04158   -4.93170  -4.04680  300.16000
   203.620   199.940    -.02984    .20157    .00008    -.36267    .10376   -.04147   -4.80150  -4.07720  300.23000
   200.550   399.970    -.04696    .20089    .01287    -.34950    .09604   -.03707   -4.85360  -4.00630  299.98000
```

```
DATE 20 MAY 75                                     IA87 TABULATED SOURCE DATA                                             PAGE  109

                                             AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.                (RTU130)   ( 03 OCT 74  )

                   REFERENCE DATA                                                                            PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                       MACH    =     4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                                       ALPHA   =     -.500   BETA   =     10.900
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                       DALPHA  =    -4.900   DBETA  =     -4.000
SCALE =      .0100                                                                          X       =   300.000

                                 RUN NO.  390/ 0    RN/L =   5.87

       Y           Z          CN          CA         CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
    400.550     100.010     -.04286      .20173      .00972     -.34967      .09661     -.03916    -4.85970    -4.01000  299.93000
    400.550     199.540     -.04402      .20087      .01021     -.34741      .09467     -.03933    -4.84120    -3.99930  300.05000
    400.680     399.830     -.05094      .20139      .01555     -.34582      .09350     -.03718    -4.85630    -4.00320  300.13000

                                             AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.                (RTU131)   ( 03 OCT 74  )

                   REFERENCE DATA                                                                            PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                       MACH    =     4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                                       ALPHA   =     -.500   BETA   =     10.900
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                       DALPHA  =      .200   DBETA  =     -8.000
SCALE =      .0100                                                                          X       =      .000

                                 RUN NO.  392/ 0    RN/L =   5.88

       Y           Z          CN          CA         CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
    200.660    -100.090     -.03016      .19938     -.00106     -.38001      .10716     -.04218      .14887    -8.00710    -.12694
    200.210       -.193     -.04715      .20190     -.01345     -.38185      .10979     -.0397       .16615    -7.99370    -.22071
    199.230     101.350     -.03725      .20308      .00740     -.37492      .10683     -.04036      .10237    -7.98600    -.18945
    200.630     200.080     -.03581      .20321      .00693     -.36696      .10421     -.03952      .14522    -8.01200    -.02853
    200.840     399.910     -.04530      .20149      .01275     -.35303      .09772     -.03687      .15342    -8.00950     .08909

                                 RUN NO.  391/ 0    RN/L =   5.87

       Y           Z          CN          CA         CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
    401.230     -98.561     -.05256      .20363      .01680     -.36856      .10892     -.03988      .04878    -8.01660     .00472
    399.460       -.505     -.04835      .20360      .01375     -.36444      .10571     -.03872      .17596    -7.91220    -.14016
    399.650      98.892     -.04550      .20282      .01212     -.36093      .10318     -.03791      .19623    -7.92220    -.03842
    401.230     200.370     -.03807      .20199      .00627     -.35727      .10107     -.03953      .13997    -8.00040     .17978
    400.810     400.120     -.04941      .20095      .01455     -.34728      .09450     -.03713      .14194    -7.99330     .11368
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU132) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 FTOTL = 90.200
ALPHA = -.500 BETA = 10.900
CALPHA = .200 CBETA = -8.000
X = 300.000

RUN NO. 393/ 0 RN/L = 5.88

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
201.220	-101.460	-.03343	.20277	.00186	-.37883	.11343	-.04368	.22091	-7.96410	300.21000
202.820	-.606	-.04131	.20302	.00929	-.37710	.11112	-.03933	.15923	-8.05600	300.40000
201.160	99.880	-.03245	.20372	.00311	-.37068	.10759	-.04007	.15415	-8.01530	300.15000
200.580	199.960	-.03576	.20037	.00442	-.36098	.10251	-.03938	.14619	-7.99950	300.12000
201.350	400.010	-.04814	.20068	.01365	-.34720	.09460	-.03706	.13624	-8.03840	300.17000

RUN NO. 394/ 0 RN/L = 5.88

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.390	-100.080	-.04998	.20101	.01502	-.35365	.10019	-.03804	.14477	-8.01120	299.93000
399.560	-.335	-.04747	.20104	.01311	-.35073	.09735	-.03745	.17566	-7.96730	299.96000
400.640	99.378	-.04236	.20141	.00940	-.35014	.09706	-.03912	.14292	-8.00350	300.00000
400.750	200.300	-.04826	.20049	.01349	-.34621	.09395	-.03785	.10715	-8.06920	300.02000
400.490	400.180	-.05078	.20133	.01553	-.34540	.09335	-.03712	.11704	-8.02860	300.03000

AEDC/VA526(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU133) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 FTOTL = 90.200
ALPHA = -.500 BETA = 10.900
CALPHA = 5.200 CBETA = -8.000
X = 300.000

RUN NO. 396/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.350	-100.240	-.05160	.20304	.01604	-.37655	.11035	-.03792	5.16100	-8.00300	299.97000
200.970	1.293	-.04218	.20300	.01027	-.37411	.10860	-.03841	5.12790	-8.02760	300.03000
198.330	101.210	-.03344	.20322	.00397	-.36458	.10383	-.03983	5.09480	-7.90020	299.72000
200.650	199.630	-.04509	.20080	.01157	-.35535	.09908	-.03742	5.15090	-8.00740	300.08000
200.580	399.610	-.04989	.20098	.01486	-.34612	.09375	-.03714	5.14390	-8.00700	300.21000

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU133) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.500 BETA = 10.900
DALPHA = 5.200 DBETA = -8.000
X = 300.000

RUN NO. 395/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.070	-99.315	-.04983	.20057	.01483	-.35230	.09868	-.03744	5.09280	-7.95410	299.86000
400.030	-1.209	-.04790	.20126	.01347	-.35059	.09715	-.03730	5.19890	-7.94850	300.11000
400.550	99.675	-.04315	.20094	.00986	-.34871	.09606	-.03908	5.15270	-7.99640	300.02000
401.550	200.490	-.05063	.20078	.01547	-.34554	.09340	-.03713	5.10310	-8.03260	300.10000
400.270	399.840	-.05096	.20125	.01556	-.34531	.09335	-.03713	5.14320	-8.00020	299.93000

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU134) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.500 BETA = 10.900
DALPHA = 5.200 DBETA = -8.000
X = .000

RUN NO. 397/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
201.590	-101.730	-.05203	.19846	.01583	-.37862	.10492	-.03708	5.22100	-8.03420	.19590
200.920	-.204	-.04505	.20315	.01323	-.37022	.10199	-.03885	5.15720	-8.00480	.02414
202.760	98.930	-.04366	.20234	.01247	-.36451	.10086	-.03869	5.17890	-8.08810	.39882
200.760	199.740	-.03563	.20364	.00628	-.35763	.09869	-.03981	5.14410	-8.00450	.07347
199.380	399.180	-.04605	.20149	.01268	-.35079	.09653	-.03700	5.18290	-7.94790	-.04668

RUN NO. 398/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.830	-100.150	-.05088	.20339	.01555	-.36636	.10672	-.03889	5.15130	-8.01560	-.07179
401.740	.763	-.04955	.20334	.01486	-.36270	.10425	-.03760	5.09490	-8.09050	.07845
400.650	100.290	-.04462	.20227	.01146	-.35796	.10110	-.03763	5.13920	-8.03170	-.02540
399.920	199.520	-.03991	.20177	.00754	-.35502	.09976	-.03922	5.16880	-7.98200	-.00762
399.760	398.960	-.05027	.20106	.01520	-.34632	.09376	-.03716	5.17350	-8.01500	.03331

ORIGINAL PAGE IS
OF POOR QUALITY

```
                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.          (RTU135)    ( 03 OCT 74  )

               REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                             MACH    =     4.520   PTOTL   =    90.200
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YT                             ALPHA   =     -.500   BETA    =    10.900
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                             CALPHA  =    -4.900   DBETA   =    -8.000
SCALE =       .0100                                                                X       =      .000

                          RUN NO.  400/ 0    RN/L =   5.88

    Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
 200.380     99.856     -.03356      .20266      .00426     -.39259      .11770     -.04345    -4.84820    -8.00850    -.00620
 198.830    200.850     -.02488      .20338     -.00131     -.38461      .11377     -.04195    -4.88260    -8.00310    -.11435
 200.540    399.780     -.04434      .20065      .01244     -.35644      .09941     -.03675    -4.84570    -8.00250     .02445

                          RUN NO.  399/ 0    RN/L =   5.87

    Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
 400.570     99.971     -.04346      .20386      .01051     -.36490      .10645     -.03925    -4.86080    -7.96020     .07690
 400.620    199.800     -.03687      .20226      .00551     -.35999      .10272     -.03968    -4.84890    -8.00280     .06420
 400.200    400.190     -.04782      .20068      .01353     -.34902      .09589     -.03696    -4.86220    -7.99200     .08957

                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.          (RTU136)    ( 03 OCT 74  )

               REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                             MACH    =     4.520   PTOTL   =    90.200
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YT                             ALPHA   =     -.500   BETA    =    10.900
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                             CALPHA  =    -4.900   DBETA   =    -8.000
SCALE =       .0100                                                                X       =   300.000

                          RUN NO.  401/ 0    RN/L =   5.88

    Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
 203.350    100.640     -.02450      .20422     -.00276     -.37819      .11275     -.04236    -4.88070    -8.05750  300.40000
 201.310    199.910     -.02660      .20136     -.00199     -.37026      .10837     -.04132    -4.85740    -8.01320  300.24000
 201.530    400.970     -.04614      .20073      .01235     -.34947      .09618     -.03692    -4.91290    -8.05920  300.25000

                          RUN NO.  402/ 0    RN/L =   5.88

    Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
 400.580     98.980     -.04145      .20167      .00863     -.35144      .09817     -.03927    -4.85850    -8.01080  300.01000
 399.860    198.680     -.04259      .20087      .00922     -.34830      .09561     -.03942    -4.78950    -7.99640  299.74000
 401.010    401.020     -.05084      .20135      .01554     -.34571      .09347     -.03716    -4.95270    -8.08630  300.28000
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU137) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.500 BETA = 10.000
CALPHA = .200 CBETA = .000
X = .000

RUN NO. 404/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-398.220	-100.440	-.04885	.20130	.01413	-.34459	.09255	-.03647	.16916	-.01336	.09296
-399.020	-.584	-.05026	.20164	.01506	-.34590	.09329	-.03695	.17201	-.00478	.19341
-399.140	99.653	-.05065	.20120	.01548	-.34553	.09339	-.03713	.15527	.00779	.18951
-398.970	199.180	-.05053	.20132	.01545	-.34563	.09340	-.03714	.17682	.01014	.21308
-399.180	400.100	-.05048	.20134	.01544	-.34568	.09344	-.03715	.13743	.00091	.24098

RUN NO. 405/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-198.530	-100.230	-.03932	.20318	.00799	-.32092	.07959	-.03420	.13435	-.00953	.15451
-198.450	.417	-.03936	.20268	.00896	-.31729	.08032	-.03545	.10983	-.01320	.00878
-197.970	99.947	-.03517	.20237	.00636	-.31934	.08114	-.03494	.13309	-.04681	.22328
-197.830	200.480	-.03566	.20116	.00552	-.32866	.08394	-.03432	.10125	-.02870	.37706
-198.370	399.830	-.05053	.20073	.01533	-.34514	.09307	-.03718	.14657	-.01009	.32033

RUN NO. 406/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-98.566	-100.150	-.04010	.20210	.00495	-.29635	.07715	-.03196	.12532	-.01640	.09166
-99.293	.083	-.04501	.20210	.01010	-.29942	.08023	-.03493	.11058	.02254	.04159
-98.614	99.948	-.04205	.20212	.01090	-.30253	.08131	-.03599	.12038	-.00639	.08972
-98.408	199.870	-.03606	.20189	.00810	-.30709	.08153	-.03538	.12508	-.02251	.06712
-99.652	400.830	-.04521	.20047	.01195	-.33886	.08956	-.03693	.11465	.01176	.05724

RUN NO. 407/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-39.737	-100.210	-.04502	.20312	.00379	-.29109	.07662	-.03088	.13818	.03417	.23005
-39.334	-.203	-.05044	.20215	.01175	-.30292	.08255	-.03490	.12527	.02017	.23813
-39.102	99.239	-.03986	.20224	.01147	-.30786	.08452	-.03671	.14287	.01096	.25727
-39.329	199.890	-.03304	.20169	.00932	-.31962	.08480	-.03576	.12672	-.03046	-.01198
-39.349	399.900	-.03943	.20063	.00918	-.33396	.08725	-.03663	.13734	.00082	.10341

```
                      AEDC/VA528(IA87)-O1ET1S1-ORB/ET,W L/H SRB SEPAR.          (RTU138)   ( 03 OCT 74  )

              REFERENCE DATA                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                ALPHA  =     -.500   BETA   =    10.900
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                DALPHA =      .200   DBETA  =      .000
SCALE =       .0100                                                  X      =   300.000

                          RUN NO.  411/ 0    RN/L =   5.87

     Y          Z          CN          CA         CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
  -398.900   -100.330    -.04882     .20144      .01405     -.34473      .09264     -.03645      .15221     -.00453  300.10000
  -398.550       .137    -.05025     .20126      .01502     -.34556      .09323     -.03693      .13804     -.01713  300.07000
  -397.630    100.200    -.05068     .20122      .01541     -.34557      .09333     -.03712      .12738     -.03848  300.18000
  -397.375    200.070    -.05094     .20143      .01552     -.34574      .09342     -.03716      .12419     -.04807  300.29000
  -398.680    400.380    -.05081     .20115      .01348     -.34540      .09329     -.03710      .12223     -.04027  300.16000

                          RUN NO.  410/ 0    RN/L =   5.86

     Y          Z          CN          CA         CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
  -201.050   -100.010    -.04114     .20194      .00891     -.33089      .08399     -.03492      .14974      .08512  300.10000
  -199.090       .794    -.04228     .20133      .00985     -.33247      .08547     -.03562      .10177      .03373  300.22000
  -198.670     99.735    -.04022     .20141      .00822     -.33325      .08587     -.03498      .13970     -.00505  300.23000
  -199.420    200.083    -.04325     .20051      .01015     -.33588      .08760     -.03582      13512       .02144  300.18000
  -199.670    400.050    -.05038     .20040      .01528     -.34522      .09311     -.03714      .12886      .02839  300.13000

                          RUN NO.  409/ 0    RN/L =   5.86

     Y          Z          CN          CA         CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
   -97.110   -101.140    -.03800     .20180      .00637     -.32518      .08236     -.03382      .19041     -.04463  300.40000
   -96.946     -1.325    -.04055     .20148      .00915     -.32649      .08476     -.03532      .16709     -.06863  300.03000
   -98.227     98.655    -.04001     .20142      .00944     -.32769      .08520     -.03562      .17826     -.03609  300.23000
   -99.605    198.120    -.04034     .20088      .00954     -.33219      .08668     -.03592      .22100      .01314  300.20000
   -98.255    399.690    -.04556     .20046      .01201     -.33940      .08972     -.03595      .14663     -.02995  300.12000

                          RUN NO.  408/ 0    RN/L =   5.86

     Y          Z          CN          CA         CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
   -38.568   -100.070    -.03622     .20241      .00448     -.31684      .08029     -.03245      .13824     -.00762  300.12000
   -36.578      1.592    -.04444     .20113      .01104     -.32058      .08507     -.03547      .07307     -.07588  300.52000
   -38.570    101.260    -.04041     .20160      .01009     -.31814      .08418     -.03603      .07105      .01217  300.16000
   -39.233    199.960    -.03852     .20138      .00975     -.32681      .08563     -.03045      .13226      .00431  300.34000
   -37.740    398.130    -.04155     .20061      .01011     -.33678      .08852     -.03682      .20274     -.03996  300.22000
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU139) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.500 BETA = 10.900
DALPHA = 5.200 DBETA = .000
X = 300.000

RUN NO. 412/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-398.180	-100.570	-.04945	.20145	.01437	-.34501	.09281	-.03656	5.17140	-.02983	300.22000
-399.330	-.759	-.05077	.20129	.01541	-.34574	.09335	-.03710	5.16850	.01384	299.97000
-398.980	99.616	-.05058	.20135	.01543	-.34572	.09341	-.03715	5.15730	.00952	300.17000
-399.570	199.080	-.05084	.20136	.01547	-.34570	.09340	-.03714	5.17050	.03533	300.26000
-398.700	399.790	-.05069	.20129	.01545	-.34541	.09331	-.03711	5.14100	-.00718	300.17000

RUN NO. 413/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-198.790	-100.390	-.04288	.20125	.01022	-.33154	.08484	-.03560	5.14210	-.00091	300.32000
-198.910	-.335	-.04241	.20139	.01010	-.33243	.08564	-.03576	5.14340	.00401	300.13000
-199.100	98.523	-.04056	.20115	.00838	-.33398	.08640	-.03502	5.20240	.01235	300.25000
-202.100	199.360	-.04511	.20031	.01153	-.33685	.08832	-.03633	5.14550	.10276	300.19000
-198.020	399.720	-.05061	.20094	.01543	-.34585	.09343	-.03717	5.14060	-.00975	299.98000

RUN NO. 414/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-100.580	-99.208	-.04329	.20163	.01094	-.32796	.08452	-.03587	5.10960	.06469	300.14000
-99.097	1.833	-.04226	.20158	.01093	-.32759	.08572	-.03647	5.04220	.02863	300.02000
-96.698	100.850	-.04001	.20144	.00951	-.32984	.08612	-.03582	5.10200	-.07102	299.97000
-99.575	199.790	-.04208	.20092	.01067	-.33484	.08816	-.03627	5.13970	.00892	300.22000
-99.104	400.040	-.04715	.20032	.01303	-.34084	.09063	-.03702	5.14150	-.02112	300.04000

RUN NO. 415/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-38.074	-99.283	-.04612	.20138	.01198	-.32157	.08454	-.03534	5.09480	-.03030	299.94000
-39.184	-.284	-.04367	.20123	.01228	-.32373	.08723	-.03696	5.13220	.00859	300.16000
-40.567	98.387	-.04882	.20163	.00975	-.32260	.08603	-.03619	5.18590	.00829	300.22000
-39.545	198.410	-.04016	.20120	.01076	-.32982	.08670	-.03675	5.17720	.00991	300.39000
-38.500	399.460	-.04401	.20050	.01126	-.33869	.08955	-.03692	5.14720	-.03091	300.04000

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU140) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 FTOTL = 90.200
ALPHA = -.500 BETA = 10.900
DALPHA = 5.200 DBETA = .000
X = .000

RUN NO. 419/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-398.910	-100.300	-.04952	.20141	.01439	-.34516	.09286	-.03665	5.14360	-.00326	.16599
-398.160	-.036	-.05033	.20124	.01509	-.34562	.09326	-.03699	5.12870	-.01799	.20753
-398.970	100.060	-.05074	.20124	.01545	-.34570	.09336	-.03712	5.12430	-.00043	.12986
-398.570	199.970	-.05092	.20136	.01548	-.34588	.09345	-.03716	5.12850	-.02154	.19579
-397.500	400.300	-.05078	.20146	.01546	-.34599	.09346	-.03717	5.11750	-.08768	.09263

RUN NO. 418/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-198.370	-100.650	-.04186	.20248	.01012	-.32044	.08050	-.03552	5.15250	-.03212	.20161
-198.890	-.643	-.03859	.20244	.00852	-.31739	.08059	-.03559	5.15550	-.00643	.11384
-200.200	99.154	-.03529	.20204	.00627	-.32144	.08175	-.03494	5.17100	.07418	.02502
-200.720	199.350	-.04087	.20067	.00855	-.33345	.08640	-.03536	5.16890	.07575	11264
-197.720	398.780	-.05060	.20085	.01541	-.34545	.09327	-.03712	5.16900	-.04218	.17115

RUN NO. 417/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-98.531	-99.915	-.04685	.20220	.01069	-.29756	.07947	-.03459	5.10970	-.02367	.08314
-98.970	-.296	-.04597	.20191	.01199	-.30192	.08190	-.03626	5.11820	.00407	.11551
-98.732	99.421	-.04136	.20197	.01132	-.30724	.08348	-.03620	5.12330	-.01127	.31480
-98.944	199.630	-.03591	.20210	.00781	-.31170	.08273	-.03530	5.12600	-.00966	.05799
-98.779	399.540	-.04817	.20053	.01370	-.34205	.09125	-.03704	5.14070	-.00721	.10734

RUN NO. 416/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-38.421	-100.100	-.05488	.20246	.01241	-.29659	.08085	-.03454	5.11320	-.02915	-.04012
-38.724	.827	-.04723	.20198	.01307	-.30888	.08617	-.03676	5.07570	.01625	-.16701
-39.460	99.682	-.03800	.20208	.01205	-.31549	.08775	-.03718	5..2230	.01815	.01261
-38.133	197.830	-.03484	.20170	.01014	-.31636	.08659	-.03578	5.20990	-.01452	-.09557
-38.953	400.340	-.04435	.20079	.01160	-.33906	.08979	-.03696	5.10360	.00706	.19983

```
                              AEDC/VA528(IA87)-O1ET151-ORB/ET W L/H SRB SEPAR.            (RTU141)    ( 03 OCT 74  )

          REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                           MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                           ALPHA  =     -.500   BETA   =    10.900
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                           DALPHA =    -4.900   DBETA  =      .000
SCALE =      .0100                                                              X      =      .000

                     RUN NO.  420/ 0    RN/L =   5.86

      Y          Z          CN          CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
  -398.740     99.418    -.05042     .20101     .01529    -.34540     .09327    -.03706   -4.83410    -.02106     .00519
  -399.540    199.400    -.05070     .20123     .01542    -.34580     .09343    -.03716   -4.83340     .02526     .05434
  -399.190    399.930    -.05061     .20113     .01539    -.34533     .09330    -.03711   -4.85860     .00398     .25482

                     RUN NO.  421/ 0    RN/L =   5.86

      Y          Z          CN          CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
  -198.540     99.863    -.03515     .20239     .00611    -.31631     .07979    -.03473   -4.87010    -.01515    -.01732
  -198.660    199.810    -.03213     .20144     .00349    -.32276     .08120    -.03366   -4.86160    -.00729     .18063
  -197.320    400.910    -.04851     .19991     .01384    -.34143     .09089    -.03698   -4.94960    -.05549     .30417

                     RUN NO.  422/ 0    RN/L =   5.86

      Y          Z          CN          CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
   -96.534     99.028    -.03898     .20219     .00713    -.29607     .07880    -.03405   -4.83990    -.09009    -.06739
   -98.464    199.840    -.03486     .20159     .00778    -.29894     .07853    -.03499   -4.88080    -.02218    -.00962
   -99.991    400.900    -.03891     .20012     .00816    -.33294     .08641    -.03607   -4.90070     .03219     .12486

                     RUN NO.  423/ 0    RN/L =   5.86

      Y          Z          CN          CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
   -39.250    100.080    -.03937     .20216     .00750    -.29996     .08126    -.03383   -4.88390     .02087     .22023
   -37.788    199.600    -.03120     .20173     .00783    -.30127     .08158    -.03524   -4.87700    -.03601    -.05606
   -39.100    399.740    -.03103     .20065     .00516    -.32292     .08266    -.03577   -4.86540    -.00338     .08411
```

```
                        AEDC/VA528(IA87)-O1E7131-ORB/ET W L/H SRB SEPAR.          (RTU142)    ( 03 OCT 74  )

           REFERENCE DATA                                                             PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                     MACH   =     4.320  PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                     ALPHA  =     -.500  BETA   =    10.900
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                     CALPHA =    -4.900  DBETA  =      .000
SCALE =        .0100                                                      X      =   300.000

                              RUN NO.   427/ 0    RN/L =   5.86

      Y           Z          CN          CA          CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   -398.700     99.912     -.05064     .20118     .01543     -.34540     .09332    -.03711   -4.85790    -.00749  300.04000
   -397.320    199.540     -.05077     .20127     .01547     -.34563     .09335    -.03712   -4.83930    -.06992  300.13000
   -398.350    400.310     -.05084     .20125     .01546     -.34540     .09332    -.03711   -4.86410    -.03124  300.17000

                              RUN NO.   426/ 0    RN/L =   5.86

      Y           Z          CN          CA          CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   -197.110    100.165     -.03911     .20109     .00757     -.33110     .08476    -.03473   -4.86820    -.06923  300.21000
   -199.750    200.010     -.04044     .20059     .00804     -.33366     .08625    -.03502   -4.86930     .02461  300.18000
   -198.990    400.350     -.04962     .20009     .01461     -.34322     .09190    -.03708   -4.87300     .01373  300.31000

                              RUN NO.   425/ 0    RN/L =   5.86

      Y           Z          CN          CA          CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
    -99.707    100.340     -.03686     .20131     .00676     -.32326     .08284    -.03450   -4.86560     .03080  300.29000
    -99.592    198.870     -.03753     .20082     .00756     -.32825     .08473    -.03513   -4.83690     .00867  300.09000
    -98.229    399.540     -.04296     .19991     .01057     -.33587     .08799    -.03665   -4.84950    -.03314  299.85000

                              RUN NO.   424/ 0    RN/L =   5.86

      Y           Z          CN          CA          CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
    -37.304    100.720     -.04155     .20156     .00935     -.31501     .08328    -.03502   -4.89920    -.06163  300.10000
    -39.476    199.880     -.03596     .20110     .00724     -.31921     .08281    -.03522   -4.85880     .00513  300.15000
    -39.042    400.100     -.03813     .20035     .00829     -.33320     .08672    -.03646   -4.87440     .00567  300.23000
```

```
                          AEDC/VA520(IA87)-O1ET:S1-ORB/ET W L/H SRB SEPAR.          (RTU143)   ( 03 OCT 74 )

          REFERENCE DATA                                                              PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                    MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                    ALPHA  =     -.500   BETA   =    10.900
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                    DALPHA =      200    DBETA  =     4.000
SCALE =        .0100                                                     X      =      .000

                            RUN NO.  428/ 0    RN/L =   5.66

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
  -399.300   -100.130   -.04365     .20133     .01014    -.34132     .09024    -.03501     .15020    3.99750     .01704
  -398.719     -.564    -.04340     .20025     .00976    -.34208     .09108    -.03491     .19030    3.98510     .02628
  -399.220     99.535   -.04973     .20014     .01459    -.34490     .09299    -.03683     .17161    4.01100    -.01014
  -399.420    199.340   -.05052     .20055     .01537    -.34558     .09335    -.03714     .16662    4.04890     .05440
  -359.510    400.140   -.05058     .20118     .01541    -.34562     .09337    -.03713     .14125    4.00450     .12336

                            RUN NO.  429/ 0    RN/L =   5.86

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
  -198.800   -100.200   -.02811     .20182    -.00059    -.30143     .07037    -.03090     .13532    3.99500    -.19127
  -197.400      .354    -.03440     .20171     .00500    -.29988     .07354    -.03398     .07798    3.98240    -.03481
  -198.160     99.903   -.03181     .20146     .00457    -.30528     .07638    -.03492     .11306    3.95840     .02361
  -197.660    200.830   -.02631     .20082     .00032    -.31728     .07941    -.03351     .08817    3.94550     .25810
  -199.890    399.610   -.04833     .19967     .01376    -.34128     .09087    -.03701     .13986    4.00570     .05912

                            RUN NO.  430/ 0    RN/L =   5.86

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
   -98.953   -100.390   -.02823     .20418    -.00579    -.26238     .06183    -.02784     .11230    3.97920    -.11742
   -99.559      .452    -.04187     .20227     .00701    -.27827     .07233    -.03371     .10721    3.99020    -.10240
   -99.531     99.933   -.03325     .20200     .00621    -.28656     .07605    -.03559     .11255    4.00760     .19708
   -99.267    199.660   -.02580     .20075     .00335    -.29807     .07920    -.03594     .12147    3.98500    -.28790
  -101.020    401.380   -.03931     .19995     .00853    -.33390     .08692    -.03655     .08691    4.04070     .02628
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU144) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.500 BETA = 10.900
DALPHA = .200 DBETA = 4.000
X = 300.000

RUN NO. 433/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-398.640	-100.180	-.04572	.20123	.01155	-.34317	.09146	-.03540	.15583	3.98910	300.14000
-398.350	.118	-.04623	.20046	.01175	-.34410	.09226	-.03559	.14487	3.96550	300.10000
-398.330	100.280	-.05044	.20027	.01536	-.34504	.09319	-.03710	.11896	3.94900	300.02000
-398.210	199.650	-.05098	.20123	.01553	-.34550	.09332	-.03711	.14904	3.93460	299.95000
-398.230	400.690	-.05075	.20122	.01545	-.34548	.09330	-.03710	.11703	3.94130	300.21000

RUN NO. 432/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-202.300	-99.426	-.03377	.20186	.00343	-.32090	.07810	-.03302	.13342	4.09110	300.12000
-200.270	.890	-.03555	.20141	.00504	-.32239	.08020	-.03421	.11672	4.04530	300.02000
-199.900	99.855	-.03610	.20092	.00585	-.32696	.08270	-.03454	.14084	4.00600	300.05000
-200.460	200.020	-.03862	.19997	.00718	-.33114	.08513	-.03498	.13873	4.03720	300.19000
-199.800	399.750	-.04922	.19988	.01441	-.34269	.09169	-.03708	.13354	4.02190	300.00000

RUN NO. 431/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-100.130	-100.580	-.02954	.20130	.00004	-.30874	.07353	-.03155	.15556	4.01360	300.09000
-99.263	-.119	-.03775	.20136	.00729	-.31521	.08066	-.03492	.13078	3.99490	300.08000
-99.438	98.034	-.03514	.20169	.00667	-.31525	.08039	-.03536	.19219	3.99370	300.09000
-100.120	198.280	-.03369	.20096	.00580	-.32575	.08378	-.03553	.18777	4.00480	300.43000
-98.894	399.740	-.04262	.20001	.01028	-.33632	.08816	-.03677	.14727	3.97170	299.79000

ORIGINAL PAGE IS
OF POOR QUALITY

```
DATE 20 MAY 75                         IA87 TABULATED SOURCE DATA                                PAGE  121

                                  AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.          (RTU145)    ( 03 OCT 74  )

            REFERENCE DATA                                                                PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                              MACH   =     4.520   FTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                              ALPHA  =     -.500   BETA   =    10.900
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                              DALPHA =     5.200   DBETA  =     4.000
SCALE =       .0100                                                                X      =   300.000

                         RUN NO.  434/ 0    RN/L =    5.86

       Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
   -398.630   -100.600    -.04589     .20079     .01167    -.34352     .09179    -.03551    5.17790    4.00350  300.32000
   -398.900      -.578    -.04778     .20038     .01314    -.34466     .09271    -.03617    5.17120    4.01380  300.26000
   -399.370     99.766    -.05076     .20085     .01543    -.34568     .09337    -.03714    5.14710    4.02600  300.18000
   -398.980    199.130    -.05076     .20126     .01545    -.34569     .09339    -.03714    5.16410    4.03000  300.37000
   -398.600    399.830    -.05086     .20127     .01548    -.34565     .09336    -.03713    5.13760    3.98850  300.18000

                         RUN NO.  435/ 0    RN/L =    5.86

       Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
   -200.710   -100.380    -.03829     .20167     .00702    -.32244     .07953    -.03461    5.13920    4.02890  300.07000
   -200.290      -.276    -.03885     .20101     .00778    -.32599     .08241    -.03534    5.14050    4.01720  300.00000
   -199.470     98.448    -.03691     .20071     .00625    -.32856     .08370    -.03462    5.18200    3.98250  300.18000
   -199.280    199.820    -.04057     .20029     .00863    -.33375     .08642    -.03561    5.13890    3.98750  299.96000
   -199.550    399.730    -.05027     .20041     .01521    -.34484     .09282    -.03713    5.13980    3.99290  299.86000

                         RUN NO.  436/ 0    RN/L =    5.86

       Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
   -100.740    -97.810    -.04058     .20113     .00868    -.31736     .07980    -.03487    5.04640    4.03860  300.00000
   -100.190      1.282    -.03859     .20167     .00959    -.31605     .08198    -.03637    5.08580    4.06690  299.88000
    -99.501     99.624    -.03488     .20116     .00686    -.32049     .08286    -.03569    5.13170    3.99820  299.96000
   -100.650    199.810    -.03640     .20180     .00769    -.32880     .08517    -.03607    5.14030    4.03250  300.12000
    -99.734    400.020    -.04480     .20010     .01157    -.33854     .08936    -.03689    5.14330    3.98230  299.90000
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU146) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.500 BETA = 10.900
DALPHA = 5.200 DBETA = 4.000
X = .000

RUN NO. 439/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-398.940	-100.210	-.04385	.20098	.01015	-.34217	.09085	-.03515	5.14870	4.00030	.14939
-397.880	.289	-.04610	.19998	.01171	-.34352	.09207	-.03574	5.11120	3.98230	.10127
-398.430	99.906	-.05053	.20045	.01537	-.34556	.09326	-.03712	5.12210	3.97740	.14925
-398.750	199.910	-.05084	.20109	.01544	-.34544	.09330	-.03711	5.13120	3.96740	-.06974
-397.810	400.350	-.05082	.20134	.01548	-.34575	.09341	-.03715	5.12220	3.92170	-.06942

RUN NO. 438/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-198.730	-100.100	-.03639	.20243	.00617	-.30388	.07346	-.03380	5.14370	3.98360	.20433
-199.070	-.845	-.03688	.20187	.00753	-.30273	.07591	-.03543	5.16460	4.02870	.07794
-199.590	98.945	-.03098	.20174	.00420	-.30809	.07760	-.03500	5.15120	4.06240	-.10403
-198.420	199.800	-.03069	.20097	.00294	-.32302	.08169	-.03417	5.13540	3.98480	.05470
-197.350	398.120	-.05028	.20040	.01508	-.34426	.09254	-.03710	5.19460	3.94870	.00455

RUN NO. 437/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-97.418	-99.715	-.04813	.20228	.00926	-.27627	.07192	-.03343	5.08470	3.92270	-.47123
-100.130	-.129	-.04030	.20223	.00866	-.28870	.07884	-.03572	5.10220	4.01640	.10336
-99.349	99.368	-.03293	.20185	.00745	-.29857	.08193	-.03610	5.10660	3.94480	.23249
-98.117	199.690	-.02850	.20125	.00520	-.30515	.08178	-.03520	5.12280	3.97140	.18057
-99.456	399.720	-.04445	.20033	.01142	-.33876	.08948	-.03695	5.14090	3.99710	.03708

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU147) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.500 BETA = 10.900
DALPHA = -4.900 DBETA = 4.000
X = .000

RUN NO. 440/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-398.250	99.531	-.04350	.20003	.00958	-.34248	.09137	-.03486	-4.81300	4.00230	.06383
-398.990	199.070	-.05045	.19995	.01527	-.34503	.09308	-.03706	-4.81080	4.01240	-.06225
-398.800	399.970	-.05052	.20109	.01542	-.34526	.09324	-.03708	-4.85860	3.99290	.16001

RUN NO. 441/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-199.170	99.812	-.02698	.20124	.00010	-.29871	.07295	-.03296	-4.87890	3.98670	-.08453
-197.890	199.650	-.02480	.20037	-.00042	-.30936	.07591	-.03366	-4.86180	3.92810	.13157
-199.690	399.660	-.04400	.19946	.01080	-.33560	.08761	-.03665	-4.85840	4.00170	-.15483

RUN NO. 442/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-99.865	99.964	-.03084	.20152	.00188	-.27513	.07057	-.03276	-4.89440	4.01190	-.07915
-99.328	199.950	-.02169	.20160	.00054	-.28254	.07205	-.03429	-4.89460	3.99190	-.11293
-101.020	401.240	-.02944	.19959	.00320	-.32479	.08244	-.03558	-4.91030	4.05680	-.04713

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU148) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.500 BETA = 10.900
DALPHA = -4.900 DBETA = 4.000
X = 300.000

RUN NO. 445/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-398.780	99.976	-.04987	.20047	.01466	-.34514	.09308	-.03677	-4.85670	3.98660	299.87000
-398.420	199.810	-.05099	.20105	.01555	-.34533	.09326	-.03710	-4.84930	3.93390	299.78000
-398.380	400.040	-.05084	.20121	.01543	-.34571	.09340	-.03715	-4.86980	3.92480	300.00000

RUN NO. 444/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-198.180	100.460	-.03303	.20096	.00321	-.32099	.07950	-.03356	-4.86610	3.94270	299.83000
-200.680	200.070	-.03528	.20010	.00469	-.32792	.08313	-.03420	-4.88630	4.03750	300.11000
-201.340	400.550	-.04768	.19941	.01321	-.34003	.09010	-.03694	-4.90240	4.08230	300.31000

```
                                  AEDC/VA528(IA87)-O1ET181-ORB/ET W L/H SRB SEPAR.           (RTU148)    ( 03 OCT 74  )

            REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                              MACH    =    4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YT                             ALPHA   =    -.500   BETA   =    10.900
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                              DALPHA  =   -4.900   DBETA  =     4.000
SCALE =       .0100                                                                 X       =  300.000

                         RUN NO.  443/ 0    RN/L =   5.86

       Y          Z          CN         CA         CLM        CY        CYN        CBL       DLTALF      DLTBTA      X
   -100.120    100.190    -.03114     .20061     .00282    -.30872    .07731    -.03408   -4.87220    4.00530  300.29000
    -99.381    198.140    -.02859     .20042     .00219    -.31835    .07993    -.03454   -4.81200    3.98540  300.08000
    -99.061    399.580    -.03893     .19964     .00811    -.33330    .08640    -.03636   -4.84780    3.97430  299.63000

                                  AEDC/VA528(IA87)-O1ET181-ORB/ET W L/H SRB SEPAR.           (RTU149)    ( 03 OCT 74  )

            REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                              MACH    =    4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YT                             ALPHA   =    -.500   BETA   =    10.900
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                              DALPHA  =     .200   DBETA  =     8.000
SCALE =       .0100                                                                 X       =     .000

                         RUN NO.  446/ 0    RN/L =   5.87

       Y          Z          CN         CA         CLM        CY        CYN        CBL       DLTALF      DLTBTA      X
   -400.160   -100.110    -.03350     .20025     .00258    -.33218    .08423    -.03228     .16571    8.00250    -.10503
   -399.920      -.685    -.03636     .19992     .00479    -.33315    .08530    -.03351     .19699    8.00260    -.20195
   -400.440     99.511    -.03922     .19884     .00648    -.33624    .08780    -.03410     .19569    8.05070    -.10063
   -400.260    199.630    -.04849     .19908     .01377    -.34203    .09135    -.03682     .14649    8.09750     .01220
   -399.300    400.100    -.05075     .20098     .01545    -.34506    .09318    -.03706     .14035    7.99400    -.11226

                         RUN NO.  447/ 0    RN/L =   5.86

       Y          Z          CN         CA         CLM        CY        CYN        CBL       DLTALF      DLTBTA      X
   -199.280   -100.150    -.01618     .20411    -.00781    -.25715    .04869    -.02705     .11281    7.99260    -.21579
   -196.380      -.324    -.02775     .20101    -.00004    -.27117    .06181    -.03246     .07592    7.97600    -.38582
   -199.550     99.832    -.02449     .20087    -.00003    -.27987    .06617    -.03472     .07540    8.00560     .14329
   -198.320    201.130    -.01738     .20008    -.00418    -.29945    .07288    -.03400     .05710    7.92360     .47641
   -200.000    399.810    -.04279     .19925     .01007    -.33554    .08754    -.03674     .13864    8.01000     .11208
```

```
                         AEDC/V[illegible]28(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.          (RTU150)   ( 03 OCT 74  )

          REFERENCE DATA                                                                   PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                          ALPHA  =     -.500   BETA   =    10.900
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA =      .200   DBETA  =     8.000
SCALE =      .0100                                                             X      =   300.000

                       RUN NO.  449/ 0    RN/L =   5.86

       Y          Z          CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
   -399.340   -100.050    -.03927    .20058     .00673    -.33892     .08867    -.03368     .15089    7.98610  299.79000
   -397.600       .053    -.04089    .19999     .00774    -.34010     .08981    -.03423     .13752    7.94580  300.03000
   -398.220    100.170    -.04707    .19931     .01244    -.34337     .09220    -.03611     .11561    7.93810  299.95000
   -398.410    199.860    -.05074    .20022     .01543    -.34535     .09324    -.03710     .12800    7.93760  299.96000
   -399.370    399.880    -.05087    .20096     .01549    -.34509     .09318    -.03706     .14486    7.99890  300.12000

                       RUN NO.  448/ 0    RN/L =   5.85

       Y          Z          CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
   -198.920   -100.190    -.02657    .20097    -.00206    -.30254     .06772    -.03086     .13469    7.98030  299.81000
   -199.760      1.604    -.02926    .20116     .00110    -.31009     .07343    -.03311     .08631    8.00720  300.13000
   -199.080     99.891    -.02901    .20059     .00130    -.31595     .07689    -.03386     .13346    7.99130  300.22000
   -200.620    200.080    -.03094    .19964     .00218    -.32352     .08053    -.03426     .13348    8.04260  300.16000
   -199.240    399.910    -.04734    .19948     .01233    -.34002     .08994    -.03695     .14404    7.98990  299.84000


                         AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.           (RTU151)   ( 03 OCT 74  )

          REFERENCE DATA                                                                   PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                          ALPHA  =     -.500   BETA   =    10.900
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA =     5.200   DBETA  =     8.000
SCALE =      .0100                                                             X      =   300.000

                       RUN NO.  450/ 0    RN/L =   5.86

       Y          Z          CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
   -399.710   -100.450    -.04180    .20069     .00879    -.34025     .08958    -.03463    5.17590    8.01380  300.02000
   -399.560      -.835    -.04261    .19993     .00892    -.34126     .09056    -.03468    5.19940    8.04620  300.24000
   -399.050    100.070    -.05019    .19968     .01490    -.34449     .09277    -.03693    5.12830    8.07020  300.09000
   -399.360    199.300    -.05088    .20070     .01548    -.34555     .09331    -.03712    5.15510    8.03620  300.13000
   -398.910    399.860    -.05083    .20105     .01548    -.34510     .09318    -.03705    5.13890    7.98800  300.06000
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                                    AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.              (RTU151)    ( 03 OCT 74  )

           REFERENCE DATA                                                                             PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                   MACH    =     4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                                  ALPHA   =     -.500   BETA   =     10.900
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                   DALPHA  =     5.200   DBETA  =      8.000
SCALE =       .0100                                                                     X       =   300.000

                     RUN NO.  451/ 0    RN/L =    5.86

       Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
   -200.310   -100.470    -.03408     .20112      .00432     -.30967      .07252     -.03376     5.13440     8.03250   300.30000
   -199.910      -.253    -.03303     .20125      .00407     -.31569      .07696     -.03490     5.12930     8.01140   300.07000
   -200.190     98.479    -.03012     .20058      .00212     -.31887      .07857     -.03421     5.15290     7.98920   300.23000
   -202.980    198.890    -.03468     .19959      .00489     -.32771      .08331     -.03483     5.18230     8.08120   300.90000
   -199.320    339.420    -.04937     .19983      .01435     -.34258      .09151     -.03706     5.14730     7.98710   299.69000

                                    AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.              (RTU152)    ( 03 OCT 74  )

           REFERENCE DATA                                                                             PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                   MACH    =     4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                                  ALPHA   =     -.500   BETA   =     10.900
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                   DALPHA  =     5.200   DBETA  =      8.000
SCALE =       .0100                                                                     X       =      .000

                     RUN NO.  453/ 0    RN/L =    5.86

       Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
   -400.000   -100.200    -.03859     .20009      .00663     -.33325      .08542     -.03416     5.14440     8.01260    -.03317
   -398.820       .463    -.03801     .19979      .00585     -.33467      .08655     -.03392     5.09830     7.98240    -.03085
   -398.890     99.837    -.04537     .19891      .01110     -.33954      .08989     -.03586     5.12310     7.93870    -.17547
   -399.360    199.770    -.05052     .19977      .01528     -.34494      .09293     -.03707     5.12910     7.96570    -.11995
   -398.320    400.160    -.05093     .20111      .01549     -.34535      .09325     -.03708     5.12630     7.91070    -.09888

                     RUN NO.  452/ 0    RN/L =    5.86

       Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
   -200.070   -100.380    -.03384     .20291      .00261     -.27765      .06077     -.03257     5.15470     7.97640     .05679
   -200.280     -1.015    -.03021     .20158      .00314     -.28017      .06741     -.03498     5.16100     8.08000    -.01779
   -200.530     99.355    -.02578     .20137      .00146     -.29111      .07274     -.03523     5.11420     8.09300    -.52855
   -198.860    199.700    -.01885     .20037     -.00312     -.30816      .07612     -.03392     5.12890     7.98440    -.01094
   -199.270    399.730    -.04785     .19963      .01332     -.34103      .09058     -.03702     5.14260     7.99670     .20596
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU153) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.500 BETA = 10.900
CALPHA = -4.900 CBETA = 8.000
X = .000

RUN NO. 454/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-399.950	99.657	-.03279	.19875	.00199	-.33146	.08459	-.03247	-4.81370	8.01030	-.01206
-400.280	199.030	-.04212	.19827	.00841	-.33777	.08875	-.03494	-4.78750	8.08340	.03582
-399.660	399.840	-.05095	.20022	.01550	-.34531	.09324	-.03711	-4.85420	7.99610	-.02886

RUN NO. 455/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-199.320	99.878	-.01536	.20050	-.00795	-.26537	.05846	-.03085	-4.90030	7.98630	-.30230
-199.550	200.240	-.01551	.20053	-.00593	-.28052	.06375	-.03371	-4.93700	8.00720	.12010
-199.780	399.690	-.03338	.19787	.00404	-.32814	.08319	-.03563	-4.85750	8.00500	.01916

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU154) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.500 BETA = 10.900
CALPHA = -4.900 CBETA = 8.000
X = 300.000

RUN NO. 457/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-398.740	99.778	-.04244	.19916	.00860	-.34126	.09077	-.03454	-4.84290	7.97490	299.62000
-397.710	199.720	-.05037	.19941	.01521	-.34455	.09287	-.03700	-4.87000	7.92540	299.86000
-399.840	399.790	-.05098	.20118	.01551	-.34524	.09319	-.03706	-4.85560	8.00650	299.95000

RUN NO. 456/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-199.350	99.868	-.02544	.20071	-.00155	-.30830	.07267	-.03251	-4.87140	8.00360	300.16000
-200.390	200.140	-.02623	.19981	-.00119	-.31723	.07706	-.03325	-4.87350	8.03990	300.30000
-199.180	399.410	-.04394	.19865	.01062	-.33523	.08738	-.03664	-4.86170	8.01040	300.03000

```
                                 AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.             (RTU155)    ( 03 OCT 74  )

           REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =   1097.0000 IN. XT                                 MACH    =      4.520   PTOTL   =     91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                                 ALPHA   =     -5.900   BETA    =     10.800
BREF  =  1290.3000 INCHES   ZMRP  =    450.0000 IN. ZT                                 DALPHA  =       .200   DBETA   =       .000
SCALE =       .0100                                                                    X       =       .000

                          RUN NO.   461/ 0    RN/L =   5.90

      Y         Z         CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA    X
    9.698  -100.035   -.19278    .23050    .04831   -.39931    .10421   -.04364    .18157    .07788   -.11810
   10.642     -.388   -.20210    .22980    .05332   -.40058    .10475   -.04335    .18749    .06445   -.12209
   10.168    99.545   -.20440    .23145    .05670   -.41659    .11458   -.04357    .19708    .07369   -.09113
   11.150   199.410   -.18686    .23457    .05043   -.42160    .12121   -.04176    .21284    .06282   -.05981
   10.473   399.540   -.18849    .23078    .05088   -.37903    .11035   -.03702    .18918    .05953   -.28561

                          RUN NO.   460/ 0    RN/L =   5.80

      Y         Z         CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA    X
   99.922  -100.880   -.20263    .22837    .05548   -.39070    .11178   -.04351    .17112    .10310   -.18272
  102.320    -1.785   -.20095    .23416    .05578   -.39595    .11487   -.04278    .20460    .00805   -.22782
  100.270   100.100   -.19288    .23480    .05104   -.40395    .11958   -.04216    .17383    .07334   -.16106
  100.830   200.060   -.18259    .23256    .04541   -.39954    .11929   -.04079    .17919    .06781    .14716
  100.790   402.040   -.19373    .23090    .05302   -.37704    .10954   -.03704    .10125    .03995    .00637

                          RUN NO.   459/ 0    RN/L =   5.91

      Y         Z         CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA    X
  201.780  -100.050   -.21286    .22831    .06418   -.38770    .11255   -.03993    .17928    .04884    .20584
  200.460     -.796   -.20316    .23345    .05813   -.39207    .11651   -.04064    .22818    .07450   -.13662
  199.460   100.280   -.19373    .23335    .05184   -.39421    .11841   -.04043    .18991    .11244   -.05479
  199.980   201.460   -.18637    .23236    .04676   -.38875    .11531   -.04047    .10772    .03355   -.16471
  198.570   399.710   -.19615    .23087    .05386   -.37558    .10885   -.03714    .17021    .07385   -.16145

                          RUN NO.   458/ 0    RN/L =   5.89

      Y         Z         CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA    X
  400.390  -100.110   -.20679    .23225    .06118   -.38983    .11938   -.03759    .17955    .09841   -.12231
  400.180     -.230   -.20127    .23222    .05733   -.38719    .11761   -.03761    .17441    .10700    .01697
  399.970    99.982   -.19307    .23221    .05119   -.38303    .11457   -.03879    .17495    .09201   -.21452
  400.880   200.060   -.19506    .23064    .05233   -.37746    .11038   -.03836    .17013    .07423   -.08255
  399.530   400.380   -.20110    .23096    .05697   -.37334    .10733   -.03724    .16113    .09705    .00831
```

```
                         AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR.          (RTU159)    ( 03 OCT 74  )

          REFERENCE DATA                                                                 PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                     MACH   =      4.920   PTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                     ALPHA  =     -5.900   BETA   =     10.800
BREF  =  1290.3000 INCHES   ZMRP  =   490.0000 IN. ZT                     DALPHA =       .200   DBETA  =       .000
SCALE =      .0100                                                        X      =    300.000

                      RUN NO.  462/ 0    RN/L =   5.89

    Y         Z         CN        CA        CLM        CY        CYN       CBL      DLTALF    DLTBTA      X
   9.586   -99.568   -.18975    .23050    .04729   -.40837    .11764   -.04518    .16246    .09614  300.01000
  10.563     -.078   -.19316    .23272    .04939   -.41031    .12044   -.04416    .18143    .07274  300.09000
  10.423    99.899   -.18779    .23559    .04743   -.41599    .12518   -.04236    .19532    .08595  299.81000
  10.233   199.970   -.18670    .23127    .04857   -.40455    .11959   -.03855    .19080    .08047  300.02000
  12.497   402.650   -.18894    .23086    .05020   -.37747    .10958   -.03709    .07144   -.00068  300.04000

                      RUN NO.  463/ 0    RN/L =   5.89

    Y         Z         CN        CA        CLM        CY        CYN       CBL      DLTALF    DLTBTA      X
 100.110  -102.520   -.19236    .22822    .04806   -.40229    .11932   -.04539    .24578    .11591  299.81000
 100.740     -.599   -.19547    .23236    .05291   -.40642    .12151   -.04233    .20140    .05545  299.85000
 100.860    99.685   -.18192    .23643    .04467   -.40767    .12381   -.04238    .18870    .05823  299.97000
  97.192   200.950   -.18423    .23115    .04555   -.39957    .11923   -.03955    .14104    .17236  299.92000
 100.790   399.650   -.19827    .23119    .05494   -.37462    .10787   -.03726    .18368    .06052  299.95000

                      RUN NO.  464/ 0    RN/L =   5.90

    Y         Z         CN        CA        CLM        CY        CYN       CBL      DLTALF    DLTBTA      X
 200.280  -100.380   -.20695    .23281    .06068   -.39424    .12063   -.03911    .18739    .10712  299.93000
 201.400     -.311   -.19621    .23529    .05378   -.39324    .12098   -.04005    .15246    .07839  300.01000
 202.480    99.834   -.18567    .23308    .04589   -.38843    .11681   -.04085    .19205   -.00077  300.01000
 202.420   198.880   -.19763    .23082    .05482   -.38190     11256   -.03704    .24737    .04007  299.92000
 201.020   399.900   -.20104    .23116    .05690   -.37437    .10763   -.03732    .17880    .06209  300.16000

                      RUN NO.  465/ 0    RN/L =   5.90

    Y         Z         CN        CA        CLM        CY        CYN       CBL      DLTALF    DLTBTA      X
 400.410  -100.270   -.20360    .23172    .05881   -.37521    .10831   -.03664    .18454    .06854  299.93000
 400.030     -.262   -.19799    .23263    .05491   -.37612    .10933   -.03819    .19081    .07888  299.84000
 400.640    99.903   -.19472    .23126    .05219   -.37493    .10845   -.03932    .17306    .05713  299.91000
 401.180   199.730   -.20112    .23127    .05894   -.37402    .10746   -.03730    .16863    .01203  299.84000
 400.670   399.830   -.20120    .23121    .05699   -.37395    .10742   -.03729    .18188    .05709  299.97000
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                                       AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR.            (RTU157)    ( 03 OCT 74  )

          REFERENCE DATA                                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                               MACH   =      4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                              ALPHA  =     -5.900   BETA   =     10.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                               DALPHA =      5.200   CBETA  =       .000
SCALE =       .0100                                                                 X      =    300.000

                         RUN NO.  469/ 0    RN/L =   5.92

      Y          Z          CN          CA         CLM        CY          CYN        CBL        DLTALF      DLTBTA      X
   10.360    -98.086    -.20511     .22832     .05766    -.40399     .11442    -.04132    5.12130     .01103  299.96000
   10.421      -.577    -.20310     .23047     .05749    -.40017     .11487    -.04011    5.20100     .06785  299.84000
   10.459     98.716    -.18379     .23619     .04602    -.39868     .11675    -.04201    5.18360     .06847  299.90000
   10.679    199.880    -.19480     .23122     .05473    -.39283     .11428    -.03734    5.19220     .07229  300.00000
   10.620    399.720    -.19217     .23075     .05179    -.37385     .10754    -.03709    5.18090     .06634  300.08000

                         RUN NO.  468/ 0    RN/L =   5.92

      Y          Z          CN          CA         CLM        CY          CYN        CBL        DLTALF      DLTBTA      X
  101.790   -102.150    -.20330     .22844     .05791    -.39720     .11556    -.04049    5.23490     .03625  300.17000
  100.180       .002    -.19805     .23329     .05556    -.40053     .11841    -.03995    5.18260     .08714  299.92000
  100.630     99.897    -.17969     .23505     .04307    -.39898     .11881    -.04232    5.17830     .07443  300.04000
  100.080    200.110    -.19478     .23087     .05434    -.39114     .11549    -.03700    5.18230     .08596  300.02000
  101.470    402.060    -.20032     .23129     .05628    -.37429     .10765    -.03734    5.09570    -.00199  299.87000

                         RUN NO.  467/ 0    RN/L =   5.91

      Y          Z          CN          CA         CLM        CY          CYN        CBL        DLTALF      DLTBTA      X
  200.420   -100.160    -.20621     .23234     .06041    -.39085     .11834    -.03800    5.19020     .07678  299.91000
  200.390      -.494    -.19723     .23365     .05446    -.38750     .11667    -.03868    5.22370     .05126  299.95000
  199.320     99.802    -.18785     .23204     .04724    -.38454     .11435    -.04040    5.19040     .09668  299.92000
  199.290    200.800    -.19785     .23086     .05495    -.37855     .11070    -.03700    5.11170     .06993  299.93000
  198.020    399.400    -.20110     .23130     .05698    -.37379     .10737    -.03728    5.18180     .13945  300.03000

                         RUN NO.  466/ 0    RN/L =   5.92

      Y          Z          CN          CA         CLM        CY          CYN        CBL        DLTALF      DLTBTA      X
  399.910   -100.040    -.20310     .23187     .05834    -.37489     .10799    -.03678    5.16880     .07806  299.77000
  399.130      -.342    -.19801     .23243     .05475    -.37549     .10896    -.03825    5.19350     .14798  300.00000
  400.040     99.832    -.19876     .23137     .05497    -.37470     .10785    -.03819    5.18460     .08399  299.89000
  400.240    199.690    -.20107     .23126     .05694    -.37391     .10747    -.03729    5.18680     .09570  299.97000
  400.160    399.900    -.20080     .23109     .05690    -.37365     .10735    -.03727    5.17280     .07401  299.82000
```

```
                                 AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR.             (RTU158)    ( 03 OCT 74  )

                 REFERENCE DATA                                                                PARAMETRIC DATA

SREF   =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH    =     4.520   PTOTL  =    91.200
LREF   =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                          ALPHA   =    -5.900   BETA   =    10.000
BREF   =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALFHA  =     5.200   DBETA  =      .000
SCALE  =       .0100                                                            X       =      .000

                               RUN NO.  470/ 0    RN/L =   5.92

      Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF      DLTBTA       X
   10.003    -99.853    -.20739     .23024      .05916     -.39415     .10060    -.03891    5.18630     .07079    -.03665
   10.206       .251    -.21269     .22689      .06264     -.39114     .10197    -.04020    5.17060     .08721    -.06237
   10.412    100.020    -.20820     .23235      .06078     -.40111     .10903    -.04099    5.18550     .09011     .08238
   10.663    199.820    -.18505     .23495      .04931     -.40389     .11541    -.04136    5.18590     .07480     .07087
    9.950    399.800    -.19302     .23111      .05307     -.37567     .10835    -.03715    5.18040     .07996    -.04696

                               RUN NO.  471/ 0    RN/L =   5.92

      Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF      DLTBTA       X
  100.200   -100.100    -.21068     .22878      .06293     -.38875     .11094    -.03984    5.18060     .08303    -.21711
  101.820       .189    -.20164     .23247      .05726     -.39074     .11213    -.04053    5.19350     .01876     .02424
  101.110     99.613    -.19421     .23457      .05285     -.39459     .11564    -.04043    5.19700     .06422     .15197
  100.400    199.670    -.18776     .23219      .04839     -.38906     .11367    -.03969    5.18430     .07284    -.12877
   96.321    398.660    -.19476     .23108      .05338     -.37571     .10846    -.03721    5.20880     .18112    -.17697

                               RUN NO.  472/ 0    RN/L =   5.92

      Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF      DLTBTA       X
  200.410    -99.836    -.20845     .22896      .06180     -.38462     .11040    -.03919    5.15510     .09427    -.08060
  200.330     -.904     -.19996     .23379      .05642     -.38705     .11305    -.03968    5.22460     .09023    -.15612
  200.420     99.400    -.19455   [illegible]   .05283     -.38866     .11511    -.03974    5.20490     .09239    -.06359
  203.240    199.700    -.19116     .23126      .05022     -.38455     .11267    -.03916    5.19650    -.00406    -.07410
  198.740    399.040    -.19753     .23116      .05474     -.37488     .10800    -.03727    5.19390     .17276     .08002

                               RUN NO.  473/ 0    RN/L =   5.92

      Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF      DLTBTA       X
  398.040    -99.654    -.20402     .23196      .05955     -.38751     .11719    -.03745    5.15360     .18607    -.14139
  400.400     -.189     -.19943     .23228      .05607     -.38277     .11355    -.03720    5.18250     .03956    -.27503
  400.320     99.925    -.19268     .23248      .05110     -.38100     .11264    -.03904    5.17980     .07208    -.06524
  401.110    199.780    -.19883     .23111      .05550     -.37596     .10865    -.03733    5.17130     .04627     .05345
  400.870    399.650    -.20048     .23140      .05677     -.37378     .10723    -.03725    5.18250     .03270     .10143
```

```
                                     AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.             (RTU159)    ( 03 OCT 74  )

              REFERENCE DATA                                                                           PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                   MACH   =     4.520  PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                                  ALPHA  =    -5.900  BETA   =    10.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                   DALPHA =    -4.800  DBETA  =      .000
SCALE =        .0100                                                                    X      =      .300

                         RUN NO.  477/ 0    RN/L =   5.92

    Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   9.933     99.579    -.19116     .23191     .04477    -.43624     .12215    -.04897   -4.80370     .07714    -.09706
  10.046    199.740    -.18032     .23383     .04460    -.44971     .13158    -.04486   -4.79320     .08777    -.23374
  10.639    399.290    -.17966     .23092     .04734    -.39160     .11676    -.03651   -4.78540     .06792    -.23611

                         RUN NO.  476/ 0    RN/L =   5.92

    Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
 102.490     99.421    -.18502     .23720     .04488    -.41576     .12504    -.04606   -4.85030     .02671     .04340
 100.650    200.300    -.17246     .23653     .03822    -.41799     .12785    -.04385   -4.82990     .06102    -.02659
 100.660    402.490    -.18967     .23105     .05123    -.38257     .11226    -.03685   -4.88720     .07806     .07309

                         RUN NO.  475/ 0    RN/L =   5.92

    Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
 200.480    100.020    -.18759     .23747     .04782    -.40123     .12203    -.04247   -4.82360     .06426    -.15486
 199.180    200.250    -.18021     .23434     .04290    -.39724     .11962    -.04192   -4.80980     .10616    -.11205
 200.430    399.700    -.19366     .23104     .05268    -.37906     .11059    -.03706   -4.81980     .07111    -.12626

                         RUN NO.  474/ 0    RN/L =   5.92

    Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
 400.910     99.859    -.19141     .23330     .05040    -.38747     .11695    -.03903   -4.83010     .08832    -.10296
 400.790    200.230   [illegible]  .23153     .04727    -.38238     .11330    -.04019   -4.83200     .07127    -.12102
 400.200    400.370    -.20030     .23131     .05667    -.37422     .10734    -.03726   -4.83650     .08498     .14859
```

```
                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.             (RTU160)   ( 03 OCT 74  )

            REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                           MACH   =     4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                          ALPHA  =    -5.900   BETA   =    10.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                           DALPHA =    -4.800   DBETA  =      .000
SCALE =      .0100                                                              X      =   300.000

                        RUN NO.  478/ 0    RN/L =   5.91

       Y          Z         CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
    10.640    100.050    -.17385     .23516     .03576    -.43223     .13212    -.04676   -4.81390     .07593  299.94000
    10.628    199.810    -.17474     .23247     .04042    -.42718     .13032    -.04137   -4.79520     .08702  300.02000
     9.829    399.810    -.18188     .23098     .04716    -.38480     .11537    -.03677   -4.81310     .08799  299.78000

                        RUN NO.  479/ 0    RN/L =   5.92

       Y          Z         CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
   100.730     97.113    -.17627     .23907     .04063    -.41921     .12961    -.04472   -4.73200     .05765  299.40000
    97.100    200.560    -.16791     .23272     .03461    -.41148     .12505    -.04315   -4.79630     .17938  300.08000
   100.630    399.620    -.19439     .23138     .05272    -.37664     .10877    -.03723   -4.81280     .06604  299.82000

                        RUN NO.  480/ 0    RN/L =   5.92

       Y          Z         CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
   201.740     99.997    -.18052     .23456     .04241    -.39411     .12024    -.04241   -4.83240     .03857  299.91000
   203.360    200.320    -.19142     .23115     .05020    -.38682     .11497    -.03866   -4.82370    -.00639  299.96000
   200.180    400.000    -.19885     .23126     .05576    -.37455     .10753    -.03725   -4.82750     .07623  299.88000

                        RUN NO.  481/ 0    RN/L =   5.92

       Y          Z         CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
   400.390     99.772    -.19147     .23272     .05011    -.37727     .10982    -.04021   -4.82930     .06533  300.00000
   400.650    199.710    -.20020     .23140     .05667    -.37429     .10732    -.03729   -4.82710     .04225  299.85000
   400.320    399.810    -.20014     .23157     .05668    -.37451     .10737    -.03731   -4.79080     .06104  299.87000
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                         AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.          (RTU181)   ( 03 OCT 74  )

          REFERENCE DATA                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                 MACH   =      4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                ALPHA  =     -5.900   BETA   =    10.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                 DALPHA =       .200   DBETA  =    -4.000
SCALE =        .0100                                                  X      =       .000

                        RUN NO.  484/ 0    RN/L =   5.94

      Y         Z         CN         CA        CLM        CY        CYN        CBL       DLTALF    DLTBTA       X
   98.926  -101.650    -.18783     .23313     .04541    -.41180     .12116    -.04508     .19831  -3.83640   -.26472
  102.050    -2.365    -.19446     .23341     .04995    -.41903     .12416    -.04414     .27484  -3.94980    .09847
  100.340   100.050    -.19003     .23553     .04984    -.42314     .12729    -.04201     .19209  -3.91880    .00162
  100.380   200.050    -.17868     .23353     .04383    -.40891     .12209    -.04079     .18673  -3.92410   -.01729
  101.140   402.050    -.19252     .23158     .05270    -.37803     .10948    -.03713     .09209  -3.96210   -.04227

                        RUN NO.  483/ 0    RN/L =   5.94

      Y         Z         CN         CA        CLM        CY        CYN        CBL       DLTALF    DLTBTA       X
  200.490  -100.120    -.19005     .23038     .04698    -.39789     .11786    -.04542     .16683  -3.93460    .07409
  200.060     -.364    -.19816     .23495     .05475    -.40051     .12033    -.04164     .21070  -3.92890   -.06312
  199.650   100.260    -.18924     .23378     .04902    -.40105     .12141    -.04094     .20335  -3.93220   -.16724
  199.680   201.310    -.18409     .23283     .04576    -.39207     .11623    -.04034     .10241  -3.93890   -.08382
  198.080   399.790    -.19511     .23147     .05348    -.37676     .10892    -.03720     .13709  -3.88000   -.23415

                        RUN NO.  482/ 0    RN/L =   5.94

      Y         Z         CN         CA        CLM        CY        CYN        CBL       DLTALF    DLTBTA       X
  400.880  -100.360    -.20569     .23404     .06055    -.39363     .12089    -.03808     .19847  -3.93180   -.02017
  399.100     -.479    -.19964     .23339     .05644    -.39071     .11924    -.03811     .19258  -3.82060   -.19491
  399.720    99.801    -.19163     .23315     .05050    -.38586     .11549    -.03896     .18692  -3.86730   -.03743
  400.970   199.940    -.19370     .23140     .05171    -.38020     .11128    -.03842     .18052  -3.93210    .01062
  400.010   400.360    -.20049     .23164     .05675    -.37439     .10736    -.03730     .16167  -3.91610    .11728
```

```
                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR.                 (RTU162)   ( 03 OCT 74  )

              REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                   MACH   =      4.520   PTOTL   =     91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                                  ALFHA  =     -5.900   BETA    =     10.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                   DALPHA =       .200   DBETA   =     -4.000
SCALE =       .0100                                                                     X      =    300.000

                         RUN NO.  485/ 0    RN/L =   5.93

      Y          Z          CN          CA         CLM         CY          CYN         CBL        DLTALF     DLTBTA      X
   100.590   -100.390    -.17763      .23190      .03936     -.42138      .12925     -.04752      .18437   -3.94000  299.88000
   100.570      -.486    -.18850      .23357      .04744     -.42315      .12898     -.04395      .20144   -3.93150  299.91000
   100.730     99.853    -.17839      .23764      .04329     -.41978      .12972     -.04203      .19352   -3.93710  299.88000
    97.238    200.700    -.17912      .23160      .04321     -.40455      .12078     -.03969      .15106   -3.83720  299.72000
   101.190    399.640    -.19683      .23152      .05441     -.37499      .10776     -.03728      .17606   -3.95870  299.94000

                         RUN NO.  486/ 0    RN/L =   5.94

      Y          Z          CN          CA         CLM         CY          CYN         CBL        DLTALF     DLTBTA      X
   201.230   -101.240    -.19316      .23377      .05032     -.39959      .12344     -.04300      .20706   -3.93260  299.93000
   201.970      -.431    -.19370      .23586      .05198     -.39723      .12266     -.04047      .16237   -3.96800  300.11000
   202.370    100.040    -.18324      .23327      .04457     -.39161      .11842     -.04092      .19117   -3.97330  300.12000
   203.060    199.560    -.19694      .23139      .05471     -.38349      .11307     -.03693      .23021   -3.98880  300.08000
   200.470    400.050    -.20026      .23174      .05659     -.37463      .10749     -.03733      .17310   -3.92780  300.02000

                         RUN NO.  487/ 0    RN/L =   5.94

      Y          Z          CN          CA         CLM         CY          CYN         CBL        DLTALF     DLTBTA      X
   400.240   -100.250    -.20233      .23217      .05824     -.37728      .10972     -.03691      .18670   -3.93250  299.87000
   399.890      -.342    -.19717      .23331      .05429     -.37769      .11007     -.03832      .19254   -3.90460  299.83000
   399.660     99.485    -.19376      .23217      .05161     -.37590      .10857     -.03953      .20231   -3.92360  299.90000
   400.620    199.940    -.20042      .23165      .05676     -.37400      .10728     -.03727      .15769   -3.95530  299.94000
   401.290    400.710    -.20059      .23190      .05679     -.37454      .10738     -.03730      .12965   -4.00650  300.05000
```

AEDC/VA528(IA87)-O1ET151-ORB/ET W R/H SRB SEPAR. (RTU163) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = -5.900 BETA = 10.800
CALPHA = 5.200 CBETA = -4.000
X = 300.000

RUN NO. 490/ 0 RN/L = 5.94

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.560	-99.787	-.19517	.22909	.05190	-.41447	.12312	-.04212	5.18530	-3.92600	300.05000
100.920	-.139	-.19824	.23320	.05581	-.41418	.12429	-.03976	5.20410	-3.91650	300.09000
100.390	99.844	-.17612	.23629	.04129	-.40555	.12082	-.04267	5.18740	-3.91540	300.00000
100.330	199.920	-.19233	.23161	.05302	-.39493	.11653	-.03724	5.19380	-3.90980	299.92000
101.030	401.410	-.19912	.23178	.05583	-.37449	.10743	-.03729	5.11470	-3.96740	299.94000

RUN NO. 489/ 0 RN/L = 5.94

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.640	-100.180	-.20215	.23299	.05759	-.39365	.11932	-.03872	5.18920	-3.92100	300.16000
199.970	.006	-.19485	.23492	.05312	-.39164	.11863	-.03902	5.21780	-3.90200	300.01000
199.490	99.957	-.18652	.23255	.04655	-.38746	.11530	-.04036	5.19630	-3.91210	300.01000
198.220	200.730	-.19693	.23166	.05465	-.38047	.11135	-.03700	5.12110	-3.85190	299.75000
197.980	400.030	-.20051	.23175	.05677	-.37437	.10738	-.03730	5.14380	-3.86120	299.84000

RUN NO. 488/ 0 RN/L = 5.94

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.820	-99.561	-.20146	.23197	.05754	-.37570	.10840	-.03687	5.14250	-3.94000	299.98000
399.480	-.212	-.19674	.23304	.05409	-.37668	.10941	-.03841	5.18960	-3.86890	299.89000
399.670	99.315	-.19804	.23192	.05475	-.37510	.10773	-.03821	5.21420	-3.87690	299.95000
400.490	199.660	-.20024	.23170	.05669	-.37429	.10735	-.03730	5.19150	-3.91260	299.99000
400.340	399.820	-.20042	.23174	.05676	-.37411	.10729	-.03729	5.17890	-3.92650	299.86000

AEDC/VA528(IA67)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU164) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = -5.900 BETA = 10.800
DALPHA = 5.200 DBETA = -4.000
X = .000

RUN NO. 491/ 0 RN/L = 5.94

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.260	-99.827	-.20551	.23141	.05827	-.40795	.11821	-.04005	5.18710	-3.90920	-.02089
101.460	1.915	-.20138	.23268	.05684	-.40657	.11680	-.04047	5.12780	-3.98590	-.11349
100.350	99.640	-.19132	.23487	.05193	-.40376	.11772	-.04037	5.19790	-3.92260	-.05639
100.160	199.620	-.18624	.23254	.04847	-.39290	.11483	-.03915	5.15200	-3.92220	-.14046
100.450	399.790	-.19455	.23179	.05344	-.37542	.10814	-.03718	5.18350	-3.92880	-.04425

RUN NO. 492/ 0 RN/L = 5.93

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.640	-99.627	-.20592	.23022	.05917	-.39316	.11511	-.03984	5.12690	-3.90510	.02153
201.070	-1.756	-.19806	.23378	.05540	-.39237	.11565	-.03359	5.26150	-3.90870	.23564
202.410	99.314	-.19366	.23463	.05244	-.39166	.11617	-.03952	5.20890	-3.98030	.25598
202.730	199.890	-.19137	.23183	.05067	-.38534	.11252	-.03899	5.20160	-3.98320	.16670
199.900	398.050	-.19724	.23183	.05406	-.37493	.10785	-.03722	5.25370	-3.86850	.13447

RUN NO. 493/ 0 RN/L = 5.93

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.240	-100.140	-.20240	.23312	.05838	-.38965	.11845	-.03792	5.18890	-3.92350	-.27813
400.280	-.187	-.19909	.23280	.05607	-.38527	.11500	-.03726	5.18210	-3.91960	-.03119
400.970	100.110	-.19126	.23285	.05032	-.38272	.11360	-.03916	5.17520	-3.97360	.03288
400.420	199.690	-.19846	.23162	.05532	-.37670	.10917	-.03721	5.17430	-3.94080	.05131
400.500	399.890	-.20035	.23195	.05676	-.37427	.10732	-.03729	5.17120	-3.94360	.09588

```
                               AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.              (RTU165)    ( 03 OCT 74  )

              REFERENCE DATA                                                                       PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH    =     4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                          ALPHA   =    -5.900   BETA   =     10.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          CALPHA  =    -4.800   CBETA  =     -4.000
SCALE =       .0100                                                            X       =      .000

                         RUN NO.  496/ 0    RN/L =    5.96

     Y          Z         CN         CA        CLM        CY        CYN       CBL      DLTALF    DLTBTA       X
  103.680     98.829    -.17664     .23622    .03788    -.44459    .13867   -.04805   -4.78770  -3.99340     .16845
  100.210    200.260    -.16603     .23667    .03500    -.43904    .13807   -.04385   -4.81900  -3.91930     .03452
  101.470    402.670    -.18472     .23127    .04840    -.38587    .11423   -.03675   -4.90880  -3.95210     .20344

                         RUN NO.  495/ 0    RN/L =    5.96

     Y          Z         CN         CA        CLM        CY        CYN       CBL      DLTALF    DLTBTA       X
  200.750    100.080    -.17936     .23804    .04183    -.41110    .12719   -.04431   -4.83520  -3.93150     .05598
  200.440    199.610    -.17855     .23465    .04190    -.40426    .12349   -.04177   -4.79490  -3.97170    -.19510
  199.070    400.630    -.19281     .23150    .05246    -.37979    .11081   -.03701   -4.91220  -3.93560    -.06832

                         RUN NO.  494/ 0    RN/L =    5.97

     Y          Z         CN         CA        CLM        CY        CYN       CBL      DLTALF    DLTBTA       X
  399.540     99.714    -.18972     .23394    .04936    -.38993    .11841   -.03954   -4.82170  -3.86410    -.07910
  400.520    199.810    -.18693     .23217    .04693    -.38430    .11430   -.04027   -4.80570  -3.88530    -.00101
  399.810    400.320    -.20027     .23175    .05668    -.37437    .10745   -.03730   -4.83540  -3.91280     .01569


                               AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.              (RTU166)    ( 03 OCT 74  )

              REFERENCE DATA                                                                       PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH    =     4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                          ALPHA   =    -5.900   BETA   =     10.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          CALPHA  =    -4.800   CBETA  =     -4.000
SCALE =       .0100                                                            X       =   300.000

                         RUN NO.  497/ 0    RN/L =    5.96

     Y          Z         CN         CA        CLM        CY        CYN       CBL      DLTALF    DLTBTA       X
  101.070     99.211    -.17463     .23831    .03886    -.43756    .13908   -.04496   -4.78510  -3.92230  299.92000
   96.467    200.810    -.16376     .23263    .03248    -.42248    .13058   -.04327   -4.81890  -3.82050  299.74000
   99.902    399.450    -.19137     .23155    .05101    -.37753    .10946   -.03715   -4.80690  -3.91490  299.80000

                         RUN NO.  498/ 0    RN/L =    5.96

     Y          Z         CN         CA        CLM        CY        CYN       CBL      DLTALF    DLTBTA       X
  202.890    100.240    -.17779     .23532    .04944    -.39988    .12362   -.04278   -4.83700  -3.97510  300.10000
  203.110    201.960    -.19072     .23095    .04995    -.38926    .11678   -.03817   -4.89630  -3.97780  300.29000
  200.230    399.990    -.19887     .23212    .05561    -.37503    .10776   -.03729   -4.82800  -3.92700  299.89000
```

```
                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR.             (RTU166)    ( 03 OCT 74  )

           REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                         MACH    =     4.520   PTOTL   =     91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                         ALPHA   =    -5.900   BETA    =     10.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                         DALPHA  =    -4.800   DBETA   =     -4.000
SCALE =      .0100                                                            X       =   300.000

                   RUN NO.  499/ 0    RN/L =   5.96

     Y          Z          CN          CA         CLM        CY         CYN        CBL        DLTALF      DLTBTA      X
  400.520    100.020    -.19025     .23320     .04929    -.37838     .11068    -.04039    -4.83850    -3.93600  299.86000
  399.990    199.470    -.20010     .23174     .05673    -.37424     .10735    -.03728    -4.82140    -3.91510  299.78000
  401.670    401.190    -.20032     .23197     .05677    -.37409     .10728    -.03727    -4.59860    -4.00950  300.24000

                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR.             (RTU167)    ( 03 OCT 74  )

           REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                         MACH    =     4.520   PTOTL   =     91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                         ALPHA   =    -5.900   BETA    =     10.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                         DALPHA  =      .200   DBETA   =     -8.000
SCALE =      .0100                                                            X       =      .000

                   RUN NO.  501/ 0    RN/L =   5.96

     Y          Z          CN          CA         CLM        CY         CYN        CBL        DLTALF      DLTBTA      X
  200.720   -100.130    -.17200     .23427     .03465    -.42356     .13341    -.04845      .18207    -7.93810    -.08658
  200.590       .194    -.18988     .23460     .04815    -.42631     .13512    -.04351      .17279    -7.98660     .00209
  199.470    101.200    -.18098     .23588     .04362    -.41650     .12964    -.04130      .14906    -7.94280    -.25754
  197.950    200.730    -.17987     .23339     .04362    -.40139     .12117    -.04004      .14007    -7.86770    -.38620
  198.010    398.770    -.19437     .23190     .05321    -.37694     .10904    -.03716      .18252    -7.83170    -.68512

                   RUN NO.  500/ 0    RN/L =   5.96

     Y          Z          CN          CA         CLM        CY         CYN        CBL        DLTALF      DLTBTA      X
  401.370    -99.375    -.19983     .23445     .05603    -.39878     .12407    -.04042      .13238    -7.96820     .16699
  400.450       .809    -.19772     .23519     .05508    -.39476     .12150    -.03898      .11561    -7.89180    -.11930
  399.730     98.519    -.19100     .23375     .05015    -.38812     .11652    -.03901      .26644    -7.83540    -.15681
  399.910    199.350    -.19266     .23176     .05116    -.38169     .11228    -.03849      .22044    -7.86740    -.12557
  399.960    400.450    -.20034     .23191     .05679    -.37419     .10733    -.03727      .16193    -7.91460    -.04224
```

```
                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.            (RTU168)    ( 03 OCT 74  )

          REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                MACH   =     4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                                ALPHA  =    -5.900   BETA   =     10.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                DALPHA =      .200   DBETA  =     -8.000
SCALE =       .0100                                                                  X      =   300.000

                         RUN NO.   502/ 0    RN/L =   5.95

     Y          Z          CN          CA          CLM         CY          CYN        CBL         DLTALF      DLTBTA      X
   202.310   -101.770    -.17542     .23383      .03772     -.41264      .13194     -.04646      .25047    -7.94960  300.22000
   202.480      -.291    -.18900     .23515      .04836     -.40940      .12946     -.04130      .17252    -7.95380  300.28000
   203.370    100.090    -.18048     .23374      .04285     -.40066      .12334     -.04100      .20455    -8.01320  300.34000
   200.790    199.900    -.19437     .23172      .05331     -.38902      .11633     -.03676      .18663    -7.92500  300.06000
   201.510    400.530    -.19999     .23219      .05638     -.37504      .10763     -.03735      .14249    -7.97120  300.21000

                         RUN NO.   503/ 0    RN/L =   5.96

     Y          Z          CN          CA          CLM         CY          CYN        CBL         DLTALF      DLTBTA      X
   400.130   -100.190    -.20100     .23267      .05729     -.38194      .11372     -.03771      .18628    -7.92990  299.81000
   400.750      -.668    -.19557     .23344      .05325     -.37997      .11191     -.03846      .22597    -7.93380  299.95000
   400.600     99.240    -.19188     .23232      .05035     -.37719      .10957     -.03979      .22383    -7.95270  300.01000
   400.050    198.940    -.20047     .23207      .05681     -.37455      .10747     -.03733      .21204    -7.93420  299.91000
   400.890    401.280    -.20054     .23241      .05686     -.37473      .10753     -.03737      .08263    -7.97380  300.09000

                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.            (RTU169)    ( 03 OCT 74  )

          REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                MACH   =     4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                                ALPHA  =    -5.900   BETA   =     10.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                DALPHA =     5.200   DBETA  =     -8.000
SCALE =       .0100                                                                  X      =   300.000

                         RUN NO.   505/ 0    RN/L =   5.94

     Y          Z          CN          CA          CLM         CY          CYN        CBL         DLTALF      DLTBTA      X
   200.020   -100.310    -.19687     .23291      .05356     -.40482      .12582     -.03962     5.19120    -7.91530  299.94000
   199.540       .638    -.19267     .23491      .05141     -.40149      .12392     -.03951     5.18250    -7.92290  299.87000
   198.600    100.800    -.18326     .23277      .04475     -.39382      .11853     -.04038     5.15410    -7.88030  299.58000
   200.560    199.710     .19552     .23185      .05397     -.38243      .11249     -.03694     5.18380    -7.92570  300.02000
   200.610    399.730    -.20041     .23219      .05683     -.37453      .10740     -.03730     5.18340    -7.93140  300.03000
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU169) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = -5.900 BETA = 10.800
DALPHA = 5.200 DBETA = -8.000
X = 300.000

RUN NO. 504/ 0 RN/L = 5.94

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.590	-99.375	-.19979	.23221	.05647	-.37873	.11075	-.03726	5.12530	-7.92880	299.97000
400.480	.737	-.19549	.23324	.05334	-.37859	.11091	-.03848	5.13170	-7.89460	300.03000
400.250	98.989	-.19700	.23189	.05405	-.37516	.10796	-.03835	5.23120	-7.89890	300.10000
400.840	199.520	-.20049	.23225	.05683	-.37461	.10746	-.03734	5.20130	-7.92030	300.14000
400.690	399.930	-.20024	.23196	.05676	-.37368	.10723	-.03725	5.17670	-7.93140	300.10000

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU170) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = -5.900 BETA = 10.800
DALPHA = 5.200 DBETA = -8.000
X = .000

RUN NO. 506/ 0 RN/L = 5.93

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
201.500	-101.250	-.19675	.23191	.05267	-.41503	.12674	-.04104	5.23450	-7.90210	.17896
203.030	-1.380	-.19379	.23366	.05238	-.40821	.12330	-.03981	5.24980	-7.99890	.48011
203.090	99.532	-.19051	.23416	.05092	-.40002	.12010	-.03927	5.20280	-7.99750	.32193
200.410	199.840	-.18816	.23205	.04878	-.38801	.11381	-.03899	5.18510	-7.92270	-.03697
199.650	399.420	-.19641	.23206	.05427	-.37512	.10796	-.03724	5.19640	-7.89040	.02001

RUN NO. 507/ 0 RN/L = 5.95

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.990	-100.200	-.20082	.23468	.05713	-.39371	.12040	-.03886	5.19210	-7.93660	-.12896
400.910	-.231	-.19876	.23349	.05605	-.38883	.11730	-.03757	5.19500	-7.92410	.09852
402.020	100.760	-.19017	.23332	.04963	-.38536	.11496	-.03928	5.14390	-8.01390	.19263
400.870	199.940	-.19727	.23195	.05468	-.37846	.11020	-.03722	5.16200	-7.97340	.12403
400.210	399.520	-.20030	.23211	.05679	-.37393	.10727	-.03728	5.18500	-7.92720	.01031

ORIGINAL PAGE IS
OF POOR QUALITY

```
                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.              (RTU171)    ( 03 OCT 74  )

              REFERENCE DATA                                                                         PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                   MACH   =     4.520  PTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                                  ALPHA  =    -5.900  BETA   =     10.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                   DALPHA =    -4.800  DBETA  =     -8.000
SCALE =       .0100                                                                      X      =      .000

                         RUN NO.  509/ 0    RN/L =   5.95

      Y          Z          CN          CA          CLM        CY          CYN        CBL        DLTALF     DLTBTA       X
   200.590     99.882    -.16705      .23623      .03209    -.43910      .14311    -.04682    -4.81530   -7.92640    -.13107
   199.490    200.490    -.16917      .23321      .03550    -.42644      .13602    -.04241    -4.84950   -7.96360    -.23352
   200.810    399.700    -.19001      .23140      .05083    -.38100      .11169    -.03693    -4.81480   -7.92970    -.10060

                         RUN NO.  508/ 0    RN/L =   5.95

      Y          Z          CN          CA          CLM        CY          CYN        CBL        DLTALF     DLTBTA       X
   400.800    101.020    -.18724      .23494      .04751    -.39397      .12089    -.04044    -4.89150   -7.92400     .12093
   400.190    199.960    -.18511      .23248      .04572    -.38638      .11559    -.04051    -4.83350   -7.92430    -.10251
   399.860    400.480    -.19972      .23209      .05639    -.37442      .10750    -.03726    -4.82910   -7.91110     .04503

                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.              (RTU172)    ( 03 OCT 74  )

              REFERENCE DATA                                                                         PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                   MACH   =     4.520  PTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                                  ALPHA  =    -5.900  BETA   =     10.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                   DALPHA =    -4.800  DBETA  =     -8.000
SCALE =       .0100                                                                      X      =   300.000

                         RUN NO.  510/ 0    RN/L =   5.95

      Y          Z          CN          CA          CLM        CY          CYN        CBL        DLTALF     DLTBTA       X
   202.810    100.220    -.17122      .23498      .03579    -.41145      .13052    -.04368    -4.80820   -7.96120  300.31000
   200.770    200.080    -.18731      .23115      .04778    -.39964      .12269    -.03818    -4.81410   -7.92930  300.08000
   202.520    401.030    -.19795      .23193      .05510    -.37488      .10784    -.03727    -4.88070   -8.00270  300.30000

                         RUN NO.  511/ 0    RN/L =   5.95

      Y          Z          CN          CA          CLM        CY          CYN        CBL        DLTALF     DLTBTA       X
   400.700    100.040    -.18822      .23323      .04787    -.38010      .11210    -.04062    -4.83580   -7.93860  300.01000
   400.760    199.160    -.19984      .23188      .05648    -.37433      .10754    -.03728    -4.80310   -7.96030  299.83000
   400.100    399.320    -.20015      .23195      .05674    -.37396      .10724    -.03725    -4.80290   -7.94480  300.02000
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/M SRB SEPAR. (RTU173) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = -5.900 BETA = 10.800
DALPHA = .200 DBETA = .000
X = .000

RUN NO. 513/ 0 RN/L = 5.96

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-398.560	-100.460	-.19966	.23212	.05640	-.37320	.10676	-.03701	.19743	.03983	.11729
-399.010	-.749	-.20046	.23211	.05692	-.37373	.10718	-.03727	.21031	.04818	.07201
-399.210	99.920	-.20008	.23199	.05681	-.37346	.10710	-.03723	.17761	.09441	.00339
-399.570	199.760	-.20046	.23235	.05687	-.37399	.10732	-.03730	.18412	.12400	.03847
-398.950	400.350	-.20039	.23231	.05686	-.37397	.10729	-.03729	.16240	.07628	.27384

RUN NO. 514/ 0 RN/L = 5.96

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-198.470	-99.980	-.18613	.23446	.04827	-.35331	.09571	-.03461	.16715	.06203	.00577
-197.000	1.087	-.18575	.23277	.04978	-.35134	.09799	-.03628	.11787	.02710	-.06157
-196.890	100.160	-.18241	.23221	.04815	-.35316	.09878	-.03620	.14784	-.00764	.09180
-197.070	199.290	-.18885	.23211	.05122	-.35840	.09983	-.03735	.17450	-.02038	.09330
-198.840	399.700	-.19955	.23123	.05633	-.37196	.10611	-.03727	.17891	.06786	.07905

RUN NO. 515/ 0 RN/L = 5.96

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-98.632	-100.100	-.18980	.23427	.04556	-.32258	.08925	-.03085	.15748	.04161	-.12954
-102.110	.086	-.19101	.23336	.05002	-.33032	.09491	-.03512	.15662	.15118	.16700
-96.776	99.687	-.18560	.23247	.05147	-.33777	.09895	-.03696	.16120	.00705	.09032
-99.927	199.290	-.18075	.23171	.04979	-.33987	.09803	-.03676	.18562	.11692	-.48840
-100.340	400.600	-.19370	.23172	.05293	-.36486	.10220	-.03734	.12911	.10762	-.11455

RUN NO. 516/ 0 RN/L = 5.96

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-37.477	-100.690	-.19273	.23439	.04145	-.30557	.08451	-.02818	.18437	-.02691	-.18999
-38.982	.035	-.20566	.23368	.05391	-.31854	.09120	-.03473	.13760	.07011	.17497
-38.776	99.956	-.19324	.23217	.05473	-.33630	.09954	-.03687	.14657	.06261	.06806
-37.954	199.620	-.18168	.23152	.05209	-.33856	.09863	-.03733	.15755	.02927	.17578
-38.498	399.800	-.18819	.23187	.05128	-.35639	.09886	-.03727	.16686	.03744	.00669

```
                                 AEDC/VA528(IA87)-O1ET181-ORB/ET W L/H SRB SEPAR.           (RTU174)    ( 03 OCT 74  )

              REFERENCE DATA                                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                                  MACH    =      4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YT                                  ALPHA   =     -5.900   BETA   =     10.800
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                                   CALPHA  =       .200   CBETA  =       .000
SCALE =       .0100                                                                      X       =    300.000

                          RUN NO.   520/ 0    RN/L =    5.96

       Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
   -398.920   -100.110    -.19964     .23222     .05637     -.37342     .10699     -.03702     .17587     .06929  300.03000
   -397.820       .210    -.20030     .23206     .05682     -.37340     .10709     -.03722     .16282     .05025  300.03000
   -396.910    100.080    -.20030     .23214     .05689     -.37356     .10712     -.03724     .17357     .00218  300.09000
   -397.490    199.720    -.20020     .23292     .05682     -.37324     .10704     -.03720     .17958     .01220  300.22000
   -397.290    399.910    -.20050     .23238     .05689     -.37390     .10727     -.03726     .16217    -.00634  300.24000

                          RUN NO.   519/ 0    RN/L =    5.96

       Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
   -198.620   -100.100    -.18918     .23364     .04959     -.36120     .09964     -.03533     .17446     .05236  299.99000
   -200.180      1.320    -.18981     .23220     .04994     -.36285     .10134     -.03587     .12945     .11345  300.11000
   -198.260    100.570    -.19438     .23159     .05337     -.36460     .10258     -.03721     .15160     .06584  300.06000
   -197.810    199.910    -.19491     .23178     .05368     -.36528     .10245     -.03727     .16747     .06094  300.48000
   -201.240    401.430    -.19981     .23140     .05641     -.37204     .10620     -.03728     .11699     .17045  300.32000

                          RUN NO.   518/ 0    RN/L =    5.96

       Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
    -97.133   -100.640    -.18694     .23353     .04715     -.35094     .09492     -.03322     .19289     .01662  300.16000
    -98.946      -.263    -.18810     .23261     .04964     -.35665     .09929     -.03530     .17467     .07147  300.03000
    -97.448     97.304    -.19135     .23184     .05280     -.35890     .10110     -.03711     .24677     .02316  299.94000
    -99.097    198.800    -.19187     .23201     .05302     -.36154     .10142     -.03739     .20085     .08264  300.15000
    -98.028    399.440    -.19530     .23158     .05376     -.36646     .10314     -.03727     .18408     .03915  300.06000

                          RUN NO.   517/ 0    RN/L =    5.96

       Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
    -39.326   -100.210    -.18385     .23365     .04366     -.33511     .08862     -.03068     .17311     .07245  300.05000
    -38.727      -.219    -.19580     .23229     .05277     -.34160     .09619     -.03525     .15892     .05509  300.21000
    -38.761     99.851    -.19266     .23175     .05440     -.35271     .10093     -.03696     .16062     .06324  300.14000
    -38.040    198.730    -.16836     .23190     .05299     -.35426     .10002     -.03743     .16667     .06160  300.12000
    -39.668    400.290    -.19382     .23178     .05322     -.36538     .10264     -.03730     .15610     .09088  300.05000
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET Y L/H SRB SEPAR. (RTU175) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.320 PTOTL = 91.200
ALPHA = -5.900 BETA = 10.800
DALPHA = 5.200 CBETA = .000
X = 300.000

RUN NO. 521/ 0 RN/L = 5.96

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-399.100	-100.520	-.20061	.23240	.05689	-.37344	.10714	-.03720	5.19440	.08210	300.18000
-399.450	-.485	-.20037	.23206	.05687	-.37331	.10709	-.03723	5.19630	.09403	300.01000
-399.470	99.381	-.20036	.23219	.05685	-.37353	.10712	-.03723	5.19550	.11054	300.11000
-399.840	199.570	-.20047	.23237	.05691	-.37370	.10720	-.03725	5.19720	.12968	300.13000
-398.540	399.940	-.20039	.23225	.05688	-.37341	.10712	-.03722	5.17570	.06335	300.01000

RUN NO. 522/ 0 RN/L = 5.96

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-199.590	-100.320	-.19141	.23297	.05103	-.36387	.10151	-.03614	5.18320	.09380	300.14000
-198.640	-.159	-.19166	.23199	.05137	-.35471	.10244	-.03633	5.17660	.07124	300.25000
-197.700	98.758	-.19514	.23194	.05393	-.36622	.10327	-.03729	5.20560	-.00406	300.18000
-200.260	198.950	-.19578	.23201	.05406	-.36657	.10311	-.03726	5.20990	.10844	300.21000
-198.330	399.700	-.20025	.23157	.05677	-.37300	.10687	-.03724	5.18380	.05352	300.09000

RUN NO. 523/ 0 RN/L = 5.96

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-98.432	-100.190	-.19255	.23323	.05206	-.35787	.09943	-.03582	5.17280	.05404	300.01000
-99.502	1.438	-.19100	.23256	.05201	-.35092	.10191	-.03646	5.12540	.09711	299.90000
-98.342	101.390	-.19257	.23210	.05353	-.36218	.10243	-.03738	5.10040	.07202	299.97000
-99.181	199.690	-.19328	.23233	.05359	-.36454	.10288	-.03733	5.17040	.07638	300.14000
-99.177	399.840	-.19642	.23121	.05449	-.36800	.10415	-.03720	5.17750	.07378	300.18000

RUN NO. 524/ 0 RN/L = 5.95

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-39.300	-99.670	-.19548	.23321	.05291	-.34381	.09433	-.03432	5.13740	.08946	300.07000
-39.062	-.139	-.19628	.23255	.05477	-.35909	.10047	-.03664	5.16960	.07046	300.18000
-38.972	99.704	-.19060	.23188	.05401	-.35791	.10276	-.03745	5.16620	.06732	300.14000
-39.094	198.510	-.19192	.23189	.05396	-.35994	.10195	-.03748	5.22000	.06792	300.49000
-38.859	399.770	-.19582	.23211	.05409	-.36791	.10380	-.03731	5.17820	.06077	300.09000

ORIGINAL PAGE IS
OF POOR QUALITY

```
                         AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.             (RTU176)    ( 03 OCT 74  )

             REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                         MACH   =     4.520  PTOTL  =    91.200
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YT                         ALPHA  =    -5.900  BETA   =    10.800
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                         CALPHA =     5.200  CBETA  =      .000
SCALE =       .0100                                                            X      =      .000

                           RUN NO.  528/ 0    RN/L =   5.97

      Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA      X
  -398.890   -100.150   -.20003     .23217     .05663   -.37328     .10697   -.03712    5.18150     .07263     .13344
  -398.420       .217   -.20008     .23181     .05678   -.37295     .10693   -.03717    5.15840     .06114     .02086
  -397.660     99.971   -.20005     .23208     .05679   -.37303     .10695   -.03717    5.16740     .02447     .04613
  -397.800    199.700   -.20002     .23200     .05677   -.37295     .10690   -.03715    5.17600     .02570     .16537
  -398.840    400.390   -.20037     .23222     .05687   -.37316     .10707   -.03721    5.14170     .07043     .06117

                           RUN NO.  527/ 0    RN/L =   5.96

      Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA      X
  -199.950   -101.390   -.19041     .23348     .05187   -.35660     .09880   -.03652    5.22090     .11011     .20046
  -200.410      -.896   -.18643     .23311     .05032   -.35405     .09924   -.03663    5.19770     .12419    -.00767
  -199.910     99.855   -.18516     .23221     .04956   -.35549     .09976   -.03657    5.18010     .11472     .00575
  -200.860    199.890   -.19133     .23187     .05218   -.36107     .10084   -.03731    5.17570     .16323     .04067
  -198.020    399.140   -.20058     .23199     .05691   -.37328     .10700   -.03723    5.19460     .04776     .21031

                           RUN NO.  526/ 0    RN/L =   5.97

      Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA      X
  -100.960   -100.540   -.19605     .23403     .05176   -.32983     .09441   -.03403    5.19280     .15528     .36563
   -99.440      -.091   -.19271     .23311     .05312   -.33867     .09967   -.03697    5.14820     .08417     .10496
   -98.808     99.795   -.18431     .23261     .05121   -.34261     .10030   -.03691    5.15790     .05662     .01930
  -101.360    199.760   -.18480     .23215     .05190   -.34523     .09968   -.03715    5.15310     .14026     .11862
   -97.745    400.020   -.19697     .23163     .05465   -.36847     .10427   -.03724    5.16600    -.00101     .38985

                           RUN NO.  525/ 0    RN/L =   5.97

      Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA      X
   -37.595   -100.010   -.20839     .23416     .05368   -.31499     .09120   -.03324    5.14300     .00790    -.00925
   -40.849       .016   -.20106     .23287     .05515   -.33428     .09897   -.03659    5.09900     .14250    -.25763
   -39.222     99.905   -.18826     .23258     .05353   -.34611     .10236   -.03737    5.15700     .07186     .07514
   -39.519    200.060   -.18673     .23221     .05458   -.34634     .10123   -.03748    5.14910     .08921     .05656
   -38.723    399.720   -.19266     .23222     .05309   -.36362     .10186   -.03739    5.16740     .06401    -.02774
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU177) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = -5.900 BETA = 10.800
DALPHA = -4.800 DBETA = .000
X = .000

RUN NO. 529/ 0 RN/L = 5.95

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-399.360	99.411	-.19999	.23172	.05675	-.37308	.10694	-.03718	-4.80660	.04537	-.16296
-400.020	200.170	-.19977	.23153	.05671	-.37315	.10670	-.03709	-4.84530	.12576	.08588
-399.220	400.350	-.19996	.23192	.05675	-.37286	.10688	-.03714	-4.84010	.07864	.32723

RUN NO. 530/ 0 RN/L = 5.95

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-198.430	99.681	-.17750	.23210	.04483	-.34644	.09560	-.03494	-4.83610	.04956	-.09947
-197.180	199.000	-.18430	.23131	.04884	-.35176	.09754	-.03674	-4.82080	.00597	-.02570
-198.680	399.870	-.19671	.23069	.05444	-.36681	.10338	-.03720	-4.82980	.06710	.10192

RUN NO. 531/ 0 RN/L = 5.95

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-97.611	99.748	-.17940	.23226	.04528	-.32597	.09411	-.03404	-4.83000	-.01603	.06902
-100.050	200.070	-.17578	.23120	.04709	-.32955	.09435	-.03584	-4.85760	.13414	-.64523
-99.503	400.650	-.18813	.23133	.05048	-.35800	.09900	-.03719	-4.87980	.08692	-.08188

RUN NO. 532/ 0 RN/L = 5.96

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-38.541	100.160	-.19245	.23260	.04958	-.31637	.09136	-.03382	-4.86490	.06052	.19597
-39.859	200.650	-.17953	.23179	.05060	-.32619	.09484	-.03623	4.90120	.15363	.13071
-38.550	399.740	-.17996	23099	.04817	-.34503	.09512	-.03671	-4.84230	.05152	.10238

ORIGINAL PAGE IS
OF POOR QUALITY

```
                     AEDC/VA528(IA87)-O1ET1S1-ORB/ET W I /H SRB SEPAR.            (RTU178)    ( 03 OCT 74  )

          REFERENCE DATA                                                               PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                      MACH   =     4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                     ALPHA  =    -5.900   BETA   =     10.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                      CALPHA =    -4.800   CBETA  =       .000
SCALE =        .0100                                                       X      =   300.000

                    RUN NO.  536/ 0    RN/L =    5.97

     Y         Z         CN         CA         CLM        CY         CYN        CBL        DLTALF      DLTBTA     X
  -398.440    99.907   -.20042    .23192    .05689   -.37303    .10700   -.03721   -4.82890     .05829  300.03000
  -396.940   199.440   -.20022    .23204    .05682   -.37300    .10701   -.03719   -4.80820    -.01124  300.10000
  -398.970   399.880   -.20013    .23193    .05675   -.37286    .10694   -.03717   -4.82330     .07290  300.09000

                    RUN NO.  535/ 0    RN/L =    5.96

     Y         Z         CN         CA         CLM        CY         CYN        CBL        DLTALF      DLTBTA     X
  -198.350   100.870   -.19001    .23118    .05019   -.36096    .10076   -.03621   -4.86580     .02580  300.07000
  -199.270   200.120   -.19314    .23098    .05279   -.36199    .10100   -.03717   -4.84300     .58309  300.19000
  -198.780   399.720   -.19809    .23068    .05538   -.36921    .10466   -.03720   -4.82220     .06065  300.13000

                    RUN NO.  534/ 0    RN/L =    5.96

     Y         Z         CN         CA         CLM        CY         CYN        CBL        DLTALF      DLTBTA     X
  -100.490   100.580   -.18493    .23172    .04796   -.35159    .09737   -.03499   -4.83850     .12517  300.24000
   -98.487   197.960   -.18969    .23157    .05183   -.35511    .09835   -.03722   -4.78500     .07313  299.91000
   -98.393   399.620   -.19258    .23103    .05236   -.36303    .10147   -.03716   -4.81990     .04259  300.00000

                    RUN NO.  533/ 0    RN/L =    5.96

     Y         Z         CN         CA         CLM        CY         CYN        CBL        DLTALF      DLTBTA     X
   -38.021   101.720   -.18946    .23159    .05053   -.34238    .09682   -.03453   -4.90710     .01306  300.14000
   -38.674   200.150   -.18573    .23125    .05197   -.34693    .09768   -.03682   -4.84830     .06289  300.12000
   -39.883   400.470   -.19086    .23112    .05191   -.36146    .10090   -.03724   -4.85460     .09829  300.21000
```

```
                    AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.            (RTU179)   ( 03 OCT 74  )

          REFERENCE DATA                                                           PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                     MACH   =      4.520   PTOTL   =     91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                    ALPHA  =     -5.900   BETA    =     10.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                     DALPHA =       .200   DBETA   =      4.000
SCALE =       .0100                                                       X      =       .000

                      RUN NO.  537/ 0    RN/L =   5.97

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -399.780   -100.170   -.19478     .23158     .05267    -.36842     .10367    -.03545     .18282    4.09140     .13381
   -399.860      -.340   -.19800     .23101     .05501    -.36949     .10493    -.03657     .19132    4.09780     .05521
   -399.070     99.630   -.19961     .23115     .05639    -.37076     .10570    -.03717     .19949    4.07920     .10949
   -399.930    199.630   -.20025     .23148     .05682    -.37271     .10676    -.03717     .19239    4.13470     .19911
   -399.100    400.320   -.20016     .23225     .05681    -.37324     .10704    -.03719     .16240    4.07330     .15492

                      RUN NO.  538/ 0    RN/L =   5.97

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -199.170   -100.170   -.17569     .23410     .04070    -.33128     .08412    -.03114     .16850    4.05690    -.08052
   -197.280      1.257   -.17849     .23232     .04486    -.33224     .08951    -.03443     .08753    4.03630    -.38369
   -196.090    100.200   -.17556     .23149     .04538    -.33973     .09400    -.03576     .13059    3.97250    -.04255
   -199.620    199.830   -.18171     .23125     .04826    -.34922     .09685    -.03693     .16064    4.06840    -.08390
   -200.080    399.750   -.19619     .23059     .05414    -.36702     .10347    -.03720     .17433    4.08220    -.05389

                    AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.            (RTU180)   ( 03 OCT 74  )

          REFERENCE DATA                                                           PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                     MACH   =      4.520   PTOTL   =     91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                    ALPHA  =     -5.900   BETA    =     10.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                     DALPHA =       .200   DBETA   =      4.000
SCALE =       .0100                                                       X      =    300.000

                      RUN NO.  540/ 0    RN/L =   5.95

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -398.040   -100.120   -.19740     .23183     .05472    -.37149     .10564    -.03622     .18021    4.04830  300.04000
   -397.430       .349   -.19924     .23110     .05627    -.37100     .10588    -.03706     .15065    4.02740  299.98000
   -398.970     99.770   -.19987     .23121     .05670    -.37193     .10643    -.03716     .17740    4.07220  300.07000
   -397.480    199.630   -.20019     .23173     .05687    -.37303     .10693    -.03719     .18163    3.98950  299.94000
   -399.200    399.820   -.20017     .23195     .05681    -.37301     .10701    -.03719     .17751    4.07610  300.21000
```

```
                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.              (RTU180)    ( 03 OCT 74  )

             REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                              MACH    =     4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                             ALPHA   =    -5.900   BETA   =    10.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                              DALPHA  =      .200   DBETA  =     4.000
SCALE =       .0100                                                                X       =   300.000

                        RUN NO.  539/ 0    RN/L =   5.96

      Y          Z          CN          CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
   -198.580   -100.170    -.18202     .23332     .04451    -.35140     .09398    -.03364     .17193    4.03880  299.85000
   -201.530      1.578    -.18328     .23169     .04571    -.35449     .09692    -.03473     .12599    4.13060  300.12000
   -197.930    100.580    -.18986     .23083     .05075    -.35772     .09916    -.03679     .15551    4.03510  299.82000
   -200.520    200.090    -.19185     .23071     .05212    -.36041     .10040    -.03715     .15854    4.10550  300.14000
   -200.510    400.770    -.19786     .23063     .05528    -.36904     .10459    -.03719     .14111    4.10710  300.19000

                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.              (RTU181)    ( 03 OCT 74  )

             REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                              MACH    =     4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                             ALPHA   =    -5.900   BETA   =    10.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                              DALPHA  =     5.200   DBETA  =     4.000
SCALE =       .0100                                                                X       =   300.000

                        RUN NO.  541/ 0    RN/L =   5.96

      Y          Z          CN          CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
   -399.800   -100.570    -.19867     .23157     .05561    -.37185     .10617    -.03664    5.19970    4.10850  300.17000
   -399.120      -.632    -.19984     .23141     .05667    -.37193     .10636    -.03717    5.20970    4.11250  300.33000
   -400.070     99.741    -.19992     .23137     .05674    -.37249     .10671    -.03715    5.18480    4.14380  300.16000
   -400.260    199.640    -.20013     .23190     .05682    -.37295     .10692    -.03717    5.18760    4.14120  300.15000
   -398.930    399.960    -.20021     .23204     .05684    -.37311     .10701    -.03718    5.17440    4.06840  300.08000

                        RUN NO.  542/ 0    RN/L =   5.96

      Y          Z          CN          CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
   -200.590   -100.310    -.18728     .23260     .04860    -.35524     .09699    -.03538    5.17630    4.10350  300.17000
   -199.690      -.109    -.18786     .23177     .04938    -.35840     .09926    -.03606    5.17280    4.08000  300.19000
   -198.540     98.528    -.19185     .23134     .05218    -.36129     .10105    -.03717    5.19320    4.09730  300.11000
   -201.060    198.640    -.19328     .23134     .05286    -.36311     .10161    -.03721    5.21160    4.10730  300.32000
   -198.780    399.710    -.19920     .23106     .05613    -.37088     .10565    -.03719    5.18240    4.05250  299.96000
```

```
                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.            (RTU182)    ( 03 OCT 74  )

             REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =     4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                          ALPHA  =    -5.900   BETA   =     10.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA =     5.200   DBETA  =      4.000
SCALE =       .0100                                                            X      =      .000

                       RUN NO.  544/ 0    RN/L =   5.95

      Y          Z          CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA       X
   -399.380   -100.100   -.19754    .23153    .05464   -.36951    .10472   -.03633   5.17850    4.08300    .14060
   -397.870       .130   -.19963    .23125    .05639   -.37064    .10558   -.03717   5.15500    4.04340   -.04296
   -397.290    100.370   -.19980    .23120    .05662   -.37194    .10633   -.03715   5.14850    4.03950    .24121
   -398.120    199.920   -.19995    .23165    .05678   -.37269    .10682   -.03714   5.16830    4.03080    .14551
   -398.160    400.090   -.20047    .23221    .05694   -.37320    .10702   -.03720   5.16210    4.02360    .14933

                       RUN NO.  543/ 0    RN/L =   5.96

      Y          Z          CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA       X
   -201.520   -101.520   -.18558    .23330    .04840   -.33997    .09086   -.03489   5.23950    4.13450    .36299
   -201.470      -.451   -.18317    .23255    .04905   -.34072    .09442   -.03651   5.18140    4.15200   -.01920
   -201.500     99.830   -.17828    .23158    .04684   -.34610    .09695   -.03611   5.17900    4.15400   -.17301
   -199.860    199.740   -.18584    .23179    .05007   -.35428    .09847   -.03726   5.16310    4.06640   -.02328
   -198.600    399.940   -.19907    .23101    .05609   -.37080    .10569   -.03717   5.18000    4.03190    .10880

                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.            (RTU183)    ( 03 OCT 74  )

             REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =     4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                          ALPHA  =    -5.900   BETA   =     10.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA =    -4.800   DBETA  =      4.000
SCALE =       .0100                                                            X      =      .000

                       RUN NO.  545/ 0    RN/L =   5.96

      Y          Z          CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA       X
   -399.670    100.090   -.19871    .23034    .05567   -.36856    .10455   -.03700   -4.83600   4.10020    .28973
   -399.530    199.720   -.19953    .23081    .05634   -.37039    .10544   -.03716   -4.80480   4.10620    .10619
   -399.070    400.370   -.20028    .23190    .05687   -.37278    .10688   -.03714   -4.84140   4.07030    .30855

                       RUN NO.  546/ 0    RN/L =   5.96

      Y          Z          CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA       X
   -199.200     99.782   -.16501    .23105    .03712   -.32606    .08695   -.03247   -4.83950   4.04830   -.28183
   -197.010    199.080   -.17364    .23005    .04372   -.33711    .09163   -.03564   -4.84680   4.00770   -.09788
   -199.710    399.940   -.19172    .23023    .05148   -.36104    .10010   -.03716   -4.83610   4.07390    .10116
```

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU184) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = -5.900 BETA = 10.800
DALPHA = -4.800 DBETA = 4.000
X = 300.000

RUN NO. 548/ 0 RN/L = 5.95

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-398.720	99.816	-.19957	.23092	.05649	-.37092	.10589	-.03711	-4.82110	4.05030	299.63000
-398.870	199.980	-.20005	.23134	.05680	-.37251	.10672	-.03716	-4.82460	4.07070	300.17000
-398.970	399.950	-.19991	.23189	.05673	-.37303	.10698	-.03719	-4.82560	4.07360	300.30000

RUN NO. 547/ 0 RN/L = 5.95

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-198.550	101.060	-.18181	.23038	.04458	-.35133	.09557	-.03455	-4.84290	4.00990	299.88000
-200.250	200.350	-.18864	.23021	.05011	-.35500	.09740	-.03691	-4.85920	4.09820	300.26000
-198.610	399.100	-.19569	.23038	.05382	-.36569	.10282	-.03720	-4.82340	4.06960	299.88000

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU185) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = -5.900 BETA = 10.800
DALPHA = .200 DBETA = 8.000
X = .000

RUN NO. 549/ 0 RN/L = 5.95

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-400.930	-99.928	-.18090	.23220	.04276	-.35625	.09622	-.03253	.17950	8.09550	.21491
-400.660	-.231	-.18708	.22993	.04679	-.35939	.09896	-.03425	.20781	8.09500	.17166
-400.800	99.414	-.19660	.22973	.05419	-.36341	.10172	-.03705	.20874	8.14140	.09764
-398.960	199.820	-.19791	.22993	.05537	-.36659	.10349	-.03711	.17049	8.05720	-.10026
-399.620	400.310	-.20002	.23181	.05682	-.37253	.10681	-.03712	.15924	8.07260	.08010

RUN NO. 550/ 0 RN/L = 5.95

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-199.650	-100.180	-.15710	.23326	.02692	-.28071	.05908	-.02537	[illegible]	8.03790	-.26428
-200.430	-.346	-.17289	.23232	.04020	-.30148	.07523	-.03235	[illegible]	8.07820	.00933
-195.800	100.240	-.16942	.23188	.04239	-.32032	.08724	-.03542	.10712	7.98150	-.37824
-198.660	199.740	-.16913	.23027	.04215	-.33391	.09116	-.03632	.13502	8.00010	.09174
-200.260	399.750	-.19087	.23016	.05095	-.36122	.10017	-.03713	.15868	8.08210	.06033

```
                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.               (RTU186)    ( 03 OCT 74  )

              REFERENCE DATA                                                              PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =     4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                          ALPHA  =    -5.900   BETA   =    10.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          CALPHA =      .200   CBETA  =     8.000
SCALE =        .0100                                                           X      =   300.000

                     RUN NO.  552/ 0    RN/L =   5.95

      Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
  -398.860  -100.050   -.18828     .23094     .04774    -.36497     .10154    -.03380     .17986    8.05680  299.80000
  -397.820      .587   -.19518     .23011     .05280    -.36643     .10338    -.03586     .12403    8.02830  299.67000
  -397.420    99.934   -.19903     .23076     .05590    -.36852     .10450    -.03710     .15671    7.98910  299.68000
  -399.730   199.800   -.19941     .23076     .05637    -.37154     .10619    -.03715     .17678    8.07770  299.99000
  -399.500   399.870   -.20011     .23195     .05674    -.37248     .10680    -.03713     .17885    8.07600  300.24000

                     RUN NO.  551/ 0    RN/L =   5.95

      Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
  -198.290  -100.230   -.17076     .23235     .03597    -.33099     .08168    -.03028     .16954    8.01900  299.64000
  -202.250     2.209   -.17564     .23172     .04075    -.34027     .08926    -.03302     .10060    8.14740  300.31000
  -200.050    99.914   -.18270     .23036     .04640    -.34997     .09501    -.03607     .16431    8.07790  300.03000
  -200.650   200.130   -.18665     .23055     .04900    -.35406     .09687    -.03709     .15453    8.10530  300.29000
  -198.850   398.460   -.19537     .23042     .05358    -.36551     .10269    -.03719     .20815    8.07430  299.80000

                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.               (RTU187)    ( 03 OCT 74  )

              REFERENCE DATA                                                              PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =     4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                          ALPHA  =    -5.900   BETA   =    10.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          CALPHA =     5.200   CBETA  =     8.000
SCALE =        .0100                                                           X      =   300.000

                     RUN NO.  553/ 0    RN/L =   5.95

      Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
  -401.070  -100.840   -.19442     .23073     .05235    -.36763     .10353    -.03564    5.22950    8.15280  300.43000
  -400.700     -.439   -.19858     .23072     .05564    -.36836     .10448    -.03699    5.19950    8.15070  300.24000
  -400.130    99.545   -.19932     .23093     .05621    -.37013     .10529    -.03714    5.19510    8.15560  300.31000
  -400.580   200.100   -.19989     .23126     .05662    -.37263     .10670    -.03714    5.16440    8.17130  300.27000
  -399.830   399.930   -.20003     .23198     .05671    -.37269     .10682    -.03713    5.17450    8.07590  300.04000
```

```
                          AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.                (RTU187)    ( 03 OCT 74  )

             REFERENCE DATA                                                                     PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                           MACH   =      4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                          ALPHA  =     -5.900   BETA   =     10.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                           CALPHA =      5.200   CBETA  =      8.000
SCALE =       .0190                                                             X      =    300.000

                          RUN NO.  554/ 0    RN/L =   5.95

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -201.340   -100.300    -.18327     .23233     .04576    -.34035     .08840    -.03425    5.16910    8.12380  300.28000
  -200.710      -.233    -.18252     .23123     .04639    -.35046     .09512    -.03561    5.17230    8.11270  300.25000
  -199.500     97.490    -.18630     .23087     .04907    -.35478     .09785    -.03700    5.23530    8.07340  300.14000
  -200.440    198.560    -.18912     .23096     .05055    -.35852     .09929    -.03719    5.19920    8.06680  300.62000
  -199.090    399.840    -.19707     .23057     .05472    -.36799     .10407    -.03713    5.17130    8.05330  299.85000

                          AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.                (RTU188)    ( 03 OCT 74  )

             REFERENCE DATA                                                                     PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                           MACH   =      4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                          ALPHA  =     -5.900   BETA   =     10.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                           CALPHA =      5.200   CBETA  =      8.000
SCALE =       .0190                                                             X      =       .000

                          RUN NO.  556/ 0    RN/L =   5.96

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -400.110   -100.060    -.18952     .23086     .04894    -.36023     .09938    -.03497    5.17700    8.08510    .16059
  -397.980       .345    -.19422     .23013     .05214    -.36311     .10146    -.03620    5.13280    8.03330   -.08000
  -400.340     99.667    -.19799     .23045     .05516    -.36607     .10314    -.03714    5.18550    8.08430    .04867
  -397.720    199.570    -.19935     .23041     .05625    -.36988     .10526    -.03710    5.17890    7.98460   -.02414
  -399.350    399.860    -.20031     .23212     .05682    -.37310     .10693    -.03717    5.17740    8.02180   -.08569

                          RUN NO.  555/ 0    RN/L =   5.95

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -203.420   -101.420    -.18426     .23292     .04685    -.30344     .07305    -.03285    5.21750    8.13230    .53816
  -200.430      -.560    -.17961     .23271     .04682    -.32247     .08844    -.03596    5.16930    8.12060   -.13751
  -201.080     99.755    -.16876     .23151     .04240    -.33319     .09290    -.03600    5.18540    8.16210   -.13465
  -199.700    199.660    -.17614     .23092     .04597    -.34418     .09525    -.03696    5.15670    8.05630   -.27968
  -200.270    400.210    -.19592     .23081     .05386    -.36687     .10335    -.03722    5.16380    8.07010    .05065
```

```
                         AEDC/VA528(IA87)-O1ET151-ORB/ET W L/H SRB SEPAR.            (RTU189)    ( 03 OCT 74  )

          REFERENCE DATA                                                               PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =      4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                          ALPHA  =     -5.900   BETA   =    10.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA =     -4.800   DBETA  =     8.000
SCALE =       .0100                                                             X      =       .000

                    RUN NO.  557/ 0    RN/L =   5.98

     Y          Z          CN          CA         CLM         CY         CYN         CBL       DLTALF      DLTBTA       X
  -400.080   100.040    -.18203     .22834     .04262    -.35605     .09742    -.03296   -4.80270    8.10160     .09816
  -398.590   199.890    -.19570     .22870     .05371    -.36179     .10085    -.03706   -4.83040    8.04890    -.11152
  -399.480   400.250    -.20021     .23060     .05672    -.37247     .10671    -.03715   -4.83630    8.06570    -.07780

                    RUN NO.  558/ 0    RN/L =   5.98

     Y          Z          CN          CA         CLM         CY         CYN         CBL       DLTALF      DLTBTA       X
  -201.570   101.880    -.15436     .23342     .03000    -.29379     .07133    -.02963   -4.94080    8.12020    -.97773
  -197.450   199.180    -.15949     .23031     .03581    -.31471     .08195    -.03404   -4.86470    8.03530    -.25564
  -200.270   399.900    -.18333     .22921     .04650    -.35329     .09609    -.03700   -4.84070    8.07890    -.14679

                         AEDC/VA528(IA87)-O1ET151-ORB/ET W L/H SRB SEPAR.            (RTU190)    ( 03 OCT 74  )

          REFERENCE DATA                                                               PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =      4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                          ALPHA  =     -5.900   BETA   =    10.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA =     -4.800   DBETA  =     8.000
SCALE =       .0100                                                             X      =    300.000

                    RUN NO.  560/ 0    RN/L =   5.98

     Y          Z          CN          CA         CLM         CY         CYN         CBL       DLTALF      DLTBTA       X
  -398.700    99.712    -.19782     .22960     .05499    -.36638     .10362    -.03692   -4.82340    8.03720  299.27000
  -397.430   199.200    -.19910     .23009     .05606    -.36887     .10480    -.03708   -4.80460    7.99880  299.67000
  -399.540   399.870    -.20008     .23174     .05673    -.37248     .10678    -.03710   -4.82650    8.07850  300.08000

                    RUN NO.  559/ 0    RN/L =   5.97

     Y          Z          CN          CA         CLM         CY         CYN         CBL       DLTALF      DLTBTA       X
  -198.090   101.570    -.17152     .23065     .03791    -.33725     .08815    -.03232   -4.87320    7.98990  299.79000
  -200.340   200.420    -.18176     .22986     .04587    -.34599     .09239    -.03640   -4.86000    8.10230  300.30000
  -197.620   398.450    -.19274     .22994     .05175    -.36184     .10050    -.03720   -4.80840    8.02130  299.78000
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                            AEDC/VA528(IA87)-O1ET181-ORB/ET W R/M SRB SEPAR.          (RTU191)    ( 03 OCT 74  )

           REFERENCE DATA                                                                     PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =     4.520  PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                          ALPHA  =    10.200  BETA   =    11.000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          CALPHA =      .000  CBETA  =      .000
SCALE =       .0100                                                            X      =      .000

                        RUN NO.   564/ 0    RN/L =   5.99

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
    10.025    -99.799     .21369     .15664    -.04622    -.32061     .05485    -.02629     .12095    -.12741    -.12136
    10.655      -.405     .21251     .15794    -.03878    -.31514     .05406    -.02724     .12695    -.14258     .06146
    11.025     99.178     .22016     .15807    -.04291    -.28731     .04708    -.02999     .11446    -.12458     .00177
    10.979    199.120     .22728     .16126    -.05060    -.28980     .05601    -.03262     .11184    -.12127     .51427
    10.716    399.830     .25317     .16298    -.07090    -.29864     .06552    -.03802     .08537    -.10212     .23061

                        RUN NO.   563/ 0    RN/L =   5.98

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   100.450    -99.988     .23937     .15410    -.06177    -.30844     .05602    -.02854     .11546    -.12720    -.14297
   100.990      -.092     .21167     .15657    -.03927    -.29799     .05266    -.02509     .12081    -.15860    -.05610
   100.200     99.650     .22434     .16092    -.04810    -.28887     .05493    -.03005     .09934    -.10856     .38740
   100.620    199.630     .22930     .16194    -.05347    -.28956     .05953    -.03282     .09045    -.10769     .52200
   100.750    400.090     .25258     .16353    -.07024    -.29549     .06404    -.03749     .08261    -.08272     .34167

                        RUN NO.   562/ 0    RN/L =   5.98

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   201.280   -100.320     .23811     .15579    -.06142    -.29927     .05730    -.02713     .11545    -.14285     .53829
   200.250       .300     .21922     .15821    -.04601    -.29389     .05543    -.02460     .07702    -.15102     .37620
   200.110    100.790     .22712     .16070    -.05117    -.29316     .05802    -.03004     .07590    -.11747     .30995
   199.170    198.970     .22981     .16189    -.05302    -.29437     .06153    -.03257     .14029    -.05588     .27542
   198.900    399.230     .25535     .16399    -.07263    -.29845     .06608    -.03699     .11703    -.02448     .32434

                        RUN NO.   561/ 0    RN/L =   6.00

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   400.480   -100.470     .23941     .16198    -.06291    -.30826     .07315    -.03427     .12516    -.11707     .41179
   401.040      -.357     .23626     .16225    -.06042    -.31213     .07617    -.03377     .11989    -.13098     .43089
   400.620     99.439     .23721     .16246    -.06095    -.31144     .07541    -.03287     .12351    -.12157     .42429
   400.540    199.320     .23920     .16278    -.06208    -.30809     .07305    -.03212     .11103    -.10517     .44135
   400.570    399.780     .25147     .16166    -.07201    -.30337     .07052    -.03614     .03448    -.09764     .52144
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU192) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = 10.200 BETA = 11.000
DALPHA = .000 DBETA = .000
X = 300.000

RUN NO. 565/ 0 RN/L = 5.99

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
10.764	-100.280	.21919	.15531	-.04929	-.31525	.06279	-.02768	.13351	-.15011	299.89000
10.734	-.001	.22146	.15889	-.04524	-.30963	.05960	-.02777	.11486	-.13500	299.93000
10.069	100.380	.22795	.16096	-.04873	-.29608	.05710	-.03028	.08610	-.10868	299.82000
8.741	199.120	.24014	.16502	-.05694	-.30187	.06481	-.03329	.11383	-.04554	300.05000
11.702	400.060	.24377	.16210	-.06513	-.30065	.06709	-.02 33	.07007	-.14447	299.92000

RUN NO. 566/ 0 RN/L = 5.99

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
103.720	-101.160	.22775	.15603	-.05385	-.31046	.05970	-.02476	.15034	-.21113	299.84000
101.530	1.331	.23673	.16023	-.05699	-.30831	.06157	-.03022	.10259	-.18260	299.86000
100.420	99.635	.23483	.16180	-.05479	-.30483	.06402	-.03167	.10950	-.11441	300.07000
101.300	199.440	.24620	.16396	-.06375	-.30008	.06532	-.03433	.10499	-.12069	300.15000
100.490	399.820	.24496	.16195	-.06651	-.30210	.06845	-.03415	.09601	-.11837	299.85000

RUN NO. 567/ 0 RN/L = 5.99

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
201.580	-100.860	.22985	.15873	-.05580	-.30613	.06815	-.02876	.12410	-.14322	300.13000
202.450	-1.113	.22796	.16116	-.05374	-.31080	.07280	-.03013	.11345	-.18824	299.91000
202.160	99.371	.23660	.16308	-.05927	-.30763	.07115	-.03185	.12820	-.17669	299.92000
200.590	199.860	.24761	.16415	-.06696	-.30426	.06957	-.03362	.09873	-.11609	300.00000
198.010	399.220	.24244	.16142	-.06486	-.30212	.06906	-.03364	.10370	-.09663	299.87000

RUN NO. 568/ 0 RN/L = 5.97

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.650	-100.160	.23988	.16087	-.06304	-.29995	.06811	-.03417	.09839	-.11653	299.92000
399.980	-.560	.23712	.16041	-.06110	-.29814	.06662	-.03283	.12233	-.08543	299.99000
401.170	100.360	.23843	.16089	-.06187	-.29801	.06642	-.03291	.06339	-.13039	300.08000
399.900	199.900	.24304	.16139	-.06549	-.29818	.06663	-.03479	.08757	-.08582	299.99000
400.720	400.210	.23842	.16160	-.06203	-.29681	.06549	-.03375	.06208	-.13056	299.95000

```
                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.          (RTU193)   ( 03 OCT 74 )

          REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =      4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                          ALPHA  =     10.200   BETA   =     11.000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA =      5.100   CBETA  =       .000
SCALE =       .0100                                                            X      =    300.000

                         RUN NO.  572/ 0    RN/L =   5.97

      Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
    8.694    -99.975     .21441     .15668    -.04358    -.32626     .06376    -.02564    5.08500    -.08597  300.05000
   12.671       .874     .22505     .15959    -.04581    -.30554     .05647    -.02757    5.07810    -.19597  299.69000
   10.990     99.142     .22317     .16154    -.04508    -.29063     .05493    -.02935    5.12550    -.13023  300.20000
   10.447    199.320     .24460     .16537    -.06037    -.29632     .06253    -.03457    5.10530    -.10949  300.02000
   10.706    399.770     .24143     .16245    -.06349    -.30008     .06704    -.03395    5.11050    -.11794  299.92000

                         RUN NO.  571/ 0    RN/L =   5.96

      Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  100.600   -100.120     .22929     .15695    -.05347    -.32011     .06378    -.02562    5.13470    -.15236  299.81000
  100.190       .283     .23792     .16089    -.05662    -.31122     .06240    -.03036    5.10100    -.12391  299.77000
  100.900     99.819     .23421     .16228    -.05376    -.30302     .06306    -.03096    5.11060    -.13677  300.03000
  100.800    199.720     .24683     .16401    -.06443    -.29833     .06435    -.03449    5.09220    -.11923  300.12000
  100.750    400.230     .24322     .16219    -.06487    -.30085     .06783    -.03377    5.10370    -.11323  299.85000

                         RUN NO.  570/ 0    RN/L =   5.96

      Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  200.750   -100.160     .22813     .15873    -.05407    -.31223     .07154    -.02799    5.13450    -.14328  300.09000
  199.320      1.992     .23248     .16129    -.05654    -.31331     .07349    -.03064    5.03710    -.06880  299.92000
  196.700    102.090     .23998     .16311    -.06117    -.30682     .07010    -.03209    5.02290    -.09315  299.77000
  200.340    198.720     .25103     .16408    -.06953    -.30393     .06942    -.03424    5.16930    -.11785  300.12000
  199.860    398.390     .24256     .16157    -.06490    -.30120     .06844    -.03363    5.12880    -.06743  300.09000

                         RUN NO.  569/ 0    RN/L =   5.96

      Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  400.900   -100.380     .24033     .16071    -.06312    -.30208     .06955    -.03413    5.12190    -.13092  300.04000
  400.630      -.283     .23897     .16046    -.06234    -.30006     .06790    -.03299    5.12160    -.11582  300.05000
  401.650     99.528     .24063     .16092    -.06371    -.30034     .06793    -.03345    5.12020    -.12267  300.14000
  400.630    199.730     .24346     .16092    -.06574    -.29881     .06710    -.03488    5.09000    -.09645  300.05000
  401.040    400.030     .23827     .16173    -.06199    -.29702     .06557    -.03380    5.09230    -.11698  300.08000
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR. (RTU194) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = 10.200 BETA = 11.000
DALPHA = 5.100 DBETA = .000
X = .000

RUN NO. 573/ 0 RN/L = 5.97

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
10.521	-99.797	.20729	.15697	-.03806	-.33183	.05517	-.02395	5.13450	-.17479	.26219
10.927	.057	.21384	.15977	-.03720	-.30798	.04863	-.02668	5.12310	-.14194	.33017
9.795	100.310	.21738	.15932	-.04088	-.27995	.04547	-.03033	5.07340	-.08250	.25598
11.369	199.580	.22004	.16155	-.04666	-.28624	.05636	-.03204	5.08960	-.13622	.60970
9.911	399.350	.25083	.16248	-.07035	-.29616	.06437	-.03772	5.11020	-.07980	.44911

RUN NO. 574/ 0 RN/L = 5.97

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
99.624	-99.999	.22461	.15500	-.04917	-.31301	.05493	-.02499	5.13020	-.11784	.40301
100.170	-.789	.21122	.15842	-.03736	-.29657	.05059	-.02575	5.13670	-.13287	.54325
100.600	99.536	.22494	.16144	-.04769	-.28474	.05265	-.03041	5.10840	-.11768	.54962
101.000	199.550	.22737	.16221	-.05165	-.28634	.05773	-.03299	5.09730	-.11481	.43960
100.060	399.760	.25374	.16333	-.07164	-.29496	.06385	-.03778	5.08180	-.10072	.38132

RUN NO. 575/ 0 RN/L = 5.97

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
202.150	-101.870	.23190	.15659	-.05604	-.30242	.05765	-.02482	5.18890	-.15764	.82555
202.020	-.172	.22573	.15961	-.04940	-.29694	.05658	-.02634	5.09280	-.16017	.50723
201.200	100.380	.22996	.16126	-.05216	-.29354	.05782	-.03048	5.05740	-.12525	.54180
201.060	200.110	.23085	.16267	-.05284	-.29446	.06100	-.03199	5.06880	-.17141	.70662
200.600	399.330	.25622	.16359	-.07376	-.29894	.06634	-.03731	5.09120	-.10930	.49970

RUN NO. 576/ 0 RN/L = 5.96

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
397.000	-100.500	.23991	.16167	-.06314	-.31254	.07482	-.03338	5.15910	-.03424	.30997
400.290	-.079	.23918	.16241	-.06201	-.31634	.07791	-.03357	5.10220	-.11612	.22788
400.490	99.823	.24038	.16253	-.06287	-.31343	.07611	-.03289	5.11370	-.13058	.30400
400.370	199.920	.24271	.16291	-.06417	-.30931	.07337	-.03223	5.11000	-.12766	.36204
400.430	399.660	.25062	.16170	-.07138	-.30435	.07069	-.03592	5.10780	-.11555	.47619

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU195) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = 10.200 BETA = 11.000
CALPHA = -4.900 CBETA = .000
X = .000

RUN NO. 580/ 0 RN/L = 5.98

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
9.420	99.514	.22001	.15738	-.04370	-.29771	.05058	-.03004	-4.89200	-.07645	-.19096
10.742	199.550	.23123	.16140	-.05078	-.29931	.05761	-.03301	-4.90000	-.13045	-.27397
11.348	399.920	.25292	.16481	-.06970	-.30279	.06768	-.03716	-4.91400	-.12017	.00258

RUN NO. 579/ 0 RN/L = 5.98

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
101.080	100.030	.22353	.16116	-.04810	-.29508	.05813	-.03019	-4.90170	-.13039	.00240
100.220	199.920	.23046	.16244	-.05522	-.29357	.06089	-.03270	-4.90850	-.10321	-.12234
102.400	400.310	.24974	.16418	-.06712	-.29910	.06558	-.03665	-4.94050	-.14619	-.07697

RUN NO. 578/ 0 RN/L = 5.97

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
203.710	100.160	.22456	.16053	-.04958	-.29291	.05760	-.02878	-4.86560	-.19634	-.01724
198.190	200.550	.22927	.16233	-.05270	-.29568	.06201	-.03238	-4.95710	-.06732	-.42138
197.390	399.880	.25286	.16412	-.07004	-.29935	.06606	-.03629	-4.90910	-.01068	-.11583

RUN NO. 577/ 0 RN/L = 5.97

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.910	99.575	.23501	.16270	-.05933	-.31075	.07542	-.03317	-4.88280	-.12270	.37916
399.880	199.140	.23710	.16290	-.06060	-.30666	.07358	-.03233	-4.88380	-.07514	.28238
399.960	399.660	.25319	.16220	-.07286	-.30440	.07107	-.03614	-4.90920	-.08380	.65437

```
                                        AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.            (RTU196)    ( 03 OCT 74  )

               REFERENCE DATA                                                                         PARAMETRIC DATA

SREF   =  2690.0000 SQ.FT.   XMRP   =  1097.0000 IN. XT                              MACH    =     4.520   PTOTL   =     91.200
LREF   =  1290.3000 INCHES   YMRP   =       .0000 IN. YT                             ALPHA   =    10.200   BETA    =     11.000
BREF   =  1290.3000 INCHES   ZMRP   =   450.0000 IN. ZT                              DALPHA  =    -4.900   DBETA   =       .000
SCALE  =        .0100                                                                X       =   300.000

                              RUN NO.   581/ 0    RN/L =   5.98

      Y          Z          CN          CA          CLM          CY          CYN         CBL        DLTALF      DLTBTA       X
   10.657     100.180     .23034      .16115     -.05030     -.30211      .05928     -.03111     -4.90820     -.11734   299.98000
    9.249     199.440     .24137      .16428     -.05791     -.30678      .06592     -.03335     -4.88640     -.06680   299.86000
   11.010     400.510     .24917      .16197     -.06904     -.30160      .06738     -.03500     -4.94180     -.14814   300.07000

                              RUN NO.   582/ 0    RN/L =   5.98

      Y          Z          CN          CA          CLM          CY          CYN         CBL        DLTALF      DLTBTA       X
  101.030     101.220     .23831      .16153     -.05767     -.30696      .06481     -.03290     -4.92370     -.05557   299.83000
  100.430     199.670     .24626      .16475     -.06367     -.30454      .06765     -.03445     -4.89740     -.10618   299.94000
  101.130     399.890     .25183      .16197     -.07179     -.30329      .06894     -.03547     -4.90130     -.12274   299.91000

                              RUN NO.   583/ 0    RN/L =   5.97

      Y          Z          CN          CA          CLM          CY          CYN         CBL        DLTALF      DLTBTA       X
  200.860      99.764     .23365      .16308     -.05727     -.30886      .07236     -.03203     -4.89190     -.12776   299.99000
  202.970     199.690     .24546      .16394     -.06563     -.30529      .07043     -.03370     -4.84120     -.15164   299.79000
  198.800     398.900     .25061      .16119     -.07174     -.30507      .07067     -.03561     -4.87120     -.04569   300.06000

                              RUN NO.   584/ 0    RN/L =   5.98

      Y          Z          CN          CA          CLM          CY          CYN         CBL        DLTALF      DLTBTA       X
  400.490      99.950     .23687      .16109     -.06081     -.29749      .06588     -.03271     -4.90450     -.11878   299.77000
  400.500     200.480     .24309      .16187     -.06521     -.29837      .06658     -.03450     -4.93580     -.14795   299.89000
  400.970     400.180     .23956      .16170     -.06280     -.29740      .06570     -.03412     -4.94150     -.14951   300.03000
```

```
                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.              (RTU197)    ( 03 OCT 74  )

          REFERENCE DATA                                                                     PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                MACH    =     4.520  FTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                               ALPHA   =    10.200  BETA   =     11.000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                CALPHA  =      .100  CBETA  =     -4.100
SCALE =        .0100                                                                 X       =      .000

                         RUN NO.  587/ 0    RN/L =   5.97

     Y          Z          CN          CA         CLM         CY          CYN        CBL         DLTALF     DLTBTA       X
  100.560    -99.882     .25186      .15613    -.07132     -.33283     .06591    -.03181      .11701   -4.13710    -.10329
  100.430      -.244     .21969      .15638    -.04422     -.32021     .05969    -.02704      .13399   -4.15670    -.14401
  100.980     99.860     .23382      .16102    -.05230     -.29774     .05591    -.03086      .10127   -4.14580    -.09503
  100.650    199.670     .23693      .16236    -.05747     -.29255     .05974    -.03311      .09467   -4.10790    -.02797
  101.060    400.785     .25334      .16334    -.07052     -.29672     .06428    -.03762      .05855   -4.10560     .01441

                         RUN NO.  586/ 0    RN/L =   5.97

     Y          Z          CN          CA         CLM         CY          CYN        CBL         DLTALF     DLTBTA       X
  200.630   -100.230     .23827      .15548    -.06140     -.30872     .06217    -.02683      .13177   -4.14100     .03288
  200.240      -.132     .22533      .16006    -.04995     -.30610     .06263    -.02595      .12801   -4.12880    -.15561
  199.030    102.750     .23498      .16091    -.05618     -.29772     .06012    -.03102     -.00526   -4.04410    -.32298
  198.820    200.385     .23400      .16223    -.05555     -.29525     .06133    -.03288      .09996   -4.05300    -.21365
  200.250    399.810     .25626      .16398    -.07251     -.29821     .06548    -.03699      .08419   -4.09700     .30461

                         RUN NO.  585/ 0    RN/L =   5.97

     Y          Z          CN          CA         CLM         CY          CYN        CBL         DLTALF     DLTBTA       X
  399.580    -99.935     .24011      .16157    -.06335     -.30906     .07241    -.03353      .09592   -4.06110    -.03991
  400.460      -.646     .23755      .16247    -.06097     -.31454     .07681    -.03375      .13334   -4.10770     .37723
  400.760     99.686     .23922      .16281    -.06192     -.31392     .07662    -.03334      .11139   -4.12540     .34331
  401.160    199.130     .24098      .16285    -.06287     -.31024     .07392    -.03231      .12886   -4.13250     .67428
  400.240    399.630     .25402      .16214    -.07371     -.30584     .07166    -.03630      .09620   -4.09010     .54973
```

```
                         AEDC/VA328(IA87)-O1ET1S1-CRB/ET W R/H SRB SEPAR.          (RTU198)   ( 03 OCT 74  )

                REFERENCE DATA                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                    MACH    =     4.520   FTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                   ALPHA   =    10.200   BETA   =     11.000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                    DALPHA  =      .100   DBETA  =     -4.100
SCALE =       .0100                                                      X       =   300.000

                          RUN NO.  588/ 0    RN/L =   5.98

     Y         Z          CN         CA        CLM         CY        CYN        CBL       DLTALF     DLTBTA      X
   100.970   -98.921    .24131     .15657    -.06364    -.32459    .06673    -.02848     .04964   -4.18630  299.78000
   101.030     -.311    .24233     .16029    -.06026    -.32092    .06658    -.03108     .11687   -4.13640  299.98000
   100.840    99.648    .23939     .16159    -.05686    -.31270    .06662    -.03143     .11618   -4.13380  300.10000
   100.710   199.290    .24988     .16536    -.06512    -.30406    .06669    -.03414     .11000   -4.11500  300.05000
   100.490   399.830    .24488     .16222    -.06618    -.30201    .06809    -.03411     .10208   -4.11890  299.73000

                          RUN NO.  589/ 0    RN/L =   5.97

     Y         Z          CN         CA        CLM         CY        CYN        CBL       DLTALF     DLTBTA      X
   201.090  -100.690    .23411     .15833    -.05917    -.31255    .07095    -.02864     .13457   -4.12670  300.02000
   202.490    -1.436    .23211     .16113    -.03658    -.31752    .07640    -.03092     .13913   -4.15260  300.16000
   201.060    99.803    .24066     .16269    -.06178    -.31076    .07267    -.03273     .11338   -4.12750  299.93000
   200.390   199.830    .24984     .16413    -.06793    -.30446    .06906    -.03393     .09527   -4.11250  300.00000
   199.740   398.290    .24394     .16187    -.06581    -.30350    .06970    -.03370     .14071   -4.08680  299.94000

                          RUN NO.  590/ 0    RN/L =   5.97

     Y         Z          CN         CA        CLM         CY        CYN        CBL       DLTALF     DLTBTA      X
   400.570  -100.010    .23976     .16115    -.06272    -.30381    .07090    -.03460     .09495   -4.11430  299.83000
   401.430    -1.454    .23792     .16099    -.06148    -.30234    .06943    -.03321     .17463   -4.18280  300.13000
   400.570    99.900    .23960     .16112    -.06271    -.30098    .06840    -.03296     .09459   -4.14460  300.01000
   400.670   200.250    .24513     .16120    -.06711    -.30088    .06852    -.03497     .07712   -4.11830  300.05000
   400.460   400.080    .23823     .16152    -.06199    -.29711    .06561    -.03382     .05310   -4.10430  300.03000
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                      AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.          (RTU199)    ( 03 OCT 74  )

           REFERENCE DATA                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                  MACH   =      4.520   FTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                  ALPHA  =     10.200   BETA   =     11.000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                  DALPHA =      5.100   DBETA  =     -4.100
SCALE =       .0100                                                     X      =    300.000

                         RUN NO.  593/ 0    RN/L =   5.97

    Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
 100.950   -100.130     .23309     .15660    -.05617    -.33357     .06960    -.02638    5.14340   -4.16230  299.95000
 100.760       .233     .24603     .16100    -.06121    -.32142     .06565    -.03119    5.11080   -4.13310  299.87000
 100.760     99.760     .23601     .16210    -.05353    -.30630     .06259    -.03047    5.11670   -4.14330  299.98000
 101.070    199.730     .25338     .16473    -.06774    -.29979     .06441    -.03501    5.09090   -4.12990  300.03000
 100.590    400.540     .24383     .16244    -.06515    -.30066     .06758    -.03379    5.08740   -4.12290  299.86000

                         RUN NO.  592/ 0    RN/L =   5.96

    Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
 201.180   -100.420     .22938     .15901    -.05489    -.32054     .07542    -.02701    5.14370   -4.17010  300.03000
 198.790       .869     .23753     .16188    -.05974    -.32070     .07763    -.03114    5.12720   -4.01700  299.77000
 200.610     99.660     .24174     .16309    -.06184    -.30951     .07135    -.0[illegible]16    5.10800   -4.11400  300.03000
 197.660    200.440     .25320     .16403    -.07065    -.30380     .06888    -.03467    5.11260   -4.02750  299.78000
 200.610    397.520     .24393     .16189    -.06581    -.30277     .06927    -.03367    5.17640   -4.11220  300.17000

                         RUN NO.  591/ 0    RN/L =   5.97

    Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
 400.290   -100.110     .24037     .16116    -.06311    -.30710     .07322    -.03440    5.10090   -4.08460  299.96000
 400.340      -.294     .24022     .16113    -.06281    -.30492     .07139    -.03319    5.11480   -4.11580  299.91000
 401.050     99.691     .24216     .16108    -.06465    -.30315     .06989    -.03336    5.10750   -4.13810  300.05000
 400.550    199.490     .24630     .16099    -.06807    -.30177     .06925    -.03528    5.13100   -4.09770  300.05000
 400.960    399.940     .23845     .16158    -.06206    -.29717     .06560    -.03382    5.09850   -4.11320  299.99000
```

```
                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.                (RTU200)    ( 03 OCT 74  )

              REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                              MACH   =     4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                             ALPHA  =    10.200   BETA   =    11.000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                              DALPHA =     5.100   DBETA  =    -4.100
SCALE =       .0100                                                                X      =      .000

                          RUN NO.  594/ 0    RN/L =   5.97

     Y          Z          CN        CA        CLM        CY         CYN       CBL       DLTALF    DLTBTA       X
  100.170   -100.620     .22468    .15409   -.04951   -.33692    .06315   -.02520   5.14350   -4.03710    .58720
  100.510      -.656     .22122    .15785   -.04337   -.31012    .05312   -.02713   5.13140   -4.13560    .51798
  100.080     99.488     .22961    .16122   -.04863   -.28663    .05070   -.03051   5.10380   -4.09300    .49482
  100.630    199.410     .23074    .16223   -.05357   -.28711    .05731   -.03291   5.09740   -4.09460    .46984
  100.990    399.840     .25206    .16285   -.07038   -.29486    .06343   -.03738   5.08140   -4.10550    .47578

                          RUN NO.  595/ 0    RN/L =   5.97

     Y          Z          CN        CA        CLM        CY         CYN       CBL       DLTALF    DLTBTA       X
  200.530   -100.320     .23206    .15708   -.05583   -.31576    .06478   -.02457   5.14330   -4.15400    .37574
  200.450      -.280     .23072    .16030   -.05254   -.30587    .06114   -.02714   5.11990   -4.13620    .39903
  201.850    100.620     .23436    .16147   -.05458   -.29407    .05720   -.03084   5.04660   -4.11220    .55468
  200.770    200.470     .23158    .16253   -.05303   -.29353    .05978   -.03193   5.04390   -4.14430    .46277
  200.620    399.520     .25678    .16350   -.07349   -.29753    .06526   -.03715   5.08160   -4.09730    .53559

                          RUN NO.  596/ 0    RN/L =   5.97

     Y          Z          CN        CA        CLM        CY         CYN       CBL       DLTALF    DLTBTA       X
  396.140    -97.930     .23944    .16143   -.06281   -.31373    .07467   -.03257   5.05300   -4.02830   -.30735
  400.660      -.106     .23960    .16225   -.06228   -.31873    .07875   -.03361   5.09520   -4.12850    .41155
  400.220     99.744     .24193    .16270   -.06349   -.31581    .07719   -.03330   5.11560   -4.11590    .28022
  400.300    199.780     .24349    .16310   -.06419   -.31046    .07351   -.03216   5.11060   -4.11200    .41239
  400.200    399.900     .25363    .16202   -.07326   -.30568    .07152   -.03601   5.09470   -4.10890    .28355
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU201) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = 10.200 BETA = 11.000
DALPHA = -4.900 DBETA = -4.100
X = .000

RUN NO. 599/ 0 RN/L = 5.97

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.820	100.110	.23310	.16094	-.05303	-.31099	.06256	-.03099	-4.90050	-4.13500	.02626
100.660	199.870	.24359	.16259	-.06130	-.30409	.06500	-.03376	-4.91070	-4.11140	.09655
100.640	399.730	.25203	.16399	-.06848	-.30084	.06656	-.03662	-4.91460	-4.10180	-.15589

RUN NO. 598/ 0 RN/L = 5.97

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.440	99.911	.23307	.16127	-.05539	-.30172	.06292	-.03032	-4.89530	-4.11620	-.07121
199.680	201.440	.23563	.16201	-.05711	-.30040	.06450	-.03301	-4.97490	-4.09890	.00387
200.170	399.930	.25319	.16410	-.06985	-.29979	.06600	-.03621	-4.91450	-4.10450	-.11335

RUN NO. 597/ 0 RN/L = 5.97

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
399.580	99.103	.23690	.16287	-.06038	-.31282	.07643	-.03355	-4.84420	-4.05700	-.26259
400.580	199.390	.23960	.16321	-.06213	-.31109	.07475	-.03283	-4.88660	-4.09830	-.14761
399.710	399.660	.25497	.16248	-.07408	-.30628	.07194	-.03625	-4.90110	-4.07280	-.00659

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU202) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = 10.200 BETA = 11.000
DALPHA = -4.900 DBETA = -4.100
X = 300.000

RUN NO. 600/ 0 RN/L = 5.97

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
101.940	102.260	.24605	.16189	-.06225	-.31888	.06992	-.03342	-4.96550	-4.18440	300.09000
100.690	199.870	.25036	.16445	-.06530	-.31278	.07152	-.03424	-4.90150	-4.12800	300.06000
100.680	400.000	.25076	.16198	-.07040	-.30261	.06824	-.03503	-4.90890	-4.12060	299.84000

RUN NO. 601/ 0 RN/L = 5.97

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
201.270	100.710	.24150	.16266	-.06269	-.31260	.07423	-.03369	-4.36290	-4.12620	300.07000
200.300	199.910	.24838	.16393	-.06720	-.30578	.07013	-.03421	-4.89990	-4.10870	299.95000
200.430	399.950	.24952	.16159	-.07055	-.30527	.07070	-.03493	-4.90890	-4.11110	300.02000

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU202) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = 10.200 BETA = 11.000
DALPHA = -4.900 DBETA = -4.100
X = 300.000

RUN NO. 602/ 0 RN/L = 5.97

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.640	99.875	.23867	.16133	-.06194	-.30014	.06762	-.03303	-4.90380	-4.11690	299.83000
400.600	199.570	.24407	.16152	-.06600	-.29989	.06780	-.03456	-4.88610	-4.15590	299.94000
400.930	400.685	.23889	.16143	-.06253	-.29728	.06565	-.03405	-4.98210	-4.18120	300.03000

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU203) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = 10.200 BETA = 11.000
DALPHA = .100 DBETA = -8.100
X = .000

RUN NO. 604/ 0 RN/L = 5.97

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
201.020	-100.120	.25823	.15448	-.07654	-.32704	.07016	-.03031	.12501	-8.14210	-.06430
200.720	-.070	.23562	.15948	-.05532	-.32637	.07188	-.02765	.12503	-8.13940	.00327
200.940	99.498	.24424	.16209	-.06118	-.31157	.06670	-.03097	.11803	-8.13500	.12100
200.680	199.730	.23948	.16192	-.05905	-.30097	.06386	-.03264	.09992	-8.11500	-.12140
200.590	399.860	.25635	.16363	-.07219	-.29837	.06511	-.03686	.08394	-8.09870	-.24620

RUN NO. 603/ 0 RN/L = 5.97

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.810	-100.140	.24342	.16125	-.06603	-.31019	.07206	-.03330	.10661	-8.12110	-.06559
400.340	-1.055	.24007	.16190	-.06277	-.31600	.07651	-.03347	.15705	-8.10130	-.13555
400.800	100.380	.24137	.16273	-.06297	-.31674	.07756	-.03387	.06685	-8.09210	-.15349
401.460	199.600	.24245	.16298	-.06359	-.31202	.07447	-.03268	.09652	-8.12260	.06341
399.830	399.630	.25776	.16248	-.07602	-.30716	.07228	-.03652	.10104	-8.07940	.35515

```
                               AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.          (RTU204)    ( 03 OCT 74  )

          REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                            MACH   =     4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                            ALPHA  =    10.200   BETA   =    11.000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                            DALPHA =      .100   DBETA  =    -8.100
SCALE =       .0100                                                              X      =   300.000

                         RUN NO.  605/ 0    RN/L =   5.98

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   202.190   -100.270     .24340     .15705    -.06662    -.32513     .07596    -.02955     .15206   -8.10960  300.24000
   200.980     -.221      .24118     .16206    -.06232    -.33040     .08183    -.03132     .13217   -8.14880  299.94000
   200.790     99.878     .25004     .16294    -.06814    -.31945     .07775    -.03364     .11187   -8.12950  299.92000
   200.850    199.720     .25225     .16350    -.06914    -.30668     .07021    -.03414     .09782   -8.11820  299.96000
   200.760    399.580     .24558     .16200    -.06695    -.30469     .07022    -.03381     .10042   -8.10610  299.88000

                         RUN NO.  606/ 0    RN/L =   5.97

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   401.110   -100.160     .24164     .16147    -.05406    -.30817     .07470    -.03563     .09614   -8.11570  300.02000
   400.500     -.148      .23944     .16155    -.06239    -.30670     .07300    -.03351     .10046   -8.11000  300.00000
   400.360     99.847     .24120     .16126    -.06377    -.30455     .07080    -.03311     .10272   -8.11170  299.97000
   401.110    200.110     .24812     .16130    -.06942    -.30371     .07061    -.03530     .08628   -8.13320  299.98000
   400.740    399.520     .23844     .16113    -.06209    -.29708     .06557    -.03380     .08801   -8.14360  300.06000

                               AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.          (RTU205)    ( 03 OCT 74  )

          REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                            MACH   =     4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                            ALPHA  =    10.200   BETA   =    11.000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                            DALPHA =     5.100   DBETA  =    -8.100
SCALE =       .0100                                                              X      =   300.000

                         RUN NO.  608/ 0    RN/L =   5.96

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   201.580   -100.590     .23396     .15887    -.05850    -.33434     .08096    -.02658    5.17000   -8.20100  300.05000
   200.650     -.247      .24465     .16233    -.06431    -.33132     .08234    -.03140    5.12990   -8.14380  299.93000
   200.120     99.326     .24895     .16337    -.06683    -.31734     .07569    -.03277    5.11660   -8.11420  300.00000
   200.590    199.610     .25575     .16393    -.07177    -.30549     .06930    -.03491    5.10500   -8.10670  300.04000
   199.340    397.790     .24541     .16201    -.06667    -.30374     .06978    -.03365    5.17550   -8.12070  299.98000
```

```
                                 AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.          (RTU205)   ( 03 OCT 74  )

      REFERENCE DATA                                                                       PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =     4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                          ALPHA  =    10.200   BETA   =     11.000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA =     5.100   DBETA  =     -8.100
SCALE =      .0100                                                             X      =   300.000

                      RUN NO.  607/ 0    RN/L =   5.97

      Y          Z          CN         CA         CLM        CY          CYN        CBL        DLTALF     DLTBTA      X
   400.900   -100.420     .24087     .16154    -.06333    -.31118     .07652    -.03495    5.10320   -8.10620  300.00000
   400.470      -.033     .24107     .16179    -.06348    -.30906     .07440    -.03338    5.09190   -8.07070  299.98000
   400.440     99.770     .24360     .16128    -.06542    -.30668     .07224    -.03318    5.09700   -8.09250  299.88000
   401.630    199.646     .25049     .16099    -.07129    -.30490     .07150    -.03579    5.12960   -8.13350  300.12000
   400.640    399.900     .23877     .16116    -.06216    -.29709     .06556    -.03378    5.09710   -8.11010  300.11000

                                 AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.          (RTU206)   ( 03 OCT 74  )

      REFERENCE DATA                                                                       PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =     4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                          ALPHA  =    10.200   BETA   =     11.000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA =     5.100   DBETA  =     -8.100
SCALE =      .0100                                                             X      =      .000

                      RUN NO.  609/ 0    RN/L =   5.97

      Y          Z          CN         CA         CLM        CY          CYN        CBL        DLTALF     DLTBTA      X
   200.990   -100.240     .24303     .15629    -.06323    -.33606     .07284    -.02571    5.13840   -8.16170     .38036
   200.780      -.456     .23829     .16012    -.05652    -.32035     .06653    -.02770    5.13960   -8.15320     .49179
   200.760     99.644     .24351     .16253    -.05995    -.30074     .05965    -.03139    5.11210   -8.12510     .45188
   200.440    201.030     .23306     .16220    -.05367    -.29325     .05873    -.03177    5.01300   -8.07030     .44755
   200.560    399.850     .25670     .16334    -.07295    -.29725     .06457    -.03695    5.09360   -8.10870     .47041

                      RUN NO.  610/ 0    RN/L =   5.97

      Y          Z          CN         CA         CLM        CY          CYN        CBL        DLTALF     DLTBTA      X
   400.600   -100.420     .24016     .16139    -.06355    -.31808     .07634    -.03204    5.11790   -8.13260     .57360
   400.270      -.181     .24124     .16206    -.06328    -.32142     .07911    -.03315    5.11980   -8.12360     .43330
   400.900     99.223     .24417     .16256    -.06468    -.31928     .07851    -.03374    5.15410   -8.18910     .43407
   400.330    199.620     .24442     .16300    -.06426    -.31278     .07445    -.03226    5.11330   -8.13290     .28612
   399.590    399.880     .25677     .16200    -.07561    -.30673     .07210    -.03631    5.10300   -8.06850     .29873
```

```
                                 AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.          (RTU207)   ( 03 OCT 74  )

            REFERENCE DATA                                                                   PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH    =     4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                          ALPHA   =    10.200   BETA   =    11.000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA  =    -4.900   DBETA  =    -8.100
SCALE =      .0100                                                             X       =      .000

                      RUN NO.   612/ 0    RN/L =   5.97

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
  199.850     99.949     .24358     .16149    -.06195    -.32225     .07344    -.03143    -4.88730   -8.11320   -.31315
  197.810    202.270     .25186     .16214    -.06814    -.31315     .07131    -.03407    -5.00510   -7.99790   -.29600
  200.850    399.890     .25476     .16358    -.07046    -.30098  [illegible] -.03606    -4.91260   -8.10660   -.13429

                      RUN NO.   611/ 0    RN/L =   5.97

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
  400.630     99.986     .24000     .16291    -.06253    -.31606     .07756    -.03449    -4.89900   -8.11680   -.13111
  401.060    200.400     .24280     .16341    -.06386    -.31336     .07568    -.03353    -4.95670   -8.08070    .04904
  400.030    399.850     .25773     .16285    -.07574    -.30770     .07260    -.03636    -4.91050   -8.08200   -.01378

                                 AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.          (RTU208)   ( 03 OCT 74  )

            REFERENCE DATA                                                                   PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH    =     4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                          ALPHA   =    10.200   BETA   =    11.000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA  =    -4.900   DBETA  =    -8.100
SCALE =      .0100                                                             X       =   300.000

                      RUN NO.   613/ 0    RN/L =   5.98

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
  201.540     99.260     .25015     .16346    -.06830    -.32248     .07980    -.03416    -4.87670   -8.11460  299.99000
  200.750    199.910     .25262     .16292    -.06991    -.31225     .07412    -.03430    -4.89780   -8.11960  299.94000
  201.700    399.890     .25063     .16136    -.07107    -.30517     .07567    -.03469    -4.91890   -8.13850  300.24000

                      RUN NO.   614/ 0    RN/L =   5.97

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
  400.870     99.858     .24101     .16135    -.06366    -.30387     .07059    -.03352    -4.90230   -8.12840  300.02000
  400.210    200.050     .24653     .16142    -.06794    -.30286     .06998    -.03479    -4.90770   -8.10100  299.83000
  400.470    399.780     .23943     .16102    -.06273    -.29725     .06563    -.03400    -4.90710   -8.10740  299.91000
```

```
                                     AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.              (RTU209)    ( 03 OCT 74  )

          REFERENCE DATA                                                                             PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                  MACH    =      4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                                  ALPHA   =     10.200   BETA   =     11.000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                  DALPHA  =       .100   DBETA  =      -.100
SCALE =      .0100                                                                     X       =       .000

                          RUN NO.  616/ 0    RN/L =   5.97

     Y           Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
  -397.920   -100.610     .24502     .16223    -.06706    -.29507     .06354    -.03162     .11380    -.15689    -.00795
  -398.090      -.561     .24638     .16180    -.06819    -.29507     .06371    -.03121     .11690    -.13911     .13901
  -399.320     99.066     .24469     .16157    -.06727    -.29558     .06427    -.03153     .13161    -.07344     .18126
  -398.410    199.830     .24231     .16174    -.06516    -.29626     .06490    -.03245     .10032    -.12154     .06821
  -399.160    399.550     .23847     .16192    -.06208    -.29711     .06561    -.03381     .09556    -.10054     .23033

                          RUN NO.  618/ 0    RN/L =   5.98

     Y           Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
  -201.650   -101.290     .24847     .16397    -.06990    -.25695     .04557    -.02778     .17116     .00273    -.26338
  -198.540      -.228     .24801     .16303    -.07051    -.25462     .04706    -.02824     .08790    -.11231    -.09240
  -201.530    101.100     .24729     .16233    -.06958    -.25921     .04786    -.02873     .01603    -.00901     .19176
  -198.920    199.640     .25533     .16203    -.07322    -.27219     .05123    -.02988     .09375    -.10223     .06782
  -199.410    399.640     .24590     .16134    -.06775    -.29106     .06179    -.03145     .10642    -.10247     .07330

                          RUN NO.  619/ 0    RN/L =   5.98

     Y           Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
   -99.051    -99.950     .23448     .16127    -.06781    -.25003     .05184    -.02987     .09139    -.09943    -.01893
  -100.790      -.625     .24061     .16139    -.06765    -.25255     .05416    -.03116     .09304    -.02809    -.01183
   -98.074     98.543     .24119     .16191    -.06125    -.24891     .05226    -.03318     .07635    -.05507     .17513
   -97.790    199.930     .26510     .16180    -.07559    -.25524     .05295    -.03091     .08046    -.11858    -.22482
  -100.000    400.760     .24854     .16137    -.06881    -.28569     .05871    -.03195     .06405    -.04800     .09289

                          RUN NO.  620/ 0    RN/L =   6.00

     Y           Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
   -49.419   -100.580     .23225     .16035    -.06737    -.24867     .05167    -.03078     .08183    -.07013    -.11421
   -47.226      -.498     .23930     .16070    -.06369    -.25616     .05701    -.03344     .04704    -.13699     .04913
   -47.708    100.310     .25292     .16122    -.06315    -.25117     .05552    -.03532     .04756    -.11921     .02491
   -47.565    199.990     .26643     .16166    -.06762    -.25455     .05545    -.03353     .06078    -.12085     .01814
   -48.925    399.600     .25269     .16167    -.07087    -.28189     .05723    -.03205     .09367    -.09811     .31516
```

```
                                     AEDC/VA528(IA87)-OIET181-ORB/ET W L/H SRB SEPAR.            (RTUR10)    ( 03 OCT 74  )

              REFERENCE DATA                                                                       PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                 MACH   =     4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                                ALPHA  =    10.200   BETA   =     11.000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                 CALPHA =      .100   DBETA  =      -.100
SCALE =       .0100                                                                   X      =   300.000

                         RUN NO.  624/ 0    RN/L =   5.99

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -398.470   -100.300     .24518     .16217    -.06697    -.29461     .06352    -.03163     .10155    -.12440  299.90000
  -399.720       .201     .24666     .16187    -.06832    -.29527     .06386    -.03125     .08253    -.10230  300.08000
  -399.150    100.280     .24505     .16179    -.06722    -.29630     .06461    -.03165     .08698    -.12125  300.08000
  -398.560    200.760     .23940     .16195    -.06275    -.29742     .06563    -.03357     .04054    -.11414  300.04000
  -398.630    399.590     .23874     .16196    -.06212    -.29720     .06568    -.03383     .09702    -.11139  300.15000

                         RUN NO.  623/ 0    RN/L =   5.99

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -197.170    -98.839     .24859     .16146    -.06925    -.27790     .05419    -.03059     .05559    -.16142  300.12000
  -199.000      -.367     .25056     .16153    -.07064    -.27848     .05472    -.03032     .09745    -.09926  300.13000
  -198.220     99.724     .25185     .16143    -.07111    -.27889     .05466    -.03085     .09648    -.10507  300.33000
  -200.600    197.790     .25302     .16154    -.07204    -.27805     .05391    -.03032     .17763    -.03469  300.04000
  -198.690    399.760     .23944     .16096    -.06280    -.27598     .06548    -.03355     .09905    -.11214  300.11000

                         RUN NO.  622/ 0    RN/L =   5.99

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -98.803   -100.900     .24642     .16014    -.06903    -.27200     .05404    -.03073     .12207    -.17726  300.39000
   -97.926     -2.095     .23739     .16077    -.06220    -.27278     .05597    -.03295     .10046    -.12595  299.99000
  -102.060     97.793     .23893     .16116    -.06242    -.27277     .05531    -.03317     .16379     .01989  300.09000
   -98.197    199.900     .24368     .16130    -.06473    -.27419     .05491    -.03297     .07774    -.11690  300.08000
   -99.033    399.790     .24937     .16123    -.07024    -.28628     .05901    -.03072     .09535    -.11086  299.87000

                         RUN NO.  621/ 0    RN/L =   5.99

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -50.410    -98.976     .23890     .15967    -.06488    -.26363     .05419    -.03246     .07740    -.03144  300.00000
   -48.804      -.397     .23536     .16053    -.06121    -.26873     .05695    -.03379     .07809    -.08915  300.20000
   -49.179     99.613     .24399     .16075    -.06473    -.27017     .05635    -.03380     .08125    -.08853  300.17000
   -48.662    199.670     .24947     .16103    -.06707    -.27422     .05650    -.03349     .08213    -.09509  300.22000
   -48.707    399.600     .25615     .16184    -.07391    -.28216     .05651    -.03962     .09261    -.11686  299.98000
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/M SRB SEPAR. (RTU211) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = 10.200 BETA = 11.000
CALPHA = 5.100 CBETA = -.100
X = 300.000

RUN NO. 625/ 0 RN/L = 5.99

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-398.830	-100.430	.24633	.16175	-.05801	-.29480	.06348	-.03137	5.10000	-.11556	300.08000
-397.440	-1.341	.24792	.16 50	-.06911	-.29485	.06366	-.03101	5.16890	-.16068	300.15000
-400.590	98.270	.24448	.16156	-.06688	-.29605	.06462	-.03171	5.16760	-.00495	300.54000
-398.590	199.740	.23930	.16184	-.06265	-.29713	.06558	-.03359	5.10340	-.11594	299.89000
-398.300	399.840	.23859	.16186	-.06212	-.29734	.06571	-.03383	5.08990	-.11993	300.21000

RUN NO. 626/ 0 RN/L = 6.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-199.450	-100.800	.24933	.16173	-.06956	-.27364	.05188	-.03024	5.11450	-.07986	300.23000
-200.260	-1.596	.25072	.16148	-.07060	-.27632	.05354	-.03043	5.14250	-.07411	300.23000
-201.000	98.034	.25282	.16156	-.07158	-.27712	.05366	-.03076	5.16150	-.03874	300.29000
-197.690	199.470	.25245	.16180	-.07153	-.27814	.05404	-.03050	5.10450	-.14729	299.91000
-198.820	399.340	.23898	.16128	-.06227	-.29729	.06563	-.03379	5.10540	-.10747	300.36000

RUN NO. 627/ 0 RN/L = 6.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-98.478	-100.380	.23783	.16085	-.06212	-.26610	.05208	-.03299	5.08330	-.09684	300.13000
-98.682	-.426	.23810	.16061	-.06277	-.26912	.05467	-.03317	5.08170	-.09744	299.99000
-98.785	99.563	.24099	.16096	-.06359	-.27242	.05550	-.03317	5.08360	-.09501	300.16000
-99.452	198.680	.24503	.16153	-.06534	-.27501	.05510	-.03309	5.09190	-.08167	300.04000
-101.650	401.650	.24610	.16129	-.06787	-.28948	.06087	-.03163	5.04260	.00722	299.96000

RUN NO. 628/ 0 RN/L = 6.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-49.358	-98.342	.22970	.16003	-.05819	-.26318	.05589	-.03489	5.00660	-.03404	299.78000
-48.690	-.265	.23889	.16084	-.06239	-.26695	.05697	-.03451	5.08120	-.08821	300.01000
-47.092	99.810	.24708	.16109	-.06573	-.27097	.05694	-.03398	5.08330	-.10960	300.26000
-53.044	197.660	.24867	.16127	-.05631	-.27562	.05715	-.03387	5.15960	.01784	300.37000
-48.779	399.840	.25416	.16182	-.07282	-.28495	.05800	-.03091	5.09740	-.11439	299.99000

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA528(IA87)-O1ET151-ORB/ET W L/H SRB SEPAR. (RTU212) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = 10.200 BETA = 11.000
DALPHA = 5.100 DBETA = -.100
X = .000

RUN NO. 632/ 0 RN/L = 6.03

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-398.630	-100.400	.24751	.16169	-.06878	-.29474	.06333	-.03115	5.10570	-.11992	.12488
-399.690	.216	.24760	.16169	-.06809	-.29534	.06384	-.03114	5.07670	-.10746	-.18576
-397.970	100.370	.24471	.16176	-.06669	-.29613	.06460	-.03202	5.06680	-.17700	-.07045
-398.950	199.550	.24320	.16203	-.06555	-.29711	.06514	-.03249	5.10410	-.11320	.11129
-399.000	399.450	.23922	.16205	-.06230	-.29756	[illegible]	-.03386	5.09630	-.10794	.53926

RUN NO. 631/ 0 RN/L = 6.02

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-198.730	-100.190	.25085	.16383	-.07177	-.25026	.04327	-.02743	5.08740	-.09629	.10067
-199.540	-.200	.24833	.16296	-.07081	-.25098	.04552	-.02799	5.08760	-.08541	-.14306
-200.810	97.338	.24822	.16218	-.06957	-.25759	.04706	-.02920	5.16650	-.09013	-.01603
-199.320	199.800	.25592	.16200	-.07343	-.27455	.05228	-.03015	5.09950	-.09261	-.22486
-197.120	398.420	.24630	.16153	-.06791	-.29169	.06200	-.03151	5.14490	-.18151	.56001

RUN NO. 630/ 0 RN/L = 6.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-97.987	-99.663	.23135	.16294	-.06468	-.24432	.05151	-.03177	5.09090	-.10971	-.03713
-100.140	-1.027	.24619	.16241	-.05959	-.24666	.05263	-.03133	5.10660	-.08273	.19666
-98.548	100.010	.24693	.16216	-.06321	-.24629	.05261	-.03326	5.06270	-.09997	-.04457
-98.664	199.530	.26503	.16185	-.07509	-.25820	.05364	-.03151	5.08420	-.09911	.40384
-99.311	399.390	.24875	.16193	-.06875	-.28721	.05953	-.03212	5.10690	-.09594	.70223

RUN NO. 629/ 0 RN/L = 6.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-47.204	-99.970	.22260	.16176	-.05865	-.24949	.05622	-.03426	5.07590	-.08704	-.19987
-49.154	-.793	.24574	.16106	-.06294	-.25142	.05764	-.03559	5.08300	-.06552	.10182
-49.091	98.762	.26045	.16133	-.06594	-.25450	.05762	-.03505	5.10400	-.03109	.21089
-47.381	199.990	.26856	.16158	-.06917	-.26075	.05822	-.03346	5.06310	-.13122	.26903
-49.006	399.540	.25045	.16200	-.06903	-.28599	.05965	-.03264	5.09850	-.10697	.58783

```
                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.              (RTU213)    ( 03 OCT 74  )

          REFERENCE DATA                                                                           PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                              MACH   =      4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                              ALPHA  =     10.200   BETA   =     11.000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                              DALPHA =     -4.900   DBETA  =      -.100
SCALE =       .0100                                                                X      =       .000

                        RUN NO.   633/ 0    RN/L =    6.03

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   -398.410     99.584     .24674     .16200    -.06820    -.29576     .06415    -.03130   -4.88280    -.13099    -.09317
   -400.600    198.800     .24391     .16204    -.06606    -.29687     .06497    -.03226   -4.85890    -.00617    -.01645
   -399.110    399.450     .23874     .16188    -.06218    -.29734     .06574    -.03386   -4.90310    -.09986     .23530

                        RUN NO.   634/ 0    RN/L =    6.02

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   -198.170     99.632     .24797     .16302    -.07014    -.25985     .04842    -.02823   -4.90710    -.12557    -.06978
   -198.970    202.250     .25543     .16235    -.07338    -.26940     .05018    -.02939   -5.02260    -.11689     .48222
   -198.430    399.660     .24772     .16077    -.06882    -.29017     .06111    -.03119   -4.90700    -.11440     .24816

                        RUN NO.   635/ 0    RN/L =    6.01

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
    -98.943     99.400     .24980     .16185    -.06980    -.25182     .05355    -.03077   -4.90080    -.07960     .06504
    -97.949    199.950     .26528     .16228    -.07623    -.25030     .05112    -.03001   -4.93110    -.11640    -.00967
   -100.540    401.460     .25571     .16203    -.07345    -.27847     .05435    -.03032   -4.94700    -.07338     .10609

                        RUN NO.   636/ 0    RN/L =    6.02

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
    -49.142     99.659     .24751     .16096    -.06327    -.24965     .05407    -.03347   -4.93310    -.06204     .09065
    -46.697    199.790     .25999     .16151    -.06368    -.24747     .05323    -.03428   -4.94130    -.13867     .09939
    -48.751    399.710     .25890     .16181    -.07400    -.27447     .05365    -.03160   -4.91790    -.09821     .14958
```

```
                               AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.          (RTU214)   ( 03 OCT 74  )

           REFERENCE DATA                                                                       PARAMETRIC DATA

                                                                                   MACH   =     4.520  PTOTL  =    91.200
 SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                             ALPHA  =    10.200  BETA   =    11.000
 LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                             DALPHA =    -4.900  CBETA  =     -.100
 BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                             X      =   300.000
 SCALE =      .0100

                                  RUN NO.  640/ 0    RN/L =   6.01

                                                                        CYN       CBL      DLTALF     DLTBTA      X
     Y          Z          CN         CA        CLM        CY
  -398.720     99.843     .24624     .16186    -.06794    -.29566     .06432    -.03137   -4.89910    -.11491  299.99000
  -398.640    199.800     .24126     .16186    -.06407    -.29693     .06539    -.03302   -4.90830    -.11287  300.15000
  -396.610    400.480     .23907     .16211    -.06228    -.29748     .06577    -.03388   -4.95030    -.16840  300.24000

                                  RUN NO.  639/ 0    RN/L =   6.01

                                                                        CYN       CBL      DLTALF     DLTBTA      X
     Y          Z          CN         CA        CLM        CY
  -199.670     99.774     .25286     .16155    -.07181    -.27989     .05521    -.03049   -4.90330    -.08600  300.09000
  -199.560    200.010     .25497     .16173    -.07318    -.27735     .05349    -.03004   -4.91340    -.08531  300.10000
  -198.280    399.740     .24319     .16032    -.06559    -.29591     .06476    -.03252   -4.89940    -.12078  300.26000

                                  RUN NO.  638/ 0    RN/L =   6.01

                                                                        CYN       CBL      DLTALF     DLTBTA      X
     Y          Z          CN         CA        CLM        CY
   -99.429     99.661     .23873     .16079    -.06223    -.27411     .05615    -.03304   -4.90880    -.08508  300.18000
   -98.736    199.910     .24384     .16156    -.06521    -.27246     .05403    -.03247   -4.91840    -.10499  300.07000
   -98.762    399.940     .25472     .16185    -.07336    -.28148     .05602    -.03001   -4.90810    -.11853  300.01000

                                  RUN NO.  637/ 0    RN/L =   6.01

                                                                        CYN       CBL      DLTALF     DLTBTA      X
     Y          Z          CN         CA        CLM        CY
   -48.589     99.631     .24146     .16087    -.06385    -.27074     .05667    -.03349   -4.92070    -.09824  300.19000
   -48.984    199.880     .24973     .16084    -.06753    -.27022     .05481    -.03311   -4.92160    -.08602  300.28000
   -49.001    399.790     .26033     .16178    -.07579    -.27624     .05372    -.03050   -4.91230    -.11053  299.92000
```

```
                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.            (RTU215)    ( 03 OCT 74  )

          REFERENCE DATA                                                                         PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                          MACH    =      4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YT                          ALPHA   =     10.200   BETA   =     11.000
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                          DALPHA  =       .100   DBETA  =      3.900
SCALE =       .0100                                                              X       =       .000

                         RUN NO.   641/ 0    RN/L =   6.02

       Y          Z         CN         CA        CLM         CY        CYN        CBL       DLTALF     DLTBTA       X
   -397.840   -101.210    .25173     .16136    -.07152    -.28942    .05956    -.03018     .15913    3.86610   -.10468
   -398.600      -.119    .25451     .16059    -.07379    -.28849    .05955    -.02943     .09232    3.88970   -.07271
   -398.960     99.050    .25560     .16055    -.07487    -.29151    .06132    -.02917     .14929    3.88260   -.14225
   -398.180    199.840    .24815     .16090    -.06943    -.29567    .06424    -.03093     .10365    3.86770   -.09737
   -399.190    399.670    .23896     .16187    -.06227    -.29727    .06571    -.03383     .09704    3.89920    .26680

                         RUN NO.   642/ 0    RN/L =   6.04

       Y          Z         CN         CA        CLM         CY        CYN        CBL       DLTALF     DLTBTA       X
   -198.120   -100.080    .25539     .16169    -.07698    -.24187    .04029    -.02552     .07157    3.88430    .00433
   -198.940      -.108    .24502     .16260    -.06907    -.23842    .04128    -.02834     .07075    3.91290   -.12039
   -202.250    100.950    .24785     .16230    -.07073    -.24430    .04195    -.02824    -.00149    4.00720    .41806
   -198.460    199.590    .25575     .16188    -.07314    -.25467    .04389    -.02938     .08369    3.90530    .11799
   -199.290    399.630    .24856     .16107    -.06918    -.28835    .05998    -.03114     .10159    3.89990    .32314

                         RUN NO.   643/ 0    RN/L =   6.05

       Y          Z         CN         CA        CLM         CY        CYN        CBL       DLTALF     DLTBTA       X
   -100.420    -99.334    .24248     .16356    -.07440    -.22039    .03749    -.02891     .07438    3.92690   -.03630
   -100.590      -.617    .24581     .16422    -.07001    -.22577    .04250    -.03143     .07575    3.98420    .14346
    -99.895     99.626    .25306     .16237    -.06456    -.22584    .04543    -.03503     .05231    3.96540    .02308
    -98.627    199.890    .28258     .16271    -.08220    -.23975    .04767    -.03093     .06837    3.89360   -.35060
   -101.120    401.230    .25651     .16147    -.07384    -.27775    .05431    -.03106     .05044    3.97180    .06355
```

```
                                 AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.           (RTU216)    ( 03 OCT 74  )

            REFERENCE DATA                                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                              MACH   =      4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                              ALPHA  =     10.200   BETA   =    11.000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                              DALPHA =       .100   DBETA  =     3.900
SCALE =       .0100                                                                X      =    300.000

                        RUN NO.  646/ 0    RN/L =   6.03

     Y          Z         CN        CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA       X
  -397.970   -100.100   .24887    .16166   -.06949   -.29297    .06221   -.03090    .10672    3.85820  299.97000
  -400.210       .181   .25183    .16112   -.07186   -.29314    .06233   -.03018    .08136    3.90520  300.18000
  -398.880    100.690   .25087    .16131   -.07133   -.29513    .06368   -.03028    .06565    3.83180  300.03000
  -399.250    200.220   .24373    .16138   -.06603   -.29629    .06493   -.03214    .06965    3.88870  300.06000
  -398.970    399.720   .23898    .16216   -.06219   -.29716    .06569   -.03383    .09670    3.89650  300.23000

                        RUN NO.  645/ 0    RN/L =   6.04

     Y          Z         CN        CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA       X
  -198.360    -98.723   .25083    .16067   -.07071   -.26756    .04852   -.02956    .06491    3.86860  300.06000
  -199.950     -.446    .25236    .16166   -.07150   -.26853    .04920   -.02974    .09501    3.92430  300.07000
  -199.970     99.742   .25462    .16078   -.07280   -.26900    .04940   -.03020    .09232    3.93280  300.15000
  -198.430    199.890   .25590    .16196   -.07358   -.26972    .04945   -.02965    .08473    3.88610  299.97000
  -198.800    399.770   .24232    .16012   -.06494   -.29610    .06477   -.03288    .09902    3.88380  300.18000

                        RUN NO.  644/ 0    RN/L =   6.05

     Y          Z         CN        CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA       X
   -99.983   -100.250   .25332    .16151   -.07291   -.25141    .04309   -.02972    .08039    3.91170  299.90000
   -98.475     -3.716   .23649    .16089   -.06216   -.25889    .05004   -.03308    .13370    3.92490  299.87000
  -102.500     97.540   .24448    .16173   -.06578   -.26108    .05027   -.03332    .14938    3.98640  300.36000
   -98.988    200.030   .25230    .16114   -.06987   -.26503    .05072   -.03281    .06937    3.89850  299.90000
   -99.580    399.790   .25441    .16152   -.07336   -.28148    .05604   -.03018    .09291    3.89840  299.92000
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU217) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = 10.200 BETA = 11.000
DALPHA = 5.100 DBETA = 3.900
X = 300.000

RUN NO. 647/ 0 RN/L = 6.03

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-397.050	-100.530	.25100	.16100	-.07123	-.29089	.06092	-.03037	5.11940	3.85520	299.96000
-398.350	-.276	.25357	.16095	-.07312	-.29168	.06147	-.02980	5.11200	3.87800	300.20000
-399.920	98.189	.24986	.16110	-.07085	-.29536	.06387	-.03040	5.18210	3.96520	300.31000
-398.610	199.880	.24191	.16148	-.06472	-.29667	.06523	-.03271	5.10510	3.88040	299.87000
-397.850	399.870	.23879	.16210	-.06220	-.29750	.06579	-.03389	5.09620	3.87310	300.19000

RUN NO. 648/ 0 RN/L = 6.03

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-199.950	-101.140	.24908	.16159	-.06892	-.26381	.04627	-.03011	5.11740	3.95890	300.44000
-200.930	-2.170	.25336	.16153	-.07216	-.26698	.04827	-.02978	5.15850	3.90830	300.41000
-198.870	99.765	.25392	.16135	-.07227	-.26860	.04930	-.03037	5.08760	3.89210	299.96000
-197.290	199.550	.25524	.16222	-.07303	-.27081	.05009	-.02996	5.10720	3.83840	299.84000
-198.900	399.430	.24069	.16078	-.06363	-.29652	.06517	-.03329	5.10560	3.89210	300.25000

RUN NO. 649/ 0 RN/L = 6.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-98.201	-96.535	.23818	.16102	-.06284	-.25364	.04776	-.03302	4.96540	3.93680	299.56000
-99.534	-.605	.24216	.16204	-.06484	-.25655	.04986	-.03346	5.07810	3.91740	300.07000
-99.991	99.498	.24845	.16199	-.06752	-.26235	.05141	-.03356	5.08110	3.92690	300.09000
-100.160	199.550	.25154	.16150	-.06906	-.26843	.05261	-.03315	5.08360	3.93450	300.20000
-99.352	399.760	.25095	.16155	-.07116	-.28547	.05834	-.03081	5.09580	3.88980	299.94000

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA528(IA87)-O1ET151-ORB/ET W L/H SRB SEPAR. (RTU218) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = 10.200 BETA = 11.000
DALPHA = 5.100 DBETA = 3.900
X = .000

RUN NO. 652/ 0 RN/L = 6.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-398.790	-100.400	.25378	.16074	-.07332	-.28606	.05789	-.02952	5.10700	3.88680	.12094
-399.300	-.336	.25581	.16048	-.07490	-.28788	.05924	-.02912	5.10690	3.91310	.35531
-398.950	100.650	.25351	.16038	-.07331	-.29314	.06247	-.02969	5.06590	3.86780	.09308
-398.750	199.430	.24552	.16151	-.06739	-.29622	.06461	-.03175	5.10820	3.88470	.64605
-399.360	399.790	.23888	.16218	-.06222	-.29743	.06572	-.03388	5.08900	3.89780	.61806

RUN NO. 651/ 0 RN/L = 6.02

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-195.100	-100.010	.24354	.16291	-.06777	-.23179	.03778	-.02880	5.08870	3.85090	-.05176
-198.360	-.366	.24380	.16314	-.06881	-.23398	.03997	-.02876	5.08040	3.91370	.26384
-198.510	99.733	.24989	.16254	-.07142	-.24355	.04225	-.02894	5.07740	3.90490	.62151
-198.490	199.760	.25712	.16198	-.07376	-.25975	.04579	-.02970	5.06680	3.90350	.28180
-198.380	399.580	.24794	.16160	-.06889	-.28879	.06036	-.03122	5.10660	3.88080	.74401

RUN NO. 650/ 0 RN/L = 6.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-98.311	-99.220	.22769	.16405	-.06239	-.22375	.04379	-.03289	5.01470	3.88940	-.41911
-102.120	.093	.25190	.16384	-.07032	-.22781	.04716	-.03335	5.00860	3.99760	.76606
-97.859	100.060	.25829	.16237	-.06559	-.23401	.05054	-.03490	5.04710	3.89430	.29586
-98.511	199.630	.27956	.16197	-.08005	-.24775	.05136	-.03141	5.07080	3.90710	.28273
-100.200	399.490	.25172	.16187	-.07016	-.28355	.05778	-.03205	5.10000	3.91420	.72527

```
                          AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/M SRB SEPAR.          (RTU219)   ( 03 OCT 74  )

             REFERENCE DATA                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =      4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                         ALPHA  =     10.200   BETA   =    11.000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          CALPHA =     -4.900   CBETA  =     3.900
SCALE =       .0100                                                            X      =       .000

                         RUN NO.  653/ 0    RN/L =   6.02

    Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
 -399.450     99.403     .25616     .16079    -.07512    -.29095     .06073    -.02914    -4.87570    3.93060   -.07427
 -400.450    198.990     .25325     .16083    -.07326    -.29464     .06324    -.02960    -4.84540    3.94980    .15291
 -398.710    399.540     .23952     .16190    -.06264    -.29704     .06558    -.03362    -4.90050    3.89220    .29276

                         RUN NO.  654/ 0    RN/L =   6.01

    Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
 -197.910     99.943     .24359     .16214    -.06811    -.24473     .04358    -.02884    -4.92400    3.89560   -.01378
 -200.310    202.330     .25717     .16153    -.07484    -.24983     .04150    -.02804    -5.02230    3.93760    .60136
 -199.430    399.680     .25377     .16103    -.07337    -.28140     .05600    -.02960    -4.89940    3.90350    .26705

                         RUN NO.  655/ 0    RN/L =   6.01

    Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
 -100.870     99.536     .24462     .16172    -.06196    -.22013     .04195    -.03324    -4.94670    4.00070    .07889
  -99.048    199.680     .26328     .16198    -.06859    -.22386     .04164    -.03330    -4.97820    3.93150   -.37182
 -102.470    402.620     .26601     .16133    -.07881    -.26719     .04887    -.03050    -5.00770    3.97290    .00578

                          AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/M SRB SEPAR.          (RTU220)   ( 03 OCT 74  )

             REFERENCE DATA                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =      4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                         ALPHA  =     10.200   BETA   =    11.000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          CALPHA =     -4.900   CBETA  =     3.900
SCALE =       .0100                                                            X      =    300.000

                         RUN NO.  658/ 0    RN/L =   6.03

    Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
 -398.520     99.793     .25215     .16131    -.07235    -.29425     .06306    -.02994    -4.89110    3.86960  299.84000
 -398.990    199.790     .24664     .16114    -.06857    -.29580     .06447    -.03106    -4.90080    3.88560  300.21000
 -399.470    399.660     .23890     .16227    -.06217    -.29750     .06574    -.03388    -4.90670    3.89890  300.04000

                         RUN NO.  657/ 0    RN/L =   6.03

    Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
 -199.880     99.704     .25528     .16084    -.07326    -.26852     .04917    -.02978    -4.90690    3.92890  300.18000
 -199.970    200.140     .25724     .16138    -.07448    -.26774     .04841    -.02934    -4.91900    3.91830  300.07000
 -199.100    399.910     .24863     .16032    -.07000    -.28926     .06063    -.03060    -4.90740    3.88050  300.05000
```

```
                       AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/M SRB SEPAR.              (RTU220)    ( 03 OCT 74  )

         REFERENCE DATA                                                              PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                         MACH    =     4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                        ALPHA   =    10.200   BETA   =    11.000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                         DALPHA  =    -4.900   DBETA  =     3.900
SCALE =       .0100                                                           X       =   300.000

                         RUN NO.  658/ 0    RN/L =   6.03

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF      DLTBTA     X
   -99.211     99.658     .24218     .16112    -.06468    -.26121     .05019    -.03279   -4.92840    3.91160  300.04000
   -98.765    199.970     .25334     .16164    -.07055    -.25933     .04810    -.03245   -4.92620    3.89370  299.89000
   -99.277    399.860     .26022     .16173    -.07670    -.27476     .05212    -.02987   -4.91500    3.88750  299.85000

                       AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/M SRB SEPAR.              (RTU221)    ( 03 OCT 74  )

         REFERENCE DATA                                                              PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                         MACH    =     4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                        ALPHA   =    10.200   BETA   =    11.000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                         DALPHA  =      .100   DBETA  =     8.000
SCALE =       .0100                                                           X       =      .000

                         RUN NO.  659/ 0    RN/L =   6.02

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF      DLTBTA     X
  -398.800   -100.110     .25720     .15994    -.07595    -.27378     .04823    -.02755     .09578    7.88900   -.17555
  -399.700     -1.085     .25990     .15899    -.07788    -.27459     .05043    -.02779     .14077    7.98110   -.25013
  -400.570     99.603     .26326     .15907    -.08026    -.27894     .05373    -.02760     .10002    7.96370   -.17536
  -398.110    199.890     .26043     .15915    -.07855    -.28586     .05805    -.02774     .10366    7.85530   -.19675
  -399.210    399.780     .24964     .16139    -.06355    -.29665     .06533    -.03320     .09612    7.89330    .22897

                         RUN NO.  660/ 0    RN/L =   6.02

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF      DLTBTA     X
  -202.790    -99.421     .26587     .16309    -.08419    -.20454     .02197    -.02463     .12971    8.02340  -1.02150
  -200.110     -1.458     .24426     .16418    -.06959    -.21147     .02972    -.02911     .01033    8.02720   -.05302
  -199.540     99.742     .27015     .16436    -.08276    -.21643     .03164    -.02951     .05879    7.93790   -.26228
  -198.730    199.650     .26915     .16169    -.08155    -.23470     .03611    -.02902     .07270    7.91570    .27991
  -200.510    399.550     .25392     .16102    -.07320    -.27951     .05478    -.03023     .03952    7.91750    .87169
```

```
                           AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/M SRB SEPAR.          (RTU222)    ( 03 OCT 74  )

             REFERENCE DATA                                                                PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =     4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                          ALPHA  =    10.200   BETA   =    11.000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA =      .100   CBETA  =     8.000
SCALE =       .0100                                                            X      =   300.000

                       RUN NO.  662/ 0    RN/L =   6.02

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -398.040    -99.919     .25361     .16040    -.07319    -.28455     .05658    -.02924     .09848    7.83750  299.50000
  -401.380       .081     .25678     .15996    -.07547    -.28527     .05741    -.02897     .05304    7.94050  300.18000
  -399.590    100.500     .25818     .15987    -.07690    -.28852     .05955    -.02838     .07268    7.82340  300.20000
  -398.860    200.250     .25175     .16017    -.07231    -.29518     .06381    -.02979     .07398    7.82390  300.00000
  -399.790    399.600     .23901     .16233    -.06218    -.29719     .06561    -.03382     .09529    7.90240  300.02000

                       RUN NO.  661/ 0    RN/L =   6.02

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -199.830    -97.072     .26043     .16033    -.07814    -.25114     .03869    -.02715     .01989    7.87010  300.01000
  -199.900      -.386     .25063     .16158    -.07002    -.25460     .04187    -.03048     .08075    7.92890  300.03000
  -200.430     99.680     .25845     .16131    -.07479    -.25169     .04017    -.02971     .08252    7.95470  300.27000
  -199.640    200.060     .26025     .16138    -.07585    -.25793     .04322    -.02931     .06913    7.91900  299.99000
  -199.140    399.730      24705     .16007    -.06865    -.28896     .06056    -.03117     .09671    7.87800  299.91000

                           AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/M SRB SEPAR.          (RTU223)    ( 03 OCT 74  )

             REFERENCE DATA                                                                PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =     4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                          ALPHA  =    10.200   BETA   =    11.000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA =     5.100   CBETA  =     8.000
SCALE =       .0100                                                            X      =   300.000

                       RUN NO.  663/ 0    RN/L =   6.00

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -397.820   -100.090     .25466     .15987    -.07364    -.28320     .05588    -.02942    5.10030    7.88720  299.80000
  -397.090      -.735     .25751     .16008    -.07590    -.28450     .05714    -.02887    5.13620    7.83930  299.74000
  -399.160     98.325     .25771     .15994    -.07647    -.28919     .05994    -.02849    5.19200    7.89360  299.95000
  -398.950    199.880     .24753     .16044    -.06921    -.29553     .06431    -.03081    5.11350    7.87450  299.76000
  -398.600    399.940     .23883     .16219    -.06219    -.29725     .06564    -.03383    5.09410    7.87450  300.06000
```

```
                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.              (RTU223)   ( 03 OCT 74  )

          REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                  MACH   =      4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                                  ALPHA  =     10.200   BETA   =    11.000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                  DALPHA =      5.100   DBETA  =     8.000
SCALE =      .0100                                                                     X      =    300.000

                        RUN NO.  664/ 0    RN/L =   6.00

      Y           Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -200.590    -101.030     .24533     .16175    -.06628    -.24984     .03935    -.03086    5.10420    7.96420   300.48000
  -201.970      -2.631     .25519     .16144    -.07292    -.24943     .03911    -.03024    5.11590    7.90600   300.56000
  -199.230      99.937     .25738     .16118    -.07420    -.25428     .04211    -.02996    5.07620    7.90040   299.68000
  -198.470     199.740     .25914     .16184    -.07524    -.26085     .04505    -.02949    5.09720    7.86480   299.53000
  -199.590     399.580     .24472     .16031    -.06681    -.29264     .06269    -.03206    5.10320    7.89980   300.40000

                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.              (RTU224)   ( 03 OCT 74  )

          REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                  MACH   =      4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                                  ALPHA  =     10.200   BETA   =    11.000
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                  DALPHA =      5.100   DBETA  =     8.000
SCALE =      .0100                                                                     X      =       .000

                        RUN NO.  666/ 0    RN/L =   6.02

      Y           Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -398.660    -100.500     .25774     .15917    -.07600    -.26980     .04731    -.02787    5.10190    7.88620     .73346
  -399.480        .172     .26186     .15932    -.07914    -.27380     .05022    -.02773    5.07800    7.84150     .56908
  -399.660      99.856     .26222     .15939    -.07954    -.28024     .05474    -.02785    5.09880    7.88790     .81332
  -398.610     200.800     .25459     .15973    -.07446    -.28943     .06047    -.02901    5.05410    7.82810     .43904
  -399.660     399.470     .23990     .16166    -.06306    -.29683     .06540    -.03342    5.10430    7.90570     .69190

                        RUN NO.  665/ 0    RN/L =   6.00

      Y           Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -198.350    -101.000     .24126     .16554    -.06748    -.20579     .02842    -.02986    5.13230    7.87410    -.01316
  -195.000      -1.418     .25818     .16526    -.07719    -.21087     .03255    -.03022    5.11230    7.89840    -.41537
  -199.310      99.726     .27221     .16439    -.08324    -.22358     .03616    -.02962    5.06470    7.92990     .46845
  -198.900     199.770     .26589     .16193    -.07907    -.24205     .03945    -.02959    5.07590    7.91790     .15464
  -199.420     399.470     .25089     .16162    -.07071    -.28454     .05775    -.03080    5.10780    7.89700     .71882
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU225) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = 10.200 BETA = 11.000
CALPHA = -4.900 CBETA = 8.000
X = .000

RUN NO. 667/ 0 RN/L = 6.03

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-398.760	98.358	.26299	.15903	-.08011	-.27651	.05172	-.02735	-4.82570	7.92950	-.16887
-399.370	199.940	.26472	.15873	-.08147	-.28166	.05547	-.02709	-4.89450	7.87170	-.17835
-399.990	399.660	.24214	.16026	-.06486	-.29639	.06495	-.03257	-4.90080	7.90220	-.10168

RUN NO. 668/ 0 RN/L = 6.03

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-199.240	99.958	.26271	.16480	-.08011	-.21111	.02753	-.02742	-4.94060	7.92020	-.35579
-202.420	202.080	.27186	.16201	-.08380	-.22217	.02861	-.02834	-5.04900	8.01870	.83988
-200.810	399.450	.26507	.15963	-.08053	-.26662	.04725	-.02876	-4.90860	7.92930	.14585

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU226) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = 10.200 BETA = 11.000
CALPHA = -4.900 CBETA = 8.000
X = 300.000

RUN NO. 670/ 0 RN/L = 6.03

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-399.070	99.850	.25931	.15976	-.07755	-.28678	.05848	-.02812	-4.89510	7.85840	299.44000
-399.090	199.800	.25662	.15960	-.07609	-.29345	.06254	-.02850	-4.89720	7.87460	300.08000
-400.290	399.690	.23867	.16180	-.06214	-.29675	.06552	-.03377	-4.90890	7.90870	300.14000

RUN NO. 669/ 0 RN/L = 6.03

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-200.920	99.693	.25639	.16055	-.07368	-.25321	.04091	-.02964	-4.91360	7.96180	300.21000
-200.350	200.190	.26090	.16150	-.07629	-.25047	.03922	-.02898	-4.93790	7.94590	300.16000
-198.800	399.890	.25351	.15991	-.07342	-.28143	.05607	-.02958	-4.90420	7.87240	299.81000

ORIGINAL PAGE IS
OF POOR QUALITY

```
                                       AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.           (RTU227)    ( 03 OCT 74  )

               REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                            MACH    =      4.520   PTOTL  =     60.400
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                           ALPHA   =     10.000   BETA   =     15.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                            CALPHA  =       .200   CBETA  =      -.100
SCALE =        .0100                                                             X       =       .000

                             RUN NO.  674/ 0    RN/L =    4.05

     Y         Z          CN         CA        CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   10.516   -100.090    .23440     .16826    -.05699    -.46859     .09160    -.04515     .17210    -.11799    -.04654
   10.588      -.336    .22933     .17147    -.04929    -.46360     .09477    -.04347     .15399    -.12306     .51064
   10.093     99.264    .24408     .17327    -.05915    -.44515     .09044    -.05100     .14861    -.10520     .41133
   10.393    199.460    .25597     .17589    -.07098    -.45429     .10359    -.05558     .14184    -.09656     .46342
   10.593    399.790    .28575     .17804    -.09006    -.47662     .11677    -.05990     .13385    -.10648     .42953

                             RUN NO.  673/ 0    RN/L =    4.05

     Y         Z          CN         CA        CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  100.220   -100.840    .25231     .16618    -.06564    -.45329     .09110    -.04306     .16833    -.10353     .60358
  102.170     -1.847    .24022     .16967    -.05731    -.45062     .09495    -.04796     .20501    -.17033     .58882
  100.610     99.641    .24371     .17684    -.05974    -.44715     .09916    -.05197     .13793    -.11382     .40383
  100.720    199.690    .25378     .17755    -.06847    -.45176     .10367    -.05449     .13296    -.10600     .62067
  101.020    399.820    .28630     .17855    -.09013    -.47214     .11510    -.06008     .12338    -.08446     .59824

                             RUN NO.  672/ 0    RN/L =    4.05

     Y         Z          CN         CA        CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  200.590    -99.423    .24682     .16730    -.06204    -.45768     .09634    -.04300     .15794    -.12635     .45729
  200.550     -1.285    .22605     .16987    -.04640    -.45372     .09598    -.04179     .21624    -.17367     .25167
  200.200     99.934    .24550     .17354    -.06063    -.45140     .09848    -.04898     .14835    -.08719     .44240
  200.450    199.960    .25066     .17568    -.06470    -.45690     .10439    -.05199     .10733    -.08314     .52434
  200.170    400.010    .28859     .17821    -.09183    -.47132     .11590    -.06012     .12418    -.10301     .63207

                             RUN NO.  671/ 0    RN/L =    4.05

     Y         Z          CN         CA        CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  401.430   -100.370    .26509     .17273    -.07734    -.47400     .11219    -.04876     .18058    -.15352     .52078
  400.650      -.596    .26178     .17474    -.07396    -.47770     .11574    -.04999     .18939    -.11255     .54529
  400.650     99.651    .26279     .17624    -.07377    -.47967     .11914    -.05298     .16495    -.11959     .53460
  400.350    199.460    .25971     .17699    -.07140    -.47910     .11983    -.05232     .14411    -.11790     .48630
  400.240    399.640    .28856     .17729    -.09351    -.47792     .12037    -.05776     .14345    -.10743     .53804
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU228) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = 10.000 BETA = 15.800
DALPHA = .200 DBETA = -.100
X = 300.000

RUN NO. 675/ 0 RN/L = 4.05

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
10.651	-100.150	.23782	.16689	-.05867	-.48140	.10553	-.04600	.17821	-.13919	299.85000
10.871	-.021	.24141	.17307	-.05538	-.46880	.10035	-.04757	.15928	-.12837	300.13000
10.764	100.040	.25561	.17577	-.06571	-.46000	.10147	-.05353	.13710	-.10925	300.16000
10.896	199.810	.27546	.18028	-.08002	-.47378	.11473	-.05791	.12756	-.11540	300.22000
10.897	399.690	.27551	.17604	-.08366	-.47683	.11813	-.05531	.13923	-.11740	300.02000

RUN NO. 676/ 0 RN/L = 4.05

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
101.810	-97.234	.25191	.16875	-.06728	-.47220	.10213	-.04509	.07011	-.14139	299.98000
100.680	1.030	.25153	.17404	-.06356	-.46685	.10263	-.04905	.12694	-.14252	299.75000
98.954	101.590	.26231	.17767	-.07107	-.46593	.10838	-.05452	.11069	-.03544	300.01000
100.760	199.680	.27443	.17880	-.08112	-.46652	.11203	-.05762	.13964	-.10881	300.09000
100.770	399.700	.27842	.17632	-.08648	-.47739	.11864	-.05576	.15028	-.11688	299.94000

RUN NO. 677/ 0 RN/L = 4.05

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
201.380	-99.570	.24901	.16990	-.06559	-.46851	.10678	-.04422	.12910	-.15236	300.18000
201.270	.948	.24442	.17450	-.06048	-.47490	.11368	-.04759	.09569	-.14107	300.29000
201.490	100.010	.25868	.17736	-.07015	-.47479	.11594	-.05279	.15769	-.17343	300.06000
201.320	199.300	.27433	.17943	-.08092	-.47295	.11604	-.05547	.20441	-.11239	300.07000
200.970	399.460	.27858	.17539	-.08733	-.47717	.11953	-.05542	.15468	-.13856	300.21000

RUN NO. 678/ 0 RN/L = 4.05

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
398.520	-102.250	.26502	.17508	-.07649	-.48391	.12549	-.05476	.23560	-.05264	299.77000
399.510	-.065	.26314	.17517	-.07529	-.48295	.12438	-.05288	.14885	-.07258	299.85000
400.990	99.853	.26304	.17499	-.07519	-.47927	.12147	-.05152	.15418	-.14996	300.09000
401.290	200.200	.27463	.17607	-.08355	-.47730	.12017	-.05439	.13448	-.16697	300.06000
400.570	399.810	.27013	.17559	-.08071	-.47041	.11518	-.05460	.13932	-.12302	299.99000

```
                                          AEDC/VA520(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.              (RTU229)   ( 03 OCT 74  )

               REFERENCE DATA                                                                                 PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                       MACH   =     4.520   PTOTL  =     60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                                       ALPHA  =    10.000   BETA   =     15.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                       DALPHA =     5.200   DBETA  =      -.100
SCALE =       .0100                                                                         X      =   300.000

                              RUN NO.  682/ 0    RN/L =   4.04

       Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLYBTA      X
    10.914   -100.200     .23534      .16966     -.05380     -.49063      .10693     -.04362     5.19320     -.14511  300.01000
    10.245      2.491     .24449      .17362     -.05591     -.46197      .09629     -.04800     5.06180     -.12441  299.46000
    10.612     99.184     .25000      .17669     -.06207     -.45531      .10053     -.05297     5.15890     -.11304  300.07000
    11.002    199.530     .27566      .18046     -.08040     -.46744      .11192     -.05811     5.14250     -.11774  300.12000
    11.066    399.790     .27238      .17640     -.08154     -.47557      .11778     -.05479     5.15430     -.12197  299.99000

                              RUN NO.  681/ 0    RN/L =   4.04

       Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
   101.090   -102.580     .24833      .16966     -.06321     -.47841      .10406     -.04425     5.26210     -.15583  300.47000
   101.060     -.338      .25441      .17463     -.06488     -.46675      .10213     -.04926     5.16890     -.13387  300.09000
   101.010     99.678     .26394      .17822     -.07181     -.46505      .10793     -.05451     5.14560     -.11545  300.11000
   100.570    199.760     .27463      .17913     -.08114     -.46319      .10997     -.05735     5.13070     -.10201  299.99700
   101.260    399.640     .27410      .17645     -.08321     -.47586      .11818     -.05480     5.16650     -.10055  300.22000

                              RUN NO.  680/ 0    RN/L =   4.05

       Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
   200.370   -100.270     .24387      .16961     -.06116     -.47333      .10884     -.04296     5.18860     -.13140  299.94000
   199.410     -.665      .25382      .17593     -.06663     -.47739      .11483     -.04981     5.20360     -.09408  299.84000
   200.060    100.030     .25972      .17762     -.07158     -.47232      .11391     -.05202     5.13770     -.08174  299.89000
   199.860    199.810     .27796      .17928     -.08349     -.47149      .11500     -.05591     5.14690     -.07379  299.84000
   200.380    399.310     .27302      .17570     -.08275     -.47465      .11809     -.05427     5.14080     -.08821  300.03000

                              RUN NO.  679/ 0    RN/L =   4.05

       Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
   401.220   -100.410     .26492      .17545     -.07645     -.48755      .12810     -.05445     5.18230     -.14326  300.10000
   400.410     -.618      .26623      .17569     -.07733     -.48689      .12691     -.05304     5.19410     -.09103  300.68000
   400.320     99.408     .26725      .17549     -.07819     -.48260      .12033     -.05202     5.17270     -.11193  300.51000
   400.930    199.770     .27680      .17602     -.08526     -.47859      .12123     -.05475     5.15950     -.11521  300.57000
   400.360    399.810     .26916      .17580     -.07985     -.47032      .11516     -.05424     5.15240     -.10878  300.50000
```

AEDC/VA528(IA87)-METIS1-ORB/ET W R/H SRB SEPAR. (RTU230) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = 10.000 BETA = 15.800
DALPHA = 5.200 DBETA = -.100
X = .000

RUN NO. 683/ 0 RN/L = 4.04

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
10.735	-100.110	.21874	.16955	-.04216	-.47611	.08992	-.04048	5.18690	-.15075	.34776
10.463	.049	.22553	.17252	-.04446	-.45053	.08759	-.04785	5.14390	-.10839	.48071
10.285	99.754	.23982	.17431	-.05689	-.43574	.08878	-.05167	5.13660	-.09352	.42879
11.398	199.700	.25099	.17609	-.06865	-.45348	.10477	-.05519	5.12700	-.12783	.54791
10.259	399.570	.28357	.17728	-.08923	-.47391	.11561	-.05944	5.14680	-.10202	.45659

RUN NO. 684/ 0 RN/L = 4.04

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.690	-100.220	.24387	.16666	-.05817	-.45425	.08851	-.04169	5.17630	-.13001	.62900
100.430	-.366	.22508	.17020	-.04554	-.44239	.08923	-.04558	5.15430	-.11397	.41782
100.340	99.626	.24289	.17741	-.05908	-.43948	.09540	-.05250	5.13450	-.10320	.41791
99.537	198.850	.25447	.17727	-.06924	-.44892	.10252	-.05511	5.18290	-.04301	.43739
99.579	398.170	.28698	.17752	-.09121	-.46994	.11419	-.06015	5.18440	-.02860	.72923

RUN NO. 685/ 0 RN/L = 4.04

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
201.350	-100.390	.24013	.16787	-.05562	-.46086	.09612	-.04172	5.18010	-.12995	.72752
200.400	-.525	.23660	.17191	-.05266	-.45250	.09494	-.04476	5.15920	-.09029	.69553
201.250	100.300	.24701	.17464	-.06056	-.44882	.09674	-.04960	5.12710	-.16615	.47629
200.880	199.100	.25104	.17666	-.06447	-.45641	.10466	-.05241	5.15700	-.11685	.53695
200.830	399.810	.28999	.17843	-.09323	-.47036	.11470	-.06026	5.12120	-.13612	.31628

RUN NO. 686/ 0 RN/L = 4.04

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.960	-100.670	.26453	.17318	-.07639	-.47964	.11456	-.04787	5.20290	-.14200	.48988
400.350	.079	.26436	.17564	-.07492	-.48155	.11748	-.05029	5.15130	-.12910	.37520
400.470	99.796	.26635	.17720	-.07573	-.48112	.11924	-.05306	5.15710	-.11679	.53250
400.170	199.610	.26276	.17744	-.07304	-.47722	.11805	-.05199	5.16140	-.11198	.38802
400.530	399.820	.28945	.17765	-.09418	-.47713	.11992	-.05808	5.16310	-.10435	.59339

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR. (RTU231) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = 10.000 BETA = 15.800
DALPHA = -4.900 DBETA = -.100
X = .000

RUN NO. 690/ 0 RN/L = 4.04

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
10.111	-.042	.27568	.17126	-.08651	-.47440	.10335	-.05917	-4.88260	-.09526	-.16390
10.589	99.549	.24467	.17274	-.05963	-.45787	.09515	-.05083	-4.85230	-.11708	.18417
10.636	199.810	.26198	.17638	-.07275	-.45873	.10291	-.05650	-4.87100	-.11486	-.15843
10.802	399.980	.28318	.18020	-.08741	-.47872	.11779	-.06017	-4.87040	-.10874	-.18461

RUN NO. 689/ 0 RN/L = 4.04

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.860	.614	.26099	.16981	-.07442	-.45581	.09838	-.05303	-4.87920	-.09171	.08688
101.280	99.919	.23527	.17582	-.05429	-.45333	.10200	-.05008	-4.85580	-.12533	.10658
99.987	199.920	.25412	.17804	-.06868	-.45422	.10455	-.05445	-4.86880	-.09615	-.16102
100.940	399.910	.28337	.17977	-.08783	-.47376	.11583	-.05980	-4.89160	-.11483	.40851

RUN NO. 688/ 0 RN/L = 4.04

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
201.900	.794	.23701	.16843	-.05555	-.45362	.09655	-.04517	-4.86190	-.13998	.08418
200.070	98.759	.23511	.17364	-.05344	-.45351	.09984	-.04708	-4.79090	-.08915	-.20722
199.080	199.530	.25228	.17616	-.06611	-.45744	.10440	-.05244	-4.85150	-.05190	.27267
200.200	401.090	.28702	.17936	-.09015	-.47374	.11630	-.06019	-4.92670	-.14342	.43366

RUN NO. 687/ 0 RN/L = 4.04

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.430	-.368	.25965	.17488	-.07273	-.47406	.11364	-.04943	-4.83120	-.11386	.44867
400.140	99.546	.25917	.17664	-.07153	-.47713	.11761	-.05190	-4.82970	-.09422	.47367
400.750	199.330	.25626	.17780	-.06889	-.48018	.12076	-.05243	-4.85920	-.11908	.55261
399.750	399.720	.28720	.17833	-.09200	-.47940	.12130	-.05744	-4.86110	-.09553	.53892

```
                                AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.          (RTU232)    ( 03 OCT 74  )

             REFERENCE DATA                                                                     PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                           MACH    =       4.520   PTOTL  =      60.400
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                          ALPHA   =      10.000   BETA   =      15.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                           DALPHA  =      -4.900   DBETA  =       -.100
SCALE =        .0100                                                            X       =     300.000

                          RUN NO.  691/ 0    RN/L =   4.04

     Y          Z          CN        CA        CLM        CY        CYN       CBL       CLTALF     CLTBTA     X
   10.770       .167     .26045    .17184   -.07220   -.47269    .10398   -.05240   -4.86060   -.12479  299.86000
   12.247     96.912     .25752    .17640   -.06619   -.46700    .10377   -.05327   -4.77220   -.17696  299.97000
    9.680    200.050     .27838    .17984   -.08193   -.47813    .11520   -.05865   -4.87420   -.08792  299.95000
   11.263    399.840     .28174    .17664   -.08790   -.47925    .11927   -.05640   -4.85550   -.13354  300.04000

                          RUN NO.  692/ 0    RN/L =   4.03

     Y          Z          CN        CA        CLM        CY        CYN       CBL       CLTALF     CLTBTA     X
  101.440      2.300     .25828    .17260   -.07024   -.46931    .10437   -.05107   -4.95940   -.08780  300.12000
   99.018    100.130     .26188    .17718   -.07108   -.46875    .10941   -.05420   -4.84920   -.05731  299.80000
   99.956    199.850     .27674    .17874   -.08281   -.46980    .11441   -.05873   -4.86150   -.08130  299.78000
  100.740    399.900     .28513    .17651   -.09144   -.47780    .11882   -.05721   -4.85720   -.11030  299.92000

                          RUN NO.  693/ 0    RN/L =   4.03

     Y          Z          CN        CA        CLM        CY        CYN       CBL       CLTALF     CLTBTA     X
  201.380       .781     .23703    .17293   -.05621   -.46945    .10985   -.04498   -4.89670   -.17374  300.12000
  200.690     99.830     .25473    .17786   -.06744   -.47514    .11666   -.05267   -4.85240   -.11885  300.10000
  202.060    199.500     .27003    .17954   -.07802   -.47379    .11727   -.05536   -4.83060   -.09261  300.08000
  199.380    399.500     .28847    .17599   -.09496   -.47934    .12088   -.05771   -4.83060   -.07437  299.97000

                          RUN NO.  694/ 0    RN/L =   4.03

     Y          Z          CN        CA        CLM        CY        CYN       CBL       CLTALF     CLTBTA     X
  400.560      -.067     .26030    .17540   -.07336   -.48049    .12335   -.05314   -4.84570   -.12249  299.91000
  400.100    100.050     .25937    .17570   -.07233   -.47830    .12110   -.05135   -4.85360   -.12471  299.90000
  400.700    199.960     .27216    .17636   -.08157   -.47552    .11936   -.05374   -4.83570   -.15110  299.94000
  401.310    400.010     .27652    .17553   -.08584   -.47142    .11599   -.05647   -4.86610   -.17047  299.98000
```

```
DATE 20 MAY 75                                  IA87 TABULATED SOURCE DATA                                        PAGE  192

                                     AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.            (RTU233)    ( 03 OCT 74  )

            REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                          MACH   =      4.520   FTOTL   =     60.400
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YT                          ALPHA  =     10.000   BETA    =     15.800
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                           DALPHA =       .200   DBETA   =     -4.100
SCALE =        .0100                                                             X      =       .000

                          RUN NO.  697/ 0    RN/L =   4.03

       Y          Z          CN         CA        CLM         CY         CYN        CBL        DLTALF    DLTBTA       X
     99.491   -100.480     .28225     .16743    -.08816    -.48033     .10447    -.05008     .23734   -4.07870   -.00388
    100.520      -.040     .23566     .16923    -.05302    -.46850     .10183    -.04625     .16350   -4.12860   -.09412
    100.580     99.801     .25239     .17798    -.06395    -.45391     .10122    -.05243     .14095   -4.11110    .08849
    100.850    199.670     .26092     .17797    -.07332    -.45699     .10642    -.05525     .13486   -4.10590   -.05029
    101.150    400.120     .28509     .17788    -.08943    -.47012     .11396    -.05950     .11921   -4.10850    .58008

                          RUN NO.  696/ 0    RN/L =   4.03

       Y          Z          CN         CA        CLM         CY         CYN        CBL        DLTALF    DLTBTA       X
    201.880    -98.554     .26261     .16829    -.07399    -.46566     .10176    -.04791     .09347   -4.11120    .07669
    200.490      -.122     .23015     .17014    -.04952    -.45653     .09722    -.04305     .17650   -4.12040   -.11463
    200.840     99.981     .25094     .17569    -.06383    -.45145     .09869    -.05091     .17208   -4.13820   -.05985
    199.280    199.790     .25677     .17705    -.06890    -.45681     .10429    -.05317     .12823   -4.04440    .36790
    199.130    399.340     .28720     .17861    -.09063    -.47004     .11416    -.05973     .14479   -4.03880    .40821

                          RUN NO.  695/ 0    RN/L =   4.03

       Y          Z          CN         CA        CLM         CY         CYN        CBL        DLTALF    DLTBTA       X
    401.460    -99.879     .26330     .17332    -.07582    -.47330     .11046    -.04701     .14541   -4.14950    .65771
    399.990     -1.069     .26208     .17507    -.07374    -.47610     .11382    -.04917     .21976   -4.08640    .49826
    400.920     99.382     .26356     .17694    -.07402    -.47848     .11744    -.05260     .17799   -4.13250    .58873
    400.420    199.310     .26120     .17782    -.07189    -.47750     .11822    -.05250     .15385   -4.10990    .52901
    399.680    399.650     .29011     .17820    -.09421    -.47777     .12013    -.05817     .14021   -4.09190    .55331
```

```
                         AEDC/VA528(IA87)-O1ET151-ORB/ET W R/M SRB SEPAR.          (RTU234)   ( 03 OCT 74  )

            REFERENCE DATA                                                               PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                      MACH    =     4.520  PTOTL   =     60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                      ALPHA   =    10.000  BETA    =     15.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                      DALPHA  =      .200  DBETA   =     -4.100
SCALE =       .0100                                                        X       =   300.000

                         RUN NO.  698/ 0    RN/L =   4.03

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  100.790   -100.300     .26146     .16909    -.07394    -.48598     .10921    -.04793     .18364   -4.13290  300.11000
  100.910      1.357     .25930     .17532    -.06838    -.48082     .10907    -.04994     .10522   -4.18450  299.92000
   98.848    102.710     .26854     .17734    -.07501    -.47222     .11080    -.05445     .06302   -4.01850  299.77000
  100.210    199.870     .27554     .17955    -.08124    -.46878     .11311    -.05700     .13858   -4.10310  299.94000
  100.780    399.750     .27497     .17699    -.08358    -.47545     .11767    -.05512     .12067   -4.11830  299.97000

                         RUN NO.  699/ 0    RN/L =   4.03

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  202.350   -100.040     .25335     .17038    -.06856    -.47160     .10861    -.04492     .13095   -4.17180  300.20000
  201.120       .579     .25151     .17557    -.06552    -.47571     .11388    -.04918     .09004   -4.11650  300.07000
  202.290    100.310     .26367     .17798    -.07332    -.47490     .11570    -.05360     .12997   -4.17160  300.31000
  200.700    199.730     .27456     .17958    -.08062    -.47073     .11438    -.05552     .14527   -4.10920  300.08000
  199.710    399.160     .27611     .17631    -.08486    -.47610     .11883    -.05474     .16858   -4.09660  300.05000

                         RUN NO.  700/ 0    RN/L =   4.03

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  400.890   -100.100     .26324     .17613    -.07498    -.48618     .12737    -.05491     .15171   -4.12480  299.92000
  400.140     -.724     .26239     .17640    -.07459    -.48641     .12708    -.05315     .19271   -4.10150  300.11000
  400.540     99.592     .26462     .17606    -.07611    -.48274     .12396    -.05187     .17588   -4.15160  300.01000
  401.100    200.510     .27582     .17656    -.08451    -.47944     .12190    -.05443     .11726   -4.16790  300.00000
  401.250    400.300     .26925     .17603    -.07981    -.47092     .11559    -.05421     .09494   -4.15810  300.09000
```

```
                                        AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.             (RTU235)    ( 03 OCT 74  )

              REFERENCE DATA                                                                       PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                               MACH   =     4.520   PTOTL  =     60.400
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                              ALPHA  =    10.000   BETA   =     15.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                               CALPHA =     5.200   DBETA  =     -4.100
SCALE =       .0100                                                                 X      =   300.000

                          RUN NO.  703/ 0    RN/L =   4.03

     Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA      X
   100.710   -100.100    .25413     .17022   -.06701   -.49307    .11131    -.04587    5.18570   -4.13860  300.04000
   100.920      -.248    .26121     .17567   -.06849   -.47674    .10562    -.05004    5.17420   -4.13890  300.04000
   100.710     99.646    .26497     .17787   -.07183   -.46333    .10544    -.05387    5.15170   -4.13150  299.98000
   101.100    199.620    .27554     .17955   -.08130   -.46341    .11006    -.05713    5.13680   -4.11600  300.23000
   100.770    399.820    .27223     .17696   -.08148   -.47386    .11716    -.05441    5.16200   -4.10440  300.09000

                          RUN NO.  702/ 0    RN/L =   4.03

     Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA      X
   201.030   -100.430    .24768     .17112   -.06370   -.47592    .11003    -.04356    5.18930   -4.14650  300.19000
   199.390       .094    .25831     .17660   -.06967   -.47663    .11406    -.05067    5.19830   -4.05870  299.99000
   199.450     99.911    .26285     .17806   -.07219   -.47230    .11332    -.05251    5.15290   -4.09420  299.91000
   200.700    199.610    .27998     .17957   -.08469   -.46967    .11375    -.05646    5.16410   -4.11090  300.14000
   199.910    398.730    .27322     .17667   -.08240   -.47414    .11775    -.05415    5.15860   -4.04870  300.08000

                          RUN NO.  701/ 0    RN/L =   4.03

     Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA      X
   401.400    -99.762    .26340     .17631   -.07518   -.49044    .13022    -.05457    5.14540   -4.16420  299.97000
   400.860      -.807    .26576     .17664   -.07756   -.48977    .12922    -.05323    5.21890   -4.11590  300.12000
   401.020     99.199    .26825     .17639   -.07853   -.48498    .12516    -.05208    5.19280   -4.11280  300.13000
   400.750    199.760    .27909     .17539   -.08713   -.48068    .12281    -.05507    5.16910   -4.10020  300.18000
   400.830    399.820    .26924     .17594   -.07989   -.47012    .11527    -.05420    5.15160   -4.11450  300.09000
```

```
                                  AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.                 (RTU236)    ( 03 OCT 74  )

                 REFERENCE DATA                                                                                PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                      MACH   =      4.520  PTOTL  =     60.400
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                                      ALPHA  =     10.000  BETA   =     15.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                      DALPHA =      5.200  DBETA  =     -4.100
SCALE =       .0100                                                                         X      =       .000

                             RUN NO.  704/ 0    RN/L =   4.03

     Y          Z          CN         CA         CLM         CY         CYN        CBL        DLTALF     DLTBTA      X
  100.320   -100.190     .24821     .16630    -.06077    -.48058     .09988    -.04230    5.18720   -4.14050    .42664
   99.995      -.423     .23156     .17099    -.04859    -.45725     .09453    -.04645    5.16340   -4.11150    .50975
  100.000     99.470     .24778     .17544    -.06095    -.44142     .09523    -.05282    5.14270   -4.09420    .50559
   97.295    199.800     .25583     .1[illegible]734    -.07019    -.44987     .10319    -.05540    5.15290   -3.98170    .18982
  101.010    399.550     .28308     .17731    -.08897    -.46884     .11353    -.05912    5.13690   -4.11010    .58150

                             RUN NO.  705/ 0    RN/L =   4.03

     Y          Z          CN         CA         CLM         CY         CYN        CBL        DLTALF     DLTBTA      X
  202.250   -101.060     .24701     .16890    -.06121    -.46742     .10024    -.04391    5.20960   -4.12990    .84628
  200.830      -.644     .23569     .17400    -.05138    -.45469     .09600    -.04489    5.16640   -4.09790    .58275
  200.370    100.390     .25122     .17595    -.06329    -.44737     .09590    -.05082    5.10760   -4.10850    .32233
  200.980    199.710     .25234     .17684    -.06528    -.45546     .10395    -.05244    5.13270   -4.16700    .49678
  200.370    399.700     .28769     .17796    -.09167    -.46847     .11350    -.05971    5.11710   -4.11310    .48947

                             RUN NO.  706/ 0    RN/L =   4.02

     Y          Z          CN         CA         CLM         CY         CYN        CBL        DLTALF     DLTBTA      X
  399.950   -100.980     .26314     .17377    -.07530    -.47983     .11359    -.04674    5.23190   -4.15910    .47313
  400.010       .303     .26479     .17574    -.07510    -.47998     .11540    -.04953    5.13780   -4.10720    .26023
  400.270    100.980     .26720     .17761    -.07606    -.47959     .11779    -.05285    5.14030   -4.11450    .26392
  400.640    199.670     .26323     .17809    -.07282    -.47698     .11729    -.05202    5.15460   -4.12210    .48500
  400.560    399.890     .29023     .17786    -.09470    -.47636     .11949    -.05824    5.15910   -4.10800    .43344
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU237) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = 10.000 BETA = 15.800
DALPHA = -4.900 DBETA = -4.100
X = .000

RUN NO. 709/ 0 RN/L = 4.03

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.370	-.771	.29653	.16877	-.10034	-.47623	.10737	-.05878	-4.80300	-4.02980	.06980
100.540	99.841	.25016	.17574	-.06334	-.46909	.10837	-.05177	-4.84970	-4.11850	-.09412
100.780	199.770	.26793	.17775	-.07735	-.46510	.10985	-.05571	-4.86330	-4.10510	-.00073
102.220	400.150	.28372	.18022	-.08742	-.47491	.11656	-.05910	-4.87500	-4.16880	.02010

RUN NO. 708/ 0 RN/L = 4.03

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
203.230	1.593	.26896	.16997	-.07957	-.46116	.10191	-.05337	-4.90000	-4.14980	.11433
201.000	98.357	.24665	.17501	-.06141	-.45883	.10323	-.05025	-4.79520	-4.17770	-.21926
199.050	199.150	.25873	.17776	-.06963	-.45828	.10462	-.05346	-4.81960	-4.07290	-.40359
198.670	400.990	.28521	.17959	-.08829	-.47265	.11541	-.05930	-4.93310	-4.04270	-.00706

RUN NO. 707/ 0 RN/L = 4.03

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.830	.267	.25683	.17576	-.07042	-.47213	.11140	-.04767	-4.86430	-4.13150	-.03876
399.800	99.336	.26019	.17700	-.07182	-.47594	.11550	-.05149	-4.80540	-4.04790	-.19820
400.290	199.140	.25948	.17797	-.07083	-.47869	.11907	-.05296	-4.84020	-4.07980	-.11194
399.290	399.720	.28879	.17918	-.09243	-.47949	.12001	-.05757	-4.86320	-4.08710	.25696

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU238) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = 10.000 BETA = 15.800
DALPHA = -4.900 DBETA = -4.100
X = 300.000

RUN NO. 710/ 0 RN/L = 4.03

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.840	-.414	.27427	.17420	-.08230	-.48322	.11147	-.05400	-4.84120	-4.12270	300.01000
98.925	101.410	.27580	.17790	-.08029	-.48066	.11470	-.05539	-4.91400	-4.07380	299.97000
100.210	199.730	.27965	.17900	-.08447	-.47772	.11844	-.05782	-4.85600	-4.09710	299.92000
100.360	399.940	.28122	.17666	-.08801	-.47597	.11772	-.05628	4.85580	-4.10950	299.83000

```
                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.          (RTU238)    ( 03 OCT 74  )

          REFERENCE DATA                                                                       PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                         MACH   =      4.520   PTOTL  =     60.400
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YT                         ALPHA  =     10.000   BETA   =     15.800
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                         DALPHA =     -4.900   DBETA  =     -4.100
SCALE =       .0100                                                            X      =    300.000

                     RUN NO.  711/ 0    RN/L =    4.03

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  201.090     -.207      .25155     .17326    -.06681    -.47264     .11126    -.04834   -4.83800   -4.13270  300.06000
  202.470   101.540      .26173     .17829    -.07183    -.47609     .11660    -.05378   -4.94630   -4.16220  300.37000
  200.690   199.840      .27270     .17969    -.07941    -.47399     .11648    -.05563   -4.86020   -4.10980  300.05000
  197.720   399.130      .28507     .17653    -.09176    -.47855     .11997    -.05667   -4.82560   -3.99080  299.80000

                     RUN NO.  712/ 0    RN/L =    4.03

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  399.190     -.035      .25994     .17643    -.07254    -.48472     .12618    -.05339   -4.84310   -4.11500  299.64000
  399.910    99.409      .26226     .17642    -.07420    -.48194     .12377    -.05202   -4.80300   -4.10510  299.82000
  400.500   199.710      .27357     .17695    -.08237    -.47866     .12114    -.05383   -4.82890   -4.15180  299.82000
  400.380   399.770      .27484     .17563    -.08415    -.47224     .11659    -.05555   -4.86160   -4.10350  300.13000

                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.          (RTU239)    ( 03 OCT 74  )

          REFERENCE DATA                                                                       PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                         MACH   =      4.520   PTOTL  =     60.400
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YT                         ALPHA  =     10.000   BETA   =     15.800
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                         DALPHA =       .200   DBETA  =     -8.100
SCALE =       .0100                                                            X      =       .000

                     RUN NO.  714/ 0    RN/L =    4.02

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  200.570  -100.160      .27459     .16689    -.08300    -.48540     .11219    -.04918     .17014   -8.12390    -.02075
  201.760     -.318      .24233     .17248    -.05767    -.47985     .11155    -.04603     .14481   -8.19940     .07334
  197.900   101.760      .26109     .17597    -.07067    -.46329     .10588    -.05209     .08985   -8.00670    -.37866
  198.100   199.910      .25977     .17696    -.07017    -.45772     .10452    -.05334     .16719   -8.01730    -.41426
  200.470   399.860      .28685     .17853    -.08989    -.46924     .11341    -.05926     .12949   -8.10080    -.10025

                     RUN NO.  713/ 0    RN/L =    4.03

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  399.400   -99.097      .26082     .17291    -.07382    -.47421     .10960    -.04560     .10881   -8.02630    -.21925
  400.200     -.959      .26383     .17520    -.07483    -.47689     .11310    -.04903     .22300   -8.07680    -.06668
  400.670    99.520      .26657     .17699    -.07572    -.47817     .11621    -.05258     .17441   -8.12310    -.01592
  401.010   198.920      .26272     .17767    -.07260    -.47656     .11700    -.05267     .17365   -8.13020     .61302
  399.960   399.570      .29134     .17863    -.09465    -.47743     .11969    -.05836     .14420   -8.08470     .50855
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                                  AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR.          (RTU240)   ( 03 OCT 74  )

          REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH    =    4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                          ALPHA   =   10.000   BETA   =    15.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA  =     .200   DBETA  =    -8.100
SCALE =       .0100                                                            X       =  300.000

                       RUN NO.  715/ 0    RN/L =   4.03

      Y          Z         CN        CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA     X
  202.140   -100.330    .26541    .17123   -.07757   -.48534    .11684   -.04726    .18309   -8.11410  300.24000
  202.640      -.953    .26073    .17592   -.07143   -.48474    .11905   -.05018    .18069   -8.18870  300.37000
  200.700     99.864    .26741    .17819   -.07530   -.47736    .11651   -.05371    .15668   -8.12010  300.03000
  200.950    199.730    .27837    .17927   -.08308   -.47133    .11463   -.05606    .13710   -8.11210  300.04000
  200.800    399.550    .27607    .17703   -.08421   -.47600    .11847   -.05457    .15183   -8.10770  300.11000

                       RUN NO.  716/ 0    RN/L =   4.03

      Y          Z         CN        CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA     X
  400.920   -100.130    .26077    .17683   -.07276   -.48855    .12877   -.05422    .16336   -8.12300  299.91000
  400.550     -1.191    .26360    .17718   -.07517   -.49017    .12989   -.05374    .23446   -8.15220  299.95000
  400.680     99.833    .26664    .17695   -.07712   -.48614    .12630   -.05221    .17110   -8.12150  300.03000
  400.830    200.100    .27895    .17727   -.08627   -.48243    .12362   -.05457    .14097   -8.15950  300.01000
  400.340    400.930    .27087    .17599   -.08075   -.47228    .11675   -.05410    .05962   -8.12850  299.92000


                                  AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR.          (RTU241)   ( 03 OCT 74  )

          REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH    =    4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                          ALPHA   =   10.000   BETA   =    15.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA  =    5.200   DBETA  =    -8.100
SCALE =       .0100                                                            X       =  300.000

                       RUN NO.  718/ 0    RN/L =   4.02

      Y          Z         CN        CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA     X
  201.010   -100.550    .25329    .17133   -.06780   -.49068    .11887   -.04391   5.20970   -8.15250  300.24000
  199.300      1.411    .26711    .17676   -.07539   -.48375    .11778   -.051[illegible]   5.13340   -8.04300  299.72000
  200.610     99.586    .26598    .17884   -.07351   -.47304    .11313   -.05267   5.15980   -8.11290  300.09000
  199.390    199.370    .28348    .17984   -.08638   -.46952    .11300   -.05718   5.18540   -8.11180  299.84000
  200.220    397.990    .27499    .17732   -.08310   -.47480    .11770   -.05424   5.20610   -8.06550  300.11000
```

```
                                AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.          (RTU241)   ( 03 OCT 74  )

        REFERENCE DATA                                                                 PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                         MACH   =     4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                         ALPHA  =    10.000   BETA   =    15.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                         CALPHA =     5.200   CBETA  =    -8.100
SCALE =      .0100                                                            X      =   300.000

                        RUN NO.  717/ 0    RN/L =   4.01

      Y          Z          CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   399.970    -99.635     .26216     .17733    -.07385    -.49341     .13219    -.05466    5.13250   -8.06300  299.90000
   401.050      -.411     .26696     .17717    -.07767    -.49325     .13170    -.05369    5.18820   -8.13090  300.21000
   400.860     99.215     .27002     .17724    -.07924    -.48788     .12703    -.05208    5.19650   -8.14500  300.14000
   400.910    199.470     .28351     .17711    -.08977    -.48341     .12438    -.05548    5.18880   -8.11030  300.21000
   400.880    399.850     .27102     .17599    -.08078    -.47150     .11616    -.05413    5.15010   -8.11650  300.12000

                                AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.          (RTU242)   ( 03 OCT 74  )

        REFERENCE DATA                                                                 PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                         MACH   =     4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRF  =      .0000 IN. YT                         ALPHA  =    10.000   BETA   =    15.800
BREF  =  1290.3000 INCHES   ZMRF  =   450.0000 IN. ZT                         CALPHA =     5.200   CBETA  =    -8.100
SCALE =      .0100                                                            X      =      .000

                        RUN NO.  719/ 0    RN/L =   4.02

      Y          Z          CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   200.670   -100.300     .25465     .16853    -.06617    -.48877     .11116    -.04410    5.19610   -8.14410     .58690
   200.410      -.445     .24494     .17511    -.05709    -.46949     .10407    -.04657    5.16850   -8.12690     .37603
   201.130    100.370     .25516     .17672    -.06509    -.44931     .09629    -.05152    5.10410   -8.08040     .58519
   201.130    200.430     .25355     .17738    -.06557    -.45426     .10250    -.05231    5.09580   -8.15850     .48945
   200.160    399.830     .28503     .17775    -.08948    -.46756     .11259    -.05884    5.13380   -8.10410     .41997

                        RUN NO.  720/ 0    RN/L =   4.02

      Y          Z          CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   399.870    -99.501     .26198     .17375    -.07406    -.48135     .11321    -.04556    5.20740   -8.03540    -.32822
   400.050       .089     .26648     .17591    -.07605    -.48045     .11448    -.04904    5.15500   -8.11510     .41452
   399.880    100.020     .26962     .17796    -.07709    -.47948     .11634    -.05281    5.14110   -8.10010     .37513
   399.920    199.580     .26385     .17833    -.07252    -.47712     .11662    -.05202    5.15740   -8.09210     .46289
   400.250    400.070     .29237     .17833    -.09568    -.47716     .11936    -.05862    5.14610   -8.09560     .40340
```

```
                                  AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR.               (RTU243)   ( 03 OCT 74  )

            REFERENCE DATA                                                                        PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =     4.520   PTOTL  =     60.400
 LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                          ALPHA  =    10.000   BETA   =     15.800
 BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          CALPHA =    -4.900   CBETA  =     -8.100
 SCALE =      .0100                                                             X      =      .000

                          RUN NO.  722/ 0    RN/L =   4.02

      Y          Z         CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   200.740     -.093     .30066     .17001    -.10983    -.48754     .11830    -.05946   -4.86160   -8.10860   -.06038
   200.510    99.844     .26233     .17730    -.07182    -.47986     .11592    -.05216   -4.84120   -8.11190   -.12215
   199.290   200.590     .26919     .17725    -.07732    -.47495     .11494    -.05412   -4.87060   -8.07890   -.25270
   201.000   399.870     .28444     .17969    -.08726    -.47224     .11496    -.05859   -4.86710   -8.11030   -.08690

                          RUN NO.  721/ 0    RN/L =   4.01

      Y          Z         CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   401.190     -.399     .25808     .17422    -.07119    -.47220     .10987    -.04714   -4.83160   -8.13340    .14778
   400.500   100.020     .26450     .17678    -.07473    -.47602     .11450    -.05206   -4.84730   -8.11510   -.15582
   399.770   198.450     .26286     .17780    -.07296    -.47789     .11798    -.05350   -4.78780   -8.04420   -.18781
   400.430   399.780     .28964     .17939    -.09271    -.47902     .12045    -.05762   -4.86070   -8.09010    .08059

                                  AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR.               (RTU244)   ( 03 OCT 74  )

            REFERENCE DATA                                                                        PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =     4.520   PTOTL  =     60.400
 LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                          ALPHA  =    10.000   BETA   =     15.800
 BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          CALPHA =    -4.900   CBETA  =     -8.100
 SCALE =      .0100                                                             X      =   300.000

                          RUN NO.  723/ 0    RN/L =   4.02

      Y          Z         CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   203.290     -.141     .27332     .17337    -.08332    -.48442     .11913    -.05335   -4.86530   -8.16310  300.59000
   202.040   100.240     .27049     .17762    -.07840    -.48265     .12051    -.05508   -4.89540   -8.13360  300.30000
   200.600   199.880     .27836     .17917    -.08316    -.47655     .11760    -.05641   -4.86010   -8.10510  300.09000
   201.010   399.940     .28320     .17690    -.08972    -.47799     .11939    -.05602   -4.86680   -8.13330  300.08000

                          RUN NO.  724/ 0    RN/L =   4.02

      Y          Z         CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   400.460     -.114     .26028     .17731    -.07256    -.48836     .12902    -.05396   -4.83910   -8.12100  299.84000
   399.400    98.786     .26452     .17743    -.07567    -.48629     .12669    -.05280   -4.75560   -8.06780  299.64000
   400.390   198.680     .27514     .17797    -.08326    -.48134     .12298    -.05373   -4.76340   -8.12740  299.89000
   400.210   399.840     .27414     .17562    -.08348    -.47378     .11775    -.05493   -4.85870   -8.10510  299.91000
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU245) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = 10.000 BETA = 15.000
DALPHA = 5.200 DBETA = 3.900
X = .000

RUN NO. 728/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
11.222	-100.280	.21066	.16800	-.04256	-.45216	.07998	-.03971	5.18100	3.85040	.50771
10.477	-.501	.22308	.17227	-.04403	-.43782	.08387	-.04799	5.14750	3.89170	.61087
10.240	99.325	.23798	.17655	-.05675	-.43808	.09252	-.05197	5.14730	3.90020	.36250
10.417	199.620	.25183	.17087	-.06950	-.44998	.10365	-.05528	5.13490	3.90100	.54580
10.641	399.640	.28800	.17879	-.09152	-.47436	.11591	-.06061	5.13770	3.89330	.50908

RUN NO. 727/ 0 RN/L = 4.02

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
101.650	-101.240	.23737	.16646	-.05364	-.44427	.08496	-.04059	5.22290	3.86940	.88393
102.650	-1.018	.21405	.17015	-.03785	-.43568	.08626	-.04376	5.14650	3.81570	.76994
100.850	100.810	.23707	.17692	-.05474	-.43884	.09508	-.05096	5.07660	3.85120	.32047
101.780	200.240	.25047	.17779	-.06597	-.44848	.10200	-.05391	5.10880	3.87730	.04336
100.300	399.360	.28913	.17351	-.09186	-.47199	.11542	-.06064	5.14890	3.91670	.59405

RUN NO. 726/ 0 RN/L = 4.02

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.600	-99.880	.23915	.16882	-.05453	-.45896	.09508	-.04029	5.17160	3.84360	.43780
199.590	-.047	.23991	.17135	-.05519	-.44996	.09321	-.04487	5.15690	3.89080	.21431
200.170	99.355	.24218	.17482	-.05687	-.44897	.09642	-.04816	5.16470	3.86950	.36845
199.570	199.340	.24922	.17716	-.06305	-.45669	.10497	-.05203	5.15850	3.93240	.43214
201.330	400.250	.29182	.17943	-.09394	-.47156	.11570	-.06059	5.13490	3.87250	.54091

RUN NO. 725/ 0 RN/L = 4.02

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
300.710	-100.520	.26034	.17163	-.07163	47064	.10414	-.04362	5.20660	3.88260	.71284
300.880	-.466	.25506	.17307	-.06658	.46547	.10319	-.04611	5.17680	3.86280	.60558
301.090	99.711	.25535	.17630	-.06644	-.46569	.10728	-.04999	5.16060	3.86240	.50175
300.360	199.180	.25445	.17838	-.06600	-.46928	.11230	-.05206	5.13620	3.87780	.54468
299.470	399.860	.29171	.17930	-.09441	-.47505	.11850	-.05896	5.12970	3.91740	.30533

```
                                    AEDC/VA520(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR.          (RTU246)   ( 03 OCT 74  )

               REFERENCE DATA                                                                       PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                              MACH   =     4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                             ALPHA  =    10.000   BETA   =    15.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                              DALPHA =     5.200   DBETA  =     3.900
SCALE =       .0100                                                                X      =   300.000

                          RUN NO.  729/ 0    RN/L =   4.02

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   10.657   -102.430     .23342     .16842    -.05213    -.47159     .09826    -.04253    5.26340    3.91680  300.47000
    9.572       .133     .23986     .17342    -.05370    -.45143     .09304    -.04741    5.15050    3.89870  299.60000
   10.591     99.924     .24805     .17654    -.06133    -.45365     .10129    -.05282    5.13650    3.89620  300.08000
   11.109    199.740     .27450     .18078    -.07984    -.46642     .11167    -.05850    5.13380    3.88340  300.28000
   10.665    399.600     .27605     .17701    -.08414    -.47710     .11851    -.05543    5.14730    3.88390  300.44000

                          RUN NO.  730/ 0    RN/L =   4.02

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  100.890   -100.260     .24612     .17061    -.06129    -.47142     .10204    -.04314    5.18020    3.86160  300.23000
   99.500      1.913     .25157     .17540    -.06283    -.46296     .10142    -.04925    5.08240    3.89800  300.28000
  100.470     99.588     .25992     .17828    -.06938    -.46214     .10749    -.05378    5.15170    3.89100  300.46000
   98.839    198.950     .27372     .18004    -.08032    -.46389     .11093    -.05[illegible]59    5.17090    3.97730  300.65000
   99.226    398.110     .27887     .17673    -.08689    -.47642     .11868    -.05569    5.19600    3.93670  300.84000

                          RUN NO.  731/ 0    RN/L =   4.02

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  201.200   -100.180     .24322     .17096    -.06012    -.47363     .10949    -.04254    5.18080    3.81590  300.39000
  200.860      -.626     .25094     .17592    -.06450    -.47595     .11514    -.04912    5.20650    3.86950  300.77000
  200.390     99.685     .25741     .17837    -.06848    -.47415     .11563    -.05157    5.15600    3.88270  300.54900
  200.730    199.760     .27600     .17996    -.08206    -.47304     .11639    -.05545    5.16400    3.90730  300.57000
  200.660    399.780     .27751     .17614    -.08613    -.47589     .11876    -.05532    5.13850    3.86490  300.51000

                          RUN NO.  732/ 0    RN/L =   4.02

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  299.540    399.880     .27318     .17611    -.08270    -.47250     .11678    -.05475    5.11960    3.[illegible]900  300.33000
```

```
                                AE 1/VA528(IA87)-O1ET15:-ORB/ET W L/H SRB SEPAR.           (RTU247)   ( 03 OCT 74  )

              REFERENCE DATA                                                                  PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.   XMRP  =  1087.0000 IN. XT                         MACH    =     4.520   PTOTL  =    60.400
 LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                         ALPHA   =    10.000   BETA   =    15.800
 BREF  =  1290.3000 INCHES   ZMRP  =   480.0000 IN. ZT                         DALPHA  =      .200   DBETA  =     -.100
 SCALE =       .0100                                                           X       =      .000

                      RUN NO.   734/ 0    RN/L =    4.01

      Y          Z         CN        CA        CLM        CY        CYN       CBL      DLTALF    DLTBTA      X
  -397.870   -100.360    .27476    .17596   -.08401   -.46373    .11091   -.05190    .15610   -.11608    .17675
  -397.890      -.378    .27612    .17567   -.08505   -.46381    .11098   -.05164    .15604   -.13609    .10956
  -398.270     99.183    .27587    .17555   -.08490   -.46548    .11207   -.05186    .17794   -.12720    .29249
  -398.350    199.770    .27269    .17607   -.08232   -.46846    .11373   -.05304    .15086   -.12454    .21421
  -398.800    399.660    .26909    .17689   -.07953   -.46866    .11438   -.05418    .14931   -.10988    .30990

                      RUN NO.   735/ 0    RN/L =    4.00

      Y          Z         CN        CA        CLM        CY        CYN       CBL      DLTALF    DLTBTA      X
  -299.350   -100.520    .28150    .17706   -.08886   -.44929    .10190   -.04868    .18779   -.10291   -.14242
  -300.420      -.132    .28156    .17630   -.06907   -.44919    .10212   -.04881    .13153   -.06085    .14395
  -299.440    100.200    .28087    .17562   -.08866   -.45372    .10496   -.04980    .12193   -.11802    .23096
  -299.690    200.370    .27758    .17530   -.08626   -.45991    .10873   -.05113    .12251   -.10229    .11115
  -299.093    399.730    .26993    .17634   -.08032   -.46862    .11422   -.05387    .14517   -.10983    .18268

                      RUN NO.   736/ 0    RN/L =    4.01

      Y          Z         CN        CA        CLM        CY        CYN       CBL      DLTALF    DLTBTA      X
  -197.500    -99.635    .27645    .17573   -.08807   -.43353    .09780   -.04806    .13403   -.16821    .15566
  -198.450      -.224    .27994    .17621   -.09138   -.43433    .09980   -.04736    .14907   -.11203    .34910
  -199.010     99.853    .28518    .17581   -.09445   -.43634    .10005   -.04683    .14575   -.10574    .14964
  -198.720    199.750    .28874    .17498   -.09456   -.44345    .10115   -.04777    .15055   -.11828    .16058
  -198.820    399.150    .27205    .17529   -.08182   -.46488    .11207   -.05320    .14794   -.11024    .44014

                      RUN NO.   737/ 0    RN/L =    4.01

      Y          Z         CN        CA        CLM        CY        CYN       CBL      DLTALF    DLTBTA      X
   -98.623   -100.300    .26624    .17541   -.08681   -.42834    .10248   -.04966    .13315   -.10739    .25435
   -97.485      -.853    .27043    .17529   -.08716   -.43485    .10522   -.05056    .11499   -.15090    .22482
  -103.040     98.022    .28012    .17583   -.09007   -.42957    .10236   -.04937    .20160    .01186    .22914
   -97.778    199.680    .29335    .17702   -.09512   -.42642    .09976   -.04861    .13097   -.12971    .27267
   -98.834    399.700    .27364    .17542   -.08316   -.45774    .10806   -.05290    .13750   -.10982    .25724
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                       AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.              (RTU248)   ( 03 OCT 74  )

          REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                           MACH   =     4.520   PTOTL  =     60.400
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                          ALPHA  =    10.000   BETA   =     15.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                           DALPHA =      .200   DBETA  =      -.100
SCALE =       .0100                                                             X      =   300.000

                          RUN NO.  741/ 0    RN/L =   4.01

      Y          Z         CN        CA        CLM        CY        CYN       CBL       DLTALF     DLTBTA     X
   -397.850   -100.260   .27442    .17625   -.08361   -.46504    .11162   -.05226    .15184    -.14036  300.21000
   -399.910     -.349    .27599     17603   -.08472   -.46530    .11166   -.05199    .14527    -.11235  300.12000
   -400.660    100.250   .27550    .17558   -.08455   -.46552    .11220   -.05197    .12733    -.07588  300.09000
   -400.380    200.220   .27157    .17607   -.08164   -.46808    .11383   -.05323    .12387    -.06406  300.12000
   -399.080    399.610   .26924    .17675   -.07956   -.46872    .11436   -.05417    .14349    -.10912  300.16000

                          RUN NO.  740/ 0    RN/L =   4.0

      Y          Z         CN        CA        CLM        CY        CYN       CBL       DLTALF     DLTBTA     X
   -297.700    -99.571   .27945    .17634   -.08737   -.45774    .10687   -.05015    .14145    -.12204  300.42000
   -295.960      .536    .27892    .17595   -.08716   -.45780    .10731   -.05050    .11769    -.18586  300.12000
   -298.900     99.723   .27818    .17579   -.08657   -.45910    .10814   -.05093    .15322    -.10517  300.31000
   -299.470    197.620   .27648    .17535   -.08539   -.46130    .10962   -.05155    .22891    -.05222  300.20000
   -298.910    399.670   .26898    .17662   -.07951   -.46848    .11426   -.05414    .13997    -.11169  300.26000

                          RUN NO.  739/ 0    RN/L =   4.00

      Y          Z         CN        CA        CLM        CY        CYN       CBL       DLTALF     DLTBTA     X
   -200.180   -102.070   .28038    .17576   -.08789   -.44982    .10300   -.04999    .20971     .06460  300.35000
   -197.620     -1.276   .27730    .17539   -.08598   -.45103    .10405   -.05054    .14537    -.16401  300.30000
   -201.840     98.520   .27914    .17520   -.08709   -.45336    .10539   -.05057    .18679    -.04075  300.25000
   -198.000    199.750   .27713    .17546   -.08569   -.45481    .10625   -.05146    .14317    -.13104  300.31000
   -198.820    399.570   .27067    .17523   -.08095   -.46574    .11277   -.05345    .14306    -.11487  300.12000

                          RUN NO.  738/ 0    RN/L =   4.00

      Y          Z         CN        CA        CLM        CY        CYN       CBL       DLTALF     DLTBTA     X
    -98.594    -98.014   .26971    .17374   -.08264   -.44242    .10515   -.05246    .08108    -.11754  300.18000
    -97.148      .894    .26796    .17346   -.08161   -.44661    .10777   -.05348    .09611    -.12473  299.97000
    -98.708     99.697   .27659    .17392   -.08604   -.44880    .10657   -.05236    .13760    -.10797  300.31000
    -98.808    199.760   .27735    .17442   -.08585   -.45113    .10641   -.05222    .10975    -.10292  300.37000
    -98.559    399.780   .27243    .17522   -.08246   -.45902    .10898   -.05292    .10762    -.11957  300.12000
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU249) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRF = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = 10.000 BETA = 15.800
CALPHA = 5.200 CBETA = -.100
X = 300.000

RUN NO. 742/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-396.640	-99.881	.27507	.17593	-.08421	-.46387	.11092	-.05192	5.14040	-.16311	300.33000
-398.780	-.256	.27613	.17569	-.08500	-.46437	.11124	-.05178	5.15990	-.11249	300.22000
-397.410	98.457	.27540	.17554	-.08454	-.46548	.11217	-.05199	5.20780	-.15460	300.23000
-398.750	199.660	.27070	.17632	-.08089	-.46874	.11419	-.05362	5.14880	-.11890	300.08000
-398.000	399.650	.26911	.17679	-.07953	-.46892	.11445	-.05422	5.14890	-.12885	300.43000

RUN NO. 743/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-298.980	-100.540	.27840	.17585	-.08679	-.45588	.10597	-.05032	5.15510	-.10602	300.38000
-299.590	-1.351	.27833	.17603	-.08668	-.45755	.10702	-.05079	5.18880	-.11125	300.34000
-298.700	99.795	.27809	.17576	-.08640	-.45888	.10798	-.05103	5.15170	-.12587	300.04000
-298.450	199.750	.27567	.17529	-.08483	-.46177	.11007	-.05180	5.14980	-.12653	300.13000
-298.930	399.470	.26925	.17696	-.07958	-.46921	.11450	-.05424	5.15500	-.10943	300.34000

RUN NO. 744/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-197.060	-98.848	.27716	.17556	-.08571	-.44574	.10089	-.05030	5.08640	-.11566	300.06000
-198.660	-.376	.27869	.17498	-.08716	-.45111	.10432	-.05046	5.15190	-.11261	300.25000
-198.930	99.541	.27793	.17562	-.08622	-.45342	.10556	-.05094	5.14800	-.10763	300.22000
-198.550	199.690	.27633	.17549	-.08510	-.45527	.10651	-.05175	5.15220	-.11233	300.27000
-200.950	400.850	.27004	.17582	-.08027	-.46787	.11370	-.05397	5.10320	-.01397	300.04000

RUN NO. 745/ 0 RN/L = 4.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-96.497	-98.223	.26446	.17356	-.07895	-.44040	.10585	-.05418	5.05860	-.14721	299.73000
-98.156	-.274	.26977	.17344	-.08286	-.44376	.10665	-.05320	5.14010	-.11398	300.41000
-101.920	98.447	.27596	.17527	-.08565	-.44933	.10676	-.05246	5.18810	-.01898	300.57000
-102.420	198.260	.27619	.17470	-.08480	-.45236	.10699	-.05254	5.19810	.00373	300.51000
-99.017	399.690	.27153	.17546	-.08181	-.46152	.11028	-.05332	5.14520	-.10678	300.16000

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU250) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = 10.000 BETA = 15.800
DALPHA = 5.200 DBETA = -.100
X = .000

RUN NO. 749/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-398.310	-100.450	.27620	.17535	-.08518	-.46234	.10990	-.05143	5.14840	-.14148	.25839
-400.550	-.484	.27671	.17524	-.08557	-.46328	.11072	-.05144	5.15880	-.05575	.18210
-399.190	100.370	.27548	.17526	-.08457	-.46551	.11219	-.05197	5.12300	-.11220	.21726
-398.960	199.580	.27084	.17610	-.08102	-.45796	.11388	-.05345	5.15420	-.11045	.20367
-398.720	399.640	.26896	.17677	-.07947	-.46902	.11448	-.05422	5.15100	-.11265	.27347

RUN NO. 748/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-297.260	-99.883	.28089	.17640	-.08867	-.44626	.10036	-.04856	5.14550	-.15663	.05359
-296.640	-.599	.28251	.17626	-.08982	-.44687	.10081	-.04836	5.17750	-.18360	.21356
-298.890	98.411	.28099	.17526	-.08886	-.45410	.10514	-.04991	5.20840	-.06892	.25012
-298.440	199.560	.27602	.17509	-.08522	-.46127	.10965	-.05160	5.15580	-.12370	.18479
-297.340	398.970	.26983	.17638	-.08014	-.46847	.11415	-.05390	5.17340	-.17129	.27727

RUN NO. 747/ 0 RN/L = 4.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-197.740	-100.260	.27742	.17607	-.08897	-.42840	.09612	-.04817	5.14050	-.13262	.35044
-200.100	-1.202	.28148	.17600	-.09256	-.43199	.09897	-.04718	5.18160	-.08558	.32710
-198.320	99.644	.28425	.17600	-.09360	-.43558	.09982	-.04741	5.15160	-.12343	.22840
-201.090	201.480	.28664	.17484	-.09284	-.44624	.10222	-.04858	5.07610	-.04126	.34136
-198.820	399.670	.27159	.17583	-.08154	-.46555	.11248	-.05333	5.14860	-.10955	.34593

RUN NO. 746/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-98.426	-99.035	.26112	.17489	-.08327	-.42400	.10258	-.05180	5.07650	-.[illegible]3244	-.02420
-98.515	-.626	.27142	.17547	-.08690	-.43002	.10413	-.05070	5.14080	-.10191	.38928
-99.516	99.410	.28103	.17618	-.08932	-.42935	.10292	-.04986	5.14170	-.07569	.26261
-98.495	199.870	.29405	.17720	-.09538	-.42874	.10033	-.04910	5.13600	-.11333	-.04052
-98.917	399.480	.27258	.17591	-.08217	-.46081	.10967	-.05310	5.15360	-.11434	.77929

```
                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.               (RTU251)    ( 03 OCT 74  )

            REFERENCE DATA                                                                PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                            MACH   =     4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =       0000 IN. YT                            ALPHA  =    10.000   BETA   =    15.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                            DALPHA =    -4.900   DBETA  =     -.100
SCALE =      .0100                                                               X      =      .000

                       RUN NO.   750/ 0    RN/L =   4.01

     Y          Z         CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA       X
   -98.476   199.720    .28688     .17633    -.09184   -.42454    .09943    -.04846   -4.86440   -.10375     .42598
   -98.676   399.740    .27838     .17479    -.08631   -.45176    .10489    -.05210   -4.86400   -.11009     .38008

                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.               (RTU252)    ( 03 OCT 74  )

            REFERENCE DATA                                                                PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                            MACH   =     4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                            ALPHA  =    10.000   BETA   =    15.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                            DALPHA =    -4.900   DBETA  =     -.100
SCALE =      .0100                                                               X      =   300.000

                       RUN NO.   754/ 0    RN/L =   4.01

     Y          Z         CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA       X
  -398.590    99.751    .27553     .17570    -.08466   -.46598    .11225    -.05202   -4.84910   -.12690  300.19000
  -399.380   200.560    .27336     .17562    -.08302   -.46715    .11328    -.05258   -4.88280   -.12159  300.35000
  -398.920   399.770    .26887     .17662    -.07943   -.46849    .11432    -.05415   -4.85410   -.11043  300.20000

                       RUN NO.   753/ 0    RN/L =   4.00

     Y          Z         CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA       X
  -298.520    99.682    .27851     .17591    -.08690   -.45891    .10799    -.05069   -4 85080   -.11117  300.47000
  -299.040   199.980    .27693     .17509    -.08593   -.46005    .10897    -.05119   -4.85560   -.10821  300.17000
  -297.280   398.820    .26929     .17636    -.07959   -.46920    .11443    -.05426   -4.81980   -.17972  300.14000

                       RUN NO.   752/ 0    RN/L =   4.01

     Y          Z         CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA       X
  -200.450    99.921    .27979     .17505    -.08762   -.45254    .10488    -.05028   -4.86070   -.05898  300.47000
  -198.340   199.870    .27854     .17513    -.08670   -.45371    .10550    -.05091   -4.85410   -.12863  300.56000
  -198.600   399.830    .27201     .17487    -.08215   -.46386    .11159    -.05306   -4.85560   -.11837  300.12000

                       RUN NO.   751/ 0    RN/L =   4.01

     Y          Z         CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA       X
   -98.871    99.746    .27402     .17399    -.08455   -.45017    .10750    -.05272   -4.86000   -.10691  300.17000
   -99.517   199.850    .27858     .17420    -.08707   -.44882    .10528    -.05178   -4.86240   -.08967  300.22000
  -100.920   400.910    .27505     .17483    -.08428   -.45548    .10698    -.05253   -4.91270   -.00009  300.48000
```

```
                                AEDC/VA520(IA87)-O1ET181-ORB/ET W L/H SRB SEPAR.          (RTU253)    ( 03 OCT 74  )

          REFERENCE DATA                                                                   PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =     4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                          ALPHA  =    10.000   BETA   =    15.800
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA =      .200   DBETA  =     3.900
SCALE =       .0100                                                            X      =      .000

                         RUN NO.   755/ 0     RN/L =    4.00

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -397.520   -100.680    .27896     .17418    -.08763    -.45437     .10476    -.04941     .19114    3.84570    .17254
  -398.020      -.483    .27920     .17389    -.08787    -.45585     .10602    -.05002     .16412    3.90030    .30996
  -397.940     99.227    .27825     .17354    -.08745    -.45804     .10802    -.05040     .17158    3.87340    .21472
  -397.470    199.730    .27643     .17404    -.08557    -.46335     .11098    -.05148     .14887    3.85920    .56910
  -398.470    399.650    .26923     .17662    -.07958    -.46900     .11443    -.05421     .14870    3.88660    .56301

                         RUN NO.   756/ 0     RN/L =    4.01

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -298.680   -100.020    .28073     .17541    -.08864    -.43769     .09601    -.04796     .14956    3.90320    .16662
  -300.360      -.380    .28593     .17535    -.09267    -.43669     .09521    -.04656     .13833    3.96270    .42092
  -300.050    100.480    .28871     .17377    -.09469    -.44262     .09853    -.04703     .10636    3.86790    .25338
  -299.110    200.370    .28451     .17318    -.09171    -.45173     .10418    -.04948     .11724    3.84710    .33816
  -298.990    399.640    .27135     .17494    -.08150    -.46664     .11312    -.05325     .14954    3.88930    .23931

                         RUN NO.   757/ 0     RN/L =    4.01

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -199.020   -100.190    .28418     .17505    -.09510    -.42022     .09306    -.04596     .14037    3.89390    .24734
  -199.030      -.103    .27935     .17573    -.09168    -.42077     .09458    -.04744     .14005    3.90570    .37652
  -198.370     99.895    .28621     .17459    -.09610    -.42106     .09396    -.04656     .13722    3.88930    .41552
  -198.320    199.840    .29485     .17436    -.09945    -.42779     .09417    -.04646     .14321    3.87670    .09300
  -200.110    400.460    .27234     .17388    -.08263    -.46063     .10987    -.05281     .12458    3.93360    .25683

                         RUN NO.   758/ 0     RN/L =    4.01

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   -99.308   -100.480    .27381     .17723    -.09219    -.40160     .09038    -.04867     .12463    3.91480    .19710
   -97.154     -1.978    .26234     .17559    -.07997    -.41616     .09971    -.05349     .13662    3.67960   -.03536
   -98.892    100.015    .27862     .17578    -.08404    -.41009     .09696    -.05413     .10305    3.90010    .07920
   -98.873    199.930    .29069     .17752    -.08882    -.40968     .09469    -.05162     .10686    3.83270   -.04592
   -99.957    399.770    .27905     .17480    -.08654    -.45090     .10432    -.05248     .13531    3.90770   -.03988
```

```
DATE 20 MAY 75                              IA87 TABULATED SOURCE DATA                                         PAGE  209

                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.              (RTU254)    ( 03 OCT 74  )

               REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                                 MACH   =      4.520   PTOTL  =     60.400
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YT                                ALPHA  =     10.000   BETA   =     15.800
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                                 DALPHA =       .200   DBETA  =      3.900
SCALE =        .0100                                                                   X      =   300.000

                         RUN NO.  762/ 0    RN/L =   4.01

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -397.780   -100.210     .27671     .17508    -.08571    -.46021     .10850    -.05080     .15461    3.85310  300.35000
   -399.880      -.427     .27714     .17496    -.08602    -.46064     .10903    -.05090     .13501    3.89330  300.46000
   -400.520    100.030     .27739     .17476    -.08617    -.46275     .11045    -.05123     .14322    3.90490  300.51000
   -400.940    200.640     .27491     .17459    -.08441    -.46546     .11232    -.05196     .11109    3.93670  300.30000
   -398.860    399.630     .26910     .17672    -.07952    -.46903     .11448    -.05424     .14670    3.88930  300.26000

                         RUN NO.  761/ 0    RN/L =   4.01

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -297.580    -99.279     .27897     .17444    -.08729    -.45031     .10284    -.04994     .13924    3.84780  300.23000
   -295.290       .655     .28096     .17386    -.08904    -.45232     .10409    -.04971     .12560    3.83670  300.07000
   -299.260     99.634     .27993     .17405    -.08827    -.45444     .10545    -.05022     .15314    3.90370  300.41000
   -298.840    199.940     .27872     .17407    -.08735    -.45710     .10722    -.05081     .14494    3.88790  300.33000
   -297.320    398.250     .26908     .17601    -.07955    -.46895     .11433    -.05426     .19465    3.81540  299.87000

                         RUN NO.  760/ 0    RN/L =   4.01

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -201.290   -102.200     .28347     .17536    -.09066    -.43810     .09677    -.04837     .21097    3.97000  300.79000
   -198.720     -2.300     .28235     .17386    -.08992    -.44267     .09998    -.05009     .18791    3.87740  300.11000
   -201.260     99.009     .28591     .17326    -.09209    -.44496     .10084    -.04960     .15286    3.95980  300.29000
   -199.250    199.850     .28170     .17397    -.06910    -.44852     .10279    -.05033     .13996    3.88540  300.02000
   -198.350    399.750     .27147     .17448    -.08178    -.46396     .11163    -.05326     .14565    3.87470  300.28000

                         RUN NO.  759/ 0    RN/L =   4.01

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
    -99.814    -97.284     .27439     .17419    -.08663    -.43373     .10155    -.05179     .04584    3.89680  299.96000
    -98.369      1.666     .26807     .17451    -.08190    -.43512     .10311    -.05358     .07720    3.85760  299.80000
    -99.025     99.776     .28128     .17588    -.08879    -.43645     .10119    -.05259     .13204    3.89670  300.24000
    -99.170    199.765     .28452     .17562    -.09083    -.44005     .10087    -.05152     .13263    3.90370  300.33000
    -99.215    399.745     .27476     .17445    -.08406    -.45529     .10683    -.05265     .14090    3.88700  300.01000
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU255) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = 10.000 BETA = 15.800
DALFHA = 5.200 DBETA = 3.900
X = 300.000

RUN NO. 763/ 0 RN/L = 4.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-396.850	-99.509	.27650	.17487	-.08552	-.45969	.10816	-.05093	5.12050	3.85230	300.00000
-398.560	-.364	.27755	.17509	-.08623	-.46105	.10904	-.05105	5.15770	3.88320	300.46000
-399.010	99.718	.27712	.17465	-.08597	-.46322	.11069	-.05138	5.15720	3.88900	300.33000
-398.450	199.830	.27387	.17481	-.08357	-.46636	.11281	-.05234	5.16040	3.87550	300.10000
-398.990	399.800	.26905	.17666	-.07950	-.46892	.11445	-.05421	5.14910	3.88660	300.15000

RUN NO. 764/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-299.020	-100.340	.27934	.17321	-.08781	-.44861	.10206	-.04980	5.14670	3.89560	300.19000
-300.040	-1.706	.28017	.17390	-.08840	-.45196	.10405	-.04985	5.20010	3.84250	300.43000
-298.450	99.737	.27961	.17445	-.08798	-.45465	.10564	-.05041	5.15240	3.87570	300.22000
-298.330	199.660	.27764	.17432	-.08659	-.45820	.10789	-.05115	5.15910	3.86950	300.12000
-298.800	399.590	.26924	.17655	-.07959	-.46899	.11443	-.05422	5.14840	3.88690	300.50000

RUN NO. 765/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-197.250	-98.482	.27636	.17450	-.08542	-.43746	.09717	-.05094	5.09420	3.91690	299.82000
-199.390	-.263	.28595	.17325	-.09231	-.44072	.09881	-.04978	5.14730	3.89510	300.17000
-199.290	99.500	.28431	.17364	-.09106	-.44774	.10267	-.05000	5.15080	3.89360	300.24000
-199.670	199.740	.28039	.17476	-.08807	-.45018	.10366	-.05076	5.15060	[illegible]	300.21000
-201.580	400.920	.27032	.17492	-.08084	-.46591	.11279	-.05359	5.10570	[illegible]	300.17000

RUN NO. 766/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-98.747	-100.240	.26605	.17378	-.08028	-.43285	.10268	-.05408	5.12690	3.89740	300.33000
-99.171	-.230	.27078	.17537	-.08313	-.43334	.10281	-.05386	5.13260	3.90360	300.15000
-103.920	98.342	.28190	.17566	-.08939	-.43809	.10153	-.05206	5.18350	4.01990	301.06000
-99.291	199.840	.28076	.17563	-.08832	-.44434	.10330	-.05191	5.12680	3.89120	299.99000
-99.229	399.860	.27303	.17501	-.08288	-.45795	.10825	-.05289	5.14470	3.89160	300.09000

```
                         AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.               (RTU256)    ( 03 OCT 74  )

              REFERENCE DATA                                                                PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                         MACH   =      4.520   PTOTL  =     60.400
 LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                         ALPHA  =     10.000   BETA   =     15.800
 BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                         CALPHA =      5.200   CBETA  =      3.900
 SCALE =       .0100                                                           X      =       .000

                         RUN NO.  770/ 0    RN/L =   4.01

    Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
 -398.220   -100.470    .27888     .17349    -.08763    -.45377     .10483    -.04985    5.14500    3.82300    .58668
 -399.850     -.489     .28005     .17372    -.08847    -.45593     .10655    -.05004    5.15880    3.89580    .39334
 -400.450    100.110    .27830     .17383    -.08714    -.45984     .10902    -.05078    5.13030    3.93000    .34916
 -398.510    200.510    .27477     .17439    -.08429    -.46523     .11211    -.05206    5.11470    3.83840    .21327
 -399.230    399.670    .26903     .17658    -.07951    -.46876     .11437    -.05419    5.14700    3.89100    .66656

                         RUN NO.  769/ 0    RN/L =   4.01

    Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
 -297.710    -99.915    .28262     .17510    -.09027    -.43207     .09298    -.04715    5.14300    3.91560    .07345
 -296.280     -.406     .28869     .17507    -.09490    -.43600     .09512    -.04611    5.17070    3.82470   -.01644
 -297.230     98.506    .28957     .17417    -.09521    -.44361     .09912    -.04738    5.21880    3.85710    .33686
 -298.190    199.690    .28134     .17354    -.08925    -.45424     .10575    -.05039    5.15360    3.87170    .23057
 -297.400    398.780    .27131     .17567    -.08128    -.46756     .11358    -.05346    5.18090    3.81790    .62942

                         RUN NO.  768/ 0    RN/L =   4.01

    Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
 -198.240   -100.060    .27337     .17566    -.08718    -.41203     .09078    -.04910    5.12530    3.87920    .04435
 -200.170     -1.291    .28139     .17519    -.09348    -.41640     .09308    -.04703    5.15930    3.86670    .58867
 -203.300     99.522    .28755     .17514    -.09654    -.42123     .09404    -.04654    5.14360    4.01030   1.25330
 -198.400    199.650    .29390     .17458    -.09837    -.43206     .09601    -.04706    5.13710    3.87900    .70605
 -198.830    399.420    .27209     .17519    -.08209    -.46379     .11143    -.05318    5.15320    3.89250   1.05810

                         RUN NO.  767/ 0    RN/L =   4.00

    Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -99.173    -98.932    .25928     .17614    -.08141    -.40981     .09905    -.05314    5.11490    3.98560   -.04425
  -99.300     -.676     .27242     .17629    -.08313    -.41342     .10036    -.05457    5.12800    3.92120    .67431
 -100.110     99.186    .28288     .17616    -.08563    -.41375     .09915    -.05373    5.13190    3.94110    .81537
  -99.079    199.890    .29364     .17743    -.09161    -.41681     .09759    -.05020    5.12630    3.89930    .35438
  -99.278    399.470    .27443     .17532    -.08351    -.45618     .10724    -.05298    5.14810    3.88930    .59965
```

AEDC/VA528(IA87)-O1ET151-ORB/ET W L/H SRB SEPAR. (RTU257) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = 10.000 BETA = 15.800
DALPHA = -4.900 DBETA = 3.900
X = .000

RUN NO. 771/ 0 RN/L = 4.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-398.420	98.995	.27923	.17388	-.08788	-.45790	.10733	-.05015	-4.81090	3.91100	.10406
-399.480	199.080	.27792	.17353	-.08705	-.46105	.10961	-.05079	-4.82600	3.96550	.16493
-399.390	399.670	.26874	.17577	-.07941	-.46874	.11426	-.05421	-4.85510	3.89970	.17065

RUN NO. 772/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-299.600	99.593	.28973	.17469	-.09554	-.44020	.09691	-.04611	-4.81760	3.93870	.07064
-299.890	201.070	.28879	.17241	-.09485	-.44892	.10221	-.04814	-4.92230	3.89110	.51605
-298.550	395.720	.27240	.17331	-.08273	-.46273	.11102	-.05249	-4.85690	3.88420	.40506

RUN NO. 773/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-199.800	99.923	.28236	.17530	-.09398	-.42272	.09496	-.04660	-4.86810	3.90580	.03909
-199.240	199.980	.29440	.17429	-.09988	-.42410	.09273	-.04583	-4.86360	3.88730	.05714
-200.7[illegible]3	400.630	.27720	.17331	-.08629	-.45298	.10575	-.05154	-4.88390	3.92240	.13787

RUN NO. 774/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-99.863	99.553	.26898	.17619	-.08058	-.40930	.09570	-.05291	-4.87910	[illegible]	.15733
-99.028	200.010	.28748	.17456	-.08727	-.40079	.09121	-.05320	-4.90330	[illegible]	-.24695
-99.479	399.820	.29051	.17366	-.09395	-.43799	.09755	-.05084	-4.86640	[illegible]	.01689

```
DATE 20 MAY 75                                   IA87 TABULATED SOURCE DATA

                                      AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/M SRB SEPAR.          (RTU258)    ( 03 OCT 74  )

                   REFERENCE DATA                                                                           PARAMETRIC DATA

  SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                                   MACH   =      4.520   PTOTL  =     60.400
  LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YT                                  ALPHA  =     10.000   BETA   =     15.800
  BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                                   DALPHA =     -4.900   DBETA  =      3.900
  SCALE =       .0100                                                                      X      =    300.000

                                  RUN NO.   778/ 0    RN/L =   4.01

     Y           Z          CN          CA          CLM          CY          CYN         CBL        DLTALF      DLTBTA     X
  -398.310     99.805      .27764      .17471     -.08641     -.46225      .11007     -.05099     -4.85380    3.86780  300.25000
  -399.920    201.060      .27623      .17437     -.08530     -.46425      .11162     -.05153     -4.90550    3.88030  300.67000
  -398.910    399.750      .26888      .17626     -.07952     -.46823      .11422     -.05413     -4.85690    3.86770  300.30000

                                  RUN NO.   777/ 0    RN/L =   4.01

     Y           Z          CN          CA          CLM          CY          CYN         CBL        DLTALF      DLTBTA     X
  -298.770     99.748      .28208      .17353     -.09006     -.45314      .10472     -.04934     -4.95060    3.88810  300.41000
  -298.900    200.030      .27999      .17362     -.08838     -.45589      .10648     -.05026     -4.85730    3.89030  300.27000
  -298.400    399.780      .26965      .17475     -.08012     -.46719      .11347     -.05382     -4.85610    3.88020  300.47000

                                  RUN NO.   776/ 0    RN/L =   4.00

     Y           Z          CN          CA          CLM          CY          CYN         CBL        DLTALF      DLTBTA     X
  -201.620     99.615      .28548      .17354     -.09192     -.44433      .10047     -.04933     -4.85320    3.98020  300.46000
  -199.190    199.860      .28603      .17301     -.09216     -.44579      .10111     -.04945     -4.85690    3.87590  299.96000
  -199.560    399.630      .27209      .17323     -.08269     -.45912      .10941     -.05267     -4.86010    3.89030  299.94000

                                  RUN NO.   775/ 0    RN/L =   4.02

     Y           Z          CN          CA          CLM          CY          CYN         CBL        DLTALF      DLTBTA     X
   -99.644     99.743      .27603      .17481     -.08594     -.43818      .10173     -.05233     -4.87100    3.90320  300.09000
   -99.771    199.980      .28550      .17546     -.09178     -.43518      .09847     -.05102     -4.07330    3.92240  300.30000
   -99.665    399.370      .27882      .17312     -.08706     -.44979      .10394     -.05181     -4.84730    3.90550  300.12000
```

```
                         AEDC/VA529(IA87)-O1ET151-ORB/ET W L/H SRB SEPAR.                (RTU259)   ( 03 OCT 74  )

               REFERENCE DATA                                                                 PARAMETRIC DATA

SREF   =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                         MACH   =     4.520   PTOTL  =    60.400
LREF   =  1290.3000 INCHES   YMRF  =      .0000 IN. YT                         ALPHA  =    10.000   BETA   =    15.800
BREF   =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                         DALPHA =      .200   DBETA  =     7.900
SCALE  =      .0100                                                            X      =      .000

                                  RUN NO.  779/ 0   RN/L =   4.00

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -398.900   -100.170     .28557     .17240    -.09260    -.44057     .09687    -.04732     .15181    7.88310     .11532
   -398.150     -.891      .29213     .17032    -.09787    -.44272     .09814    -.04655     .19693    7.92420    -.00351
   -399.370     99.348     .29111     .17012    -.09698    -.44885     .10211    -.04764     .17268    7.94380     .08714
   -399.360    199.940     .28321     .17119    -.09111    -.45456     .10634    -.04974     .15311    7.88290    -.13782
   -399.300    399.730     .26891     .17493    -.07956    -.46772     .11373    -.05396     .14801    7.89000     .23505

                                  RUN NO.  780/ 0   RN/L =   4.01

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -299.000    -99.774     .28909     .17435    -.09542    -.41704     .08483    -.04467     .15483    7.88540    -.29373
   -300.990     -.554      .29116     .17406    -.09663    -.42024     .08681    -.04604     .11836    7.98530     .32787
   -301.620    100.630     .30479     .17175    -.10606    -.42340     .08776    -.04435     .08235    7.89150     .39869
   -300.960    200.460     .29803     .17161    -.10144    -.43344     .09405    -.04632     .11322    7.87170     .28186
   -300.710    399.680     .27153     .17296    -.08210    -.46228     .11079    -.05271     .14793    7.91150     .36881

                                  RUN NO.  781/ 0   RN/L =   4.01

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -198.860    -98.339     .29150     .17545    -.10069    -.39126     .07899    -.04530     .10231    7.85400    -.04762
   -199.410     -.259      .27668     .17608    -.09055    -.39417     .08303    -.04825     .11961    7.91850     .17311
   -199.850     99.824     .29371     .17595    -.09913    -.39327     .08127    -.04732     .11559    7.92000     .06990
   -199.410    199.880     .30388     .17544    -.10529    -.40475     .08339    -.04610     .12546    7.89720     .30661
   -201.470    400.560     .27707     .17293    -.08620    -.45215     .10519    -.05180     .12510    7.94350     .48078
```

DATE 20 MAY 75

IA87 TABULATED SOURCE DATA

A_DC/VA520(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.   (RTU260)   (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES   YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES   ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520   PTOTL = 60.400
ALPHA = 10.000   BETA = 15.800
CALPHA = .200   CBETA 7.900
X = 300.000

RUN NO. 784/ 0   RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	CLTALF	CLTBTA	X
-398.770	-100.100	.28162	.17267	-.08985	-.45386	.10465	-.04902	.15196	7.86320	299.95000
-401.400	-.680	.28214	.17175	-.09026	-.45582	.10619	-.04946	.13024	7.95300	300.31000
-401.120	100.070	.27939	.17216	-.08826	-.45740	.10766	-.05016	.13113	7.86800	300.54000
-401.790	200.170	.27642	.17308	-.08577	-.46189	.11032	-.05130	.12934	7.94010	300.49000
-399.700	399.580	.26894	.17648	-.07950	-.46868	.11431	-.05417	.14467	7.89870	300.11000

RUN NO. 783/ 0   RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	CLTALF	CLTBTA	X
-298.340	-98.475	.28121	.17275	-.08950	-.43936	.09695	-.04851	.11167	7.83760	299.94000
-295.200	.299	.28598	.17182	-.09299	-.44218	.09857	-.04859	.16129	7.81850	299.35000
-300.290	99.727	.28963	.17047	-.09570	-.44730	.10139	-.04831	.15293	7.91730	300.21000
-299.800	199.920	.28524	.17199	-.09219	-.45142	.10402	-.04970	.14294	7.99080	300.05000
-298.770	399.640	.26956	.17451	-.08000	-.46721	.11334	-.05389	.14721	7.97940	300.31000

RUN NO. 782/ 0   RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	CLTALF	CLTBTA	X
-200.220	-100.430	.28124	.17511	-.08924	-.42515	.09967	-.04886	.14164	7.92610	300.18000
-199.680	-.140	.28287	.17354	-.08998	-.43229	.09513	-.05092	.13045	7.90400	300.10000
-199.110	99.869	.29288	.17364	-.09666	-.42920	.09259	-.04915	.12899	7.88300	300.04000
-199.960	199.840	.29111	.17278	-.09554	-.43625	.09589	-.04958	.13919	7.87740	299.95000
-199.270	399.810	.27136	.17287	-.08219	-.45883	.10929	-.05286	.14039	7.88760	299.87000

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU261) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = 10.000 BETA = 15.800
CALPHA = 5.200 CBETA = 7.900
X = 300.000

RUN NO. 785/ 0 RN/L = 4.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-397.650	-99.360	.2819.	.17155	-.08998	-.45358	.10463	-.04936	5.12120	7.92740	299.91000
-399.340	-.312	.28049	.17229	-.08900	-.45590	.10636	-.04999	5.15600	7.89390	300.28000
-399.400	99.741	.27881	.17280	-.08784	-.45807	.10806	-.05048	5.15270	7.89000	300.12000
-398.820	199.850	.27564	.17353	-.08505	-.46293	.11085	-.05162	5.15710	7.87450	300.15000
-398.930	399.790	.26891	.17651	-.07950	-.46861	.11432	-.05417	5.14730	7.87860	300.23000

RUN NO. 786/ 0 RN/L = 4.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-299.820	-100.370	.28031	.17288	-.08860	-.43682	.09559	-.04916	5.14620	7.91120	300.20000
-299.360	-.227	.28805	.17097	-.09461	-.44325	.09907	-.04823	5.15280	7.88980	300.28000
-298.810	99.071	.28620	.17220	-.09291	-.44858	.10223	-.04910	5.15140	7.86980	300.04000
-298.750	199.650	.28230	.17270	-.09013	-.45267	.10504	-.05024	5.15680	7.87320	300.07000
-298.520	403.440	.26885	.17563	-.07946	-.46822	.11405	-.05414	5.03390	7.81120	299.82000

RUN NO. 787/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-197.820	-98.105	.27553	.17426	-.08509	-.42749	.09312	-.05151	5.09950	7.92040	299.56000
-199.130	-.242	.29144	.17431	-.09583	-.42623	.09171	-.04970	5.13590	7.90130	300.34000
-199.730	99.591	.29302	.17324	-.09698	-.43302	.09488	-.04901	5.15140	7.90680	300.21000
-200.330	199.670	.28763	.17398	-.09302	-.44147	.09894	-.04972	5.14860	7.92330	300.21000
-201.730	401.220	.27076	.17397	-.08139	-.46309	.11134	-.05321	5.09160	8.00550	300.32000

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU262) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = 10.000 BETA = 15.800
DALPHA = 5.200 DBETA = 7.900
X = .000

RUN NO. 790/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-400.380	-100.200	.28953	.17047	-.09586	-.43975	.09635	-.04683	5.11740	7.87630	.99586
-399.530	-.505	.29014	.17079	-.09628	-.44553	.10005	-.04738	5.15150	7.82560	.81531
-399.620	99.674	.28804	.17163	-.09455	-.45158	.10410	-.04863	5.14770	7.87660	.95681
-400.320	200.460	.27817	.17210	-.08738	-.45859	.10871	-.05091	5.10020	7.90520	.84838
-398.360	399.520	.26870	.17620	-.07938	-.46807	.11414	-.05409	5.17250	7.88320	1.01210

RUN NO. 789/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-298.770	-100.530	.28552	.17419	-.09276	-.41262	.08278	-.04676	5.17580	7.96280	.43299
-296.300	-.058	.30157	.17164	-.10420	-.41581	.08511	-.04503	5.12370	7.84250	.12299
-297.310	98.850	.30369	.17288	-.10507	-.42593	.08977	-.04487	5.19480	7.85060	.30840
-299.120	199.710	.29246	.17274	-.09750	-.43888	.09728	-.04766	5.15310	7.88320	.46346
-297.710	398.660	.27197	.17469	-.08210	-.46563	.11251	-.05298	5.19270	7.81780	.60628

RUN NO. 788/ 0 RN/L = 4.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-198.540	-100.130	.27169	.17602	-.08697	-.39156	.08370	-.05012	5.10420	7.68030	.15063
-201.650	-.795	.28950	.17701	-.09821	-.38926	.08146	-.04786	5.08030	7.91070	.83812
-204.630	99.110	.29607	.17686	-.10046	-.39861	.08430	-.04690	5.13100	8.01600	1.43890
-199.360	199.680	.29990	.17562	-.10247	-.41424	.08791	-.04658	5.14220	7.89660	.49810
-199.180	399.470	.27298	.17401	-.08293	-.45963	.10907	-.05274	5.14950	7.89120	.87605

```
                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.          (RTU263)    ( 03 OCT 74  )

              REFERENCE DATA                                                              PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                      MACH   =     4.520   FTOTL  =    60.400
 LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                     ALPHA  =    10.000   BETA   =    15.800
 BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                      DALPHA =    -4.900   DBETA  =     7.900
 SCALE =       .0100                                                         X      =      .000

                          RUN NO.  791/ 0    RN/L =   4.01

      Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA       X
   -397.880    98.458     .29460     .17023    -.09982    -.44578    .09992    -.04631   -4.76330    7.88180    -.13566
   -399.390   199.910     .29021     .16955    -.09631    -.45088    .10380    -.04803   -4.84990    7.87860     .04795
   -399.240   399.720     .27141     .17268    -.08204    -.46392    .11148    -.05258   -4.85240    7.88530     .16735

                          RUN NO.  792/ 0    RN/L =   4.01

      Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA       X
   -299.070   100.090     .29761     .17353    -.10125    -.42268    .08837    -.04504   -4.85600    7.91180    -.14483
   -302.420   200.990     .30625     .17118    -.10746    -.42434    .08879    -.04445   -4.92220    7.95550     .58558
   -299.750   399.780     .27609     .17100    -.08607    -.45249    .10576    -.05123   -4.85810    7.90020     .19191

                          RUN NO.  793/ 0    RN/L =   4.01

      Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA       X
   -199.520    99.824     .28573     .17621    -.09490    -.39082    .07952    -.04653   -4.88420    7.91930     .19210
   -199.280   200.080     .30245     .17471    -.10386    -.39448    .07867    -.04655   -4.89110    7.89720    -.09005
   -200.930   401.190     .29074     .17112    -.09587    -.43735    .09641    -.04912   -4.90150    7.93750     .25691

                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.          (RTU264)    ( 03 OCT 74  )

              REFERENCE DATA                                                              PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.   XMRP  =  1597.0000 IN. XT                      MACH   =     4.520   FTOTL  =    60.400
 LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                     ALPHA  =    10.000   BETA   =    15.800
 BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                      DALPHA =    -4.900   DBETA  =     7.900
 SCALE =       .0100                                                         X      =   300.000

                          RUN NO.  796/ 0    RN/L =   4.00

      Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA       X
   -398.820    99.898     .28236     .17155    -.09060    -.45651    .10685    -.04945   -4.85530    7.86770  299.97000
   -401.210   201.070     .27827     .17189    -.08732    -.46016    .10916    -.05061   -4.91310    7.88200  300.57000
   -399.980   399.820     .26853     .17530    -.07935    -.46795    .11393    -.05405   -4.85650    7.90300  300.02000

                          RUN NO.  795/ 0    RN/L =   4.01

      Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA       X
   -299.860    99.838     .29185     .17143    -.09725    -.44510    .10007    -.04785   -4.85250    7.91020  300.34000
   -299.520   200.110     .28992     .17025    -.09572    -.44809    .10216    -.04855   -4.85190    7.89500  300.15000
   -299.840   399.850     .27081     .17275    -.08151    -.46296    .11118    -.05282   -4.85350    7.89660  300.04000
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU264) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = 10.000 BETA = 15.800
DALPHA = -4.900 DBETA = 7.900
X = 300.000

RUN NO. 794/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-199.860	99.795	.29001	.17365	-.09468	-.43212	.09444	-.04946	-4.86370	7.91780	300.36000
-198.970	200.080	.29490	.17325	-.09827	-.42954	.09207	-.04838	-4.86880	7.87240	299.89000
-199.200	399.930	.27542	.17181	-.08531	-.45276	.10579	-.05180	-4.85750	7.88870	299.94000

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU265) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = 10.000 BETA = 15.800
DALPHA = -4.900 DBETA = -.100
X = .000

RUN NO. 797/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-398.710	99.612	.27541	.17555	-.08471	-.46537	.11199	-.05186	-4.84740	-.10192	.15812
-399.010	199.100	.27385	.17556	-.08348	-.46739	.11320	-.05241	-4.82520	-.07613	.23142
-398.610	399.620	.26894	.17644	-.07951	-.46866	.11432	-.05415	-4.85620	-.11473	.43482

RUN NO. 798/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-299.710	99.346	.28073	.17566	-.08880	-.45348	.10460	-.04957	-4.81350	-.04747	.13147
-299.090	200.870	.27917	.17520	-.08742	-.45808	.10756	-.05051	-4.90890	-.13516	.32251
-298.900	399.690	.27031	.17543	-.08073	-.46792	.11373	-.05359	-4.85260	-.11274	.23873

RUN NO. 799/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-199.180	99.908	.28361	.17557	-.09361	-.43704	.10032	-.04673	-4.85800	-.10448	.25989
-197.730	199.800	.29041	.17487	-.09645	-.44141	.10025	-.04685	-4.85060	-.13505	.44517
-200.130	400.630	.27277	.17418	-.08296	-.46187	.11047	-.05263	-4.88200	-.06969	.21500

RUN NO. 800/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-99.916	99.637	.27729	.17493	-.08948	-.43257	.10360	-.04922	-4.85730	-.07951	.14445
-97.951	199.690	.28844	.17576	-.09327	-.42328	.09873	-.04794	-4.86500	-.13126	.08076
-98.973	399.700	.27804	.17452	-.08621	-.45164	.10488	-.05200	-4.85980	-.10533	.20636

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU266) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = -.500 BETA = 15.700
DALPHA = .200 CBETA = .000
X = .000

RUN NO. 804/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
10.586	-100.200	-.03301	.21150	.00348	-.53337	.13607	-.06022	.21936	-.00180	.15511
11.619	2.653	-.03744	.21140	.00991	-.52856	.13347	-.05773	.12814	-.08891	-.07493
10.956	99.707	-.03406	.21421	.00759	-.53651	.13991	-.06167	.21294	-.01541	.18693
11.461	199.450	-.02457	.21556	.00338	-.55948	.15756	-.06374	.23157	-.02067	.22763
10.366	399.900	-.02833	.21468	.00609	-.54420	.15638	-.05679	.23455	-.00193	-.01435

RUN NO. 803/ 0 RN/L = 4.03

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
99.494	-99.363	-.03857	.20632	.00859	-.51713	.13582	-.06029	.17046	.04760	.18325
102.080	-.746	-.04207	.21421	.01323	-.52496	.14287	-.05981	.24469	-.04801	.22515
102.080	99.389	-.03165	.21566	.00580	-.53156	.14808	-.06295	.24313	-.03175	.22003

RUN NO. 802/ 0 RN/L = 4.03

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
202.770	-99.998	-.06247	.20566	.02702	-.52002	.13655	-.05333	.22181	-.03275	.22419
200.240	-.619	-.04531	.21449	.01610	-.52607	.14412	-.05930	.24758	.02092	-.04666
199.870	100.040	-.03609	.21759	.00966	-.53533	.15085	-.06167	.18889	-.00127	.04387
200.640	200.390	-.02055	.21850	-.00120	-.54276	.15561	-.06307	.19795	-.04121	.20803
199.600	399.990	-.03114	.21447	.00633	-.54092	.15591	-.05695	.22184	-.00327	.10617

RUN NO. 801/ 0 RN/L = 4.03

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.550	-99.990	-.04365	.21445	.01420	-.54179	.15595	-.05876	.21422	-.00174	.08004
399.880	-.286	-.04767	.21581	.01737	-.54597	.15980	-.05786	.22566	.01938	-.05479
399.950	99.643	-.03667	.21681	.00975	-.54490	.15974	-.05820	.21760	.01610	-.09067
400.250	200.000	-.02090	.21613	-.00202	-.54370	.15859	-.06063	.22519	.01626	.04132
400.280	400.030	-.03287	.21406	.00656	-.53356	.15236	-.05710	.21991	.00777	.25133

```
                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.            (RTU267)   ( 03 OCT 74  )

          REFERENCE DATA                                                              PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                     MACH   =     4.520   PTOTL  =     60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                     ALPHA  =     -.500   BETA   =     15.700
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                     DALPHA =      .200   DBETA  =       .000
SCALE =       .0100                                                       X      =   300.000

                     RUN NO.   805/ 0    RN/L =   4.01

     Y          Z         CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   12.231   -102.560    -.03579     .21096     .00668    -.54186     .14509    -.05952     .30696    -.04752  300.12000
   10.327      -.047    -.03755     .21278     .01065    -.54265     .14864    -.06203     .21591     .00105  300.02000
   11.811     98.035    -.02821     .21657     .00514    -.54940     .15489    -.06377     .26893    -.07979  299.97000
    9.417    199.630     .00337     .21716    -.01575    -.55648     .15958    -.06618     .21679     .02556  299.88000
   10.562    401.260    -.02750     .21467     .00370    -.53658     .15392    -.05696     .16929     .00339  300.06000

                     RUN NO.   806/ 0    RN/L =   4.02

     Y          Z         CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   99.683    -99.678    -.03967     .20888     .01028    -.53672     .14600    -.05989     .18107     .09811  300.18000
  100.940      1.183    -.03376     .21594     .00896    -.54485     .15329    -.06264     .17419    -.04505  299.95000
   98.603    100.170    -.01897     .22030    -.00091    -.54934     .15850    -.06416     .22944     .04889  300.00000
   99.988    199.620    -.01100     .21487    -.00898    -.54561     .15692    -.06278     .21710     .01022  299.95000
  100.520    399.900    -.02938     .21452     .00442    -.53583     .15359    -.05704     .22521    -.00568  300.00000

                     RUN NO.   807/ 0    RN/L =   4.02

     Y          Z         CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  200.280    -99.529    -.05417     .21243     .02164    -.53839     .15270    -.05664     .18984     .01753  300.18000
  201.640       .274    -.03838     .21720     .01096    -.54366     .15777    -.06020     .20452    -.04868  300.23000
  201.440     99.601    -.02189     .21861    -.00064    -.54314     .15810    -.06185     .23428    -.01548  300.19000
  201.720    199.760    -.01428     .21400    -.00772    -.54145     .15643    -.06193     .23643     .00855  300.30000
  199.550    400.380    -.03230     .21421     .00613    -.53283     .15167    -.05722     .19219     .02695  300.28000

                     RUN NO.   808/ 0    RN/L =   4.02

     Y          Z         CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  396.840   -100.530    -.04293     .21330     .01382    -.53956     .15707    -.05690     .22899     .09050  299.97000
  400.820      -.092    -.03795     .21449     .01042    -.53577     .15429    -.05662     .23986    -.02729  300.10000
  401.030     99.783    -.02591     .21531     .00145    -.53483     .15385    -.05954     .23935    -.02784  300.12000
  400.610    199.850    -.02648     .21371     .00127    -.53119     .15078    -.05983     .21450    -.03329  300.00000
  400.870    399.700    -.03580     .21452     .00868    -.52851     .14881    -.05729     .21702    -.03010  300.20000
```

```
                                AEDC/VA528(IA87)-01ET151-ORB/ET W R/H SRB SEPAR.            (RTU268)   ( 03 OCT 74  )

               REFERENCE DATA                                                                 PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =     4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                          ALPHA  =     -.500   BETA   =    15.700
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          CALPHA =     5.200   CBETA  =      .000
SCALE =      .0100                                                             X      =   300.000

                        RUN NO.  812/ 0    RN/L =   4.02

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   10.370   -100.590   -.04560     .21046     .01453    -.53506     .13950    -.05703    5.21780     .00293  300.16000
   10.009      2.063   -.04168     .21262     .01449    -.53419     .14455    -.06033    5.13520     .03954  299.94000
   10.858     99.766   -.02594     .21880     .00459    -.54287     .15282    -.06294    5.21050    -.01316  300.17000
    8.961    201.620   -.01022     .21521    -.00828    -.54645     .15464    -.06302    5.12780     .06474  299.90000
    7.557    397.050   -.02918     .21477     .00444    -.53378     .15226    -.05708    5.29360     .10281  300.30000

                        RUN NO.  811/ 0    RN/L =   4.02

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  100.290   -101.030   -.04459     .21215     .01563    -.53630     .14518    -.05842    5.23150    -.00283  300.24000
  102.130     -1.877   -.03545     .21632     .01061    -.54092     .15132    -.06099    5.28720    -.07681  300.46000
  100.550     99.804   -.01911     .21915    -.00083    -.54339     .15533    -.06270    5.21260    -.00605  300.16000
  100.550    199.880   -.01940     .21424    -.00356    -.54003     .15409    -.06090    5.21100    -.00671  300.17000
  101.620    399.860   -.03080     .21458     .00524    -.53310     .15172    -.05717    5.20910    -.04130  300.20000

                        RUN NO.  810/ 0    RN/L =   4.02

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  203.060    -99.067   -.04556     .21350     .01582    -.53937     .15364    -.05796    5.21110    -.07501  300.00000
  200.740      -.806   -.03745     .21626     .01039    -.53921     .15498    -.05873    5.26150    -.00675  300.21000
  200.340     99.752   -.01926     .21781    -.00252    -.53953     .15569    -.06186    5.21660     .01606  300.31000
  200.050    199.800   -.02250     .21377    -.00180    -.53795     .15448    -.05994    5.18380    -.00831  300.02000
  199.380    399.630   -.03424     .21433     .00745    -.53011     .14987    -.05726    5.19860    -.00193  300.17000

                        RUN NO.  809/ 0    RN/L =   4.02

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  400.220   -100.070   -.04147     .21322     .01275    -.53817     .15580    -.05636    5.22010     .01556  300.06000
  399.520      -.395   -.03714     .21480     .00972    -.53507     .15335    -.05647    5.27200     .04381  300.03000
  400.380     99.835   -.02528     .21538     .00088    -.53418     .15315    -.05997    5.22100     .01394  300.12000
  400.180    199.730   -.03350     .21413     .00667    -.52986     .14952    -.05800    5.21370     .00883  300.03000
  400.450    399.830   -.03580     .21457     .00870    -.52854     .14883    -.05730    5.21710    -.00258  300.10000
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU269) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = -.500 BETA = 15.700
DALPHA = 5.200 DBETA = .000
X = .000

RUN NO. 813/ 0 RN/L = 4.02

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
10.936	-99.935	-.05241	.21314	.01930	-.52527	.13061	-.05604	5.21040	-.01043	.09776
10.486	.204	-.04304	.21170	.01496	-.51984	.13029	-.05640	5.19790	.00020	.01065
10.666	99.837	-.03960	.21309	.01173	-.53288	.14109	-.06011	5.21170	-.00272	.30622
10.390	200.030	-.02595	.21642	.00420	-.54944	.15492	-.06229	5.20260	-.01250	.07980
9.788	399.000	-.03024	.21451	.00696	-.53901	.15440	-.05666	5.25550	.03473	.26319

RUN NO. 814/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.610	-100.080	-.05517	.21002	.02195	-.51785	.13639	-.05659	5.20500	-.00688	.04335
101.170	1.089	-.03975	.21487	.01203	-.52052	.14064	-.05922	5.16250	.00419	-.09678
99.557	101.050	-.03478	.21588	.00802	-.52944	.14771	-.06174	5.13300	.04327	.01590
99.428	199.530	-.02732	.21854	.00340	-.53837	.15304	-.06175	5.19990	.04354	.34894
97.162	399.010	-.03136	.21502	.00697	-.53970	.15491	-.05690	5.24020	.10270	.26549

RUN NO. 815/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.810	-100.210	-.05182	.21083	.02064	-.52108	.13841	-.05569	5.22190	-.02535	.13669
200.430	-.700	-.04193	.21461	.01421	-.52342	.14303	-.05904	5.25520	-.00365	.32076
200.670	99.757	-.03803	.21756	.01136	-.53113	.14935	-.06010	5.21560	-.01478	.08940
201.260	199.820	-.02257	.21732	.00008	-.53710	.15305	-.06191	5.22430	-.00232	.29207
200.500	399.670	-.03128	.21480	.00628	-.53802	.15451	-.05695	5.23790	.00414	.25351

RUN NO. 816/ 0 RN/L = 4.02

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
399.150	-99.893	-.04155	.21511	.01293	-.54345	.15699	-.05867	5.17000	.03102	.00162
400.600	-.136	-.04414	.21536	.01496	-.54305	.15777	-.05710	5.21550	-.01672	.05532
400.540	99.903	-.03519	.21610	.00879	-.54110	.15723	-.05771	5.22500	-.00934	.08600
400.820	199.940	-.01976	.21610	-.00294	-.53986	.15655	-.06084	5.22250	-.01694	.15382
400.490	399.670	-.03422	.21421	.00752	-.53068	.15038	-.05720	5.21020	-.01282	.04679

```
                                  AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.            (RTU270)    ( 03 OCT 74  )

                 REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =   1097.0000 IN. XT                              MACH    =      4.520   PTOTL   =     60.400
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                              ALPHA   =      -.500   BETA    =     15.700
BREF  =  1290.3000 INCHES   ZMRP  =    450.0000 IN. ZT                              CALPHA  =     -4.800   DBETA   =       .000
SCALE =       .0100                                                                 X       =       .000

                              RUN NO.  820/ 0    RN/L =   4.01

     Y         Z         CN         CA         CLM        CY         CYN        CBL       DLTALF      DLTBTA       X
   10.420   100.080   -.02606     .21292     .00101    -.54333     .14037    -.06441   -4.80670    -.00734     .12031
   11.359   199.830   -.01522     .21603    -.00537    -.57076     .15944    -.06747   -4.78530    -.01694     .20371
   10.506   399.630   -.01904     .21425     .00038    -.55456     .16165    -.05682   -4.75590    -.00748    -.13989

                              RUN NO.  819/ 0    RN/L =   4.01

     Y         Z         CN         CA         CLM        CY         CYN        CBL       DLTALF      DLTBTA       X
   99.679    99.875   -.02888     .21748     .00385    -.53378     .14765    -.06487   -4.80060     .00870    -.10111
  102.780   199.140   -.02011     .21753    -.00193    -.55106     .15818    -.06603   -4.72080    -.03368     .08433
  100.750   399.270   -.02537     .21423     .00330    -.54847     .15883    -.05730   -4.71480    -.00159    -.02925

                              RUN NO.  818/ 0    RN/L =   4.01

     Y         Z         CN         CA         CLM        CY         CYN        CBL       DLTALF      DLTBTA       X
  200.730    99.211   -.03749     .21856     .01091    -.53707     .15130    -.06255   -4.77860     .00801    -.16055
  200.120   200.320   -.01753     .22047    -.00305    -.54818     .15894    -.06532   -4.78480     .00841     .18181
  200.740   400.540   -.02698     .21416     .00331    -.54642     .15843    -.05749   -4.80360    -.06813     .02303

                              RUN NO.  817/ 0    RN/L =   4.00

     Y         Z         CN         CA         CLM        CY         CYN        CBL       DLTALF      DLTBTA       X
  400.200    99.784   -.03929     .21800     .01164    -.55051     .16313    -.05894   -4.78370     .01406     .05893
  400.490   200.080   -.02100     .21729    -.00148    -.54823     .16195    -.06090   -4.77900     .01903     .11891
  400.220   400.030   -.03199     .21436     .00616    -.53724     .15465    -.05694   -4.77920     .00813     .30085
```

```
                                 AEDC/VA528(IA87)-O1ET151-ORB/ET W R/M SRB SEPAR.            (RTU271)   ( 03 OCT 74  )

         REFERENCE DATA                                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                              MACH   =     4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                              ALPHA  =     -.500   BETA   =    15.700
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                              DALPHA =    -4.800   DBETA  =      .000
SCALE =       .0100                                                                X      =   300.000

                         RUN NO.  821/ 0    RN/L =   4.00

   Y          Z         CN        CA        CLM       CY        CYN       CBL      DLTALF    DLTBTA     X
 11.049     98.847   -.01820    .21546   -.00257   -.55864    .15856   -.06768   -4.78020   -.02385 299.83000
 10.084    199.890    .00251    .21933   -.01403   -.57490    .16862   -.06727   -4.77940    .01107 300.07000
 10.810    401.530   -.02256    .2148     .00120   -.54285    .15778   -.05656   -4.83100   -.02888 300.13000

                         RUN NO.  822/ 0    RN/L =   4.01

   Y          Z         CN        CA        CLM       CY        CYN       CBL      DLTALF    DLTBTA     X
100.710     99.989   -.01464    .22017   -.00435   -.55570    .16140   -.06740   -4.79500   -.00203 300.29000
 97.842    199.080    .00330    .21729   -.01775   -.55582    .16191   -.06655   -4.71990    .10226 300.14000
100.420    399.750   -.02781    .21470    .00396   -.54011    .15606   -.05682   -4.77150   -.00494 299.96000

                         RUN NO.  823/ 0    RN/L =   4.01

   Y          Z         CN        CA        CLM       CY        CYN       CBL      DLTALF    DLTBTA     X
202.290    100.130   -.02083    .21967   -.00114   -.54793    .16143   -.06288   -4.81680   -.07737 300.01000
201.230    198.990   -.00428    .21568   -.01420   -.54632    .15934   -.06452   -4.71380    .05443 300.09000
199.820    400.040   -.03039    .21435    .00495   -.53627    .15409   -.05695   -4.82840   -.00220 300.05000

                         RUN NO.  824/ 0    RN/L =   4.00

   Y          Z         CN        CA        CLM       CY        CYN       CBL      DLTALF    DLTBTA     X
398.690    101.090   -.02587    .21564    .00159   -.53785    .15584   -.05928   -4.84090    .03084 300.35000
450.750    199.650   -.01848    .21422   -.00453   -.53496    .15375   -.06182   -4.76900   -.01131 300.26000
400.850    399.500   -.03585    .21467    .00875   -.52841    .14874   -.05727   -4.78130   -.04306 300.11000
```

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA528(IA87)-O1ET151-ORB/ET W R/H SRB SEPAR. (RTU272) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = -.500 BETA = 15.700
CALPHA = .200 DBETA = -4.000
X = .000

RUN NO. 827/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
99.435	-100.440	-.02694	.20829	.00060	-.54007	.14783	-.06043	.21109	-3.91350	.08086
102.840	-1.470	-.03788	.21350	.01019	-.54337	.15018	-.05976	.26366	-4.06950	.38118
101.020	99.767	-.02873	.21433	.00432	-.54231	.15135	-.06248	.21883	-4.00770	.16890
100.710	199.980	-.02290	.21712	.00097	-.55060	.15839	-.06217	.21906	-4.00380	.12650
101.800	400.010	-.03051	.21481	.00691	-.54091	.15519	-.05680	.23991	-4.06490	.05803

RUN NO. 826/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.890	-100.100	-.03472	.20825	.00594	-.52650	.14134	-.06124	.20970	-4.00940	.05736
201.190	-1.272	-.04111	.21467	.01274	-.53336	.14795	-.06004	.27362	-4.03410	.16642
200.280	99.755	-.03035	.21731	.00598	-.53666	.15141	-.06202	.22632	-4.01170	.04817
199.710	200.770	-.02316	.21883	.00121	-.54315	.15570	-.06200	.16772	-3.99140	-.05991
198.680	400.130	-.03130	.21490	.00660	-.54020	.15531	-.05692	.19241	-3.97270	-.12293

RUN NO. 825/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
401.040	-99.943	-.04365	.21391	.01416	-.54110	.15451	-.05812	.21629	-4.02490	.14439
399.950	-.377	-.04436	.21592	.01525	-.54477	.15856	-.05822	.23247	-3.94090	.07576
400.840	99.567	-.03547	.21675	.00912	-.54381	.15883	-.05822	.22837	-3.98630	.16238
400.270	200.200	-.01992	.21618	-.00230	-.54268	.15798	-.06050	.21648	-3.95720	.04158
400.480	400.060	-.03260	.21434	.00644	-.53350	.15233	-.05706	.22096	-3.98950	.30616

```
                                AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.               (RTU273)   ( 03 OCT 74  )

              REFERENCE DATA                                                                   PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH    =     4.520  PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                         ALPHA   =     -.500  BETA   =    15.700
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA  =      .200  DBETA  =    -4.000
SCALE =       .0100                                                            X       =   300.000

                           RUN NO.  828/ 0    RN/L =   4.00

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   101.060   -100.360    -.02685     .21102     .00160    -.55414     .15537    -.06149     .23054   -4.01190  300.14000
    99.004      2.503    -.02970     .21364     .00584    -.55632     .15780    -.06328     .13814   -3.96250  300.01000
    98.777    101.090    -.02046     .21912     .00066    -.55898     .16270    -.06348     .19519   -3.93200  300.08000
   100.290    199.830    -.00822     .21513    -.01013    -.55021     .15863    -.06262     .21444   -4.00150  300.00000
   100.570    399.860    -.02928     .21485     .00450    -.53514     .15309    -.05706     .23022   -4.00410  300.00000

                           RUN NO.  829/ 0    RN/L =   4.01

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   201.420   -100.250    -.04046     .21457     .01130    -.54028     .15359    -.05999     .19860   -4.03130  300.17000
   201.880       .881    -.03456     .21663     .00861    -.54401     .15778    -.06065     .15828   -4.04100  300.22000
   201.940    100.080    -.02058     .21824    -.00140    -.54243     .15751    -.06180     .21205   -4.03670  300.19000
   203.810    199.380    -.01640     .21414    -.00606    -.54115     .15597    -.06131     .28211   -4.08500  300.47000
   198.940    399.480    -.03179     .21446     .00590    -.53242     .15150    -.05713     .21814   -3.92590  299.93000

                           RUN NO.  830/ 0    RN/L =   4.01

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   400.970   -100.060    -.04224     .21330     .01345    -.54239     .15952    -.05712     .22953   -4.01600  300.19000
   400.470       .067    -.03737     .21454     .01007    -.53922     .15679    -.05681     .22793   -4.01530  300.05000
   400.370     99.829    -.02475     .21546     .00065    -.53648     .15518    -.05952     .23414   -4.01430  300.10000
   401.410    200.030    -.02738     .21389     .00189    -.53268     .15174    -.05937     .20495   -4.07330  300.19000
   401.130    399.810    -.03585     .21488     .00876    -.52879     .14887    -.05730     .21509   -4.05300  300.16000
```

```
                                AEDC/VA328(IA87)-C1ET1S1-ORB/ET W R/H SRB SEPAR.          (RTU274)    ( 03 OCT 74  )

              REFERENCE DATA                                                                       PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                           MACH   =     4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                          ALPHA  =     -.500   BETA   =    15.700
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                           DALPHA =     5.200   DBETA  =    -4.000
SCALE =       .0100                                                             X      =   300.000

                         RUN NO.  833/ 0    RN/L =   4.00

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  100.670   -101.820   -.04113     .21125     .01287    -.55121     .15195    -.05860    5.26870   -4.00970  300.35000
  102.400     -2.651   -.03524     .21432     .01069    -.54859     .15320    -.06078    5.30720   -4.09030  300.61000
  100.910     99.921   -.01866     .21972     .00004    -.54913     .15755    -.06233    5.21470   -4.01350  300.34000
  100.820    199.880   -.01947     .21427    -.00295    -.54189     .15470    -.06032    5.20960   -4.00760  300.12000
  102.310    400.420   -.03086     .21464     .00533    -.53165     .15103    -.05711    5.19540   -4.06560  300.13000

                         RUN NO.  832/ 0    RN/L =   4.01

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  200.250   -100.220   -.04338     .21517     .01436    -.54023     .15341    -.05825    5.22130   -3.99930  300.10000
  200.490      -.475   -.03478     .21614     .00884    -.54034     .15494    -.05905    5.26670   -3.99870  300.18000
  200.960     99.973   -.01892     .21756    -.00249    -.53935     .15450    -.06154    5.23270   -3.99850  300.30000
  199.260    199.810   -.02438     .21367    -.00010    -.53713     .15383    -.05927    5.19070   -3.95210  300.15000
  198.120    399.280   -.03373     .21465     .00718    -.53023     .14993    -.05724    5.20560   -3.94270  300.05000

                         RUN NO.  831/ 0    RN/L =   4.01

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  399.850   -100.000   -.04064     .21316     .01215    -.54198     .15876    -.05676    5.21740   -3.97230  299.90000
  399.810      -.451   -.03629     .21463     .00927    -.53718     .15504    -.05638    5.23570   -3.94750  300.16000
  400.170     99.599   -.02344     .21540    -.00040    -.53578     .15446    -.06013    5.24310   -3.96860  300.16000
  400.410    199.750   -.03400     .21395     .00727    -.53014     .14997    -.05750    5.22980   -3.97470  300.16000
  400.720    399.870   -.03574     .21466     .00871    -.52832     .14874    -.05724    5.21770   -4.00740  300.24000
```

```
                                   AEDC/VAS28(IA87)-O1ET1S1-ORB/ET W - /M SRB SEPAR.            (RTU275)    ( 03 OCT 74  )

               REFERENCE DATA                                                                   PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                   MACH   =      4.520   PTOTL  =     60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                                   ALPHA  =      -.500   BETA   =     15.700
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                   DALPHA =      5.200   DBETA  =     -4.000
SCALE =       .0100                                                                     X      =       .000

                              RUN NO.   834/ 0    RN/L =   4.00

      Y          Z          CN          CA          CLM         CY          CYN         CBL         DLTALF      DLTBTA      X
   100.300   -100.000    -.04645      .20829      .01523     -.53189      .14109     -.05695     5.21760    -3.99980     .03968
   100.870      1.713    -.03584      .21405      .01007     -.52706      .14060     -.05869     5.14990    -4.00530     .01528
    99.320    101.790    -.03395      .21446      .00820     -.53478      .14875     -.06077     5.13290    -3.92510     .00520
   100.390    199.740    -.02539      .21856      .00264     -.54053      .15384     -.06128     5.21570    -4.00330     .03493
   100.600    399.790    -.03127      .21502      .00703     -.53754      .15390     -.05681     5.22720    -4.00480     .08002

                              RUN NO.   835/ 0    RN/L =   4.01

      Y          Z          CN          CA          CLM         CY          CYN         CBL         DLTALF      DLTBTA      X
   200.050   -100.010    -.05161      .21197      .02030     -.52724      .14191     -.05631     5.19140    -3.98600     .05166
   201.010      -.862    -.03972      .21501      .01273     -.52786      14512      -.05920     5.25000    -4.01770     .28946
   201.950     99.862    -.03531      .21686      .00927     -.53299      .14966     -.06019     5.21180    -4.04940     .36546
   202.120    200.170    -.02297      .21718      .00074     -.53724      .15269     -.06141     5.22220    -4.04840     .27851
   199.660    399.300    -.03123      .21487      .00640     -.53703      .15393     -.05694     5.24300    -3.96670     .10377

                              RUN NO.   836/ 0    RN/L =   4.01

      Y          Z          CN          CA          CLM         CY          CYN         CBL         DLTALF      DLTBTA      X
   400.300   -100.090    -.04136      .21418      .01291     -.54165      .15499     -.05808     5.22180    -4.00120     .02768
   401.600       .178    -.04209      .21552      .01366     -.54264      .15689     -.05750     5.19900    -4.06050     .18076
   400.740    100.140    -.03490      .21654      .00884     -.54128      .15683     -.05757     5.21780    -4.00770     .24036
   400.400    199.990    -.01794      .21584     -.00399     -.53972      .15638     -.06107     5.21580    -4.00420     .00483
   401.030    399.730    -.03360      .21440      .00718     -.53094      .15055     -.05714     5.20110    -4.04350     .17107
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                                        AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.                (RTU276)    ( 03 OCT 74  )

                   REFERENCE DATA                                                                         PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                                 MACH   =     4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YT                                 ALPHA  =     -.300   BETA   =    15.700
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                                 DALPHA =    -4.800   DBETA  =    -4.000
SCALE =      .0100                                                                     X      =      .000

                              RUN NO.  839/ 0    RN/L =   4.00

     Y          Z          CN          CA         CLM         CY          CYN        CBL        DLTALF      DLTBTA       X
  101.710     99.526     -.01995     .21528     -.00283     -.55260      .15598    -.06635    -4.78490    -4.04280     .01040
  100.970    200.000     -.01487     .21688     -.00502     -.56766      .16621    -.06586    -4.78450    -4.00990     .24480
  101.570    400.830     -.02513     .21431      .00344     -.54827      .15865    -.05711    -4.76560    -4.04990     .15571

                              RUN NO.  838/ 0    RN/L =   4.01

     Y          Z          CN          CA         CLM         CY          CYN        CBL        DLTALF      DLTBTA       X
  200.870    100.070     -.03059     .21876      .00627     -.54149      .15348    -.06360    -4.80160    -4.00960     .09461
  199.830    199.460     -.01842     .21932     -.00243     -.54929      .15871    -.06465    -4.74910    -3.97250     .12495
  200.820    399.850     -.02783     .21429      .00430     -.54495      .15764    -.05719    -4.77370    -4.00430     .08970

                              RUN NO.  837/ 0    RN/L =   4.01

     Y          Z          CN          CA         CLM         CY          CYN        CBL        DLTALF      DLTBTA       X
  399.820     99.739     -.03651     .21818      .00985     -.55023      .16267    -.05951    -4.78400    -3.95550    -.02532
  400.190    200.190     -.02028     .21775     -.00190     -.54894      .16182    -.06111    -4.78830    -3.97340     .06747
  399.820    400.050     -.03167     .21445      .00598     -.53737      .15473    -.05692    -4.77890    -3.98370     .08511

                                        AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.                (RTU277)    ( 03 OCT 74  )

                   REFERENCE DATA                                                                         PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1097.0000 IN. XT                                 MACH   =     4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YT                                 ALPHA  =     -.500   BETA   =    15.700
BREF  =  1290.3000 INCHES    ZMRP  =   450.0000 IN. ZT                                 DALPHA =    -4.800   DBETA  =    -4.000
SCALE =      .0100                                                                     X      =   300.000

                              RUN NO.  840/ 0    RN/L =   4.01

     Y          Z          CN          CA         CLM         CY          CYN        CBL        DLTALF      DLTBTA       X
  100.740     99.808     -.01381     .21803     -.00485     -.56779      .16683    -.06726    -4.78170    -4.01070   300.10000
   97.435    199.490      .00673     .21677     -.01890     -.56323      .16538    -.06620    -4.73280    -3.89920   299.89000
  100.610    399.820     -.02775     .21484      .00397     -.53917      .15547    -.05684    -4.77250    -4.00790   300.00000

                              RUN NO.  841/ 0    RN/L =   4.01

     Y          Z          CN          CA         CLM         CY          CYN        CBL        DLTALF      DLTBTA       X
  201.930    100.940     -.01602     .21966     -.00473     -.55006      .16188    -.06401    -4.65820    -4.03970   300.21000
  203.520    199.980     -.00645     .21557     -.01228     -.54685      .15923    -.06371    -4.73010    -4.04020   300.39000
  199.160    397.450     -.02978     .21448      .00468     -.53642      .15411    -.05596    -4.70080    -3.92170   299.83000
```

```
                          AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.           (RTU277)    ( 03 OCT 74  )

           REFERENCE DATA                                                                PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                           MACH    =     4.520   PTOTL   =     60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                           ALPHA   =     -.500   BETA    =     15.700
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                           DALPHA  =    -4.800   DBETA   =     -4.000
SCALE =      .0100                                                              X       =   300.000

                    RUN NO.   842/ 0    RN/L =   4.01

     Y           Z          CN          CA         CLM         CY         CYN        CBL       DLTALF      DLTBTA      X
  400.560     99.847     -.02475     .21580      .00065     -.54018     .15730    -.05954   -4.77810   -4.00710  299.97000
  400.690    199.830     -.01800     .21439     -.00491     -.53696     .15493    -.06174   -4.77660   -4.01810  300.06000
  401.530    399.750     -.03601     .21492      .00881     -.52910     .14895    -.05735   -4.79550   -4.08160  300.22000

                          AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.           (RTU278)    ( 03 OCT 74  )

           REFERENCE DATA                                                                PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                           MACH    =     4.520   PTOTL   =     60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                           ALPHA   =     -.500   BETA    =     15.700
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                           DALPHA  =      .200   DBETA   =     -8.000
SCALE =      .0100                                                              X       =      .000

                    RUN NO.   844/ 0    RN/L =   4.01

     Y           Z          CN          CA         CLM         CY         CYN        CBL       DLTALF      DLTBTA      X
  200.340   -100.260     -.02001     .20935     -.00494     -.55491     .15852    -.06198     .22684   -8.00680     .02384
  201.140      -.336     -.03559     .21239      .00854     -.55734     .16166    -.06039     .25208   -8.07500     .11731
  199.980    100.750     -.02625     .21625      .00343     -.55249     .15994    -.06173     .20422   -8.00070     .00935
  198.440    200.200     -.02145     .21862      .00056     -.54852     .15861    -.06124     .20581   -7.92070    -.24557
  200.820    399.860     -.03107     .21473      .00670     -.53900     .15469    -.05684     .23110   -8.00650     .16036

                    RUN NO.   843/ 0    RN/L =   4.01

     Y           Z          CN          CA         CLM         CY         CYN        CBL       DLTALF      DLTBTA      X
  401.120    -99.261     -.03970     .21579      .01162     -.54098     .15393    -.05881     .17293   -8.03260     .14910
  399.950       .178     -.04087     .21553      .01276     -.54597     .15836    -.05906     .21061   -7.95550    -.02736
  399.220     98.797     -.03520     .21724      .00905     -.54542     .15871    -.05845     .27864   -7.90440    -.06906
  400.270    199.870     -.01925     .21667     -.00265     -.54382     .15824    -.06068     .23704   -7.94980     .09649
  400.710    400.080     -.03196     .21450      .00611     -.53452     .15284    -.05704     .21790   -7.99400     .18044
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU279) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = -.500 BETA = 15.700
DALPHA = .200 DBETA = -8.000
X = 300.000

RUN NO. 845/ 0 RN/L = 4.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
202.610	-100.990	-.01935	.21289	-.00458	-.55053	.15998	-.06356	.24790	-8.05100	300.46000
202.540	.181	-.03083	.21808	.00593	-.55337	.16306	-.06119	.18529	-8.04260	300.40000
202.270	99.912	-.01746	.21782	-.00344	-.55011	.16161	-.06188	.21777	-8.04550	300.30000
200.790	199.910	-.01658	.21427	-.00555	-.54289	.15648	-.06094	.21542	-8.00690	300.32000
200.920	399.880	-.03091	.21452	.00547	-.53259	.15159	-.05708	.22800	-8.01900	300.19000

RUN NO. 846/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
401.040	-100.160	-.03985	.21422	.01156	-.54762	.16296	-.05841	.23097	-8.01420	300.22000
400.010	-.604	-.03632	.21466	.00923	-.54461	.16022	-.05736	.26397	-7.96470	300.14000
399.580	99.263	-.02323	.21583	-.00040	-.53995	.15721	-.05966	.27292	-7.98410	299.89000
400.380	199.780	-.02678	.21390	.00158	-.53457	.15315	-.05911	.21357	-8.04840	299.99000
400.730	399.870	-.03576	.21480	.00873	-.52855	.14877	-.05727	.21375	-8.00360	300.16000

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR. (RTU280) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = -.500 BETA = 15.700
DALPHA = 5.200 DBETA = -8.000
X = 300.000

RUN NO. 848/ 0 RN/L = 4.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.600	-100.250	-.04020	.21533	.01205	-.55025	.15932	-.05833	5.23130	-8.00200	300.23000
200.010	.263	-.03182	.21629	.00684	-.54935	.15998	-.05912	5.24140	-7.99280	300.09000
199.130	100.750	-.01814	.21714	-.00278	-.54216	.15634	-.06114	5.20340	-7.94510	299.89000
198.720	200.010	-.02512	.21398	.00068	-.53828	.15398	-.05904	5.21590	-7.91730	299.78000
200.650	399.730	-.03317	.21467	.00688	-.53038	.15000	-.05721	5.22230	-8.00570	300.20000

```
                         AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.                (RTU280)   ( 03 OCT 74  )

              REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                             MACH   =     4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                             ALPHA  =     -.500   BETA   =    15.700
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                             DALPHA =     5.200   DBETA  =    -8.000
SCALE =        .0100                                                              X      =   300.000

                      RUN NO.  847/ 0    RN/L =   4.00

      Y          Z         CN         CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA      X
   400.530    -99.577    -.03979     .21381     .01158    -.54598    .16151    -.05725    5.18980   -7.97530  300.08000
   400.230       .197    -.03569     .21439     .00875    -.54068    .15744    -.05656    5.19420   -7.95580  300.01000
   399.900     99.056    -.02172     .21551    -.00158    -.53838    .15633    -.06023    5.28400   -7.94290  300.06000
   400.590    199.590    -.03325     .21406     .00674    -.53215    .15141    -.05737    5.23920   -7.97790  300.32000
   400.700    399.790    -.03584     .21519     .00875    -.52951    .14904    -.05735    5.21880   -8.00500  300.25000

                         AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.                (RTU281)   ( 03 OCT 74  )

              REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                             MACH   =     4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                             ALPHA  =     -.500   BETA   =    15.700
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                             DALPHA =     5.200   DBETA  =    -8.000
SCALE =        .0100                                                              X      =      .000

                      RUN NO.  849/ 0    RN/L =   4.01

      Y          Z         CN         CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA      X
   201.320   -101.190    -.04812     .21171     .01698    -.54994    .15446    -.05612    5.25550   -8.01900     .41459
   202.800      -.975    -.03504     .21417     .00931    -.54194    .15146    -.05911    5.23490   -8.09360     .63247
   201.770     99.516    -.03057     .21666     .00665    -.54035    .15311    -.06021    5.21630   -8.05700     .29673
   201.010    199.790    -.02255     .21758     .00105    -.53880    .15298    -.06100    5.21070   -8.00870     .22288
   200.350    399.630    -.03148     .21519     .00657    -.53645    .15343    -.05695    5.23330   -7.98520     .19624

                      RUN NO.  850/ 0    RN/L =   4.01

      Y          Z         CN         CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA      X
   400.190   -100.100    -.04003     .21445     .01177    -.54222    .15388    -.05804    5.22420   -7.99600    -.12709
   401.570      -.065    -.04001     .21571     .01227    -.54361    .15657    -.05811    5.21490   -8.07050     .26119
   400.890    100.460    -.03467     .21688     .00887    -.54206    .15671    -.05758    5.19300   -8.04040     .00060
   400.620    200.010    -.01626     .21594    -.00503    -.54076    .15640    -.06143    5.21370   -8.02090     .15978
   401.090    399.720    -.03320     .21450     .00683    -.53150    .15094    -.05711    5.19880   -8.03810     .35557
```

```
                          AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.          (RTU282)    ( 03 OCT 74  )

          REFERENCE DATA                                                               PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                        MACH   =     4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                        ALPHA  =     -.500   BETA   =    15.700
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                        DALPHA =    -4.800   DBETA  =    -8.000
SCALE =      .0100                                                           X      =      .000

                    RUN NO.  852/ 0    RN/L =   4.00

    Y         Z         CN        CA        CLM       CY        CYN       CBL      DLTALF    DLTBTA      X
 200.550   100.030   -.02048    .21510   -.00194   -.56592    .16761   -.06534  -4.78570  -8.00380    .12576
 199.660   200.200   -.01313    .21691   -.00618   -.56656    .16876   -.06404  -4.77770  -8.01470   -.05187
 197.240   399.480   -.02770    .21425    .00443   -.54461    .15724   -.05713  -4.79520  -7.91370   -.44201

                    RUN NO.  851/ 0    RN/L =   4.01

    Y         Z         CN        CA        CLM       CY        CYN       CBL      DLTALF    DLTBTA      X
 400.450   100.200   -.03320    .21845    .00767   -.55163    .16298   -.06042  -4.80480  -7.98080    .04441
 399.960   199.770   -.02002    .21748   -.00184   -.54882    .16154   -.06097  -4.77280  -7.99190   -.14011
 400.600   400.010   -.03110    .21434    .00576   -.53771    .15492   -.05682  -4.77670  -7.99850    .21258

                          AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.          (RTU283)    ( 03 OCT 74  )

          REFERENCE DATA                                                               PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                        MACH   =     4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                        ALPHA  =     -.500   BETA   =    15.700
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                        DALPHA =    -4.800   DBETA  =    -8.000
SCALE =      .0100                                                           X      =   300.000

                    RUN NO.  853/ 0    RN/L =   4.00

    Y         Z         CN        CA        CLM       CY        CYN       CBL      DLTALF    DLTBTA      X
 202.350   100.950   -.00972    .21867   -.00931   -.56029    .16793   -.06483  -4.83410  -8.03610  300.51000
 204.080   201.090   -.00659    .21521   -.01211   -.55256    .16270   -.06308  -4.79580  -8.08940  300.69000
 201.360   400.420   -.02955    .21458    .00454   -.53625    .15404   -.05695  -4.80750  -8.03580  300.31000

                    RUN NO.  854/ 0    RN/L =   4.01

    Y         Z         CN        CA        CLM       CY        CYN       CBL      DLTALF    DLTBTA      X
 400.410    99.958   -.02301    .21577   -.00057   -.54328    .15926   -.05977  -4.77650  -8.00800  299.92000
 399.960   199.250   -.01659    .21440   -.00609   -.53921    .15647   -.06185  -4.74590  -7.99080  299.94000
 401.150   399.850   -.03575    .21441    .00876   -.52794    .14854   -.05720  -4.78720  -8.01280  300.29000
```

```
DATE 20 MAY 75                                   IA87 TABULATED SOURCE DATA                                   PAGE  235

                                          AEDC/VA528(IA87)-O1ET151-ORB/ET W L/H SRB SEPAR.          (RTU284)    ( 03 OCT 74  )

                 REFERENCE DATA                                                                   PARAMETRIC DATA

SREF   =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                              MACH    =      4.520   PTOTL  =     60.400
LREF   =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                             ALPHA   =      -.500   BETA   =     15.700
BREF   =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                              DALPHA  =       .200   DBETA  =       .000
SCALE  =       .0100                                                                X       =       .000

                              RUN NO.  856/ 0    RN/L =   4.00

      Y          Z          CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   -299.010   -100.090    -.02712    .21467    .00263    -.51902    .14249    -.05496    .21991     .00063    .32948
   -298.740      -.216    -.02804    .21439    .00324    -.51853    .14259    -.05552    .23634    -.00323    .33644
   -298.260     99.601    -.02931    .21399    .00387    -.52067    .14403    -.05592    .24415    -.01722    .22318
   -298.490    199.250    -.03278    .21353    .00637    -.52303    .14577    -.05668    .23721     .04074    .34687
   -298.640    399.900    -.03584    .21496    .00879    -.52890    .14887    -.05732    .21651    -.00765    .42202

                              RUN NO.  857/ 0    RN/L =   4.00

      Y          Z          CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   -199.490    -99.494    -.01759    .21584   -.00267    -.50205    .13480    -.05322    .20529     .04480    .08568
   -197.200      -.218    -.02330    .21497    .00116    -.50100    .13730    -.05500    .19566    -.05450    .19172
   -198.790     99.527    -.02463    .21434    .00180    -.50079    .13725    -.05532    .20632    -.01343    .24826
   -200.210    200.180    -.02399    .21421    .00120    -.50823    .13874    -.05514    .18024     .03120    .27468
   -197.810    400.800    -.03504    .21374    .00826    -.52532    .14715    -.05721    .18808    -.09293    .39556

                              RUN NO.  858/ 0    RN/L =   4.01

      Y          Z          CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   -101.340    -99.239    -.01523    .21637   -.00611    -.48919    .13483    -.05154    .19706     .07527    .50915
    -98.255       .842    -.02816    .21500    .00193    -.48977    .13860    -.05521    .17997    -.01327    .26690
    -99.190     99.881    -.02973    .21472    .00344    -.48956    .13793    -.05574    .19642     .00566    .16231
    -98.198    199.930    -.02964    .21390    .00367    -.49542    .13975    -.05510    .20180    -.01512    .38396
   -100.090    400.850    -.03035    .21437    .00539    -.51938    .14393    -.05664    .17662     .02847    .31139
```

```
                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.              (RTU285)    ( 03 OCT 74  )

          REFERENCE DATA                                                               PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                        MACH   =      4.520   PTOTL  =     60.400
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                       ALPHA  =      -.500   BETA   =     15.700
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                        DALPHA =       .200   DBETA  =       .000
SCALE =       .0100                                                          X      =    300.000

                         RUN NO.   861/ 0    RN/L =    4.00

    Y          Z          CN          CA         CLM         CY          CYN         CBL         DLTALF      DLTBTA     X
 -298.010   -100.150   -.02825     .21439     .00335     -.52123     .14402     -.05519     .22078     -.02716  300.41000
 -297.350      -.132   -.03010     .21392     .00455     -.52198     .14479     -.05593     .21393     -.06926  300.31000
 -298.500     99.374   -.03124     .21377     .00543     -.52243     .14534     -.05628     .23136     -.03478  300.24000
 -300.170    199.790   -.03411     .21365     .00742     -.52411     .14651     -.05696     .21198      .05820  300.40000
 -301.780    401.320   -.03559     .21488     .00872     -.52847     .14872     -.05724     .16521      .07549  300.39000

                         RUN NO.   860/ 0    RN/L =    4.01

    Y          Z          CN          CA         CLM         CY          CYN         CBL         DLTALF      DLTBTA     X
 -199.930    -99.434   -.02277     .21549     .00001     -.51603     .14063     -.05457     .20305      .03138  300.39000
 -199.110       .769   -.02539     .21424     .00186     -.51526     .14139     -.05537     .20021      .01971  300.20000
 -197.670    100.710   -.02901     .21404     .00444     -.51672     .14220     -.05620     .19308     -.02695  300.26000
 -198.870    199.930   -.03110     .21399     .00579     -.51932     .14364     -.05648     .21352      .00436  300.44000
 -200.480    400.450   -.03495     .21359     .00827     -.52508     .14718     -.05717     .18972      .05884  300.26000

                         RUN NO.   859/ 0    RN/L =    4.01

    Y          Z          CN          CA         CLM         CY          CYN         CBL         DLTALF      DLTBTA     X
  -98.272   -100.250   -.01695     .21553    -.00321     -.50946     .13885     -.05334     .21651     -.01110  300.41000
  -96.470     -1.700   -.02636     .21451     .00337     -.50647     .14045     -.05574     .25285     -.08342  300.18000
  -99.211     98.371   -.02803     .21423     .00445     -.50672     .14122     -.05647     .24245      .02014  300.29000
  -99.395    198.660   -.02727     .21428     .00372     -.51474     .14226     -.05618     .25195     -.03254  300.30000
  -98.528    399.830   -.03212     .21433     .00629     -.52201     .14529     -.05697     .21735     -.02065  300.13000
```

```
DATE 20 MAY 75                           IA87 TABULATED SOURCE DATA                                      PAGE  237

                                   AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/M SRB SEPAR.            (RTU286)   ( 03 OCT 74  )

               REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =   1097.0000 IN. XT                            MACH   =     4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YT                            ALPHA  =     -.500   BETA   =    15.700
BREF  =  1290.3000 INCHES    ZMRP  =    450.0000 IN. ZT                            CALPHA =     5.200   DBETA  =      .000
SCALE =       .0100                                                                X      =   300.000

                           RUN NO.  362/ 0    RN/L =   4.01

     Y          Z          CN          CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -300.020    -99.874    -.02997     .21397     .00455    -.52127     .14432    -.05573    5.20730     .05373  300.46000
  -298.360       .540    -.03058     .21377     .00491    -.52169     .14474    -.05603    5.20990    -.01116  300.40000
  -296.640    100.250    -.03184     .21341     .00590    -.52212     .14540    -.05637    5.20260    -.06968  300.35000
  -299.070    199.750    -.03466     .21349     .00785    -.52412     .14663    -.05702    5.21550     .00342  300.38000
  -299.180    399.800    -.03575     .21502     .00882    -.52857     .14880    -.05729    5.21860    -.00251  300.22000

                           RUN NO.  863/ 0    RN/L =   4.01

     Y          Z          CN          CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -198.690   -100.210    -.02600     .21480     .00250    -.51615     .14136    -.05568    5.21070    -.00524  300.29000
  -197.460      -.893    -.02784     .21419     .00390    -.51665     .14214    -.05622    5.21790    -.07048  300.29000
  -198.470     98.734    -.02966     .21418     .00503    -.51752     .14255    -.05640    5.24130    -.05404  300.31000
  -201.190    199.000    -.03213     .21435     .00639    -.52031     .14423    -.05669    5.24670     .06629  300.38000
  -198.430    399.690    -.03548     .21395     .00856    -.52679     .14787    -.05723    5.21450    -.01970  300.31000

                           RUN NO.  864/ 0    RN/L =   4.01

     Y          Z          CN          CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -100.280    -98.887    -.02398     .21503     .00221    -.51013     .13988    -.05573    5.18040     .05454  300.30000
   -97.653      1.633    -.02837     .21439     .00530    -.50797     .14186    -.05695    5.13730     .00948  300.21000
   -97.043    100.720    -.02841     .21443     .00494    -.50879     .14169    -.05663    5.16620    -.06654  299.98000
   -99.782    199.780    -.02916     .21446     .00487    -.51688     .14329    -.05624    5.21160     .01106  300.21000
   -97.647    398.870    -.03307     .21387     .00705    -.52246     .14577    -.05704    5.25390    -.06759  300.25000
```

```
                                    AECC/VA528(IA87)-O1ET1S1-ORB/ET W L/M SRB SEPAR.              (RTU287)    ( 03 OCT 74  )

              REFERENCE DATA                                                                       PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =   1097.0000 IN. XT                         MACH    =      4.520   PTOTL  =     50.400
LREF  =  1290.3000 INCHES    YMRP  =        .0000 IN. YT                        ALPHA   =      -.500   BETA   =     15.700
BREF  =  1290.3000 INCHES    ZMRP  =    450.0000 IN. ZT                         CALFHA  =      5.200   CBETA  =       .000
SCALE =       .0100                                                             X       =       .000

                          RUN NO.   867/ 0    RN/L =   4.00

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
   -297.230   -100.860   -.02867     .21460     .00382    -.51915     .14271    -.05567    5.23590    -.07104     .70866
   -298.320       .055   -.02819     .21397     .00344    -.51821     .14262    -.05565    5.19500    -.00902     .28696
   -298.690     99.730   -.03044     .21363     .00479    -.52048     .14428    -.05612    5.21120    -.01729     .26081
   -298.460    199.900   -.03420     .21333     .00759    -.52361     .14638    -.05694    5.20450    -.02919     .45232
   -298.300    400.310   -.03563     .21489     .00870    -.52849     .14875    -.05725    5.19110    -.04904     .15367

                          RUN NO.   866/ 0    RN/L =   4.01

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
   -199.530   -100.130   -.02307     .21517     .00161    -.50204     .13620    -.05514    5.21530     .01720     .40379
   -198.220       .074   -.02532     .21442     .00296    -.50081     .13791    -.05583    5.20050     .00295     .30554
   -197.670     99.506   -.02536     .21427     .00214    -.50196     .13780    -.05554    5.22270    -.03793     .07378
   -199.790    198.790   -.02555     .21432     .00222    -.51071     .13988    -.05542    5.25270     .06248     .15250
   -197.700    398.690   -.03558     .21424     .00865    -.52806     .14837    -.05728    5.24850    -.04972     .32746

                          RUN NO.   865/ 0    RN/L =   4.01

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
    -98.298    -99.901   -.02637     .21528     .00208    -.49033     .13727    -.05516    5.18830    -.03312     .13374
    -99.206      -.243   -.02892     .21541     .00348    -.49041     .13914    -.05661    5.19370     .00585     .19008
    -98.114     98.708   -.03149     .21465     .00529    -.49482     .14068    -.05599    5.22450    -.05973     .54727
    -98.450    199.820   -.03060     .21436     .00419    -.50020     .14096    -.05521    5.20330    -.01806     .28015
   -100.860    402.640   -.03313     .21433     .00701    -.52342     .14595    -.05713    5.10790     .02779     .56306
```

```
                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.          (RTU288)   ( 03 OCT 74  )

           REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                        MACH   =      4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                        ALPHA  =      -.500   BETA   =    15.700
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                        DALPHA =     -4.800   DBETA  =      .000
SCALE =       .0100                                                          X      =       .000

                    RUN NO.   888/ 0    RN/L =   4.01

      Y         Z         CN         CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA      X
   -298.360    99.913   -.02741    .21396    .00252   -.51813    .14257   -.05529  -4.77520   -.01193    .37492
   -298.690   199.070   -.03010    .21344    .00443   -.52046    .14431   -.05596  -4.73670    .01360    .12329
   -298.340   399.890   -.03542    .21382    .00863   -.52756    .14833   -.05719  -4.78000   -.00957    .43479

                    RUN NO.   869/ 0    RN/L =   4.00

      Y         Z         CN         CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA      X
   -198.940   100.130   -.02081    .21443   -.00131   -.49765    .13605   -.05410  -4.80500    .02377    .05490
   -198.770   199.900   -.02178    .21377   -.00020   -.50214    .13658   -.05473  -4.80180   -.01337    .35099
   -199.120   400.940   -.03241    .21382    .00638   -.52148    .14499   -.05683  -4.85350   -.02637    .52162

                    RUN NO.   870/ 0    RN/L =   4.01

      Y         Z         CN         CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA      X
    -98.608    99.919   -.02856    .21501    .00177   -.48658    .13719   -.05476  -4.80280   -.00885    .33277
    -98.835   199.830   -.02654    .21398    .00121   -.48721    .13632   -.05456  -4.79710    .00297    .29009
    -99.503   400.970   -.02319    .21327    .00076   -.51453    .14139   -.05557  -4.82530    .02520    .32054

                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.          (RTU289)   ( 03 OCT 74  )

           REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                        MACH   =      4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                        ALPHA  =      -.500   BETA   =    15.700
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                        DALPHA =     -4.800   DBETA  =      .000
SCALE =       .0100                                                          X      =    300.000

                    RUN NO.   873/ 0    RN/L =   4.01

      Y         Z         CN         CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA      X
   -298.790    99.839   -.03020    .21337    .00458   -.52087    .14463   -.05585  -4.78140   -.01631  300.50000
   -298.530   199.650   -.03283    .21328    .00645   -.52243    .14567   -.05656  -4.78530   -.00891  300.45000
   -302.000   401.120   -.03580    .21425    .00875   -.52826    .14865   -.05728  -4.84540    .10027  300.40500

                    RUN NO.   872/ 0    RN/L =   4.00

      Y         Z         CN         CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA      X
   -198.190   100.800   -.02532    .21390    .00152   -.51422    .14086   -.05512  -4.80360   -.02136  300.35000
   -198.900   199.970   -.02960    .21491    .00470   -.51734    .14237   -.05616  -4.79090    .00488  300.39000
   -200.920   400.950   -.03462    .21362    .00781   -.52354    .14626   -.05711  -4.83130    .09638  300.44000
```

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU289) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = -.500 BETA = 15.700
CALPHA = -4.800 CBETA = .000
X = 300.000

RUN NO. 871/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-99.890	100.010	-.02633	.21415	.00282	-.50351	.13994	-.05524	-4.79830	.01360	300.14000
-100.210	198.660	-.02583	.21405	.00275	-.51059	.14047	-.05594	-4.75170	.02466	300.09000
-98.440	399.700	-.03017	.21403	.00527	-.51909	.14387	-.05659	-4.78280	-.02200	300.17000

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU290) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = -.500 BETA = 15.700
CALPHA = .200 CBETA = 4.000
X = .000

RUN NO. 874/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-299.050	-100.070	-.01823	.21455	-.00360	-.50836	.13578	-.05272	.23325	4.00020	.36529
-299.080	.130	-.02033	.21401	-.00196	-.50997	.13746	-.05406	.22388	4.00650	.34622
-298.200	99.430	-.02409	.21338	.00076	-.51204	.13889	-.05499	.25649	3.98550	.26536
-298.780	198.280	-.02848	.21308	.00342	-.51611	.14177	-.05592	.23523	4.05340	.15123
-299.290	399.890	-.03563	.21381	.00869	-.52819	.14850	-.05729	.21872	4.00200	.26405

RUN NO. 875/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-199.660	-98.995	-.00457	.21565	-.01161	-.48235	.12507	-.05021	.18255	4.00110	-.23342
-197.600	-.617	-.01558	.21446	-.00421	-.48588	.13156	-.05352	.19924	3.95550	-.12580
-199.730	99.002	-.02041	.21384	-.00161	-.48659	.13216	-.05493	.20832	3.99760	.13598
-200.850	200.520	-.01689	.21327	-.00334	-.49459	.13328	-.05438	.16228	4.02530	.24468
-199.560	400.930	-.03242	.21357	.00640	-.52132	.14495	-.05691	.18192	3.91790	.40116

RUN NO. 876/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-99.547	-100.130	-.01461	.21619	-.00990	-.46067	.12291	-.04885	[illegible]	3.99250	-.09866
-98.852	1.231	-.02836	.21510	.00088	-.47254	.13306	-.05457	[illegible]	3.97140	.09607
-99.338	99.849	-.02139	.21474	.00025	-.47772	.13547	-.05601	[illegible]	4.00050	.20782
-99.345	199.970	-.01592	.21440	-.00288	-.48457	.13622	-.05482	[illegible]	3.99790	.08279
-100.510	401.070	-.02258	.21359	.00052	-.51494	.14151	-.05575	[illegible]	4.03730	.25007

AEDC/VA528(IA87)-O1ET151-ORB/ET W L/H SRB SEPAR. (RTU291) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = -.500 BETA = 15.700
DALPHA = .200 DBETA = 4.000
X = 300.000

RUN NO. 879/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-299.140	-100.140	-.02264	.21441	-.00070	-.51474	.13989	-.05375	.22228	3.98530	300.09000
-298.030	-.391	-.02470	.21339	.00070	-.51634	.14149	-.05463	.22262	3.94520	299.92000
-298.110	99.187	-.02816	.21299	.00322	-.51841	.14296	-.05568	.22617	3.95940	300.38000
-300.690	199.340	-.03123	.21306	.00532	-.52053	.14448	-.05638	.22224	4.02420	300.29000
-298.710	399.880	-.03578	.21426	.00882	-.52819	.14859	-.05728	.21534	3.98490	300.13000

RUN NO. 878/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-201.260	-98.946	-.01421	.21528	-.00581	-.50594	.13496	-.05246	.18222	4.04930	300.38000
-199.470	1.233	-.01965	.21421	-.00169	-.50683	.13656	-.05435	.17781	4.00770	300.27000
-197.210	100.780	-.02287	.21372	.00042	-.50915	.13806	-.05546	.19883	3.96790	300.11000
-199.420	199.850	-.02634	.21344	.00242	-.51363	.14017	-.05570	.21432	4.00280	300.25000
-200.960	400.420	-.03425	.21346	.00770	-.52298	.14609	-.05710	.18579	4.06830	300.15000

RUN NO. 877/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-99.556	-100.210	-.01987	.21550	-.00811	-.49275	.13085	-.05107	.21858	4.00130	300.01000
-99.263	-.069	-.02596	.21470	.00292	-.49933	.13794	-.05529	.20757	4.00020	300.18000
-100.630	97.731	-.02283	.21425	.00145	-.49858	.13914	-.05646	.27303	4.03660	300.24000
-100.740	198.280	-.02224	.21404	.00097	-.50555	.13861	-.05606	.25104	3.98520	300.35000
-98.951	399.760	-.02943	.21409	.00486	-.51945	.14386	-.05671	.21938	3.97540	299.95000

AEDC/VA528(IA87)-O1ET151-ORB/ET W L/H SRB SEPAR. (RTU292) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = -.500 BETA = 15.700
CALFHA = 5.200 DBETA = 4.000
X = 300.000

RUN NO. 880/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-300.900	-99.872	-.02576	.21377	.00155	-.51614	.14108	-.05472	5.22290	4.06690	300.13000
-299.560	.356	-.02744	.21337	.00277	-.51776	.14227	-.05550	5.20350	4.05210	300.18000
-296.370	100.430	-.02959	.21341	.00421	-.51939	.14342	-.05609	5.18630	3.92010	300.04000
-299.470	199.890	-.03243	.21356	.00622	-.52201	.14519	-.05669	5.21500	4.00570	300.22000
-299.590	399.900	-.03548	.21439	.00868	-.52801	.14854	-.05721	5.21380	3.99950	299.98000

RUN NO. 881/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-198.890	-100.270	-.02161	.21494	-.00027	-.50870	.13705	-.05481	5.21550	3.99600	300.30000
-198.050	-1.424	-.02313	.21498	.00096	-.50965	.13827	-.05571	5.23540	3.95460	300.17000
-198.630	98.420	-.02397	.21353	.00115	-.51050	.13871	-.05571	5.23600	3.94610	300.21000
-203.450	199.030	-.02898	.21403	.00441	-.51703	.14224	-.05605	5.25160	4.08300	300.08000
-198.660	399.710	-.03517	.21374	.00827	-.52519	.14705	-.05723	5.21600	3.97810	300.01000

RUN NO. 882/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-98.416	-100.130	-.02328	.21497	.00113	-.49864	.13534	-.05445	5.20330	3.99620	300.06000
-97.122	1.893	-.02616	.21443	.00420	-.50409	.14129	-.05692	5.12930	3.94390	299.66000
-96.874	101.000	-.02264	.21444	.00137	-.49965	.13946	-.05652	5.14810	3.94480	299.61000
-100.450	199.700	-.02460	.21452	.00229	-.51036	.14077	-.05623	5.21320	4.01590	299.97000
-98.520	398.760	-.03163	.21389	.00580	-.52069	.14473	-.05682	5.26360	3.93840	300.01000

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/M SRB SEPAR. (RTU293) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = -.500 BETA = 15.700
DALPHA = 5.200 DBETA = 4.000
X = .000

RUN NO. 885/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-298.520	-100.850	-.02181	.21427	-.00065	-.50995	.13728	-.05442	5.22810	3.96520	.62150
-299.300	-.207	-.02322	.21383	.00060	-.51032	.13802	-.05511	5.19590	3.99750	.07225
-298.220	99.770	-.02555	.21342	.00182	-.51294	.13959	-.05537	5.19760	3.95110	.32746
-299.910	199.790	-.02990	.21341	.00452	-.51845	.14317	-.05623	5.20780	3.98840	.19406
-299.240	400.540	-.03557	.21452	.00870	-.52842	.14871	-.05726	5.19030	3.96290	.24634

RUN NO. 884/ 0 RN/L = 4.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-199.490	-99.415	-.01778	.21446	-.00193	-.48635	.12965	-.05394	5.18840	4.00770	.34047
-198.000	-.165	-.02001	.21448	-.00067	-.48721	.13313	-.05548	5.21410	4.04010	.26267
-197.260	99.475	-.02182	.21398	-.00053	-.48905	.13360	-.05530	5.19750	3.95380	-.26060
-199.480	198.370	-.02022	.21392	-.00111	-.50047	.13617	-.05488	5.27050	4.03510	-.14457
-197.690	398.610	-.03485	.21382	.00809	-.52454	.14676	-.05719	5.24870	3.94720	.13877

RUN NO. 883/ 0 RN/L = 4.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-98.051	-100.210	-.02757	.21584	.00043	-.47209	.13121	-.05364	5.19220	3.98710	.03950
-99.277	-.195	-.02608	.21559	.00183	-.47902	.13695	-.05662	5.18470	3.98790	.03366
-99.510	98.242	-.02121	.21484	.00140	-.48561	.13937	-.05645	5.21490	3.94750	.27984
-98.509	199.825	-.02070	.21414	-.00045	-.49119	.13868	-.05474	5.19700	3.98040	.26166
-99.449	399.690	-.02985	.21400	.00515	-.51892	.14377	-.05669	5.21260	3.99690	.08279

```
                         AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.              (RTU294)    ( 03 OCT 74  )

            REFERENCE DATA                                                                   PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                         MACH   =      4.520   PTOTL  =     60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                         ALPHA  =      -.500   BETA   =     15.700
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                         DALPHA =     -4.800   DBETA  =      4.000
SCALE =      .0100                                                            X      =       .000

                         RUN NO.  886/ 0    RN/L =   4.01

      Y          Z          CN         CA        CLM        CY         CYN        CBL      DLTALF     DLTBTA      X
   -299.340   100.280    -.01736    .21316    -.00416    -.50633     .13600    -.05307   -4.77970    4.01310    .18908
   -298.230   198.660    -.02469    .21269     .00098    -.51234     .13927    -.05497   -4.70980    4.01520    .05801
   -298.610   399.860    -.03489    .21291     .00872    -.52338     .14630    -.05710   -4.78560    3.99020    .41576

                         RUN NO.  887/ 0    RN/L =   4.00

      Y          Z          CN         CA        CLM        CY         CYN        CBL      DLTALF     DLTBTA      X
   -198.410    99.928    -.01397    .21415    -.00672    -.48210     .13048    -.05274   -4.80830    3.96840   -.46477
   -200.230   199.480    -.01494    .21303    -.00521    -.48814     .13137    -.05383   -4.79900    4.02310    .29425
   -200.570   401.550    -.02868    .21253     .00391    -.51536     .14184    -.05608   -4.87850    3.98880    .63470

                         RUN NO.  888/ 0    RN/L =   4.00

      Y          Z          CN         CA        CLM        CY         CYN        CBL      DLTALF     DLTBTA      X
    -99.868    99.992    -.01896    .21432    -.00404    -.46607     .12976    -.05325   -4.81540    4.01240    .16625
    -99.302   199.920    -.01447    .21429    -.00400    -.47398     .13191    -.05453   -4.81310    4.00150    .30609
   -100.140   401.090    -.01257    .21194    -.00549    -.50214     .13572    -.05485   -4.83140    4.02280    .19893

                         AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.              (RTU295)    ( 03 OCT 74  )

            REFERENCE DATA                                                                   PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                         MACH   =      4.520   PTOTL  =     60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                         ALPHA  =      -.500   BETA   =     15.700
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                         DALPHA =     -4.800   DBETA  =      4.000
SCALE =      .0100                                                            X      =    300.000

                         RUN NO.  [illegible]/ 0    RN/L =   4.00

      Y          Z          CN         CA        CLM        CY         CYN        CBL      DLTALF     DLTBTA      X
   -298.890    99.799    -.02470    .21270     .00060    -.51598     .14166    -.05471   -4.78020    3.97470  299.93000
   -300.460   199.410    -.02946    .21319     .00402    -.51947     .14363    -.05600   -4.78360    4.02210  300.07000
   -299.210   399.810    -.03547    .21359     .00859    -.52749     .14815    -.05728   -4.78240    3.99050  300.10000

                         RUN NO.  890/ 0    RN/L =   4.00

      Y          Z          CN         CA        CLM        CY         CYN        CBL      DLTALF     DLTBTA      X
   -197.870   101.270    -.01925    .21437    -.00237    -.50583     .13604    -.05400   -4.82170    3.94540  300.18000
   -200.820   200.040    -.02359    .21341     .00052    -.51034     .13825    -.05542   -4.79400    4.02790  299.89000
   -201.380   400.880    -.03207    .21333     .00613    -.52040     .14455    -.05677   -4.83790    4.08690  300.36000
```

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU295) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = -.500 BETA = 15.700
DALPHA = -4.800 DBETA = 4.000
X = 300.000

RUN NO. 889/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-99.917	99.986	-.02366	.21392	.00105	-.49557	.13755	-.05528	-4.80370	4.01650	300.12000
-101.900	198.590	-.02022	.21344	-.00051	-.49985	.13648	-.05547	-4.75110	4.07840	300.09000
-99.160	399.640	-.02676	.21341	.00311	-.51637	.14217	-.05621	-4.78130	3.97920	299.78000

AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR. (RTU296) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1097.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 450.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = -.500 BETA = 15.700
DALPHA = .200 DBETA = 8.000
X = .000

RUN NO. 892/ 0 RN/L = 3.99

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-301.050	-99.919	-.00168	.21418	-.01454	-.48532	.12335	-.04916	.23493	8.01710	.07797
-300.210	.664	-.01100	.21394	-.00755	-.49236	.12811	-.05276	.19480	8.01770	.25715
-298.140	99.336	-.01294	.21267	-.00639	-.49667	.13045	-.05351	.26569	7.97080	-.14586
-298.800	199.330	-.01699	.21131	-.00413	-.50420	.13420	-.05439	.22582	8.08620	.02432
-299.420	400.050	-.03428	.21273	.00764	-.52283	.14596	-.05710	.21018	7.99690	.13650

RUN NO. 893/ 0 RN/L = 4.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-199.680	-99.266	-.00084	.21535	-.01469	-.45266	.11195	-.04771	.16827	7.98980	-.70385
-196.080	-.898	-.01181	.21480	-.00674	-.46195	.12187	-.05312	.18258	7.91460	-.46076
-200.500	98.852	-.01010	.21373	-.00771	-.46679	.12524	-.05449	.21242	8.04550	.18502
-201.120	200.260	-.00695	.21296	-.00964	-.47822	.12736	-.05420	.15245	8.03320	.47453
-199.240	399.880	-.02699	.21280	.00298	-.51500	.14163	-.05618	.21187	7.99590	.17026

ORIGINAL PAGE IS
OF POOR QUALITY

```
                                  AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.                 (RTU297)   ( 03 OCT 74  )

              REFERENCE DATA                                                                          PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                  MACH   =     4.520   PTOTL   =    60.400
 LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                                 ALPHA  =     -.500   BETA    =    15.700
 BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                  DALPHA =      .200   DBETA   =     8.000
 SCALE =       .0100                                                                    X      =   300.000

                              RUN NO.  895/ 0    RN/L =   4.00

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
   -298.760   -100.070    -.01368     .21373    -.00692    -.50252     .13263    -.05164     .21614    7.96680  299.82000
   -296.790      -.892    -.01901     .21319    -.00305    -.50644     .13591    -.05374      23429    7.93030  300.03000
   -299.220     98.929    -.02333     .21227     .00006    -.51080     .13822    -.05506     .22844    7.99450  300.23000
   -301.150    199.300    -.02788     .21191     .00309    -.51515     .14130    -.05590     .20504    8.02940  300.43000
   -299.050    399.840    -.03546     .21332     .00853    -.52722     .14800    -.05726     .21726    7.98770  300.12000

                              RUN NO.  894/ 0    RN/L =   4.00

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
   -202.740    -98.480    -.00447     .21558    -.01259    -.49126     .12691    -.05030     .18185    8.10040  300.49000
   -199.770      1.834    -.01429     .21400    -.00466    -.49679     .13171    -.05369     .14407    8.01480  300.13000
   -197.090    101.260    -.01575     .21336    -.00370    -.49939     .13350    -.05489     .18233    7.94600  299.49000
   -200.780    200.040    -.01808     .21265    -.00297    -.50524     .13552    -.05522     .20481    8.03610  300.14000
   -199.090    399.070    -.03180     .21325     .00593    -.52050     .14452    -.05682     .23455    8.00480  300.02000

                                  AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.                 (RTU298)   ( 03 OCT 74  )

              REFERENCE DATA                                                                          PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                  MACH   =     4.520   PTOTL   =    60.400
 LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                                 ALPHA  =     -.500   BETA    =    15.700
 BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                  DALPHA =     5.200   DBETA   =     8.000
 SCALE =       .0100                                                                    X      =   300.000

                              RUN NO.  896/ 0    RN/L =   4.00

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
   -300.650    -99.397    -.02065     .21368    -.00177    -.50645     .13540    -.05397    5.20670    8.04620  300.12000
   -300.000       .455    -.02209     .21283    -.00084    -.50943     .13726    -.05486    5.22210    8.07760  300.13000
   -296.690    100.630    -.02561     .21227     .00170    -.51239     .13925    -.05555    5.16570    7.95500  299.59000
   -300.220    199.850    -.02959     .21272     .00428    -.51753     .14268    -.05620    5.20940    8.01980  300.20000
   -298.830    399.870    -.03578     .21400     .00872    -.52842     .14858    -.05731    5.21910    7.98560  300.29000
```

```
                             AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.               (RTU298)   ( 03 OCT 74  )

          REFERENCE DATA                                                                  PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =     4.520   PTOTL  =     60.400
 LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                         ALPHA  =     -.500   BETA   =     15.700
 BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA =     5.200   DBETA  =      8.000
 SCALE =        .0100                                                           X      =   300.000

                            RUN NO.  897/ 0    RN/L =   4.00

     Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA      X
  -199.450   -100.280   -.01545     .21482    -.00412    -.49776     .13125    -.05359    5.20960    8.00570  300.38000
  -199.760      -.198   -.01713     .21453    -.00263    -.50082     .13421    -.05545    5.20400    8.00200  300.13000
  -198.790     97.968   -.01581     .21330    -.00363    -.50087     .13414    -.05526    5.24800    7.94430  300.63000
  -203.720    198.840   -.02285     .21263     .00007    -.51011     .13840    -.05548    5.24830    8.08150  300.87000
  -198.940    399.750   -.03375     .21335     .00732    -.52248     .14571    -.05709    5.21360    7.98080  299.89000

                             AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.               (RTU299)   ( 03 OCT 74  )

          REFERENCE DATA                                                                  PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =     4.520   PTOTL  =     60.400
 LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                         ALPHA  =     -.500   BETA   =     15.700
 BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          DALPHA =     5.200   DBETA  =      8.000
 SCALE =        .0100                                                           X      =      .000

                            RUN NO.  899/ 0    RN/L =   3.99

     Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA      X
  -300.000   -101.130   -.01345     .21407    -.00550    -.49364     .12819    -.05309    5.23200    8.02720    1.05110
  -299.350      -.924   -.01413     .21357    -.00492    -.49629     .13032    -.05417    5.21670    7.99540     .06126
  -299.730    100.250   -.01427     .21201    -.00544    -.49957     .13210    -.05403    5.15310    7.96200     .18396
  -299.970    199.570   -.02330     .21259     .00011    -.51184     .13879    -.05527    5.22320    7.93760     .20076
  -300.640    400.610   -.03537     .21326     .00855    -.52728     .14815    -.05722    5.17160    7.99640     .41621

                            RUN NO.  898/ 0    RN/L =   3.99

     Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA      X
  -199.840    -99.087   -.01365     .21480    -.00481    -.46499     .12066    -.05282    5.15550    7.99880     .21836
  -199.580       .200   -.01235     .21471    -.00518    -.47014     .12803    -.05542    5.21120    8.04360    -.10676
  -197.280     99.759   -.01147     .21359    -.00635    -.47320     .12878    -.05544    5.17490    8.00000    -.51955
  -197.250    198.050   -.01351     .21304    -.00551    -.48603     .13095    -.05445    5.26900    7.96810    -.47004
  -199.060    400.610   -.03174     .21324     .00602    -.52080     .14465    -.05689    5.18120    7.96240     .09078
```

```
                                  AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.              (RTU300)    ( 03 OCT 74  )

              REFERENCE DATA                                                                     PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                    MACH   =      4.520  PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                                    ALPHA  =      -.500  BETA   =    15.700
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                    DALPHA =     -4.800  DBETA  =     8.000
SCALE =       .0100                                                                      X      =       .000

                    RUN NO.   900/ 0    RN/L =   4.00

     Y          Z          CN          CA         CLM         CY          CYN        CBL        DLTALF     DLTBTA      X
 -300.020    100.650    -.00807     .21328     -.00982    -.48595     .12578    -.05192    -4.80910    8.02290     .03738
 -299.600    199.930    -.01110     .21193     -.00820    -.49808     .13078    -.05305    -4.79210    7.99840    -.05247
 -299.760    399.860    -.02978     .21145      .00427    -.51692     .14259    -.05635    -4.78630    8.00050     .03273

                    RUN NO.   901/ 0    RN/L =   3.99

     Y          Z          CN          CA         CLM         CY          CYN        CBL        DLTALF     DLTBTA      X
 -198.030     99.306    -.00570     .21422     -.01241    -.45557     .11923    -.05150    -4.79600    7.92100   -1.02220
 -200.770    199.450    -.00365     .21291     -.01265    -.46359     .12086    -.05315    -4.81240    8.05920     .53756
 -199.590    399.820    -.01214     .21017     -.00723    -.50577     .13566    -.05472    -4.78740    7.99690     .07866

                                  AEDC/VA528(IA87)-O1ET1S1-ORB/ET W L/H SRB SEPAR.              (RTU301)    ( 03 OCT 74  )

              REFERENCE DATA                                                                     PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                    MACH   =      4.520  PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                                    ALPHA  =      -.500  BETA   =    15.700
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                    DALPHA =     -4.800  DBETA  =     8.000
SCALE =       .0100                                                                      X      =    300.000

                    RUN NO.   903/ 0    RN/L =   3.99

     Y          Z          CN          CA         CLM         CY          CYN        CBL        DLTALF     DLTBTA      X
 -298.720     99.795    -.01880     .21227     -.00342    -.50566     .13593    -.05376    -4.78620    7.97210  300.03000
 -300.580    199.000    -.02528     .21187      .00117    -.51156     .13911    -.05541    -4.77580    8.04290  300.24000
 -304.590    401.700    -.03508     .21243      .00822    -.52439     .14675    -.05716    -4.88000    8.09350  301.06000

                    RUN NO.   902/ 0    RN/L =   4.00

     Y          Z          CN          CA         CLM         CY          CYN        CBL        DLTALF     DLTBTA      X
 -197.210    101.800    -.01123     .21259     -.00747    -.49482     .13081    -.05329    -4.85650    7.92300  300.19000
 -200.290    200.030    -.01450     .21253     -.00517    -.50045     .13328    -.05461    -4.79480    8.02100  300.17000
 -197.530    398.160    -.02924     .21181      .00421    -.51653     .14252    -.05633    -4.73150    7.91360  299.79000
```

```
DATE 20 MAY 75                                 IA87 TABULATED SOURCE DATA                                        PAGE  249

                                    AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR.          (RTU302)    ( 03 OCT 74  )

            REFERENCE DATA                                                                   PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =      4.520  PTOTL  =     60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                          ALPHA  =      -.500  BETA   =     15.700
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          CALPHA =       .200  CBETA  =      4.000
SCALE =      .0100                                                             X      =       .000

                         RUN NO.  906/ 0    RN/L =   4.00

     Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   10.387   -100.540    -.04714     .20657     .01468    -.51290     .12809    -.05754     .22286    3.99420    .15459
   12.782      1.379    -.04274     .21374     .01454    -.51877     .13253    -.05761     .14924    3.93350    .04438
   10.760     99.724    -.03614     .21352     .00822    -.52633     .13757    -.06156     .20522    3.98840    .11636
   10.795    199.760    -.02485     .21628     .00219    -.55156     .15530    -.06486     .21313    3.99170    .12267
   10.517    399.940    -.02707     .21458     .00552    -.54595     .15728    -.05669     .23543    3.99620   -.00530

                         RUN NO.  905/ 0    RN/L =   4.00

     Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   99.714    -99.424    -.06451     .20472     .02820    -.50696     .12961    -.05325     .20088    3.99600    .09044
  100.860      -.205    -.04981     .21393     .01865    -.51839     .14020    -.05864     .22374    4.01140    .02072
  101.690     99.924    -.03552     .21708     .00892    -.52632     .14606    -.06238     .19654    3.97460    .02499
  104.070    199.360    -.02577     .21840     .00201    -.54190     .15440    -.06376     .22912    3.91100    .33333
  100.880    399.940    -.02895     .21463     .00559    -.54446     .15708    -.05687     .22093    3.97920    .07791

                         RUN NO.  904/ 0    RN/L =   3.99

     Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  200.850    -99.975    -.06672     .20592     .03107    -.51479     .13281    -.05052     .22498    3.99090    .31382
  199.540      -.108    -.04995     .21372     .01943    -.52224     .14175    -.05775     .22165    4.03230   -.17202
  200.860     99.891    -.04035     .21783     .01310    -.53392     .15058    -.06076     .21114    3.97090    .03375
  200.790    200.240    -.01882     .21971    -.00246    -.54412     .15703    -.06387     .21600    3.97720    .08700
  199.930    399.780    -.03078     .21457     .00609    -.54222     .15658    -.05689     .22928    3.99360    .01446
```

```
                    AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.                 (RTU303)    ( 03 OCT 74  )

             REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =     4.520   PTOTL  =     60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                          ALPHA  =     -.500   BETA   =     15.700
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          CALPHA =      .200   DBETA  =      4.000
SCALE =      .0100                                                             X      =   300.000

                        RUN NO.   907/ 0    RN/L =   4.00

    Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF    DLTBTA      X
  10.461   -101.330    -.04485     .20530     .01340    -.52563     .13676    -.05829     .26323    4.03070  300.25000
  10.263      -.201    -.04050     .21193     .01350    -.52933     .14332    -.06179     .20774    4.00360  300.15000
  10.263     99.949    -.02771     .21793     .00477    -.54370     .15383    -.06469     .20419    4.00460  300.13000
   9.759    199.580     .00405     .21755    -.01668    -.55390     .15858    -.06737     .21437    4.01430  300.18000
  11.134    400.480    -.02727     .21485     .00378    -.53777     .15471    -.05679     .21416    3.96100  299.84000

                        RUN NO.   908/ 0    RN/L =   4.00

    Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF    DLTBTA      X
  99.038    -99.395    -.05480     .20884     .02178    -.52952     .14261    -.05607     .18502    4.07380  300.15000
 101.260      -.219    -.03972     .21658     .01321    -.53898     .15176    -.06123     .21764    3.94350  299.71000
  98.525    100.270    -.01642     .22004    -.00321    -.54413     .15665    -.06461     .18657    4.06930  300.20000
  98.043    199.730    -.00935     .21537    -.01037    -.54386     .15640    -.06363     .21542    4.05200  300.15000
 100.260    399.890    -.02903     .21470     .00433    -.53719     .15435    -.05695     .22797    3.99760  299.92000

                    AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.                 (RTU304)    ( 03 OCT 74  )

             REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                          MACH   =     4.520   PTOTL  =     60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                          ALPHA  =     -.500   BETA   =     15.700
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                          CALPHA =     5.200   DBETA  =      4.000
SCALE =      .0100                                                             X      =   300.000

                        RUN NO.   910/ 0    RN/L =   3.99

    Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF    DLTBTA      X
  11.948    101.980    -.05323     .20719     .02094    -.52423     .13530    -.05626    5.28120    3.91770  299.92000
   9.061      1.266    -.04150     .21297     .01430    -.52596     .14236    -.06119    5.14410    4.08410  299.84000
  10.481     99.733    -.02624     .22024     .00438    -.53923     .15256    -.06335    5.20590    3.99200  300.04000
  10.060    201.880    -.00695     .21538    -.01111    -.54582     .15491    -.06421    5.13530    3.99150  300.01000
  10.081    399.830    -.02849     .21478     .00421    -.53496     .15303    -.05694    5.22300    4.00180  299.96000
```

```
                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR.          (RTU304)   ( 03 OCT 74  )

           REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                            MACH   =      4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                           ALPHA  =      -.500   BETA   =    15.700
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                            DALPHA =      5.200   DBETA  =     4.000
SCALE =       .0100                                                              X      =    300.000

                    RUN NO.   909/ 0    RN/L =   3.99

     Y          Z         CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA      X
  100.000   -100.740   -.04768    .20990     .01750   -.53214    .14415   -.05774    5.23610    3.98290  300.16000
  102.000     -1.274   -.03746    .21751     .01199   -.53727    .15071   -.06079    5.26930    3.94350  300.34000
  102.120    100.450   -.02088    .21863    -.00040   -.53939    .15417   -.06272    5.20210    3.95070  299.89000
  100.180    199.700   -.01673    .21479    -.00573   -.53958    .15401   -.06184    5.21110    3.99890  300.01000
  100.380    399.750   -.03043    .21471     .00508   -.53429    .15251   -.05708    5.22190    3.99590  300.08000

                              AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/M SRB SEPAR.          (RTU305)   ( 03 OCT 74  )

           REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                            MACH   =      4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT                           ALPHA  =      -.500   BETA   =    15.700
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                            DALPHA =      5.200   DBETA  =     4.000
SCALE =       .0100                                                              X      =   [illegible]

                    RUN NO.   911/ 0    RN/L =   4.00

     Y          Z         CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA      X
   10.579    -99.977   -.05427    .21093     .02174   -.51125    .12668   -.05601    5.20630    3.99360     .06016
   10.853       .145   -.04324    .21192     .01498   -.51229    .12998   -.05686    5.19340    3.98980     .03263
   10.000     99.882   -.04120    .21359     .01245   -.52836    .14136   -.06044    5.20690    3.99790    -.07776
    9.912    199.810   -.02750    .21679     .00377   -.54542    .15435   -.06291    5.21010    4.00420    -.01004
    9.660    399.790   -.02955    .21487     .00686   -.54215    .15576   -.05666    5.22800    4.03080     .22211

                    RUN NO.   912/ 0    RN/L =   3.99

     Y          Z         CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA      X
  100.220   -100.130   -.06327    .21009     .02835   -.51185    .13450   -.05525    5.20790    3.99900    -.01107
  101.350       .583   -.04432    .21499     .01517   -.51718    .14043   -.05928    5.15660    3.99500    -.05103
  101.760    100.010   -.03389    .21699     .00755   -.52690    .14713   -.06239    5.17350    3.97470     .37067
   99.392    199.150   -.02743    .21913     .00335   -.53872    .15339   -.06242    5.22110    4.03200     .26602
   98.306    399.810   -.03090    .21473     .00680   -.54096    .15559   -.05677    5.22250    4.06880     .26371
```

```
                                  AEDC/VA528(IA87)-O1ET1S1-ORB/ET W R/H SRB SEPAR.               (RTU305)    ( 03 OCT 74  )

                  REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                      MACH   =     4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT                                      ALPHA  =     -.500   BETA   =    15.700
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT                                      DALPHA =     5.200   DBETA  =     4.000
SCALE =       .0100                                                                        X      =      .000

                              RUN NO.  913/ 0    RN/L =   4.00

     Y          Z          CN          CA         CLM         CY          CYN         CBL        DLTALF      DLTBTA        X
  200.010   -100.610    -.05284      .21029      .02128     -.51650      .13532     -.05460     5.24720     4.00540      .33336
  200.050      -.328    -.04530      .21419      .01643     -.52263      .14254     -.05854     5.22470     4.00010      .05072
  200.250     99.714    -.03951      .21822      .01252     -.53148      .14975     -.06024     5.20870     4.00070     -.02523
  201.130    199.920    -.02079      .21815     -.00121     -.53914      .15442     -.06266     5.21170     4.00220      .07513
  201.340    399.540    -.03141      .21463      .00642     -.53861      .15494     -.05681     5.23750     3.97470      .39025

                                  AEDC/VA528(IA87)-O1ET1-ISOLATED ORB/ET                         (RTU306)    ( 16 APR 75  )

                  REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                      BETA   =      .000   PTOTL  =   100.500
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT
SCALE =       .0100

                              RUN NO.   55/ 0    RN/L =   6.48

                          MACH      ALPHA       CN          CA         CLM         CY          CYN         CBL
                          4.520     -.398     -.07395      .18657      .03060      .00907     -.00267      .00114

                                  AEDC/VA528(IA87)-O1ET1-ISOLATED ORB/ET                         (RTU307)    ( 16 APR 75  )

                  REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                                      BETA   =      .000   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT
SCALE =       .0100

                              RUN NO.  184/ 0    RN/L =   5.85

                          MACH      ALPHA       CN          CA         CLM         CY          CYN         CBL
                          4.520    -5.704     -.21408      .21185      .06632      .00688     -.00188      .00100
```

```
                    AEDC/VA528(IA87)-O1ET1-ISOLATED ORB/ET               (RTU308)   ( 16 APR 75  )

          REFERENCE DATA                                                 PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT              BETA  =      .000   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT
SCALE =       .0100

              RUN NO.  239/ 0    RN/L =   5.86

             MACH      ALPHA      CN        CA        CLM       CY        CYN       CBL
             4.520     10.303     .19566    .15822    -.03469   .00630    -.00248   .00067

                    AEDC/VA528(IA87)-O1ET1-ISOLATED ORB/ET               (RTU309)   ( 16 APR 75  )

          REFERENCE DATA                                                 PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT              BETA  =     5.400   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT
SCALE =       .0100

              RUN NO.  294/ 0    RN/L =   5.85

             MACH      ALPHA      CN        CA        CLM       CY        CYN       CBL
             4.520      -.390     -.06249   .19047    .02448    -.16448   .04055    -.01730

                    AEDC/VA528(IA87)-O1ET1-ISOLATED ORB/ET               (RTU510)   ( 16 APR 75  )

          REFERENCE DATA                                                 PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT              BETA  =    10.900   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT
SCALE =       .0100

              RUN NO.  403/ 0    RN/L =   5.87

             MACH      ALPHA      CN        CA        CLM       CY        CYN       CBL
             4.520      -.320     -.05064   .20136    .01547    -.34595   .09352    -.03718
```

```
                                AEDC/VA528(IA87)-O1ET1-ISOLATED ORB/ET                    (RTU311)   ( 16 APR 75  )

          REFERENCE DATA                                                                   PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                               BETA   =    10.800   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT
SCALE =       .0100

                         RUN NO.  512/ 0    RN/L =   5.95

                        MACH      ALPHA      CN        CA        CLM       CY        CYN       CBL
                        4.520     -5.918    -.20040    .23225    .05684   -.37418    .10731   -.03728

                                AEDC/VA528(IA87)-O1ET1-ISOLATED ORB/ET                    (RTU312)   ( 16 APR 75  )

          REFERENCE DATA                                                                   PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                               BETA   =    11.000   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT
SCALE =       .0100

                         RUN NO.  615/ 0    RN/L =   5.97

                        MACH      ALPHA      CN        CA        CLM       CY        CYN       CBL
                        4.520     10.207     .23863    .16191   -.06211   -.29709    .06560   -.03380

                                AEDC/VA528(IA87)-O1ET1-ISOLATED ORB/ET                    (RTU313)   ( 16 APR 75  )

          REFERENCE DATA                                                                   PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                               BETA   =    15.800   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YT
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT
SCALE =       .0100

                         RUN NO.  733/ 0    RN/L =   4.02

                        MACH      ALPHA      CN        CA        CLM       CY        CYN       CBL
                        4.520     10.048     .26946    .17708   -.07963   -.46941    .11450   -.05426
```

```
                                  AEDC/VA528(IA87)-O1ET1-ISOLATED ORB/ET                    (RTJ31 )    ( 16 APR 75  )

            REFERENCE DATA                                                                   PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.   XMRP  =  1097.0000 IN. XT                           BETA   =    15.700   PTOTL  =    80.400
 LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YT
 BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZT
 SCALE =       .0190

                         RUN NO.  855/ 0    RN/L =   4.01

                       MACH      ALPHA      CN         CA         CLM        CY         CYN        CBL
                       4.520     -.470     -.03586    .21504     .00879    -.52868     .14881    -.05727

                                  AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET            (ATU001)    ( 03 OCT 74  )

            REFERENCE DATA                                                                   PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                           MACH   =     4.520   PTOTL  =   100.500
 LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                           ALPHA  =     -.400   BETA   =      .000
 BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                           CALPHA =      .000   CBETA  =      .000
 SCALE =       .0190                                                              X      =      .000

                         RUN NO.    4/ 0    RN/L =   6.51

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
    11.398    -100.560    -.01000     .02686     .00167     .00944     .01088     .00001     .02835    -.05629    -.10364
    10.166       -.172    -.01446     .02369     .00060    -.00521     .00748     .00001     .01615    -.00113     .00877
     8.672     100.160    -.00846     .02469    -.00006    -.00948     .00642     .00000    -.01092     .05358     .03775
    10.440     199.530    -.00644     .02952    -.00501    -.00120     .00922    -.00000     .02794     .00812    -.03979
    10.494     399.770    -.00697     .02175    -.00612     .00238     .00434    -.00000     .01198    -.01537    -.08483

                         RUN NO.    3/ 0    RN/L =   6.51

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   101.750    -101.460    -.00086     .02854     .00281     .02025     .01408    -.00000     .06416    -.01934    -.07218
   101.840      -2.217    -.00938     .03112     .00262     .01273     .01448     .00000     .09685    -.06325    -.12521
   100.610      99.923    -.01202     .03110    -.00029     .01064     .01339     .00000     .01161    -.00196    -.17186
   100.940     199.990    -.00998     .02728    -.00525     .00907     .01232    -.00000     .00489    -.01210    -.21078
   101.120     400.790    -.00438     .02094    -.00564     .00204     .00496    -.00001    -.02884    -.03451    -.08430

                         RUN NO.    2/ 0    RN/L =   6.51

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   199.720    -100.150    -.00282     .02249     .00143     .01515     .00493    -.00000     .01560     .00581    -.13203
   200.500        .058    -.00847     .02350     .00266     .01211     .00630     .00000     .02187    -.03600    -.20976
   199.800     100.870    -.00739     .02262     .00035     .00871     .00621     .00000    -.02864     .00308    -.09324
   199.610     200.710    -.00649     .02229    -.00167     .00662     .00571    -.00000    -.02947     .02113    -.20003
   199.570     400.320    -.00431     .02119    -.00387     .00257     .00404    -.00001    -.02668     .05214    -.06939
```

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET (ATU001) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 FTOTL = 100.500
ALPHA = -.400 BETA = .000
DALPHA = .000 DBETA = .000
X = .000

RUN NO. 1/ 0 RN/L = 6.51

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
398.760	-100.590	-.00205	.02351	.00141	.01424	-.00204	-.00000	.03892	.07706	-.19744
400.130	-.501	-.00106	.02154	.00005	.00736	.00172	-.00000	.03216	.00971	-.26277
400.670	99.663	-.00234	.02171	-.00050	.00669	.00251	-.00000	.01996	-.02492	-.23291
402.200	200.130	-.00353	.02165	-.00062	.00732	.00162	-.00000	-.00628	-.09064	-.13448
400.800	400.270	-.00714	.02238	.00088	.00953	-.00163	.00000	.00276	-.01865	-.13292

AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET (ATU002) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 FTOTL = 100.500
ALPHA = -.400 BETA = .000
DALPHA = .000 DBETA = .000
X = 300.000

RUN NO. 5/ 0 RN/L = 6.51

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
10.449	-100.110	-.01213	.01638	-.00275	.00524	.00860	.00001	.01258	-.00550	299.98000
12.647	.747	-.01217	.01521	-.00345	-.00557	.00578	.00001	-.02197	-.08387	299.93000
11.450	100.440	-.00631	.01641	-.00175	-.01166	.00410	.00001	-.00656	-.05857	299.91000
10.895	199.900	-.00098	.01886	-.00107	-.00859	.00236	-.00000	.01361	-.01661	299.99000
11.300	400.700	-.00980	.02885	-.00754	.00399	.00549	-.00000	-.02204	-.01866	299.99000

RUN NO. 6/ 0 RN/L = 6.50

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
98.565	-100.700	-.00636	.02385	-.00216	.00215	.00668	-.00000	.03443	.08202	299.90000
98.142	-.074	-.00757	.02136	-.00209	-.00405	.00447	.00000	.00483	.06957	299.82000
99.328	99.131	-.00896	.02295	.00062	-.00669	.00353	.00000	.06256	.02622	299.91000
101.160	200.300	-.00482	.02577	-.00131	-.00247	.00401	-.00000	-.01204	-.02659	299.97000
100.690	399.790	-.00467	.02512	-.00738	.00509	.00591	-.00000	.01399	-.00949	299.88000

```
                           AEDC/VA528(IA87)-O1ET1S1-R/M SRB SEPAR.FROM O/ET          (ATU002)   ( 03 OCT 74  )

        REFERENCE DATA                                                                       PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1250.5000 IN. XS                        MACH   =     4.520   PTOTL  =   100.500
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                        ALPHA  =     -.400   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                        DALPHA =      .000   DBETA  =      .000
SCALE =       .0100                                                          X      =   300.000

                          RUN NO.    7/ 0    RN/L =   6.50

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  201.010   -101.310    -.00015     .02894     .00123     .01407     .01220    -.00001     .05965    -.07081  299.91000
  201.430      -.336    -.00808     .03035    -.00003     .01297     .00928    -.00000    -.00426    -.04373  299.88000
  200.170     98.328    -.01228     .03101     .00164     .01126     .00805     .00001     .09959     .02019  299.88000
  200.200    199.850    -.00831     .02652    -.00307     .00997     .00946    -.00000     .01533     .00420  299.96000
  199.360    397.760    -.00357     .02147    -.00435     .00167     .00501    -.00001     .08515     .04191  299.89000

                          RUN NO.    8/ 0    RN/L =   6.50

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  400.680   -100.160    -.00213     .02297     .00150     .01163     .00163    -.00000     .01437    -.01500  299.89000
  400.780      -.005    -.00592     .02377     00221      .01135     .00165     .00000     .01772    -.01282  299.95000
  400.880    100.550     00441      .02231     .00042     .00712     .00344    -.00000    -.02247    -.04543  299.87000
  400.460    200.530    -.00309     .02140    -.00147     .00368     .00415    -.00001    -.02550    -.02013  299.88000
  399.320    399.840    -.00156     .02139    -.00067     .00453     .00164    -.00000     .01271     .05344  299.86000

                           AEDC/VA528(IA87)-O1ET1S1-R/M SRB SEPAR.FROM O/ET          (ATU003)   ( 03 OCT 74  )

        REFERENCE DATA                                                                       PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1250.5000 IN. XS                        MACH   =     4.520   PTOTL  =   100.500
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                        ALPHA  =     -.400   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                        DALPHA =     5.000   DBETA  =      .000
SCALE =       .0100                                                          X      =   300.000

                          RUN NO.   12/ 0    RN/L =   6.50

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   11.040    -99.117     .01051     .01678     .00266    -.00734     .00836    -.00000    4.95350    -.06844  299.75000
    7.956       .409     .01144     .01711     .00200    -.01133     .00532    -.00001    4.98280     .09128  299.92000
   10.637     99.798     .01281     .01791     .00259    -.00660     .00165    -.00001    3.01140    -.01164  299.90000
    9.505    198.580     .01614     .01973     .00437    -.00452    -.00023    -.00001    5.05040     .04318  300.02000
   10.320    398.640     .01484     .02821    -.00121     .00506     .00592    -.00002    5.01070     .00592  300.00000
```

AEDC/VA528(IA87)-C1(1.9)-R/M SRB SEPAR.FROM O/ET (ATU[illegible]) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1259.5000 IN. XO
LREF = 1290.3000 INCHES YMRP = .0000 IN. YO
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

MACH = [illegible] ATOIL = 100.500
ALPHA = -.400 BETA = .000
DALPHA = 5.000 DBETA = .000
X = 300.000

RUN NO. 11/ 0 RN/L = 6.51

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.690	-100.030	.01038	.02418	.00584	-.00709	.00978	-.00006	5.00120	-.00769	299.98000
101.400	-.480	.00971	.02324	.00565	-.00919	.00373	-.00020	5.01380	-.06281	299.89000
99.847	103.410	.01292	.02364	.00502	-.00169	.00165	-.00011	4.99700	.01337	299.85000
100.040	199.950	.01519	.02603	.00643	.00154	.00230	-.00001	5.00530	-.02422	299.97000
101.700	401.340	.01575	.02445	-.00778	.00481	.00724	-.00002	4.95110	-.06268	299.75000

RUN NO. 10/ 0 RN/L = 6.50

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.310	-99.976	.02035	.02990	.01126	.01520	.01015	-.00081	5.00530	.00322	299.84000
199.230	1.001	.01301	.03072	.01044	.01125	.00600	-.00071	4.97440	.02329	299.91000
200.040	101.090	.01423	.02980	.00737	.00945	.00519	-.00011	4.95900	.00139	299.84000
200.470	200.765	.01511	.02777	.00472	.00295	.00025	-.00052	4.94130	-.03156	299.84500
200.430	399.620	.01953	.02149	.00262	.00520	.00207	-.00012	5.00980	-.01343	299.95000

RUN NO. 9/ 0 RN/L = 5.49

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
399.830	-100.940	.02192	.02213	.00882	.05540	.01247	-.00001	5.05310	.03496	299.95000
400.520	-.886	.02241	.02158	.00603	.02134	.01595	-.00002	5.04900	-.00154	299.94000
400.720	99.357	.02383	.02166	.00479	.05257	.01551	-.00002	5.53170	-.03269	299.94000
400.350	199.770	.02257	.02216	.01357	.01288	.00425	-.00002	5.01310	.00503	299.96000
400.340	359.540	.01996	.02275	.01834	.01715	-.02049	-.00001	5.00630	-.00808	299.96000

AEDC/VA828(IA87)--JETS1-R/M SRB SEPAR.FROM O/ET (ATU004) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1218.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 100.900
ALPHA = -.400 BETA = .000
DALPHA = 5.000 DBETA = .000
[illegible] = .000

RUN NO. 137/ 0 RN/L = 6.57

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
10.334	-99.623	.00977	.02738	.01557	-.00103	.01288	-.00001	4.96920	.02630	-.22090
10.098	-.196	.01128	.02457	.03606	-.00273	.00725	-.00001	5.01210	-.00240	-.12647
10.324	99.439	.01445	.02593	.00575	-.00070	.00377	-.00002	5.00910	-.03151	-.20354
10.230	199.630	.01088	.02956	[illegible]	.00393	.00736	-.00002	5.01400	.01138	-.13992
9.330	398.840	.01725	.02205	[illegible]	.00272	.00435	-.00002	5.05780	.03219	-.04832

RUN NO. [illegible]/ 0 RN/L = 6.46

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
[illegible]	-100.000	.01956	.02305	.02416	.01242	.01435	-.00001	5.00970	-.01244	-.08817
99.213	2.250	.01575	.03071	.01050	.00917	.01369	-.00001	4.90540	.04036	-.26631
94.598	197.290	[illegible]	.03006	.00806	.00915	.01381	-.00002	4.90500	.02565	-.24351
[illegible]	[illegible]	.01366	.02745	.00255	.00862	.01157	-.00002	4.93860	.03641	-.18314
[illegible]	399.640	.01583	.02213	.00107	.00410	.00605	-.00002	5.01090	-.01833	-.12483

RUN NO. 157/ 0 RN/L = 6.58

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.01500	[illegible]	-.00001	5.05870	.02537	-.15785
[illegible]	-1.229	[illegible]	[illegible]	[illegible]	.01085	.00662	-.00001	5.05790	-.01314	.00411
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.00673	.00731	-.00002	5.07200	-.02788	.04432
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.00384	.00709	-.00002	5.01060	-.00714	-.04612
[illegible]	358.918	[illegible]	[illegible]	.00279	.00581	[illegible]	-.00001	5.04580	.04772	.01998

RUN NO. [illegible] RN/L = 6.48

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
[illegible]	[illegible]	.02534	[illegible]	[illegible]	.00453	.00322	-.00002	5.00750	-.01451	-.12888
[illegible]	.134	.02444	[illegible]	[illegible]	.00417	.00316	-.00002	4.99720	-.00226	-.18461
[illegible]	[illegible]	.02382	[illegible]	.00269	[illegible]	.00217	-.00001	4.99910	.01714	-.27532
[illegible]	[illegible]	.02015	[illegible]	[illegible]	[illegible]	.00035	-.00001	5.00010	.03370	-.13545
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.00773	-.00304	[illegible]	5.05520	.06141	-.02722

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA88(IA87)-ORBT151-R/H SRB SEPAR.FROM O/ET (ATU008) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1233.9700 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 100.500
ALPHA = -.400 BETA = .000
DALPHA = -5.000 DBETA = .000
X = .000

RUN NO. 20/ 0 RN/L = 6.51

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
10.656	-.163	-.04459	.02360	-.00461	.02110	.00209	.00002	-4.98110	-.01376	-.12769
9.736	100.060	-.03735	.02370	-.00676	.01007	.00458	.00002	-5.02030	-.02565	-.17119
10.374	199.580	-.03753	.02055	-.01112	.00544	.00545	.00002	-4.98250	-.00120	-.19294
10.963	399.960	-.03729	.02239	-.01397	.00625	.00476	.00001	-4.98420	-.02381	-.17431

RUN NO. 19/ 0 RN/L = 5.51

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
202.490	-1.290	-.03639	.02995	-.00754	.02455	.01265	.00001	-4.98130	-.04222	-.22035
201.880	98.093	-.03983	.03135	-.00898	.01609	.01250	.00002	-4.98060	-.05923	-.29730
198.890	249.050	-.04486	.02958	-.01002	.01186	.01219	.00002	-5.00190	-.00648	-.16873
199.836	401.130	-.03712	.02242	-.01325	.00897	.01286	.00001	-5.03230	-.00673	.00433

RUN NO. 18/ 0 RN/L = 6.50

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
209.710	-.226	-.03385	.02176	-.00654	.01880	.00585	.00002	-4.99030	-.01095	-.29874
200.390	100.210	-.03684	.02339	-.00825	.01792	.00321	.00002	-4.99380	-.00122	-.12571
199.096	200.210	-.03800	.02354	-.00846	.01484	.00392	.00002	-5.00170	.03911	-.20051
197.920	450.120	-.03336	.02126	-.00888	.00817	.00334	.00001	-5.05410	.04489	-.20402

RUN NO. 17/ 0 RN/L = 6.48

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
399.200	-.617	-.02650	.02413	-.05528	.01236	-.00158	.00001	-4.98640	.06291	-.26732
400.220	35.351	-.02903	.02215	-.05434	.00842	.00162	.00001	-4.96730	.02121	-.27728
451.510	250.530	-.02894	.02175	-.00554	.00500	.00307	.00053	-4.93490	-.00150	-.12695
499.410	450.010	-.02962	.02196	-.00491	.05434	.00084	.00001	-4.99990	-.00621	-.15905

```
DATE 25 MAY 74                            IA87 TABULATED SOURCE DATA                                   PAGE  261

                               AEDC/VA528(IA87)-OAET151-R/H SRB SEPAR.FROM O/ET          (A7U005)   ( 03 OCT 74  )

          REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1254.3000 IN. XS                          MACH   =    4.520   PTOTL  =   100.900
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                          ALPHA  =    -.400   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                          DALPHA =   -5.000   DBETA  =      .000
SCALE =      .0100                                                             X      =  300.000

                         RUN NO.    21/ 0    RN/L =    6.51

      Y          Z          CN          CA          CLM         CY          CYN         CBL       DLTALF      DLTBTA      X
   10.032      -.064     -.04024      .01529     -.03888      .01501      .00479      .00002    -4.99440    -.00443  299.93000
   12.036    100.630     -.03768      .01698     -.03797      .00113      .00191      .00001    -5.02020    -.03715  300.11000
   10.472    200.080     -.02437      .01780     -.03654     -.00657      .00236      .00001    -4.99550    -.01502  300.04000
   10.441    400.640     -.03118      .02097     -.03775      .00217      .00656     -.00000    -5.04230    -.02869  300.09000

                         RUN NO.    22/ 0    RN/L =    6.52

      Y          Z          CN          CA          CLM         CY          CYN         CBL       DLTALF      DLTBTA      X
  101.070      -.158     -.03204      .02230     -.00834      .00820      .00316      .00001    -4.98940    -.02058  299.96000
   95.429     99.541     -.02841      .02137     -.00820      .00425      .00220      .00001    -4.99620     .02480  299.84000
  101.490    199.720     -.03217      .02612     -.00631      .00118      .00439      .00002    -4.96090    -.05875  299.85000
  100.849    399.690     -.03704      .02727     -.01542      .00411      .00707      .00000    -4.98410    -.00842  299.85000

                         RUN NO.    23/ 0    RN/L =    6.51

      Y          Z          CN          CA          CLM         CY          CYN         CBL       DLTALF      DLTBTA      X
  201.870     -1.233     -.02539      .02947     -.00988      .01679      .01079      .00000    -4.96350    -.05765  299.81000
  200.300     99.860     -.03151      .03058     -.01066      .01570      .00912      .00001    -5.00990    -.00377  299.90000
  200.890    199.880     -.04079      .03127     -.00844      .01334      .00870      .00002    -4.98005    -.00452  299.85000
  200.440    398.930     -.03363      .02190     -.01052      .00593      .00406      .00001    -4.99140    -.00727  299.85000

                         RUN NO.    24/ 0    RN/L =    6.55

      Y          Z          CN          CA          CLM         CY          CYN         CBL       DLTALF      DLTBTA      X
  400.340      -.067     -.03152      .02007     -.00417      .00362      .00292      .00001    -4.99070    -.01510  299.84000
  400.290    100.180     -.03439      .02316     -.00424      .02593      .00229      .00001    -4.99570     .00405  299.83000
  400.860    200.120     -.03314      .02300     -.00526      .01694      .00263      .00001    -5.00290    -.01451  299.98000
  399.820    400.220     -.02967      .02145     -.00699      .00176      .00345      .00001    -5.01005    -.01176  299.97000
```

```
                         AEDC/VA520(IA87)-ORETI01-B/M SRB SEPAR.PROX CRST              (ATU007)   ( 03 OCT 74 )

            REFERENCE DATA                                                          PARAMETRIC DATA

BREF  =  2690.0000 SQ.FT.   XMRP  =  1250.5000 IN. XB                    MACH   =    4.320   PTOTL  =  100.900
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YB                    ALPHA  =    -.400   BETA   =     .000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZB                    DALPHA =     .000   DBETA  =   -4.000
SCALE =      .0100                                                       Y      =     .000

                        RUN NO.   27/ 0    RN/L =  6.50

     Y          Z          CN         CA        CLM         CY         CYN        CBL       DLTALF     DLTBTA       X
   98.865   -100.010    -.01447     .02784     .00601     .04598     .02859     .00001     .00791   -3.98510    -.19877
   99.382      -.071    -.01182     .02903     .00169     .02640     .02641    -.00000     .01039   -3.98640    -.27179
   99.432     99.934    -.00980     .02845    -.00225     .02095     .02428    -.00001     .00951   -3.98090    -.25414
   98.714    199.450    -.00683     .02720    -.00727     .02640     .02114    -.00002     .01363   -3.99240    -.25494
  190.510    400.520    -.00814     .02125    -.00398     .02441     .01004    -.00001    -.00394   -4.03210    -.08868

                        RUN NO.   26/ 0    RN/L =  6.50

     Y          Z          CN         CA        CLM         CY         CYN        CBL       DLTALF     DLTBTA       X
  199.800   -100.180    -.01678     .02213     .00191     .04352     .01111     .00000     .01469   -4.01120    -.09338
  200.000      -.158    -.01193     .02274     .00349     .03529     .01473     .00001     .01299   -4.00520    -.10663
  199.000    101.220    -.00971     .02254     .00039     .02853     .01529    -.00000    -.04566   -3.99030    -.01714
  193.700    199.780    -.00945     .02247    -.00142     .02780     .01227    -.00000     .01377   -3.99770    -.01876
  190.730    399.780    -.00618     .02029    -.00353     .02295     .00894    -.00007     .01447   -4.00070    -.08360

                        RUN NO.   25/ 0    RN/L =  6.50

     Y          Z          CN         CA        CLM         CY         CYN        CBL       DLTALF     DLTBTA       X
  400.190    -99.890    -.00341     .02244     .00142     .03504     .00338    -.00000    -.01175   -3.97910    -.23140
  400.090      -.959    -.00734     .02333     .00325     .03158     .00484     .00001     .00175   -3.98820    -.17523
  400.370     99.236    -.00405     .02183     .00048     .02702     .00979     .00000     .01737   -3.99480    -.13128
  402.260    199.670    -.00333     .02058    -.00108     .02408     .00781    -.00000     .02245   -4.00090    -.05187
  390.830    400.150    -.00429     .02065    -.00124     .02260     .00515    -.00000     .00190   -3.99390    -.12733
```

```
                               AEDC/VA528(IA87)-ORBT[illegible] SEPAR.FROM O/ET                (ATU008)   ( 03 OCT 74  )

          REFERENCE DATA                                                                     PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                           MACH   =     4.520   PTOTL  =   100.500
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                           ALPHA  =     -.400   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                           DALPHA =      .000   DBETA  =    -4.000
SCALE =      .0100                                                              X      =   300.000

                          RUN NO.   29/ 0   RN/L =   6.48

     Y         Z         CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA     X
  100.900  -100.540   -.01268    .02191   -.00101    .02697    .01426   -.00000    .02699   -4.02989  300.00000
   99.782     -.235   -.00775    .01955   -.00276    .00960    .01129    .00000    .01588   -4.00370  299.39000
   97.334    99.648   -.00383    .02040   -.00243    .02279    .01345   -.00000    .02016   -3.94320  299.79000
  100.320   200.240   -.00229    .02472   -.00323    .00918    .01147   -.00001    .00193   -4.02900  299.90000
  101.560   402.035   -.01229    .02627   -.00692    .02447    .01340   -.00000   -.08765   -4.05450  300.16000

                          RUN NO.   29/ 0   RN/L =   6.47

     Y         Z         CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA     X
  201.230  -101.520   -.00962    .02821    .00194    .03435    .02061   -.00001    .08479   -4.04720  299.98000
  205.400     -.576   -.00736    .02841   -.00969    .02621    .01936   -.00001    .01616   -4.00960  299.95000
  199.620    98.557   -.01011    .02947   -.00237    .02204    .01432   -.00000    .08499   -4.01450  299.89000
  199.230   199.630   -.00620    .02861   -.00450    .02646    .01874   -.00001    .01434   -3.97690  299.73000
  197.690   397.440   -.00750    .02133   -.00352    .02233    .01055   -.00001    .09466   -3.91870  299.76000

                          RUN NO.   30/ 0   RN/L =   6.47

     Y         Z         CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA     X
  400.730  -100.180   -.00182    .02161    .00047    .03189    .00924   -.00000    .01190   -4.01550  299.96000
  399.729      .013   -.00457    .02239    .00385    .03049    .00871   -.00000    .01322   -3.98740  299.94000
  400.200    99.809   -.00745    .02279    .00162    .02816    .00871    .00000    .02039   -4.00230  299.92000
  400.359   205.530   -.00605    .02181   -.00036    .02969    .00250   -.00000   -.02481   -4.00370  299.96000
  399.740   400.350   -.00383    .02048   -.00219    .02173    .00790   -.00000   -.02035   -3.97520  299.[illegible]
```

AEDC/VA528(IA67)-OIET181-R/H SRB SEPAR.FROM O/ET (RTL[illegible]) (23 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1250.9000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = [illegible]

PARAMETRIC DATA

MACH = 4.520 PTOTL = 100.900
ALPHA = -.40[illegible] BETA = .000
DALPHA = [illegible] DBETA = -4.000
X = [illegible]

RUN NO. 33[illegible] 0 RN/L = 6.31

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
99.420	-1[illegible].000	.01256	.02109	.00535	.01339	.01443	-.00001	5.00510	-3.99320	299.77000
[illegible]	-.515	.01447	.02156	.00377	.00966	.01144	-.00002	5.00920	[illegible]	299.98000
49.897	100.780	[illegible]	.02260	[illegible]	.01019	.00922	-.00001	4.99400	[illegible]210	299.71000
[illegible]	149.830	.01418	.02625	.00524	.00773	.00856	-.00001	5.00780	-4.00950	299.82000
[illegible]	[illegible].620	.01567	.02407	-.00030	.00731	.01357	-.00001	4.94900	-4.07340	299.76000

RUN NO. 32[illegible] RN/L = 6.31

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
198.790	-[illegible]	.02220	.02988	.01048	.02977	.01906	-.00002	5.00350	-3.96530	299.73000
199.100	[illegible]	.01851	.02955	.00907	.02457	.01831	-.00001	4.99070	-3.90250	299.73000
199.740	10[illegible]	.01754	.02962	.00691	.02514	.01661	-.00001	4.99340	-3.9[illegible]	29[illegible]
[illegible]	[illegible]	.01519	[illegible]	.00487	.02917	.01664	-.00001	4.97560	[illegible]	299.76000
199.[illegible]	3[illegible].570	.02201	.02133	[illegible]	.02192	[illegible]	-.00002	5.01[illegible]	-4.[illegible]	[illegible]

RUN NO. [illegible] RN/L = [illegible]

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
399.[illegible]	-150.[illegible]	.02035	.02201	.00010	.02391	.00764	[illegible]	5.03880	-3.97[illegible]	299.89000
[illegible]	[illegible]	.02108	.02250	.00786	.00076	[illegible]	-.00[illegible]	5.04510	-3.99440	299.89000
[illegible]	[illegible].151	.02255	.02193	.00692	.00775	.00951	[illegible]	5.04890	-4.0[illegible]	299.95000
[illegible]	[illegible].700	.02354	.02132	[illegible]	.02443	.00978	-.00002	5.01460	-4.00120	299.84000
400.[illegible]	[illegible]	.02289	.02130	[illegible]	.02401	.00821	-.00002	5.00730	-4.01080	299.90000

```
[illegible]                          [illegible] TABULATED SOURCE DATA                               PAGE [illegible]

                        [illegible]-0[illegible]181-[illegible] SRB SEPARATION O/E[illegible]     (ATU[illegible]10)   ( 08 [illegible] 74 )

          REFERENCE DATA                                                                  PARAMETRIC DATA

[illegible] =  [illegible] SQ.FT.   XMRP  =  [illegible]6.[illegible] IN. [illegible]S          MACH    =     4.[illegible]   PTOTL  =   [illegible].900
[illegible] =  [illegible] INCHES   YMRP  =       .0[illegible] IN. [illegible]S          ALPHA   =     -.4[illegible]   BETA   =      .000
[illegible] =  [illegible] INCHES   ZMRP  =    400.0[illegible] IN. [illegible]S          DALPHA  =    3.000   DBETA  =    -4.000
[illegible] =        [illegible]                                                          X       =      .0[illegible]

                         RUN NO.   34/ 0     [illegible] =   [illegible]

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
 [illegible] [illegible] [illegible] [illegible] [illegible]  .02[illegible]79  [illegible]  -.00002   [illegible].99430  -3.969[illegible]0  -.47132
 [illegible] [illegible] [illegible]  .0[illegible]97[illegible]  [illegible]975  [illegible]  [illegible]  -.00002   5.[illegible]1650  -4.01019    .01035
 [illegible] [illegible]  .02[illegible]  [illegible]302[illegible]  [illegible]8  .02[illegible]  .02129  -[illegible]0002   5.01290  -4.00720  -.[illegible]1654
 1[illegible].4[illegible] [illegible] [illegible]  [illegible]792  [illegible]26  .02[illegible]  [illegible]  -.0[illegible]2   5.01600  -4.01300  -.07880
 [illegible]00.[illegible] [illegible]  .21[illegible]  [illegible]  [illegible]072  [illegible]  .0[illegible]  -.00[illegible]2   5.01[illegible]0  -4.01730  -.14856

                         RUN NO.   [illegible]     [illegible] =   6.5[illegible]

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
 [illegible]9.[illegible] -1[illegible] [illegible]21  .0230[illegible]  [illegible]19  [illegible]2  [illegible]404  -[illegible]0001   5.08950  -3.97390  -.07541
 20[illegible] [illegible]295  .02256  .022[illegible]  [illegible]  .03133  [illegible]  -[illegible]002   5.04450  -4.04670  -.04586
 [illegible]  98.[illegible]12  [illegible]  .02[illegible]  [illegible]  .0[illegible]181  [illegible]346  -.00001   5.05400  -4.07300   .066[illegible]
 19[illegible]  199.820  [illegible]722  [illegible]  [illegible]  .03043  .0[illegible]162   .00002   [illegible].00860  -3.98920  -.1[illegible]73
 [illegible]  399.0[illegible]  [illegible]  [illegible]  [illegible]  .02394  .0[illegible]827  -.00002   5.[illegible]030  -3.94610  -.13852

                         RUN NO.   [illegible]     [illegible] =   6.50

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
 [illegible]  [illegible]180  [illegible]325  [illegible]243  .0[illegible]  [illegible]3110  .01392  -.00001   5.00530  -4.01590  -.11340
 [illegible].96[illegible]  [illegible]  [illegible]  .02196  .00980  [illegible]278[illegible]  [illegible]3784  -.00001   4.984[illegible]0  -4.04890  -.2271[illegible]
 [illegible]3.640  [illegible]  [illegible]  [illegible]  .00375  [illegible]2[illegible]3  [illegible]  -.00002   4.[illegible]730  -4.01330  -.19882
 [illegible]  [illegible]  .0[illegible]  [illegible]  .0[illegible]14  [illegible]2434  [illegible]  -[illegible]002   4.99080  -3.98090  -.1826[illegible]
 [illegible]  3[illegible]  [illegible]979  [illegible]  .0[illegible]31  [illegible]  [illegible]  -.00001   5.01010  -4.01210  -.08249
```

[illegible] PAGE [illegible]
[illegible] QUALITY

```
                                   AEDC/[illegible]-OET191-R/M [illegible].FLOW O/ET        (ATU011)    ( 03 OCT 74  )

          [illegible]                                                                    PARAMETRIC DATA

[illegible]  =  2690.[illegible] SQ.FT.  [illegible]  =  1250.[illegible] IN. XS           MACH    =     [illegible].520  PTOTL  =  100.900
[illegible]  =  [illegible] INCHES   [illegible]  =   [illegible] IN. YS                ALPHA   =     -.400   BETA   =     .000
[illegible]  =  1250.3[illegible] INCHES  [illegible]  =  [illegible] IN. ZS            DALPHA  =   -5.000   DBETA  =   -4.000
SCALE  =  [illegible]                                                                   X       =     .000

                          RUN NO.  [illegible]     [illegible]/L  =  [illegible].51

      X         [illegible]  [illegible]   [illegible]   CLM        CY       [illegible]   [illegible]   DLTALF     DLTBTA      X
  99.963     [illegible]  [illegible]670 [illegible] [illegible] [illegible] [illegible]  .00003  -4.97230   -3.99070   -.18436
  [illegible]418  95.9[illegible] [illegible]195 [illegible] [illegible] [illegible] [illegible]  [illegible]  -4.99[illegible]   -3.98330   -.16789
  [illegible]  [illegible]  [illegible]9   .02842   -[illegible]7  [illegible]  [illegible]  [illegible]  -5.00[illegible]   -3.98300   -.20409
  [illegible]  40[illegible]730  -.6371[illegible]  .022[illegible]  [illegible]  .0[illegible]  [illegible]  .0[illegible]00  -5.0[illegible]43   -4.0710[illegible]   -.02445

                          RUN NO.  3[illegible]     RN/L  =  [illegible]

      Y          Z        [illegible]      CA        CLM        CY       [illegible]   C[illegible]   DLTALF     DLTBTA      Y
  [illegible]279  -.[illegible]  -[illegible]  [illegible]2[illegible]2  [illegible]  [illegible]  [illegible]54  .0[illegible]  -4.98530   -3.[illegible]880   -.28377
  [illegible]870  [illegible]  [illegible]  [illegible]2368  .00[illegible]  [illegible]  .0108[illegible]  [illegible]  -5.0[illegible]   -3.99570   -.20580
  [illegible]  [illegible]  [illegible]  [illegible]11  -[illegible]7  .03496  .0110[illegible]  [illegible]  -[illegible]700[illegible]   -3.97520   -.17426
  [illegible]9.489  [illegible]  -.03[illegible]7  [illegible]2245  [illegible]56  [illegible]  .0[illegible]  .00[illegible]  -[illegible].93490   -3.997[illegible]   -.05676

                          [illegible]  37[illegible]     RN/L  =  [illegible]

      X        [illegible]     CN      [illegible]      CLM        CY        CYN       CBL     DLTALF     DLTBTA      X
  [illegible]  .386  [illegible]  [illegible]2274  -[illegible]39  .0371[illegible]  [illegible]0425  .00001  -5.019[illegible]0   -4.[illegible]20   -.07267
  [illegible]  [illegible]  [illegible]  [illegible]252[illegible]  -[illegible]  [illegible]  [illegible]37  [illegible]  4.92530   -[illegible].90610   -.24235
  [illegible]  [illegible]  [illegible]2  .[illegible]280  -[illegible]  [illegible]  [illegible]50  .00[illegible]01  -4.9619[illegible]   -4.[illegible]699   -.19563
  [illegible]  [illegible]  [illegible]7  [illegible]  -[illegible]  [illegible]  [illegible]  [illegible]  -4.99060   -3.99[illegible]30   -.15224

                                   AEDC/VA[illegible](L.907)-[illegible]ET151-R/M [illegible] FROM O/ET        (ATU012)    ( 08 OCT 74  )

          [illegible] DATA                                                                  PARAMETRIC DATA

S[illegible]  =  [illegible]00 SQ.FT.  [illegible]  =  [illegible] IN. XS             MACH    =    4.520  PTOTL  =  100.900
[illegible]  =  [illegible]000 INCHES   [illegible]  =   [illegible] IN. YS               ALPHA   =     -.400  BETA   =     .000
[illegible]  =  [illegible] INCHES   Z[illegible]  =  [illegible]000 IN. ZS               DALPHA  =   -5.000  DBETA  =   -4.000
[illegible]  =  [illegible]                                                             X       =  300.000

                          [illegible]  [illegible]     [illegible]  =  6.40

    [illegible]  [illegible]     CN      [illegible]      CLM       [illegible]  [illegible]  [illegible]  DLTALF     DLTBTA      X
  [illegible]  -.107  -[illegible]770  [illegible]  -.[illegible]676  [illegible]  [illegible]37  .00001  -4.987[illegible]0   -3.97090  299.70000
  [illegible]  [illegible]161  -[illegible]311[illegible]  [illegible]  -.0084[illegible]  [illegible]  .[illegible]80[illegible]  .00001  -4.99590   -3.93590  299.65000
  [illegible]  [illegible]40  -[illegible]27[illegible]  [illegible]  -.00954  .0[illegible]  [illegible]241  [illegible]00  -5.01070   -4.0[illegible]170  299.94000
  1[illegible]  [illegible]38  -[illegible]  [illegible]2644  -.01704  .[illegible]76  .01501  -[illegible]  -4.98150   -4.00060  299.80000
```

```
                                    AED[illegible] [illegible] 88S BETA [illegible] G ET            (ATUD[illegible])   ( 03 OCT 74 )

        [illegible]ENCE DATA                                                          PARAMETRIC DATA

 SREF  =  [illegible] SQ.FT.   [illegible] = [illegible] IN. [illegible]          MACH   =   4.[illegible]   PTOTL  =  [illegible]00.900
 LREF  =  [illegible] INCHES   YMRP  =  [illegible] IN. YB                     ALPHA  =   [illegible].400   BETA   =      .000
 BREF  =  [illegible] INCHES   ZMRP  =  400.[illegible] IN. ZB                 DALPHA =   [illegible]   DBETA  =    -4.000
 SCALE =  [illegible]                                                          X      =  300.000

                    [illegible]  4[illegible]   [illegible]

     Y          Z         CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA      X
 [illegible]  [illegible] [illegible] [illegible] [illegible]000 .0[illegible] [illegible] -.[illegible] -4.94000 -4.[illegible] 299.810[illegible]
 [illegible]  [illegible].0[illegible] [illegible] .[illegible] [illegible] [illegible] [illegible]  -.[illegible] -4.99700 -3.[illegible]  299.87[illegible]
 [illegible]  19[illegible] -.0[illegible] [illegible] [illegible] .0[illegible] [illegible]  .[illegible] -4.99900 -3.[illegible] [illegible].83000
 [illegible]  [illegible].440 -.03[illegible] [illegible] [illegible] .0[illegible] [illegible]15 [illegible] -[illegible]9050 -[illegible].00440 300.[illegible]2000

                    [illegible]  4[illegible] 0   [illegible] = [illegible]

     Y          Z         CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA      X
 [illegible]  [illegible] [illegible] [illegible] -.0[illegible]97 [illegible] [illegible] .000[illegible] -4.99[illegible] -4.012[illegible] 299.910[illegible]
 [illegible]  [illegible] [illegible] [illegible]30 -.0[illegible]530 [illegible] [illegible] [illegible] -[illegible] -3.99[illegible]10 299.8[illegible]
 [illegible]  [illegible] [illegible] [illegible] [illegible] .0[illegible] [illegible] [illegible] -4.9[illegible] 3.9[illegible]00 299.71[illegible]00
 [illegible]  [illegible] [illegible] [illegible] -.00[illegible] [illegible] .0[illegible] .00001 -[illegible].02100 -3.974[illegible] 2[illegible]9.9[illegible]00

                              [illegible]-OEТ181-[illegible]                       (ATUD13)   ( 03 OCT 74 )

        [illegible] DATA                                                               PARAMETRIC DATA

 [illegible] = 2[illegible] SQ.FT.   [illegible] = [illegible] IN. XB                 MACH   =   4.[illegible]20   PTOTL  =  100.900
 [illegible] = 1[illegible] INCHES   YMRP  =  .[illegible] IN. YB                     ALPHA  =   -.400   BETA   =      .000
 [illegible] = 1[illegible] INCHES   ZMRP  =  400.[illegible] IN. ZB                  DALPHA =    .000   DBETA  =    -[illegible]
 SCALE =  [illegible]                                                         X      =    .000

                    [illegible]   [illegible] = 6.[illegible]

     Y          Z         CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA      X
 [illegible]  -[illegible] [illegible] [illegible] .00[illegible] [illegible] .0[illegible] .00[illegible] .00[illegible] -[illegible].00000 -.30[illegible]
 [illegible]  [illegible] -.0[illegible] [illegible] [illegible] [illegible] [illegible] -.[illegible] .0[illegible] -[illegible].00270 -.31[illegible]
 [illegible]  [illegible] [illegible] [illegible] -.0[illegible] [illegible] .0[illegible] -.[illegible]01 -.[illegible] -7.[illegible]40 -.[illegible]570
 [illegible]  1[illegible] -.0[illegible] .0[illegible] -.[illegible] [illegible] .0[illegible] -.[illegible] [illegible] -[illegible].0[illegible]70 -.17443
 [illegible]  [illegible] -.[illegible] [illegible] -.[illegible] .0[illegible] .0[illegible]425 -.0[illegible]01 .[illegible] -[illegible].01210 -.0[illegible]

                    [illegible]   [illegible] = 6.[illegible]

     Y          Z         CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA      X
 [illegible]  [illegible] [illegible] [illegible] .[illegible]191 .0[illegible] .0[illegible] [illegible] -.[illegible] -7.[illegible]310 -.[illegible]
 [illegible]  [illegible] -.[illegible] [illegible] .[illegible]345 [illegible] .[illegible] [illegible] [illegible] -[illegible]0700 -.27[illegible]
 [illegible]  [illegible] [illegible] [illegible] [illegible]43 .05460 .0[illegible] [illegible] [illegible] -[illegible]420 -.1[illegible]
 [illegible]  [illegible] -.[illegible] [illegible] -.0[illegible]23 .0[illegible] .0[illegible] -.00[illegible] [illegible] -[illegible]050 .0[illegible]
 [illegible]  [illegible] [illegible] [illegible] -.[illegible] .0[illegible] [illegible] -.[illegible] .[illegible] -7.[illegible]000 -.31357
```

ORIGINAL PAGE IS OF POOR QUALITY

[illegible]-OIET131-R/H SRB SEPAR.FROM O/ET (A1U014) (03 OCT 74)

REFERENCE DATA

SREF = [illegible] SQ.FT. XMRP = 1250.[illegible] IN. XS
LREF = [illegible] INCHES YMRP = .[illegible] IN. YS
BREF = [illegible] INCHES ZMRP = [illegible] IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.320 PTOTL = 100.[illegible]
ALPHA = -.400 BETA = .00
DALPHA = .000 DBETA = -8.[illegible]
X = 3[illegible].000

RUN NO. 457 0 RN/L = 6.91

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
[illegible]3.490	-10[illegible]	-.01205	.02732	.00833	.06[illegible]42	.02794	[illegible]	.07306	[illegible]	300.14000
[illegible]01.200	-.992	-.01045	.0272[illegible]	-.00020	.04[illegible]37	.02660	-.00001	.04768	-8.[illegible]	[illegible]99.98026
[illegible].700	98.459	-.00825	.0275[illegible]	-.00186	.04022	.02706	-.00[illegible]01	.00299	-8.0[illegible]	[illegible]99.94000
[illegible].946	199.600	-.00806	.027[illegible]7	-.00564	.04534	.02617	-.00002	.01065	-7.992[illegible]	[illegible]99.78000
[illegible].390	399.940	-.01097	.0[illegible]	-.00344	.04956	.01025	-.00001	.00498	-8.04570	299.95000

RUN NO. 46[illegible] 0 RN/L = [illegible]

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
3[illegible].429	-100.210	-.00319	.02220	.00026	.05[illegible]6	.01499	-.00001	.01200	-8.00140	300.09000
[illegible]0.5[illegible]	-.212	-.00[illegible]29	.02323	.00179	[illegible]	.01374	-.00000	.[illegible]	-7.98630	299.85000
390.290	99.919	-.008[illegible]	.02336	.00157	.05[illegible]	.01472	.00000	.[illegible]58	-8.00080	299.88000
335.610	[illegible].670	-.00826	.02209	-.00102	.0510[illegible]	.01482	-.00001	-.03586	-7.98370	299.[illegible]2000
307.770	400.116	-.00528	.02125	-.00192	.04880	.01188	-.00001	-.00431	-7.91810	299.89000

[illegible]-OIET131-R/H SRB SEPAR.FROM O/ET (ATU015) (03 OCT 74

REFERENCE DATA

SREF = [illegible] SQ.FT. XMRP = 1256.[illegible] IN. XS
LREF = [illegible] INCHES YMRP = .0070 IN. YS
BREF = [illegible] INCHES ZMRP = 400.[illegible] IN. ZS
SCALE = .0[illegible]

PARAMETRIC DATA

MACH = 4.320 PTOTL = 100[illegible]
ALPHA = -.400 BETA = [illegible]
DALPHA = 5.000 DBETA = -8.[illegible]
X = 300.000

RUN NO. 46[illegible] 0 RN/L = 6.47

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
[illegible]	-100.120	.[illegible]914	.02792	.01080	.04963	.0[illegible]913	-.00002	5.00080	-7.977[illegible]	[illegible]0.57000
[illegible]	1.327	.01967	.02[illegible]27	.00745	.04156	.02532	-.00003	4.94140	-7.9536[illegible]	299.41006
[illegible]	101.070	.02092	.02[illegible]41	.00488	.04982	.02378	-.00002	4.95630	-7.949[illegible]	299.79000
[illegible]	200.190	.017[illegible]	.02978	.00408	.0[illegible]256	.02025	-.00002	4.98890	-7.96[illegible]70	299.78000
[illegible]	399.6[illegible]	.01862	.02196	.00920	.05247	.01591	-.00002	5.01190	-8.[illegible]490	[illegible]9.9[illegible]0

```
                                 AEDC/VA52[illegible](A871)-[illegible]ET1[illegible]-[illegible] SRB SEPAR.F[illegible] O/ET            (ATU015)   ( 03 OCT 74  )

          REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  9[illegible]   [illegible] SQ.FT.   XMRP  =  1230.5[illegible] IN. XS                    MACH   =    4.[illegible]   PTOTL  =   100.500
LREF  =  [illegible]     INCHES   YMRP  =        .0[illegible] IN. YS                    ALPHA  =    -.400   BETA   =      .000
BREF  =  [illegible]     INCHES   ZMRP  =  [illegible] IN. ZS                    DALPHA =    5.000   DBETA  =    -8.000
SCALE =       [illegible]                                                    X      =  300.000

                         RUN NO.    477/ 0    RN/L  =   [illegible]

      Y          Z          CN         CA        CLM         CY        CYN        CBL       DLTALF     DLTBTA       X
  [illegible]   -188.[illegible]    [illegible]     .02340   [illegible]     .05219   [illegible]   -.00001   5.0[illegible]20   -7.94400  299.75000
  4[illegible]   [illegible]    .02[illegible]     .02270   [illegible]     [illegible]   [illegible]   -.0000[illegible]   5.04520   -8.02270  299.90000
  [illegible]   [illegible].143    [illegible]     .02252   [illegible]     .05[illegible]   [illegible]   -.00002   5.02090   -7.98030  299.80000
  4[illegible]   1[illegible]    [illegible]     .02252   [illegible]     .05330   [illegible]   -.00002   5.05350   -8.00020  300.33000
  [illegible]   5[illegible]    .02536     .02214   [illegible]272     .09092   .011[illegible]   -.00002   5.00710   -7.99110  299.82000

                                 AEDC/VA52[illegible](A487)-ORET131-R/[illegible] SRB SEPAR.F[illegible] O/ET             (ATU016)   ( 03 OCT 74  )

          REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2000.0[illegible] SQ.FT.   XMRP  =  12[illegible] IN. XS                    MACH   =    4.[illegible]   PTOTL  =   100.500
LREF  =  1290.30[illegible] INCHES   YMRP  =        [illegible]0 IN. YS                    ALPHA  =    -.400   BETA   =      .000
BREF  =  1290.3[illegible] INCHES   ZMRP  =   [illegible]30.0000 IN. ZS                    DALPHA =    5.[illegible]   DBETA  =    -8.000
SCALE =       .06[illegible]                                                    [illegible]      =     .000

                         RUN NO.    492/ [illegible]    RN/L  =   6.40

      Y          Z          CN         CA        CLM         CY        CYN        CBL       DLTALF     DLTBTA       X
  [illegible]    100.170     .[illegible]765     .08[illegible]     .01154     .05209     .02488    -.0000[illegible]   5.[illegible]   -8.02[illegible]    -.17734
  [illegible].900   [illegible]    .02047     .08[illegible]     .00749     .05[illegible]     .02904    -.00003   5.[illegible]   -7.99940   -.217[illegible]
  900.900   [illegible].7[illegible]    .01643     .0[illegible]     .00800     .0[illegible]     .02083    -.00002   5.[illegible]   -8.00710   -.[illegible]735
  [illegible]   [illegible]    .01452     .08[illegible]     .00537     .04914     .01673    -.0[illegible]   5.[illegible]   -7.99995   -.29822
  199.[illegible]   [illegible]    .08311     .07[illegible]10     .00131     .09043     .01307    -.[illegible]   5.[illegible]   -7.92510   -.73900

                         RUN NO.    503/ [illegible]    RN/L  =   6.41

      Y          Z          CN         CA        CLM         CY        CYN        CBL       DLTALF     DLTBTA       X
  4[illegible]   -[illegible]    .02236     [illegible]     .00023     .0567[illegible]   .01173    -.[illegible]1   5.[illegible]0   -8.[illegible]    .01100
  4[illegible]   [illegible].186    .0[illegible]     [illegible]     .00630     .05065     .012[illegible]   -.00001   [illegible]50   -8.01570   -.25138
  359.20[illegible]   100.[illegible]    .10[illegible]     [illegible]     [illegible]7     .07404     .01369    -.00002   4.[illegible]0   -7.9025[illegible]   -.28215
  190.94[illegible]   2[illegible]3.4    .025[illegible]     [illegible]     .0[illegible]     .0[illegible]     .01232    -.00022   4.[illegible]0   -7.9867[illegible]   -.31300
  [illegible].7[illegible]   [illegible]    [illegible]     .02[illegible]     .00[illegible]     .0[illegible]249     .06724    -.0[illegible]   5.[illegible]00   -8.00020   -.[illegible]47[illegible]
```

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC VA[illegible] (1A37) [illegible] SEPAR.FR[illegible] (ATUD17) (03 OCT 7[illegible])

REFERENCE DATA

SREF = [illegible] SQ.FT. XMRP = [illegible]
LREF = 12[illegible] INCHES YMRP = [illegible] IN. YS
BREF = 129[illegible] INCHES ZMRP = [illegible] IN. ZS
SCALE = [illegible]

PARAMETRIC DATA

MACH = 4.500 PTOTL = [illegible].900
ALPHA = -.[illegible]00 BETA = [illegible]06
DALPHA = -5.000 DBETA = [illegible]
[illegible] = .00[illegible]

RUN NO. 30/[illegible] RN/L = 6.48

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.00733	.01994	[illegible]	-4.96750	-8.02910	-.39794
[illegible]	96.821	[illegible]	[illegible]	[illegible]	[illegible]	.0222	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	201.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.02212	[illegible]	[illegible]	-7.94470	[illegible]
[illegible]	190.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.01371	[illegible]	[illegible]	-8.03470	[illegible]

RUN NO. 31/0 RN/L = 6.49

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
[illegible]	[illegible]	-.04152	[illegible]	[illegible]	[illegible]	.00019	[illegible]	-5.0[illegible]	-7.96970	[illegible]
[illegible]	[illegible]	-.04[illegible]	[illegible]	[illegible]	[illegible]	.00857	.00002	-4.9[illegible]	-7.97320	[illegible]
401.[illegible]	[illegible]	-.037[illegible]	.0231[illegible]	[illegible]	.05000	.01092	.00001	-4.95[illegible]	-8.0362	[illegible]
[illegible]	[illegible]	-.036[illegible]	[illegible]	[illegible]	.05403	.00070	.00001	[illegible]	-7.97730	[illegible]

AEDC [illegible] (1A37) [illegible]ET181-A/M SRB SEPAR.FROM O/ET (ATUD1[illegible]) ([illegible])

REFERENCE DATA

SREF = [illegible] SQ.FT. XMRP = 1290.3000 IN. XS
LREF = 1290.3[illegible] INCHES YMRP = .0000 IN. YS
BREF = [illegible] INCHES ZMRP = [illegible].0000 IN. ZS
SCALE = .0[illegible]

PARAMETRIC DATA

MACH = 4.520 PTOTL = [illegible]
ALPHA = -.400 BETA = .003
DALPHA = -5.0[illegible] DBETA = -[illegible].073
X = 300.[illegible]

RUN NO. 73/0 RN/L = 6.40

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
[illegible]	-.348	[illegible]	[illegible]	-.[illegible]973	[illegible]	.02488	[illegible]	-4.954[illegible]	-8.030[illegible]	300.[illegible]
[illegible]	99.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.02522	[illegible]	-4.9[illegible]	-7.97[illegible]	299.7[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.02743	[illegible]	-4.9952[illegible]	-7.[illegible]	299.7[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-.00001	-4.95550	-7.99890	299.7[illegible]

RUN NO. [illegible] RN/L = [illegible]

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.01445	[illegible]	-4.9[illegible]	-8.[illegible]	[illegible].90000
300.[illegible]	[illegible]	[illegible]	.02301	[illegible]	[illegible]	[illegible]	[illegible]	-4.[illegible]	-7.95140	299.60000
[illegible]	[illegible]	[illegible]	.02442	[illegible]	[illegible]	.01267	[illegible]	-4.97020	-7.[illegible]	299.65[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.01140	[illegible]	[illegible]	-7.[illegible]	299.670[illegible]

[illegible] SRB SEPAR. FROM C/ET (IA1019) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = [illegible] IN. XS
LREF = [illegible] INCHES YMRP = [illegible] IN. [illegible]
BREF = [illegible] INCHES ZMRP = [illegible] IN. ZO
SCALE = [illegible]

PARAMETRIC DATA

MACH = 4.520 PTOTL = [illegible]
ALPHA = -.453 BETA = [illegible]
DALPHA = [illegible] DBETA = .00[illegible]
X = [illegible]

RUN NO. [illegible] RN/L = 0.49

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
[illegible]	[illegible]	[illegible]	[illegible]	.02782	[illegible]	.08819	[illegible]	.03402	-.08761	-.10006
[illegible]	-.412	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.04973	[illegible]	-.14041
[illegible]	99.664	-.00227	.02154	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-.23579
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-.00245	[illegible]	-.01040	.05783	-.22987
[illegible]	400.010	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

RUN NO. 57/0 RN/L = [illegible].49

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
[illegible]	-100.180	[illegible]	.02212	[illegible]	[illegible]	-.00476	[illegible]	.01439	-.01720	[illegible]
[illegible]	-.167	[illegible]	.02301	[illegible]	-.01275	-.00472	.00000	.03028	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-.00905	.00000	-.02017	-.00343	-.25931
[illegible]	[illegible]	[illegible]	[illegible]	-.00191	[illegible]	[illegible]	[illegible]	-.03142	-.01717	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-.02719	-.06139	[illegible]

RUN NO. [illegible] RN/L = [illegible]

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.05004	-.05802	[illegible]
[illegible]	-.096	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.01213	-.00208	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.01246	-.00840	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.00471	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.02456	[illegible]

RUN NO. [illegible] RN/L = [illegible]

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	.02610	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible] SRB SEPAR.PROX DATA (03 OCT 74)

REFERENCE DATA

SREF = [illegible] SQ.FT. XMRP = [illegible] IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0150

PARAMETRIC DATA

MACH = 4.[illegible] [illegible] = [illegible]
ALPHA = [illegible] BETA = [illegible]
DALPHA = [illegible] DBETA = [illegible]
X = [illegible]

RUN NO. 50/ 0 RN/L = 5.55

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-339.135	[illegible]	+.00091	.02804	.00040	-.01236	-.00013	.00000	[illegible]	.01332	299.91000
-345.400	[illegible]	-.00521	.02797	[illegible]	-.01285	-.00029	[illegible]	.02646	-.00066	299.84000
-350.425	103.511	-.00905	.02628	.00017	-.00658	-.00067	[illegible]	-.01592	.02154	299.80000
-351.490	[illegible]	[illegible]	[illegible]	-.00172	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	299.62000
-397.670	399.796	-.01596	[illegible]	-.00951	-.00441	-.00013	[illegible]	.01375	-.00127	[illegible]

RUN NO. 67/ 0 RN/L = 6.45

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
[illegible]	[illegible]	.00010	.02828	[illegible]	-.01575	-.01577	[illegible]	[illegible]	.02640	[illegible]
-266.455	.335	-.00538	.03035	[illegible]	-.00440	+.00456	[illegible]	.00542	[illegible]	299.80000
[illegible]	44.570	-.01167	[illegible]	[illegible]	-.01212	-.00936	[illegible]	.00114	-.00136	[illegible]
[illegible]	[illegible]	-.01888	[illegible]	-.02274	[illegible]	-.00414	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	397.050	-.00474	.02150	-.00382	-.00082	-.00474	[illegible]	[illegible]	[illegible]	[illegible]

RUN NO. 55/ 0 RN/L = 6.43

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-99.395	[illegible]	-.00239	.02507	[illegible]	+.00496	[illegible]	-.00001	[illegible]	-.01671	299.75000
-98.309	-.150	-.00722	.02253	-.00084	[illegible]	-.01462	[illegible]	[illegible]	[illegible]	299.65000
[illegible]	[illegible]	-.00926	.02678	.00403	.03401	-.00309	[illegible]	.06184	-.02382	299.62000
[illegible]	[illegible]	-.01533	[illegible]	-.00278	[illegible]	-.00515	[illegible]	-.02212	.02677	299.81000
-99.474	[illegible]	[illegible]	.02427	[illegible]	[illegible]	-.00603	[illegible]	[illegible]	.00810	299.78000

RUN NO. 85/ 0 RN/L = 6.49

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-12.011	[illegible]	+.00869	[illegible]	[illegible]	-.02475	[illegible]	[illegible]	[illegible]	[illegible]	299.88000
-11.282	[illegible]	[illegible]	.01608	-.00293	.02606	-.00897	[illegible]	[illegible]	[illegible]	299.74000
-10.606	[illegible]	[illegible]	[illegible]	-.00193	.04160	[illegible]	[illegible]	[illegible]	[illegible]	299.86000
-9.237	[illegible]	-.00159	.01248	-.00142	[illegible]	-.00225	[illegible]	[illegible]	-.00167	299.78000
-10.472	[illegible]	[illegible]	.02966	[illegible]	-.00341	-.00560	[illegible]	[illegible]	[illegible]	299.90000

```
DATE 20 MAY 75                          IA87 TABULATED SOURCE DATA                                  PAGE 378

                     AEDC/VA528(TANK)-O1C3151-L/R SRB SEPAR/FROM O/ET                 (ATU021)  ( 03 DEC 74 )

            REFERENCE DATA                                                            PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.3000 IN. XS                     MACH   =   4.500   PTOTL  =  100.500
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                     ALPHA  =   -.400   BETA   =     .000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                     DALPHA =   5.000   DBETA  =     .000
SCALE =      .0100                                                        X      = 300.000

                       RUN NO.   64/ 0   RN/L =   6.49

     Y          Z         CN         CA        CLM         CY        CYN        CBL      DLTALF     DLTBTA     X
  -398.490   -101.050    .02222     .02273     .00837    -.00541    -.00225    -.00001    5.05210   -.04880  299.89000
  -399.590     -.982     .02413     .02180     .00873    -.00209    -.00819    -.00001    5.04720   -.01590  299.84000
   399.640     99.330    .02364     .02165     .00452    -.00152    -.00455    -.00001    5.02880    .02579  299.86000
  -399.380    199.620    .02269     .02228     .00386    -.00274    -.00515    -.00002    5.01330   -.00642  299.77000
  -399.230    399.850    .01507     .02230     .00493    -.02568     .00122    -.00003    5.00870   -.00128  299.90000

                       RUN NO.   65/ 0   RN/L =   6.49

     Y          Z         CN         CA        CLM         CY        CYN        CBL      DLTALF     DLTBTA     X
  -199.270   -100.210    .01930     .02402     .01195    -.01617    -.00868    -.00001    5.00650   -.01158  299.76000
  -199.740      4.001    .01458     .02522     .01070    -.01216    -.00876    -.00002    4.97420   -.02449  299.72000
  -199.519    100.200    .01458     .02915     .00772    -.01050    -.00983    -.00001    4.95400   -.02095  299.74000
  -197.020    200.810    .01524     .02663     .00457    -.00790    -.00852    -.00001    4.93660   -.02292  299.66000
  -201.330    399.550    .01757     .02188     .00228    -.00210    -.00450    -.00001    5.01050    .02253  299.81000

                       RUN NO.   66/ 0   RN/L =   6.49

     Y          Z         CN         CA        CLM         CY        CYN        CBL      DLTALF     DLTBTA     X
   -99.030   -105.090    .01191     .02523     .00738    -.00198    -.00729    -.00001    5.00930   -.01326  299.90000
  -100.533     -.826     .00385     .02505     .00675     .00251    -.00426    -.00001    5.00770    .00608  299.63000
   -99.029    101.080    .01240     .02556     .00553     .00124    -.00233    -.00002    5.02670   -.03541  299.67000
   -99.365    193.910    .01407     .02725     .00583    -.00201    -.00342    -.00000    5.00660    .01125  299.88000
  -100.990    400.280    .01553     .02370    -.01005    -.00264    -.00060    -.00001    4.96170    .05718  299.64000

                       RUN NO.   67/ 0   RN/L =   6.49

     Y          Z         CN         CA        CLM         CY        CYN        CBL      DLTALF     DLTBTA     X
    -9.007     99.495    .00307     .01774     .00240     .00384    -.00791    -.00002    4.92960    .01960  299.83000
    -8.258      .457     .01248     .01756     .00231     .01061    -.00539    -.00002    4.97360   -.04770  299.87000
    -8.492     98.711    .01535     .01644     .00241     .00721    -.00392    -.00001    5.03320   -.00182  299.84000
    -9.357    198.759    .01763     .02048     .01426     .00439     .00609    -.00001    5.00170   -.02246  299.89000
    -4.993    399.770    .01369     .00998    -.00102    -.00538    -.00541    -.00001    5.01240   -.03240  299.95000
```

```
DATE 20 MAY 93                     [illegible] TABULATED SOURCE DATA                              PAGE 274

                        [illegible]                                              ([illegible])  ( [illegible] 74 )

            REFERENCE DATA                                                              PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.2900 IN. XS                      MACH   =   4.520  PTOTL  =  100.000
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                      ALPHA  =   -.400  BETA   =     .000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                      DALPHA =   5.000  DBETA  =     .000
SCALE =      .0100                                                          [illegible] =    .000

                        RUN NO.  317/ 0   RN/L =  6.48

    Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
-[illegible].040  -192.328   .02582     .02295     .00423    -.00356    -.00208    -.00001    5.06680    -.02773    -.12712
-[illegible]      .[illegible]  .02426   .02236     .00591    -.00414    -.00206    -.00099    5.02090    -.00204    -.16791
-[illegible].230  [illegible]  .02251   .02275     .00276    -.00584    -.00284    -.00002    5.00230    -.01803    -.18071
-398.950   199.700    .01915     .02200     .00417    -.00591     .00080    -.00007    5.01010    -.01319    -.18413
-396.180   [illegible]  .01254    .02263     .00727    -.00582     .00359    -.00001    5.05540    -.[illegible]  -.07431

                        RUN NO.  [illegible]/ 0   RN/L =  6.46

    Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
-[illegible]  -[illegible].100  .01874  .02257   .00132    -.01475    -.00397     .00005    5.05650    -.04636    -.15358
-[illegible]    -4.364    .00324     .02162     .00591    -.00897    -.00575    -.00000    5.05200    -.01183    -.11508
-399.073    99.321    .[illegible]  .02190   .00597    -.00822    -.00044    -.00002    5.02040     .05456     .05144
-[illegible]  [illegible]  .00772   .02196     .00596    -.00324    -.02002    -.[illegible]  5.01020  -.00610    -.00701
-198.[illegible]  [illegible]  .[illegible]  .00243  .00512  -.00530  -.00180  -.[illegible]  5.[illegible]  -.[illegible]  -.00[illegible]

                        RUN NO.  557/ 0   RN/L =  6.47

    Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
-[illegible].772  -[illegible].427  .01[illegible]  .02853  .0[illegible]  -.[illegible]  -.00324  -.00001  5.05700  -.03065  -.13802
-[illegible].[illegible]   1.010   .01321  .03009   .01091    -.01184    -.01377    -.00601    4.92190    -.00074    -.22730
-[illegible].115   98.395    .01472     .02436     .00546    -.01613    -.01334    -.[illegible]  5.01220  -.[illegible]  -.00027
-39.[illegible]  199.000   .01426    .02591     .00537    -.00775     .01519    -.00001    5.01700    -.[illegible]90  -.03420
-[illegible].7[illegible]  399.830  .01000  .02214  .00144  -.01832  .00[illegible]  -.[illegible]  5.01120  .00704  -.11095

                        RUN NO.  584/ 0   RN/L =  6.46

    Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
  -8.341   -[illegible].[illegible]  .01325  .02672   .00195    -.00043    -.06844    -.00001    4.98450    -.01829    -.[illegible]
  -5.942      .013    .01171     .02039     .00727     .01742    -.00735    -.00000    5.00460    -.[illegible]  -.19576
  -7.426    97.245    .01281     .02746     .00577    -.01076    -.00525    -.00003    5.00650    -.[illegible]  -.03334
  -6.[illegible]  199.660  .01[illegible]  .03535  .02218  -.01584  -.02955  -.00001  3.01270  -.03[illegible]  -.13422
  -2.[illegible]  396.[illegible]  .01574  .02167  .00783  -.01197  -.00[illegible]  -.00001  5.08570  -.04673  .00129
```

AEDC/VA528(1-[illegible])-OB[illegible]-L/H SRB SEPAR.FROM O/ET (ATU0[illegible]) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1256.3000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 BETAO = 300.300
ALPHA = -.400 BETA = .000
DALPHA = -5.020 DELTA = .000
X = .000

RUN NO. 72/ 0 RN/L = 5.[illegible]

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-399.190	-.332	-.02730	.02404	-.00348	-.01216	.00251	.00002	-4.[illegible]	-.06362	-.27097
-393.160	99.776	-.02829	.02213	-.00426	-.00934	-.00117	.00001	-4.97295	-.02800	-.17143
-400.730	149.696	-.02390	.02299	-.02316	-.01360	-.00207	.00001	-4.99840	.02105	-.14163
-399.840	299.270	-.02407	.02356	-.00460	-.00534	.00007	.00001	-4.99220	.00202	-.01092

RUN NO. 737 0 RN/L = 5.[illegible]

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-198.650	-.193	-.02379	.02052	-.01587	-.01096	-.00319	.00000	-4.[illegible]	-.01582	-.16023
-198.840	199.290	-.03682	.02363	-.00575	-.01881	-.00595	.00001	-5.[illegible]	-.02648	-.17532
-198.270	200.280	-.03865	.02385	-.00576	-.[illegible]	-.00264	.00001	-4.99640	-.0[illegible]	-.21708
-197.950	401.860	-.0[illegible]	.02176	-.00[illegible]	-.[illegible]	-.00276	.00000	-5.[illegible]	-.00034	-.091[illegible]

RUN NO. 74/ 0 RN/L = 6.49

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-99.090	.029	-.03907	.0291[illegible]	-.0[illegible]	-.00914	-.01[illegible]	-.00020	-4.[illegible]	-.01397	-.110[illegible]
-[illegible]	16.436	-.03[illegible]	.03091	-.0[illegible]	-.01076	-.00897	-.00000	-4.[illegible]	.07013	-.21529
-99.344	198.970	-.04233	.02872	-.03935	-.00473	-.00[illegible]	.00000	-4.99[illegible]	-.00714	-.13[illegible]
-101.340	401.050	-.03737	.02770	-.00365	-.01[illegible]	-.00[illegible]	.00013	-5.00130	[illegible]	-.08[illegible]

AEDC/VA528(1-[illegible])-OB[illegible]-L/H SRB SEPAR.FROM O/ET (ATU024) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1256.3000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 BETAO = 300.300
ALPHA = -.400 BETA = .000
DALPHA = -5.020 DBETA = .000
X = 300.030

RUN NO. 75/ 0 RN/L = 6.47

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-399.170	94.88[illegible]	-.0[illegible]	.02[illegible]	-.01004	-.01460	-.00037	.00001	-4.99[illegible]	.00203	299.90050
-399.175	298.170	-.0[illegible]	.02[illegible]	-.00910	-.00963	-.00[illegible]	.00001	-5.01085	.00797	299.9[illegible]
-399.190	492.220	-.03[illegible]	.02151	-.0[illegible]	-.00[illegible]	-.00[illegible]	.00001	-5.00[illegible]	.00[illegible]	300.00000

ORIGINAL PAGE IS OF POOR QUALITY

[illegible]/VA32[illegible]/SET751-L/H SRB [illegible] FROM O/ET (ATU084) ([illegible])

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1290.3000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1291.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0300

PARAMETRIC DATA

MACH = 4.500 PHIOTB = 180.000
ALPHA = -.400 BETA = .000
DALPHA = -5.000 DBETA = .000
X = 300.020

RUN NO. 774/ 0 RN/L = 6.47

Y	Z	CN	CA	CLM	CY	CYN	CBL	CLTALP	CLTBTA	X
-206.040	100.790	-.08240	.02990	-.01084	-.01700	-.03004	-.00000	-3.00000	.02972	299.82000
-203.421	1[illegible].925	-.03939	.02970	-.00865	-.01500	-.00015	.00081	-4.39000	[illegible]	299.81000
-1[illegible].220	349.500	-.08409	.02192	-.01318	-.00000	-.00345	.00000	-4.98640	.00000	299.58000

RUN NO. 787/ 0 RN/L = 6.47

Y	Z	CN	CA	CLM	CY	CYN	CBL	CLTALP	CLTBTA	X
-100.810	100.810	-.02675	.02801	-.00000	-.00078	-.00250	-.00000	-5.03590	-.00087	299.75000
-100.893	200.120	-.02475	.00701	-.00017	-.01020	-.00330	.00200	-4.47930	.02004	299.83800
-100.870	349.840	-.05784	.00047	-.00000	-.00422	-.00710	.00000	-4.98410	.00478	299.82005

RUN NO. 797/ 0 RN/L = 6.32

Y	Z	CN	CA	CLM	CY	CYN	CBL	CLTALP	CLTBTA	X
-[illegible]	100.010	-.09500	.01373	-.00783	-.00007	-.00240	-.00000	-5.01210	.02567	300.02000
-6.232	200.110	-.02870	.01000	-.00592	.00049	-.00273	-.00000	-4.93690	-.00344	299.80000
-6.346	349.720	-.03240	.00081	-.01730	-.01240	-.00061	-.01001	-4.99710	-.02345	299.87000

ABLC/VAB25(IA[illegible])-ORB)[illegible]-L/H SRB SEPAR.FROM O/ET (ATU092) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1290.3000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 457.7000 IN. ZS
SCALE = .0300

PARAMETRIC DATA

MACH = 4.320 PHIOTB = 180.000
ALPHA = -.400 BETA = [illegible]
DALPHA = .000 DBETA = -4.000
X = .002

RUN NO. 79[illegible]/ 0 RN/L = 6.47

Y	Z	CN	CA	CLM	CY	CYN	CBL	CLTALP	CLTBTA	X
-[illegible]	-[illegible]	-.[illegible]	.02[illegible]	.02443	-.06500	-.05[illegible]	.00000	-.00900	3.5[illegible]	-.[illegible]
-394.[illegible]	[illegible]	-.00024	.00[illegible]	.02815	-.03120	-.00000	.00000	.00000	3.90040	-.22200
-399.[illegible]	99.800	-.02192	.00[illegible]	.00000	-.02437	-.00000	-.00000	.00045	3.97720	-.21000
-401.[illegible]	140.700	-.00270	.00[illegible]	-.00000	-.[illegible]	-.00705	-.00000	.00000	4.00580	-.[illegible]
-399.[illegible]	[illegible].348	-.03000	.00[illegible]	-.00000	-.00044	-.00000	-.[illegible]	.00000	3.00070	-.[illegible]

```
                       AEDC/VA526(IA87)-O[illegible]T151 [illegible] SEPAR.FROM O/ET          (ATV025)  ( 23 OCT 74 )

     REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  [illegible] SQ.FT.    XMRP  =  1238.5[illegible] IN. XS                    MACH   =    4.5[illegible]  PTOTL =  [illegible]
LREF  =  [illegible] INCHES    YMRP  =       [illegible] IN. YS                     ALPHA  =    -.4[illegible]  BETA  =     .000
BREF  =  [illegible] INCHES    ZMRP  =   400.[illegible] IN. ZS                     DALPHA =     .0[illegible]  DTETA =    4.000
SCALE =      [illegible]                                                            Y      =     [illegible]

                              RUN NO.   307/ 0    RN/L =   6.47

     Y            Z           CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
 [illegible]   -1[illegible]  -.[illegible]  .0[illegible]  [illegible]  -.0[illegible]  -.[illegible]  -.[illegible]  .0[illegible]  3.[illegible]  -.[illegible]
 -199.[illegible]  [illegible]  -.[illegible]  .0[illegible]  .07[illegible]  -.[illegible]  -.01217  -.[illegible]  .[illegible]32  4.[illegible]  -.[illegible]428
 -[illegible]  101.[illegible]  .00[illegible]  .0[illegible]  .0[illegible]  -.[illegible]  -.0[illegible]  -.[illegible]  -.0[illegible]  4.[illegible]770  -.[illegible]717
 -[illegible]  199.[illegible]  -.01[illegible]  .[illegible]  -.[illegible]  -.0[illegible]  -.01[illegible]  -.[illegible]  .01[illegible]  3.[illegible]  -.[illegible]
 -[illegible]  [illegible]  -.[illegible]  .0[illegible]  -.[illegible]  -.[illegible]215  -.[illegible]  -.[illegible]  .01[illegible]  3.[illegible]  -.[illegible]

                              RUN NO.   31[illegible]/ 0    RN/L =   6.47

     Y            Z           CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
 [illegible]   -10[illegible]  -.[illegible]  .0[illegible]  .00812  -.[illegible]  -.[illegible]  -.[illegible]  .0[illegible]  3.[illegible]  -.[illegible]
 [illegible]   .0[illegible]  -.[illegible]  .02[illegible]  .0[illegible]297  -.[illegible]  -.0[illegible]  -.[illegible]  .[illegible]  3.[illegible]  -.[illegible]
 [illegible]   99.957  -.[illegible]  .02[illegible]  [illegible]  -.[illegible]  -.0[illegible]  -.00[illegible]  .0[illegible]  [illegible]  -.[illegible]91
 [illegible]   [illegible]  -.[illegible]  .0[illegible]  -.[illegible]  -.[illegible]  -.[illegible]  -.[illegible]  .[illegible]  3.[illegible]  -.[illegible]540
 [illegible]   40[illegible]  -.[illegible]  .0[illegible]  -.0[illegible]  -.[illegible]  -.[illegible]945  -.[illegible]  -.00[illegible]  4.0[illegible]  -.[illegible]

                       AEDC/VA526(IA87)-O[illegible]T152 [illegible] SEPAR.FROM O/ET          (ATV025)  ( 23 OCT 74 )

     REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  [illegible] SQ.FT.    XMRP  =  [illegible] IN. XS                          MACH   =    4.[illegible]  PTOTL =  [illegible]
LREF  =  [illegible] INCHES    YMRP  =       .0000 IN. YS                           ALPHA  =     [illegible]  BETA  =     [illegible]
BREF  =  [illegible] INCHES    ZMRP  =  [illegible] IN. ZS                          DALPHA =     [illegible]  DBETA =     [illegible]
SCALE =      [illegible]                                                            Z      =   [illegible].000

                              RUN NO.   61[illegible]/ 0    RN/L =   6.[illegible]

     Y            Z           CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
 -[illegible]  -[illegible]  -.[illegible]  .0[illegible]  .[illegible]  -.0[illegible]  -.[illegible]  -.[illegible]  .01[illegible]  [illegible]  2[illegible]
 -[illegible]  -.[illegible]  -.[illegible]512  .[illegible]  .[illegible]125  -.0[illegible]  -.[illegible]  -.[illegible]  -.[illegible]  3.[illegible]  2[illegible]
 -[illegible]  [illegible]  -.[illegible]  .0[illegible]  .0[illegible]  -.[illegible]  -.0[illegible]  .[illegible]  -.[illegible]  3.[illegible]  [illegible]
 -[illegible]  [illegible]  -.[illegible]  .0[illegible]  .0[illegible]  -.[illegible]  -.[illegible]  -.[illegible]  -.0[illegible]  3.[illegible]  [illegible]
 -[illegible]  4[illegible]  -.[illegible]  .02[illegible]  -.[illegible]  -.[illegible]  -.[illegible]  -.[illegible]  -.[illegible]  3.[illegible]  [illegible]
```

[illegible] SEPAR.FROM O/ET [illegible]

REFERENCE DATA

PARAMETRIC DATA

SREF = [illegible] SQ.FT. XMRP = [illegible] IN. XS
LREF = [illegible] INCHES YMRP = [illegible] IN. YS
BREF = [illegible] INCHES ZMRP = [illegible] IN. ZS
SCALE = [illegible]

MACH = [illegible]
ALPHA = [illegible]
DALPHA = [illegible]
X = [illegible]

RUN NO. [illegible] GRADIENT = [illegible]

		CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
[illegible]	[illegible]	[illegible]	.02739	.00264	[illegible]	-.02073	[illegible]	.06575	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	.05345	[illegible]	[illegible]	[illegible]	[illegible]	.02405	3.99550	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

RUN NO. [illegible] GRADIENT = [illegible]

		CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-.01217	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.45450	[illegible]

[illegible] SEPAR.FROM O/ET [illegible]

REFERENCE DATA

PARAMETRIC DATA

SREF = [illegible] SQ.FT. XMRP = [illegible] IN. XS
LREF = [illegible] INCHES YMRP = [illegible] IN. YS
BREF = [illegible] INCHES ZMRP = 400.0000 IN. ZS
SCALE = [illegible]

MACH = [illegible]
ALPHA = [illegible]
DALPHA = [illegible]
X = [illegible]

RUN NO. [illegible] GRADIENT = [illegible]

		CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible] TABULATED [illegible]

[illegible]

REFERENCE DATA [illegible]

PARAMETRIC DATA [illegible]

MACH [illegible] ALPHA [illegible] BETA [illegible]

[illegible] 0.47

[illegible]	[illegible]	CL	[illegible]	[illegible]	CY	CYN	CBL	[illegible]	[illegible]	X
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

[illegible]	[illegible]	CN	[illegible]	[illegible]	[illegible]	CYN	CBL	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

REFERENCE DATA

PARAMETRIC DATA

MACH [illegible] PTOR [illegible] ALPHA [illegible] BETA [illegible]

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	CY	CYN	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

TABULATED BASIC DATA

[illegible]

[illegible]

REFERENCE DATA [illegible]

PARAMETRIC DATA [illegible]

[illegible]

REFERENCE DATA [illegible]

PARAMETRIC DATA [illegible]

[illegible]

```
[illegible]                         [illegible] TABULATED SOURCE DATA                              [illegible]

                    [illegible] ( [illegible] ) [illegible] OVET                   [illegible]   ( [illegible] )

          [illegible] DATA                                                        [illegible] DATA

SREF  =  [illegible] SQ.FT.   XMRP  =  1255.[illegible] IN. XS          MACH  =   [illegible]   [illegible]  =   [illegible]
LREF  =  [illegible] INCHES   YMRP  =       [illegible] IN. YT          [illegible] =  -.[illegible]  BETA  =   [illegible]
BREF  =  [illegible] INCHES   ZMRP  =  [illegible] IN. ZT               [illegible] =  .[illegible]  [illegible] =  [illegible]
SCALE =        [illegible]                                              [illegible] =  [illegible]

                         RUN NO.   [illegible]   RN/L =  5.07

     Y            Z           CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
 -[illegible] -[illegible] -[illegible] [illegible]  [illegible] -[illegible] -[illegible]  [illegible] -[illegible] [illegible] [illegible]
 -[illegible] -[illegible] -[illegible] [illegible]  [illegible] -[illegible] -.00637     [illegible]  [illegible] [illegible] -[illegible]
 -[illegible]  [illegible] -[illegible] [illegible]  [illegible] -[illegible] -.01107     -[illegible]  [illegible] [illegible] [illegible]
 -[illegible]  [illegible] -[illegible] [illegible] -[illegible] -[illegible]  [illegible] -[illegible]  [illegible] [illegible] -[illegible]
 -[illegible]  [illegible] -[illegible] [illegible] -[illegible] -[illegible] -[illegible] -[illegible]  [illegible] [illegible] [illegible]

                         RUN NO.   [illegible]   RN/L =  [illegible]

     Y            Z           CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
 -[illegible] -[illegible] -[illegible] [illegible]  [illegible] -[illegible] -[illegible] -[illegible] [illegible] [illegible] -[illegible]
 -[illegible] -.[illegible] -[illegible] [illegible] [illegible] -.05720     -[illegible] -[illegible] [illegible] [illegible] -[illegible]
 -[illegible]  [illegible] -[illegible] [illegible]  [illegible] -[illegible] -.02363    -[illegible] [illegible] [illegible] -[illegible]
 -[illegible]  [illegible] -[illegible] [illegible] -[illegible] -[illegible] -[illegible] -[illegible] [illegible] [illegible] -[illegible]
 -[illegible]  [illegible] -[illegible] [illegible] -[illegible] -[illegible] -[illegible]  [illegible] [illegible] [illegible] [illegible]

                    [illegible] OVET                   [illegible]   ( 08 OCT 74 )

          [illegible] DATA                                                        PARAMETRIC DATA

SREF  =  [illegible] SQ.FT.   XMRP  =  [illegible] IN. XS               MACH  =   4.520   PTOTL =   97.[illegible]
LREF  =  [illegible] INCHES   YMRP  =       [illegible] IN. YS          [illegible] =  -.[illegible]  BETA  =   [illegible]
BREF  =  [illegible] INCHES   ZMRP  =  [illegible] IN. ZS               [illegible] =  .000  [illegible] =  [illegible]
SCALE =        [illegible]                                              X     =  [illegible]

                         RUN NO.   [illegible]   RN/L =  [illegible]

     Y            Z           CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
 -[illegible] -[illegible] -[illegible] [illegible]  [illegible] -[illegible] -.01128     -[illegible]  .01255     [illegible] [illegible]
 -[illegible] -[illegible] -[illegible] [illegible]  [illegible] -[illegible] -.01259     -[illegible]  [illegible] [illegible] 290.[illegible]
 -[illegible]  [illegible] -[illegible] [illegible]  [illegible] -[illegible] -.01363     -[illegible]  [illegible] [illegible] 3[illegible]
 -[illegible]  [illegible] -[illegible] [illegible] -[illegible] -[illegible] -[illegible] -[illegible] -[illegible] [illegible] 29[illegible]
 -[illegible] -[illegible] -[illegible] [illegible] -[illegible] -[illegible]  [illegible]  [illegible] -[illegible] [illegible] [illegible]
```

DATE 08 MAY 78 TABULATED SOURCE DATA PAGE [illegible]

AEDC/VA420(IA87) -OIETS[illegible] L/V SRB SEPAR.FROM O/ET ([illegible]) (30 OCT 7[illegible])

REFERENCE DATA

SREF = [illegible] SQ.FT. XMRP = [illegible] IN. XS
LREF = [illegible] INCHES YMRP = .0000 IN. YS
BREF = [illegible] INCHES ZMRP = 40[illegible].0000 IN. ZS
SCALE = [illegible]

PARAMETRIC DATA

MACH = 4.[illegible] PTOTL = [illegible]
ALPHA = [illegible] [illegible] = .000
DALPHA = .0[illegible] DBETA = .000
X = 300.0

RUN NO. [illegible]/ B [illegible] = [illegible]

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	[illegible]TA	X
[illegible]	[illegible]	-.04178	.0274[illegible]	[illegible]	[illegible]5655	[illegible]	[illegible]	.37[illegible]	[illegible]	300.[illegible]
-[illegible]	-.540	[illegible]	.0275[illegible]	[illegible]	-.05099	-.02137	[illegible]	.04482	[illegible]	299.9[illegible]
-300.[illegible]	[illegible]	[illegible]	.0279[illegible]	-.00147	-.04251	[illegible]	-.00003	.07944	[illegible]	299.[illegible]
-150.[illegible]	1[illegible].960	[illegible]	[illegible]	-.00562	[illegible]	[illegible]	[illegible]	.01929	[illegible]	29[illegible]
-2[illegible].820	400.01[illegible]	[illegible]	[illegible]	-.00384	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	300.1[illegible]

AEDC/VA420(IA87) -OIETS[illegible] L/V SRB SEPAR.FROM O/ET ([illegible]) ([illegible] OCT 7[illegible])

REFERENCE DATA

SREF = [illegible] SQ.FT. XMRP = [illegible] IN. XS
LREF = [illegible] INCHES YMRP = .0000 IN. YS
BREF = [illegible] INCHES ZMRP = 400.0000 IN. ZS
SCALE = [illegible]

PARAMETRIC DATA

MACH = [illegible] PTOTL = [illegible]
ALPHA = [illegible] BETA = [illegible]
DALPHA = [illegible] DBETA = [illegible]
X = [illegible]

RUN NO. 101/ B [illegible] = [illegible]

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	[illegible]TA	X
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	.02160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	.02311	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
-[illegible]	[illegible]	.02915	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

RUN NO. 1[illegible]/ [illegible] [illegible] = [illegible]

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	[illegible]TA	X
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	.03415	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-.01324	[illegible]	[illegible]	7.991[illegible]	[illegible]

ORIGINAL PAGE IS
OF POOR QUALITY

[illegible] SEP [illegible] ([illegible]) [illegible] SEPARATION [illegible] (IA87 [illegible] OCT 74)

REFERENCE DATA

SREF = [illegible] SQ.FT. XMRP = 1250.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. [illegible]
BREF = 1290.[illegible] INCHES ZMRP = [illegible] IN. ZS
SCALE = [illegible]

PARAMETRIC DATA

MACH = [illegible] PTOTL = [illegible]
ALPHA = [illegible] BETA = [illegible]
DALPHA = [illegible] DBETA = [illegible]
X = .000

RUN NO. [illegible] RN/L = 3.28

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
[illegible]	100.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

RUN NO. [illegible] RN/L = [illegible]

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible] SEPARATION [illegible] FROM [illegible] ([illegible] OCT 74)

REFERENCE DATA

SREF = [illegible] SQ.FT. XMRP = [illegible] IN. XS
LREF = [illegible] INCHES YMRP = [illegible] IN. YS
BREF = [illegible] INCHES ZMRP = [illegible] IN. ZS
SCALE = [illegible]

PARAMETRIC DATA

MACH = [illegible] PTOTL = [illegible]
ALPHA = [illegible] BETA = [illegible]
DALPHA = [illegible] DBETA = [illegible]
X = [illegible]

RUN NO. [illegible] RN/L = 5.05

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

RUN NO. [illegible] RN/L = [illegible]

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

```
DATE 08 JUL 75                         IA87 TABULATED SOURCE DATA                                    PAGE 2[illegible]

                      AEDC/VA528(IA87)-CAET131-L/W AND SEPARATION OPT                  (ATU0[illegible])   ( 08 OCT 74 )

         REFERENCE DATA                                                                       PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.    XMRP  =  1222.3000 IN. XS                            MACH   =     4.500   PTOTL  =    10.[illegible]
 LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YS                            ALPHA  =     -.400   BETA   =      .000
 BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                            DALPHU =    -5.000   DBETA  =     0.000
 SCALE =      .0100                                                                  [illegible]    =   3[illegible].[illegible]

                  RUN NO.  1[illegible]6/ 0    RN/L =  5.66

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
  -[illegible].000   [illegible]   -.[illegible]   .[illegible]   -.00865   -.06241   -.01[illegible]   [illegible]   -.[illegible]   7.[illegible]   3[illegible]
  -[illegible].000   [illegible]   -.03580   .[illegible]   -.00448   -.[illegible]   -.[illegible]   [illegible]   -4.[illegible]   7.[illegible]   299.[illegible]
  -397.000   [illegible]   -.03669   .[illegible]   -.[illegible]27   -.[illegible]   -.0[illegible]   .[illegible]   -4.[illegible]   7.93[illegible]   239.[illegible]

                  RUN NO.  [illegible]    RN/L =  5.6[illegible]

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
  -[illegible]   [illegible].469   -.[illegible]   .[illegible]   -.[illegible]   -.05425   .02[illegible]4   -.[illegible]   -4.[illegible]   7.[illegible]   2[illegible]
  -199.[illegible]   [illegible]   -.0391[illegible]   .[illegible]   -.01161   -.[illegible]   -.[illegible]   -.[illegible]   -4.99[illegible]   7.[illegible]   259.[illegible]
  -[illegible].[illegible]   4[illegible]   -.[illegible]   .[illegible]   -.[illegible]   -.[illegible]   -.[illegible]   -.[illegible]   -4.[illegible]   [illegible]   [illegible]

                      AEDC/VA528(IA87)-CAET131-R/W AND SEPARATION OPT                  (AT[illegible])   ( [illegible] )

         REFERENCE DATA                                                                       PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.    XMRP  =  [illegible] IN. XS                             MACH   =     4.5[illegible]   PTOTL  =    [illegible]
 LREF  =  1290.3000 INCHES    YMRP  =      [illegible] IN. YS                             ALPHA  =    -[illegible]   BETA   =      [illegible]
 BREF  =  1290.3000 INCHES    ZMRP  =   400.[illegible] IN. ZS                            DALPHA =      .000   DBETA  =      [illegible]
 SCALE =      .0100                                                                  [illegible]    =      .000

                  RUN NO.  112[illegible]    RN/L =  [illegible]

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
  [illegible]   -1[illegible].5[illegible]   -.0[illegible]   .02819   -.[illegible]583   .05797   .[illegible]   .[illegible]   .[illegible]   -.[illegible]   -.[illegible]582
  [illegible]   -.297   -.[illegible]   .02[illegible]   -.00455   .[illegible]   .[illegible]   .[illegible]   .[illegible]   .01211   -.24[illegible]
  [illegible]   [illegible].474   -.03[illegible]   .02507   -.00[illegible]   .[illegible]17   .[illegible]   .00008   .0[illegible]   -.[illegible]   -.[illegible]
  [illegible]   31.318   -.[illegible]   .02964   -.[illegible]   -.[illegible]   .00[illegible]   .00301   -.06[illegible]   -.[illegible]   -.0[illegible]
  [illegible]   401.[illegible]   -.[illegible]   .02265   -.[illegible]   .[illegible]   .[illegible]   .00300   -.[illegible]   .[illegible]   -.[illegible]

                  RUN NO.  [illegible]    RN/L =  5.[illegible]

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
  [illegible]   -[illegible].[illegible]   -.[illegible]   .02720   -.00573   .[illegible]   .01[illegible]   .00[illegible]   .[illegible]   -.[illegible]   -.[illegible]
  [illegible]   -[illegible]   -.[illegible]   .[illegible]   -.[illegible]   .[illegible]412   .01443   .[illegible]   .[illegible]   -.07[illegible]   -.08[illegible]
  [illegible]   [illegible]   -.0[illegible]279   .[illegible]   -.[illegible]   .[illegible]   .[illegible]   .[illegible]   .[illegible]   .[illegible]   -.[illegible]
  [illegible]   [illegible]   -.02916   .[illegible]   -.[illegible]   .[illegible]   .[illegible]   .[illegible]   .[illegible]172   .00611   -.[illegible]
  [illegible]   4[illegible]   -.0[illegible]   .[illegible]   -.[illegible]   .[illegible]   .[illegible]   .00001   -.[illegible]   -.02134   -.[illegible]
```

AEDC/VA528 (IA87) - OS[illegible]-A/M SRB SEPARATION FROM [illegible] ([illegible]) (03 OCT 74)

REFERENCE DATA

SREF = [illegible] SQ.FT. XMRP = 1234.5000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. Y
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. Z
SCALE = .0[illegible]

PARAMETRIC DATA

MACH = [illegible] [illegible] = [illegible]
ALPHA = [illegible] BETA = [illegible]
[illegible] = [illegible] DELTA = .000
X = [illegible]

RUN NO. 1[illegible] [illegible] = 6.25

Y	Z	CN	CA	CLM	CY	CYN	CBL	[illegible]	[illegible]	X
300.[illegible]	-1[illegible]	-.01518	.02104	-.00537	.00895	.00624	[illegible]	.01825	[illegible]	-.12687
299.[illegible]	.729	-.00745	.02218	-.00656	.01796	.00725	[illegible]	-.00835	[illegible]	-.09957
199.5[illegible]	101.295	-.04[illegible]	.02316	-.00611	[illegible]	.00803	[illegible]	.00152	[illegible]	[illegible]
199.[illegible]	200.[illegible]	[illegible]	.02147	-.00873	.00297	.00606	[illegible]	-.03702	[illegible]	[illegible]
190.[illegible]	301.48[illegible]	[illegible]	.02085	-.00947	.00376	.00076	[illegible]	.01150	[illegible]	[illegible]

RUN NO. [illegible] [illegible] = [illegible].85

Y	Z	CN	CA	CLM	CY	CYN	CBL	[illegible]	[illegible]	X
3[illegible].092	-[illegible]	[illegible]	.02375	-.00314	.01565	-.00557	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	.02418	-.00231	.01745	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	99.510	[illegible]	.02312	-.00305	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	199.[illegible]	[illegible]	.02161	-.00513	[illegible]	.00746	[illegible]	[illegible]	[illegible]	-.01545
[illegible]	400.3[illegible]	[illegible]270	.02145	-.00751	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-.11676

AEDC/VA528 (IA87) - OS[illegible]-A/M SRB SEPARATION FROM [illegible] ([illegible]) ([illegible] OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1[illegible] IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 4[illegible] IN. ZS
SCALE = .0[illegible]

PARAMETRIC DATA

MACH = [illegible] [illegible] = [illegible]
ALPHA = [illegible] BETA = .000
[illegible] = [illegible] DELTA = [illegible]
X = [illegible]

RUN NO. 113[illegible] [illegible] = [illegible].85

Y	Z	CN	CA	CLM	CY	CYN	CBL	[illegible]	[illegible]	X
12.009	-100.165	[illegible]	.01707	-.00909	.02567	[illegible]	[illegible]	[illegible]	[illegible]	29[illegible]
10.578	-.158	[illegible]	.01636	-.01155	.02580	[illegible]	[illegible]	[illegible]	[illegible]	2[illegible]
13.235	1[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8.673	1[illegible]	.02274	[illegible].578	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8.769	[illegible]	[illegible]	.02597	[illegible]	.01152	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

```
DATE 20 MAY 75                    IA97 TABULATED SOURCE DATA                                          PAGE [illegible]

                               AEDC/VA522(IA97)-OEET151-A/H A+B SEPAR.FROM O/ET              (ATU038)   ( 05 OCT 74 )

         REFERENCE DATA                                                                         PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.3000 IN. XS                             MACH   =    4.320   PTOTL  =   90.290
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                             ALPHA  =   -5.700   BETA   =     .000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                             DALPHA =     .000   DELTA  =     .000
SCALE =       .0100                                                               X      =  300.000

                    RUN NO.  114/ 0    RN/L =   5.85

     Y         Z         CN        CA        CLM       CY        CYN       CBL      DLTALF    DLTBTA      X
  100.910  -100.190   -.02980    .02560   -.00986    .02095    .05865    .00001    .02129   -.01505  299.93000
  100.730     -.205   -.03440    .02042   -.01025    .00308    .06401    .00001    .08813   -.01225  299.88000
   99.025    99.003   -.03536    .02539   -.00727    .00008    .00182    .00001    .05299    .00099  299.89000
   99.571   199.570   -.03054    .02294   -.00672   -.00358    .00128    .00001    .01412    .01190  299.93500
  102.080   299.500   -.03465    .02816   -.01539    .00296    .00623    .00000    .08122   -.00957  299.94000

                    RUN NO.  115/ 0    RN/L =   5.86

     Y         Z         CN        CA        CLM       CY        CYN       CBL      DLTALF    DLTBTA      X
  202.310  -100.[illegible]  -.02892  .0227[illegible]  -.00714  .02304  .01591  .00001  .07413  -.06280  299.90000
  212.170     -.289   -.03180  [illegible]  -.00676    .01848    .01132    .00001    .02481   -.07263  299.88000
  201.530    99.496   -.03595  [illegible]  [illegible]  .01283  .00910    .00001    .03494   -.02007  299.86000
  200.910   199.560   -.02872  [illegible]  -.01142    .00637    .00883  [illegible]  .01051    .00618  299.90000
  200.570  [illegible]  -.03512  [illegible]  -.00921  .01342   .00527    .00001    .06512    .00481  [illegible]

                    RUN NO.  115/ 0    RN/L =   5.86

     Y         Z         CN        CA        CLM       CY        CYN       CBL      DLTALF    DLTBTA      X
  400.100  -100.205   -.03618    .02329   -.00290    .01442    .00154    .00001  [illegible]  -.00065  299.82000
  399.940      .235   -.03971    .02263   -.00310    .01159    .00252    .00001  [illegible]  -.01023  299.54000
  399.890   199.560   -.03867    .02300   -.00316    .00802    .00279    .00001   -.05164   -.00567  299.62000
  40[illegible].060  [illegible]  -.03282  .02275  -.00536  .00567  .00393  [illegible]  -.01679  -.00301  [illegible]
  401.010  [illegible]  -.03274   .02580   -.00745    .00183    .00361    .00000   -.00733  [illegible]  [illegible]
```

AEDC(VA528)(IA87)-ORBITER-O/R 3RD SEPARATION GRET (ATU057) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1256.3000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = [illegible]

PARAMETRIC DATA

MACH = 4.500 PTOTL = 90.000
ALPHA = -3.700 BETA = .000
DALPHA = 5.000 DBETA = .000
X = 300.000

RUN NO. 120/ 0 RN/L = 3.95

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
11.081	-100.196	-.01697	.01672	-.00335	.00903	.01965	.00002	5.01640	-.03944	299.95000
9.497	-.323	-.01972	.01823	-.00595	-.00313	.00546	.00002	5.01380	.03729	299.97000
10.649	99.817	-.00808	.01966	-.00447	-.01104	.00375	.00001	5.01130	-.01137	[illegible]
6.137	198.290	[illegible]	.01770	-.00184	[illegible]	-.00135	-.00003	[illegible]	.07042	[illegible]
10.615	399.[illegible]	-.01519	.02548	-.00863	[illegible]	.00211	-.00006	[illegible]	-.03316	[illegible]

RUN NO. 119/ 0 RN/L = 3.99

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
99.992	-101.120	-.02916	.02426	-.00202	.00141	.00955	.00002	5.01920	.00903	299.[illegible]
102.700	.375	-.01917	.02125	-.00213	[illegible]	.01532	[illegible]	[illegible]	[illegible]	[illegible]
104.219	100.020	-.00972	.02176	-.00131	-.01012	.00248	[illegible]	5.01820	[illegible]	299.[illegible]
100.770	200.020	-.00474	.02345	-.00143	[illegible]	[illegible]	[illegible]	5.01070	-.01655	299.[illegible]
100.510	398.870	[illegible]	.02547	-.05787	[illegible]	.00549	[illegible]	4.96070	-.04251	299.[illegible]

RUN NO. 118/ 0 RN/L = 3.66

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.410	-100.150	-.00337	.02859	.00160	.01310	.01436	[illegible]	5.01290	[illegible]	299.[illegible]
198.620	1.183	-.00391	.02933	.00089	.00706	.01134	[illegible]	4.97130	[illegible]	299.82000
199.400	100.410	-.01154	.02882	-.00051	.00514	.00944	[illegible]	4.98437	[illegible]	299.[illegible]
200.200	200.700	-.00949	.02933	-.00380	.00430	.05371	[illegible]	4.95170	-.00572	299.72000
197.970	399.830	-.00478	.02080	-.00531	[illegible]	.00982	[illegible]	4.98740	.03992	299.[illegible]

RUN NO. 117/ 0 RN/L = 3.65

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.330	-100.230	[illegible]	.02341	.00207	[illegible]	.00155	[illegible]	[illegible]	[illegible]	[illegible]
400.040	-.723	[illegible]	[illegible]	.00225	[illegible]	.00253	[illegible]	[illegible]	[illegible]	300.[illegible]
400.120	49.677	[illegible]	[illegible]	.00085	[illegible]	.00337	[illegible]	[illegible]	[illegible]	[illegible]
401.080	199.400	[illegible]	[illegible]	-.00237	.00520	[illegible]	[illegible]	[illegible]	[illegible]	300.[illegible]
403.930	399.810	[illegible]	[illegible]	-.00140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]MAGRC[illegible]-ORET[illegible] (ATU048) [illegible]

[illegible] DATA

SREF = [illegible].0000 SQ.FT. XMRP = 125[illegible] IN. XO
LREF = [illegible].3000 [illegible] YMRP = .0000 IN. YO
BREF = 1260.3000 [illegible] ZMRP = 46[illegible] IN. ZO
SCALE = .0100

PARAMETRIC DATA

MACH = 4.[illegible] [illegible] = [illegible]
ALPHA = -5.7[illegible] BETA = .000
[illegible] = 1.[illegible] [illegible] = .000
[illegible] = .003

RUN NO. 123/ 0 RN/L = [illegible]

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
9.670	-49.543	-.01463	.02720	.00290	.00932	.01551	.00071	1.98455	.05558	-.33813
10.944	-.0552	-.01013	.02380	-.02133	-.04003	.02745	.00722	3.07910	.00725	-.57426
8.785	99.2[illegible]	-.00780	.02274	-.00287	-.05242	[illegible]	.00[illegible]	1.06700	.06516	-.07260
12.130	149.5[illegible]	-.00480	.02730	-.00429	-.02810	[illegible]	.00[illegible]	5.04430	-.07168	.04208
11.2[illegible]	201.110	-.06440	.02532	-.00719	-.00016	.03454	-.00005	4.94003	-.06600	-.10092

RUN NO. 122/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
[illegible].020	-101.000	.00763	.05836	.00637	.07516	.01[illegible]	.00[illegible]	5.04517	-.2861	.05535
96.5[illegible]	2.004	-.01254	.05046	.00100	.06937	.01614	.05701	4.96929	.5159	-.31510
96.721	102.293	-.01071	.02000	-.00576	.07726	.01[illegible]	.02730	4.96760	.07214	-.25296
96.375	201.070	-.01[illegible]	.02792	-.00273	.07[illegible]	[illegible]	.02000	4.95[illegible]	-.08356	-.10755
[illegible].410	399.[illegible]	-.0385[illegible]	.06023	-.[illegible]	-.00067	.00815	-.00[illegible]0	5.01770	-.01525	[illegible]

RUN NO. 1[illegible]/ 0 RN/L = [illegible].86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
2[illegible]0.690	-101.0[illegible]	-.02612	.02251	.02725	.01207	.01767	.00316	5.01100	.06605	-.01925
201.299	-1.000	-.0[illegible]	.02256	.02231	.00067	.07822	.07820	5.50090	-.02438	.05673
2[illegible]1.250	99.342	-.0[illegible]	.02517	-.02226	.02571	.00765	.00070	5.06933	-.02933	-.05975
202.398	199.275	-.02746	.02136	-.00197	.07293	.07727	.00000	5.06250	-.06155	-.0[illegible]
203.570	399.063	-.05471	.02082	-.00454	.00174	.03415	-.00085	5.05493	.05567	.05507

RUN NO. 124/ 0 RN/L = [illegible].96

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.957	-1[illegible].210	-.00409	.02313	.00[illegible]	.04572	-.01154	-.0[illegible]7	5.0[illegible]50	-.01378	-.05780
401.020	.092	-.01571	.02211	.01119	.01110	.02568	-.0[illegible]2	5.09440	-.05046	-.01750
4[illegible].993	100.2[illegible]	-.02521	.02072	-.00615	.07613	.02253	-.0[illegible]	4.96440	-.04784	-.13719
475.270	149.929	-.01556	.02057	-.00556	.00[illegible]12	.00210	.00[illegible]8	5.0[illegible]57	.00021	-.05492
399.[illegible]	-399.610	-.00[illegible]5	.02172	.00238	.07727	-.03116	-.00400	5.0[illegible]	.00130	.05045

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA[illegible](IA87)-ORBITER-R/H SRB SEPAR. FROM O.ET (AT[illegible]) ([illegible] OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1226.3000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0150

PARAMETRIC DATA

MACH = 4.600 PROTL = 90.203
ALPHA = -5.700 BETA = .000
DALPHA = -5.000 DOE = [illegible].000
Z = 3.0

RUN NO. 1877/0 RN/L = 2.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-100.450	.403	-.08785	.63079	-.01316	.04593	.01316	.07771	-4.98940	-.03587	-.10545
[illegible]	98.457	-.07905	.07[illegible]	-.01740	.02405	.00865	.00601	-4.04070	-.08416	-.10408
[illegible]	199.863	-.08344	.05[illegible]	-.01779	[illegible]	.00945	.00703	-4.93070	.05747	-.24078
154.040	416.440	-.07826	.6223.	-.02590	[illegible]	.00443	.00602	-5.08180	-.08574	.02231

RUN NO. 1767/0 RN/L = 3.63

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
201.005	.174	-.07985	.02273	-.01129	.02647	.03681	[illegible]	-4.95[illegible]	-.13323	-.22595
200.160	100.715	-.07912	.02343	-.01341	.02628	.00560	.00572	-5.04[illegible]	-.10215	-.09549
199.390	150.473	-.08375	.02474	-.01056	.02250	.02476	.01302	-4.90650	[illegible]	-.13970
197.400	199.538	-.07538	.02345	-.01199	.02702	.02615	.00062	-3.07500	.15[illegible]	-.03171

RUN NO. 1257/0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
399.085	-.036	-.07581	.02758	-.00347	.02808	-.01622	.00072	-4.96[illegible]	.06697	-.10776
395.160	99.225	-.07[illegible]	.02585	-.02059	.01397	-.01583	.00002	-4.65587	.07814	-.17582
403.400	198.290	-.07154	.02435	-.07039	.03110	-.03104	.00001	-4.55[illegible]	.02258	-.10613
400.[illegible]	400.049	-.08004	.02517	-.01812	[illegible]	[illegible]	[illegible]	-5.4[illegible]	-.05410	.09661

A[illegible](IA87)-ORBITER-R/H SRB SEPAR. FROM O.ET (A[illegible]) (20 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1226.3000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0150

PARAMETRIC DATA

MACH = 4.600 PROTL = 90.[illegible]
ALPHA = -5.700 BETA = .000
DALPHA = -5.000 DBETA = .000
Z = 3.0

RUN NO. [illegible] RN/L = 3.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
[illegible]	[illegible]	-.08856	.01502	-.01957	[illegible]	.07210	[illegible]	[illegible]	-.01228	[illegible]
[illegible]	194.[illegible]	-.05555	[illegible]	-.01238	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	-.03[illegible]	[illegible]	-.01827	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

DATE [illegible] MAY [illegible]   TABULATED SOURCE DATA   PAGE [illegible]

[illegible]   PARAMETRIC DATA

REFERENCE DATA

SREF = [illegible] SQ.FT.   XMRP = [illegible] IN. XO
LREF = [illegible] IN.   YMRP = [illegible] IN. YO
BREF = [illegible] IN.   ZMRP = [illegible] IN. ZS
SCALE = [illegible]

MACH = [illegible]   PITCH = [illegible]
ALPHA = [illegible]   BETA = [illegible]
[illegible] = [illegible]   [illegible] = [illegible]
Y = [illegible]

RUN NO. [illegible]   RN/L = [illegible]

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

RUN NO. [illegible]   RN/L = [illegible]

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

RUN NO. [illegible]   RN/L = [illegible]

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]   PARAMETRIC DATA

REFERENCE DATA

SREF = [illegible] SQ.FT.   XMRP = [illegible] IN. XO
LREF = [illegible] IN.   YMRP = [illegible] IN. YO
BREF = [illegible] IN.   ZMRP = [illegible] IN. ZS
SCALE = [illegible]

MACH = [illegible]   PITCH = [illegible]
ALPHA = [illegible]   BETA = [illegible]
[illegible] = [illegible]   [illegible] = [illegible]
Y = [illegible]

RUN NO. [illegible]   RN/L = [illegible]

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible] TABULATED SOURCE DATA

[illegible] PAGE [illegible]

[illegible] PARAMETRIC DATA

REFERENCE DATA

SREF = [illegible] SQ.FT. XMRP = [illegible] IN. XO
LREF = [illegible] INCHES YMRP = [illegible] IN. YO
BREF = [illegible] INCHES ZMRP = [illegible] IN. ZO
SCALE = [illegible]

RUN NO. [illegible] RN/L = [illegible]

X	Z	CN	CA	CLM	CY	CYN	CBL	DELTAZ	DELTAY	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

RUN NO. [illegible] RN/L = [illegible]

X	Z	CN	CA	CLM	CY	CYN	CBL	DELTAZ	DELTAY	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

RUN NO. [illegible] RN/L = [illegible]

X	Z	CN	CA	CLM	CY	CYN	CBL	DELTAZ	DELTAY	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

REFERENCE DATA

PARAMETRIC DATA

ORIGINAL PAGE IS
OF POOR QUALITY

REFERENCE DATA

PARAMETRIC DATA

[illegible]	[illegible]	CN	CA	CLM	CY	[illegible]	CBL	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible] TABULATED SOURCE DATA [illegible]

[illegible]

[illegible] DATA

[illegible]

SCALE = [illegible]

[illegible]

[illegible]	[illegible]	[illegible]	CA	[illegible]	CY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	CY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

[illegible] TUNNEL [illegible] DATA

[illegible] DATA

[illegible] DATA

[illegible]

REFERENCE DATA

SREF = [illegible] SQ.FT. XMRP = [illegible] IN. XS
LREF = [illegible] INCHES YMRP = [illegible] IN. YS
BREF = [illegible] INCHES ZMRP = [illegible] IN. ZS
SCALE = [illegible]

[illegible]

[illegible] SEPAR.FROM [illegible] [illegible] OCT [illegible]

REFERENCE DATA

SREF = [illegible] SQ.FT. XMRP = [illegible] IN. XS
LREF = [illegible] INCHES YMRP = [illegible] IN. YS
BREF = [illegible] INCHES ZMRP = [illegible] IN. ZS
SCALE = [illegible]

PARAMETRIC DATA

MACH = [illegible] [illegible] = [illegible]
ALPHA = -5.[illegible] BETA = [illegible]
[illegible] = [illegible] [illegible] = [illegible]
X = .000

Y	Z	CN	CA	[illegible]	CY	CYN	CBL	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.975[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible].97913	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible] SEPAR.FROM [illegible] [illegible] OCT [illegible]

REFERENCE DATA

SREF = [illegible] XMRP = [illegible] IN. XS
LREF = [illegible] INCHES YMRP = [illegible] IN. YS
BREF = [illegible] INCHES ZMRP = [illegible] IN. ZS
SCALE = [illegible]

PARAMETRIC DATA

MACH = [illegible] [illegible] = [illegible]
ALPHA = [illegible] BETA = [illegible]
[illegible] = [illegible] [illegible] = [illegible]
X = [illegible]

Y	Z	CN	CA	[illegible]	CY	CYN	CBL	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]	[illegible]	CN	CA	[illegible]	CY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

ORIGINAL PAGE IS
OF POOR QUALITY

[illegible] FROM OET [illegible] 74 [illegible]

[illegible] DATA

[illegible] = [illegible] SQ.FT. [illegible] = [illegible] IN. [illegible]
[illegible] = [illegible] INCHES [illegible] = [illegible] IN. [illegible]
[illegible] = [illegible] INCHES [illegible] = [illegible] IN. [illegible]
[illegible] = .0175

PARAMETRIC DATA

MACH = 4.520 PTOTL = [illegible]
ALPHA = [illegible] BETA = [illegible]
[illegible] = [illegible] [illegible] = [illegible]
X = [illegible]

RUN NO. [illegible] [illegible] = [illegible]

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
205.[illegible]	[illegible]	-.07176	[illegible]	[illegible]	[illegible]	[illegible]	-.00501	[illegible]	-8.00350	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-7.00710	299.84[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

RUN NO. [illegible] [illegible] = [illegible]

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	298.[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	299.71[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	299.[illegible]

[illegible] SEP FROM OET [illegible] (03 OCT 74)

[illegible] DATA

PARAMETRIC DATA

[illegible] = [illegible] [illegible] = [illegible]
[illegible] = [illegible] [illegible] = [illegible]
[illegible] = [illegible] [illegible] = [illegible]
[illegible]

MACH = 4.520 PTOTL = [illegible]
ALPHA = [illegible] BETA = [illegible]
[illegible] = [illegible] [illegible] = [illegible]
[illegible] = [illegible]

RUN NO. [illegible] [illegible] = 3.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.03879	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

RUN NO. [illegible] [illegible] = [illegible]

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible] [illegible] OCT 7[illegible]

REFERENCE DATA

PARAMETRIC DATA

RUN NO. [illegible] RN/L = [illegible]

X	Z	CN	CA	CLN	CY	CYN	CBL	[illegible]	DELTA	Y
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	.02454	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible] [illegible] OCT 74

REFERENCE DATA

PARAMETRIC DATA

RUN NO. [illegible] RN/L = [illegible]

X	Z	CN	CA	CLN	CY	CYN	CBL	[illegible]	DELTA	Y
[illegible]	[illegible]	[illegible]	.02412	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

RUN NO. [illegible] RN/L = [illegible]

X	Z	CN	CA	CLN	CY	CYN	CBL	[illegible]	DELTA	Y
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

DATE 20 MAY 75 TABULATED [illegible]

[illegible] (IA07) -OCET151- [illegible]

PARAME[illegible]

[illegible] DATA

LREF = [illegible].0000 [illegible] XMRP = [illegible] IN. XO
LREF = 1290.3000 INCHES YMRP = [illegible] IN. YS
BREF = 1290.3000 INCHES ZMRP = [illegible] IN. ZS
SCALE = .0100

[illegible] Sh/L = [illegible].04

V	[illegible]	CN	CA	CLM	[illegible]	CYN	[illegible]	[illegible]	[illegible]	[illegible]
400.0[illegible]	[illegible].98[illegible]	-.03445	.0[illegible]	-.00402	.0[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
400.380	.200	-.03[illegible]	.02157	-.00[illegible]	.0[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4[illegible].1[illegible]	90.0[illegible]	-.03[illegible]	.02[illegible]	-.00[illegible]	.0[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
400.780	1[illegible].0[illegible]0	-.03[illegible]	.02231	-.00[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3[illegible]	4[illegible].[illegible]30	-.03[illegible]	.02162	-.00[illegible]	[illegible]	.00[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]/VASE [illegible]

REFERENCE DATA

SREF = [illegible].0000 SQ.FT. XMRP = 1296.[illegible] IN. XS
LREF = [illegible].3000 INCHES YMRP = [illegible]
BREF = [illegible].3000 INCHES ZMRP = 400.[illegible] IN. ZS
SCALE = .0[illegible]

X = [illegible]

[illegible] 10[illegible] 0 [illegible] = [illegible]

V	[illegible]	CN	[illegible]	CLM	CY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible].[illegible]	-[illegible]	-.00[illegible]	[illegible]	-.07[illegible]	.0[illegible]	[illegible]12	[illegible]	[illegible]	[illegible]	[illegible]
90.[illegible]	-.115	-.0[illegible]47	[illegible]	-.0[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible].34[illegible]	1[illegible].2[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.[illegible]710	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	.2715	[illegible]	[illegible]	[illegible]241	[illegible]	[illegible]	[illegible]	3[illegible]

[illegible] 10[illegible] 3 [illegible] = [illegible]

V	[illegible]	[illegible]	CA	[illegible]	CY	CYN	[illegible]	[illegible]	[illegible]	X
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible].210	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1[illegible].380	1[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	2[illegible]	[illegible]	.0[illegible]13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

```
DATE [illegible] 75                      [illegible] TABULATED SOURCE DATA                               PAGE [illegible]

                                    [illegible] SRB [illegible]PAR.FR[illegible]          [illegible]  ( [illegible] OCT 74 )

                  REFERENCE DATA                                                    PARAMETRIC DATA

SREF  =  [illegible] SQ.FT.   [illegible]  =  [illegible] INCHES           [illegible]  =  [illegible]  [illegible]  =  95.[illegible]
LREF  =  1290.[illegible] INCHES  [illegible]  =  [illegible] INCHES       [illegible]  =  5.[illegible]  BETA  =  [illegible]
BREF  =  1290.[illegible] INCHES  [illegible]  =  [illegible] INCHES       [illegible]  =  5.[illegible]  [illegible]ETA  =  -[illegible]
SCALE =  [illegible]                                                       [illegible]  =  30[illegible]

                          RUN NO.  160/ [illegible]   RN/L = [illegible]

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBETA
 400.970   [illegible]  -[illegible]  .[illegible]70  [illegible]  [illegible]  .0[illegible]  -[illegible]  [illegible]  [illegible]  299.[illegible]
 [illegible]  [illegible]  -.00[illegible]  [illegible]  .0[illegible]  [illegible]  .009[illegible]  [illegible]  5.04[illegible]  [illegible]  300.[illegible]
 [illegible]  [illegible]  -.0073[illegible]  [illegible]  .0[illegible]  [illegible]  .01[illegible]  [illegible]  [illegible]  [illegible]70  [illegible].10[illegible]
 [illegible]  [illegible]  -.0065[illegible]  .0[illegible]  -.00[illegible]  [illegible]  .0[illegible]  [illegible]  [illegible]  [illegible]  300.[illegible]
 [illegible]  [illegible]9.[illegible]0  -[illegible]  .01966  -[illegible]  [illegible]  .0[illegible]  [illegible]  [illegible]  [illegible]  2[illegible].92[illegible]

                                    [illegible]LXC/V[illegible]328(IA[illegible]  [illegible] OCT 74 )

                 REFERENCE DATA                                                     PARAMETRIC DATA

SREF  =  2[illegible].0000 SQ.FT.  [illegible]  =  [illegible] INCHES         [illegible]  =  [illegible]  [illegible]L  =  [illegible].200
LREF  =  1290.3000 INCHES  YMRP  =  [illegible] INCHES            ALPHA  =  [illegible]  BETA  =  [illegible]00
BREF  =  1290.30[illegible] INCHES  ZMRP  =  [illegible] INCHES        DALPHA =  [illegible]  [illegible]ETA  =  -[illegible]
SCALE =  .01[illegible]                                                    X

                          RUN NO.  163/ [illegible]   RN/L = [illegible]

     Y          Z          [illegible]   CA         CLM        CY         CYN        CBL        DLTALF     DLTBETA    X
  99.638    -99.994   -.01292    [illegible]   .00518     [illegible]  .02805     -[illegible]  [illegible]  -[illegible]30  -[illegible]
 100.220      -.457   -.0119[illegible]  [illegible]  -.00[illegible]3  .0[illegible]  .02558  -.00[illegible]  [illegible]  -[illegible]  [illegible]
 100.390     99.76[illegible]  -.00[illegible]  .02[illegible]  -.0[illegible]  .0[illegible]  .02176  -.00[illegible]  [illegible]1510  -[illegible]01130  -[illegible]
  99.787    199.72[illegible]  -.0[illegible]  02769  -[illegible]  .0[illegible]  .01[illegible]0  -.00[illegible]  5.01[illegible]  -[illegible]9630  .02[illegible]
  99.731    3[illegible].720  -.00[illegible]  .019[illegible]  -.00[illegible]  .0[illegible]  .01032  -.00[illegible]  5.0140[illegible]  -[illegible]00  .0[illegible]

                          RUN NO.  164/ 0   RN/L = [illegible]

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBETA    X
 199.180   -[illegible].240   -.00923   .0212[illegible]  [illegible]  [illegible]  .0[illegible]483  [illegible]000  5.[illegible]  -[illegible]  -.0[illegible]
 201.[illegible]  -[illegible]   -.01273   .0215[illegible]  .00[illegible]  [illegible]  .01[illegible]64  .0000[illegible]  [illegible]  -[illegible]  [illegible]
 2[illegible]   99.71[illegible]  -.0[illegible]  .[illegible]21[illegible]  -.0[illegible]0  .[illegible]  .016[illegible]1  [illegible]  5.0[illegible]0  -[illegible]  .0[illegible]
 202.2[illegible]  199.4[illegible]  -.0[illegible]017  .[illegible]2143  -.00162  .0[illegible]  .01283  [illegible]  5.[illegible]  -4.[illegible]  .[illegible]
 19[illegible].3[illegible]  399.[illegible]0  -.005[illegible]  .0125[illegible]  -.00463  .0[illegible]  .00966  -.00[illegible]  5.03[illegible]  -3.[illegible]  -.0[illegible]77
```

AEDC/VA520(IA87) [illegible] SRB SEPAR.FROM O/ST (4[illegible]) ([illegible] OCT 74)

REFERENCE DATA

SREF = [illegible].0000 SQ.FT. XMRP = 1256.5000 IN. XS
LREF = [illegible].3000 INCHES YMRP = [illegible] IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.[illegible] IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = [illegible].220 [illegible] = 90.200
ALPHA = -5.[illegible] BETA = [illegible]
DALPHA = [illegible] DBETA = [illegible]
X = .[illegible]

RUN NO. 165/ 0 RN/L = [illegible].96

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALP	DLTBTA	X
[illegible]00.810	[illegible].200	-.[illegible]	.02280	[illegible]	.[illegible]94	[illegible]	[illegible]	5.[illegible]	[illegible]	[illegible]
401.100	.4[illegible]8	-.00647	.02172	[illegible]	[illegible]	[illegible]	-.[illegible]	[illegible]	[illegible]	[illegible]
400.340	100.090	-.00743	.[illegible]60	[illegible]	[illegible]	[illegible]	-.[illegible]	[illegible]	[illegible]	[illegible]
400.280	200.370	-.[illegible]	.02012	-.[illegible]95	.02311	[illegible]	-.[illegible]	4.[illegible]	[illegible]	[illegible]
399.280	[illegible]1.000	-.[illegible]	[illegible]19	[illegible]	.021[illegible]0	[illegible]	-.000[illegible]	4.[illegible]	[illegible].[illegible]70	[illegible]

AEDC/VA520(IA87) [illegible] SRB SEPAR.FROM O/ST [illegible] ([illegible])

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = [illegible]0 IN. XS
LREF = 1290.3000 INCHES YMRP = [illegible] IN. YS
BREF = 1290.3000 INCHES ZMRP = 4[illegible] IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = [illegible] [illegible] = [illegible]
ALPHA = [illegible] BETA = [illegible]
DALPHA = [illegible] DBETA = [illegible]
X = [illegible]

RUN NO. [illegible] 0 RN/L = [illegible].86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALP	DLTBTA	X
100.270	[illegible]	-.0[illegible]69	.02[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]90	-3.[illegible]	[illegible]
99.641	1[illegible].940	-.[illegible]30	.02904	[illegible]	[illegible]	[illegible]	[illegible]1	[illegible]	-3.[illegible]	[illegible]
100.410	401.5[illegible]	-.[illegible]	02[illegible]35	[illegible]	[illegible]64	[illegible]	[illegible]	[illegible]	-[illegible].02[illegible]90	[illegible]

RUN NO. [illegible] 0 RN/L = [illegible]

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALP	DLTBTA	X
199.940	99.[illegible]56	-.07944	[illegible]	-.[illegible]371	[illegible]	[illegible]	[illegible]	-5.[illegible]	[illegible]	[illegible]
19[illegible].150	200.[illegible]	-.[illegible]	[illegible]	.01[illegible]	[illegible]	[illegible]	[illegible]	-4.[illegible]	[illegible]	[illegible]
199.9[illegible]	[illegible].8[illegible]	-.[illegible]10	[illegible]	[illegible]	[illegible]47	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

RUN NO. 166/ 0 RN/L = [illegible]

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALP	DLTBTA	X
400.200	99.500	-.[illegible]	.02647	-.00[illegible]	.04[illegible]18	.00[illegible]	[illegible]02	[illegible]	[illegible]0	[illegible].148[illegible]
400.780	199.370	-.07843	.02514	-.00[illegible]	.04121	[illegible]	[illegible]2	-4.9[illegible]	[illegible]	[illegible]828
400.380	400.4[illegible]	-.07439	.02380	-.00889	.03[illegible]	[illegible]29	.00[illegible]2	-5.[illegible]	[illegible]	[illegible]0673

```
                                AEDC/VA528(IA87)-OLET1S1-R/H SRB SEPAR FROM O/ET        (ATU056)   ( 03 OCT 74 )

        REFERENCE DATA                                                              PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                    MACH   =    4.520   PTOTL  =   99.[illegible]
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                    ALPHA  =   -5.7[illegible]   BETA   =     .000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                    DALPHA =   -5.7[illegible]   DBETA  =   -4.000
SCALE =       .0100                                                      [illegible]      =  400.000

                      RUN NO.  169/ 0    RN/L =   5.86

     Y         Z          CN         CA        CLM        CY        CYN        CBL       DLTALF      DLTBTA       Y
   99.842   100.220    -.06579    .02015    -.01705    .02918    .00882    [illegible] [illegible] -4.00730  [illegible]
   97.255   199.470    -.05731    .02114    -.01715    .01545    .00822    [illegible] [illegible] -3.93570  299.2[illegible]
  100.080   399.700    -.06337    .02682    -.022[illegible]   .01944    .01360    .00000    -4.981[illegible]   -3.99350  299.[illegible]

                      RUN NO.  170/ 0    RN/L =   5.86

     Y         Z          CN         CA        CLM        CY        CYN        CBL       DLTALF      DLTBTA       X
  202.030    99.796    -.06938    .02680    -.020[illegible]   .04639    .01527    .00[illegible]    -4.97520    -4.05400  [illegible]
  200.030   199.850    -.07107    .02915    -.020[illegible]1   .02534    .014[illegible]    .00000    -4.96760    -3.98350  [illegible]
  200.640   398.140    -.07276    .02442    -.01[illegible]   .03106    .01172    [illegible] [illegible]  -3.986[illegible]  [illegible]

                      RUN NO.  171/ 0    RN/L =   5.86

     Y         Z          CN         CA        CLM        CY        CYN        CBL       DLTALF      DLTBTA       X
  401.360   100.[illegible]   -.07463    .02349    -.01[illegible]43   .04[illegible]    .00[illegible]    .00[illegible]    -4.99990    -4.02580  300.10000
  399.740   199.730    -.07[illegible]    .02459    -.01[illegible]   .04324    .00[illegible]35    [illegible] -4.978[illegible]   -3.97380  299.86000
  399.370   39[illegible]  [illegible]33   .02331    -.01068    .03329    .0[illegible]30    [illegible] -4.99520    -3.94390  299.94[illegible]

                                AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET        (ATU[illegible])   ( 0[illegible] OCT 74 )

        REFERENCE DATA                                                              PARAMETRIC DATA

SREF  =  2690.0100 SQ.FT.   XMRP  =  1258.5000 IN. XS                    MACH   =    4.520   PTOTL  =   9[illegible]
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                    ALPHA  =   -3.700   BETA   =     .000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                    DALPHA =     .000   DBETA  =   -[illegible]
SCALE =       .0100                                                      X      =      560

                      RUN NO.  173/ 0    RN/L =   5.86

     Y         Z          CN         CA        CLM        CY        CYN        CBL       DLTALF      DLTBTA       X
  200.490  -100.120    -.04151    .02123    -.00337    .0[illegible]    .01697    -.00[illegible]   .0[illegible]    -7.99430    -.23[illegible]
  200.810     -.304    -.0412[illegible]    .02029    -.00649    .07738    .02376    -.00000    .01952    -7.99870    [illegible]
  198.470   101.740    -.04244    .02110    -.00974    .05[illegible]    .02488    -.00000    -.07604    -7.97490    -.27403
  200.650   199.690    -.03750    .02021    [illegible] .04535    .02223    -.00000    .01689    -7.[illegible]570    -.33[illegible]
  201.700   399.840    -.07655    .02192    [illegible] .04651    .0146[illegible]    -.00000    .01046    [illegible]    .08922
```

AEDC-VA328(IA87)-OMET1S1-R/M SRB SEPAR.FROM O/ET (ATU059) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1250.0000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 50.200
ALPHA = -5.700 BETA = .000
DALPHA = .000 DBETA = -8.000
X = .000

RUN NO. 172/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
399.940	-99.997	-.03699	.02198	-.00396	.07143	.00967	.00000	.01202	-7.99470	[illegible]
399.520	-.245	[illegible]	.02371	-.00334	[illegible]	.01003	.00000	.01712	-7.96890	.02293
399.780	99.470	[illegible]	.02344	-.00359	.06075	.01173	[illegible]	.04335	[illegible]	-.04948
401.030	199.530	-.03974	[illegible]	-.00326	.05525	.01252	.00000	.03131	[illegible]	.12432
399.290	400.300	-.03753	[illegible]	[illegible]	.05518	.01113	[illegible]	-.00447	[illegible]	-.16329

AEDC-VA328(IA87)-OMET1S1-R/M SRB SEPAR.FROM O/ET (ATU059) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1250.0000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 50.200
ALPHA = -5.700 BETA = .000
DALPHA = .000 DBETA = -8.000
X = 300.000

RUN NO. 174/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
201.230	-100.040	[illegible]	[illegible]	-.00832	[illegible]	[illegible]	-.00002	[illegible]	[illegible]	[illegible]
199.870	-.152	-.03775	[illegible]	[illegible]	[illegible]	.02713	[illegible]	[illegible]	-7.97400	[illegible]
203.300	99.588	-.03738	[illegible]	-.01200	.04356	.02541	-.00001	[illegible]	-9.05000	[illegible]
200.190	199.820	[illegible]	[illegible]	-.01355	[illegible]	.02460	-.00001	[illegible]	[illegible]	[illegible]
202.320	400.600	[illegible]	[illegible]	-.01277	[illegible]	.01769	[illegible]	[illegible]	[illegible]	[illegible]

RUN NO. 175/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.400	-100.120	-.03497	[illegible]	-.00645	[illegible]	.01580	[illegible]	[illegible]	-8.01530	[illegible]
399.310	.283	[illegible]	[illegible]	-.00727	[illegible]	.01529	[illegible]	[illegible]	[illegible]	[illegible]
399.030	99.827	[illegible]	[illegible]	[illegible]	[illegible]	.01547	[illegible]	[illegible]	-7.98910	[illegible]
399.520	199.730	[illegible]	.02291	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-7.58950	299.82000
397.920	400.380	[illegible]	[illegible]	-.00742	.04651	.01298	[illegible]	[illegible]	[illegible]	299.87000

AEDC/VA528(IA87)-O1ET1S1-[illegible] Q/ET (RTU081) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1250.3000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

[illegible]

RUN NO. 177/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
199.650	-100.080	-.00907	.02066	.00181	.0559[illegible]	[illegible]	[illegible]	5.01[illegible]	[illegible]	[illegible]
201.060	-.207	-.01090	.02688	-.00130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
197.850	100.770	-.00606	.02756	-.00152	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
198.890	200.140	-.00581	.02862	-.00524	.0459[illegible]	[illegible]	[illegible]	4.[illegible]	[illegible]	[illegible]
200.650	399.750	-.01003	.02270	-.00473	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible].17000

RUN NO. 176/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	X
399.600	-100.240	-.00610	.02131	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
399.050	-.902	-.00992	.02181	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
400.595	99.364	-.00967	.02154	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
402.130	199.360	-.00856	.02139	[illegible]	.048[illegible]3	[illegible]	[illegible]	5.0[illegible]	[illegible]	[illegible]
399.740	399.960	-.00569	.02045	[illegible]	[illegible]566	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

AEDC/VA528(IA87)-O1ET1S1-[illegible] ([illegible] 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1250.3000 IN. XS
LREF = 1290.3000 INCHES YMRP = [illegible]
BREF = 1290.3000 INCHES ZMRP = 400.0000 [illegible]
SCALE = .0100

PARAMETRIC DATA

MACH = 4.320 [illegible] = 50.000
[illegible] = -5.7[illegible] BETA = .000
[illegible]
X = [illegible]

RUN NO. 178/ 0 RN/L = 5.85

Y	Z	CN	[illegible]	[illegible]	CY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
200.100	-101.920	-.01067	.01953	[illegible]	[illegible]616	[illegible]	[illegible]	[illegible]	-7.9[illegible]	[illegible]
202.050	-1.530	-.01488	.0153[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.[illegible]990	[illegible]	[illegible]
200.700	100.090	-.00754	.02055	[illegible]	[illegible]	[illegible]	[illegible]	5.[illegible]870	-6.00[illegible]	[illegible]
200.490	199.700	-.00924	.02174	[illegible]333	[illegible]	[illegible]	[illegible]	[illegible]	-7.8[illegible]	[illegible]
199.740	399.370	-.00660	.02069	[illegible]244	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

ORIGINAL PAGE IS
OF POOR QUALITY

AEC[illegible]A328(IA87)[illegible] [illegible] OCT 7[illegible]

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1250.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = [illegible] IN. ZS
SCALE = .0100

PARAMETRIC DATA

[illegible] = 4.520 [illegible] = [illegible]
[illegible] = [illegible] [illegible] = [illegible]
DALPHA = [illegible] [illegible] = -6.0[illegible]
[illegible] = [illegible]

RUN NO. 175[illegible] 0 RN/L = [illegible]

Y	Z	CN	CA	CLM	[illegible]	[illegible]	CBL	D[illegible]	[illegible]	[illegible]
[illegible]	-100.120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
400.100	.490	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
399.490	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.90[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	.02150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	400.370	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

AEC[illegible]A328(IA[illegible])-DIETS[illegible] (ATU[illegible]) ([illegible] OCT 7[illegible])

REFERENCE DATA

SREF = [illegible] SQ.FT. XMRP = [illegible] IN. XS
LREF = 1290.3000 INCHES YMRP = [illegible] IN. YS
BREF = 1290.3000 INCHES ZMRP = [illegible] IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = [illegible] [illegible] = [illegible]
ALPHA = -5.7[illegible] [illegible] = [illegible]
[illegible] = -5.[illegible] DB[illegible] = [illegible]

RUN NO. 1517.0 RN/L = 5.0[illegible]

Y	Z	CN	CA	CLM	CY	CYN	CBL	[illegible]	[illegible]	[illegible]
201.6[illegible]	98.7[illegible]	[illegible]	[illegible]	-.01330	.08411	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]97.26[illegible]	20[illegible]	-.07[illegible]	[illegible]	[illegible]	[illegible]353	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
200.430	399.[illegible]	[illegible]	[illegible]322	[illegible]	[illegible]097	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

RUN NO. [illegible] 0 RN/L = [illegible]

Y	Z	CN	CA	CLM	CY	CYN	CBL	DELTAF	[illegible]	[illegible]
[illegible].180	100.22[illegible]	-.0[illegible]	[illegible]	[illegible]	[illegible]	[illegible]947	[illegible]	[illegible]0170	[illegible]	[illegible]
400.380	199.4[illegible]	[illegible]	[illegible]	[illegible]	[illegible]949	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
399.490	[illegible]	[illegible]727	[illegible]	-.0096[illegible]	[illegible]	.01035	.000[illegible]	[illegible]	[illegible]	[illegible]

DATE 26 MAY 78 [illegible] TABULATED SOURCE DATA PAGE [illegible]

AEDC/VA528(IA87)-O1ET151-R/H [illegible] SEPAR. FROM [illegible] (ATUF[illegible]) [illegible]

REFERENCE DATA

SREF = [illegible] SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = [illegible] IN. YS
BREF = 1290.3000 INCHES ZMRP = [illegible] IN. ZS
SCALE = [illegible]

PARAMETRIC DATA

MACH = [illegible]
ALPHA = [illegible]
DALPHA = [illegible] -0
[illegible] 0

RUN NO. 182/ 0 RN/L = [illegible]

Y	Z	CN	CA	CLM	CY	CYN	CBL	[illegible]ALF	[illegible]TOTA	[illegible]
[illegible].090	99.874	[illegible]	[illegible]	[illegible]	[illegible]	.02475	[illegible]	-4.96[illegible]	[illegible]450	[illegible]
290.250	[illegible]	[illegible]	.02824	[illegible]	.04994	[illegible]	[illegible]	-4.9[illegible]	[illegible]	[illegible]
[illegible]	4[illegible]	[illegible]	.02357	[illegible]	.04[illegible]	.0195[illegible]	.00000	[illegible]	[illegible]	[illegible]

RUN NO. [illegible]43/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	[illegible]	[illegible]TA	[illegible]
[illegible].100	[illegible].260	-.07347	[illegible]	-.01393	[illegible]438	[illegible]	.0000[illegible]	-4.9[illegible]	[illegible]	[illegible]
[illegible]	[illegible].860	-.07[illegible]	[illegible]	-.01286	[illegible]6948	.01382	.00001	[illegible]	[illegible]	29[illegible]
[illegible]	[illegible].340	-.07[illegible]	[illegible]	-.01218	.05690	.01289	.00001	[illegible]	[illegible].944	[illegible]

AEDC/VA[illegible](IA87)-O1ET151-R/H SRB SEPAR. FROM [illegible] (ATUF65) [illegible]

REFERENCE DATA

SREF = [illegible] SQ.FT. XMRP = [illegible] IN. XS
LREF = [illegible] INCHES YMRP = [illegible] IN. YS
BREF = [illegible] INCHES ZMRP = [illegible] IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520
ALPHA = [illegible]
DALPHA = [illegible]
[illegible] = [illegible]

RUN NO. [illegible] RN/L = 5.[illegible]

Y	Z	CN	CA	CLM	CY	CYN	[illegible]	[illegible]	[illegible]	[illegible]
10.781	-400.580	[illegible]4265	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]538
[illegible]	.031	.05186	[illegible]	.01[illegible]	.014[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible].563	.05[illegible]	[illegible]	[illegible]	.03374	[illegible]207	-.0[illegible]	[illegible]	[illegible]	[illegible]
10.972	[illegible].550	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10.7[illegible]	[illegible].700	[illegible]	[illegible]433	[illegible]	.0[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-.076[illegible]

RUN NO. 137[illegible] RN/L = 5.8[illegible]

Y	Z	CN	CA	CLM	CY	CYN	CBL	[illegible]	[illegible]	[illegible]
[illegible]	[illegible].415	[illegible]	.03253	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100.2[illegible]	[illegible]	.05[illegible]	.035[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100.[illegible]	99.895	[illegible]768	.03125	[illegible]	[illegible]	.0[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible].283	.05[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	4[illegible].263	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

```
DATE 2[illegible] MAY 7[illegible]                [illegible] TABULATED [illegible]                                   [illegible] 308

                                  AEDC[illegible] [illegible]TICS [illegible] O/ET                  [illegible]   [illegible]

            [illegible]

[illegible] = [illegible] SQ.FT.   [illegible] = [illegible]                               [illegible] = [illegible]    [illegible]TL =  90.200
LREF = [illegible]0.3000 INCHES   YMRP = [illegible]                                A[illegible] = [illegible]                =    .000
BREF = [illegible]0.3000 INCHES   [illegible] = [illegible]                         [illegible] = [illegible]                 =    .0[illegible]
SCALE = [illegible]                                                                  [illegible] = [illegible]

                      RUN NO. [illegible]   RN/L = [illegible]

            [illegible]    [illegible]    [illegible]    [illegible]    CY       CYN      [illegible]    DLTALF   [illegible]   [illegible]
 200.670  -[illegible]  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]   .00900  [illegible]  [illegible]
 200.920  [illegible]  [illegible]  [illegible]  [illegible]  .02[illegible]  [illegible]  [illegible]   .01301  [illegible]  .14[illegible]
 200.37[illegible]  [illegible]  .06[illegible]  .02316  [illegible]213  .0[illegible]  [illegible]  -[illegible]  -.0[illegible]  [illegible]  [illegible]
 [illegible]8.5[illegible]  2[illegible]  [illegible]  .02[illegible]  .00[illegible]0  .0[illegible]287  [illegible]534  -.[illegible]03  [illegible]  .0[illegible]  .0056[illegible]
 [illegible]0.620  [illegible]  [illegible]  .0[illegible]  .01038  .0[illegible]  [illegible]  [illegible]  .01[illegible]  -.0[illegible]  [illegible]

                      RUN NO. 185/ [illegible]   RN/L =  5.0[illegible]

   Y          Z         CN        CA        CLM       CY       [illegible]     [illegible]     [illegible]     [illegible]      X
 40[illegible].020  -1[illegible]  [illegible]  .02290  .00900  .0[illegible]  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]
 40[illegible]  [illegible]  .06[illegible]  .02319  .00763  .0[illegible]  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]
 [illegible]  [illegible]  [illegible]  .02326  .0086[illegible]  .0[illegible]  -.0[illegible]  [illegible]  [illegible]  [illegible]  [illegible]
 40[illegible]  [illegible]  .0[illegible]  .0235[illegible]  .0078[illegible]  .0[illegible]  -.0[illegible]  [illegible]  [illegible]756  [illegible]82  [illegible]
 40[illegible].3[illegible]  [illegible]  .0[illegible]97  .0[illegible]  .0116[illegible]  -.00[illegible]  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]5090

                                  [illegible]A520(1A87) [illegible]                 [illegible]   [illegible] OCT [illegible]

            [illegible]                                                          [illegible]A

SREF = 2[illegible] SQ.FT.   [illegible] = [illegible] IN. XS                             [illegible] = [illegible].[illegible]20
LREF = 1[illegible]0.[illegible] INCHES   YMRP = .00[illegible]0 IN. Y[illegible]            [illegible] = [illegible]0
BREF = 1290.[illegible] INCHES   ZMRP = [illegible].00[illegible] IN. Z[illegible]           [illegible] = [illegible]0
SCALE = [illegible]                                                                      [illegible] = [illegible]0.[illegible]0

                      RUN NO. [illegible]/ 0   RN/L = [illegible]

   Y          Z         [illegible]    [illegible]    [illegible]    [illegible]    [illegible]    [illegible]    [illegible]    [illegible]     X
 [illegible]  -100.[illegible]  [illegible]  [illegible]  .0090[illegible]  -.007[illegible]  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]
   3.342  [illegible]  [illegible]  [illegible]  .019[illegible]  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]
 1[illegible].155  [illegible]  [illegible]  [illegible]  .0[illegible]  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]
 [illegible]3.14[illegible]  [illegible]  [illegible]  [illegible]  .00[illegible]  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]
 12.[illegible]  [illegible]  [illegible]  [illegible]  .00572  [illegible]  .00531  [illegible]  [illegible]  [illegible]  [illegible]
```

DATE 20 [illegible] 75 [illegible] TABULATED SOURCE DATA [illegible]

[illegible] SEPAR.[illegible]

REFERENCE DATA

BREF = 20[illegible] [illegible] IN. [illegible]
LREF = 12[illegible] INCHES [illegible] IN. [illegible]
BREF = 12[illegible]5000 INCHES [illegible] 400.[illegible] IN. [illegible]
SCALE = [illegible]0100

[illegible]TRIC DATA

[illegible] = [illegible].890
[illegible]A = [illegible]
[illegible] = [illegible]

RUN NO. [illegible]

Y	Z	CN	[illegible]	[illegible]	CY	CYN	[illegible]	[illegible]	ULT[illegible]	[illegible]
10[illegible]	-101.1[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-[illegible]3	[illegible]	[illegible]	[illegible]
102.[illegible]	-1.006	[illegible]	[illegible]	[illegible]2	[illegible]69	[illegible]	-[illegible]3	[illegible]	[illegible]	[illegible]
102.440	99.435	[illegible]	[illegible]	[illegible]3	[illegible]	[illegible]33	[illegible]	[illegible]	[illegible]	[illegible]
100.840	[illegible].630	[illegible]	[illegible]	[illegible]23	[illegible]	[illegible]	[illegible]	[illegible]	-[illegible]	[illegible]
100.320	[illegible].630	.044[illegible]	[illegible]	[illegible]357	[illegible]	[illegible]	-[illegible]	.016[illegible]	-[illegible]	[illegible]

RUN NO. [illegible] 5 [illegible]

Y	Z	CN	[illegible]	[illegible]	[illegible]	[illegible]	CBL	[illegible]	[illegible]	[illegible]
[illegible]	-[illegible]0.200	[illegible]5	[illegible]152	[illegible]	.03[illegible]23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19[illegible]0	-1.130	[illegible]	[illegible]	.01[illegible]	[illegible]945	.0091[illegible]	[illegible]	[illegible]5	[illegible]	[illegible]
20[illegible].320	[illegible]9.997	[illegible]153	[illegible]	[illegible]	.03[illegible]	[illegible]11[illegible]	[illegible]	[illegible]2	[illegible]	[illegible]
2[illegible] 120	[illegible].900	[illegible]435	[illegible]	[illegible]	[illegible]	[illegible]99	[illegible]	[illegible]191	[illegible]	[illegible]
1[illegible].510	[illegible]	.04799	[illegible]2380	[illegible]	[illegible]	[illegible]75	[illegible]	[illegible]	[illegible]	[illegible]

RUN NO. [illegible]27.0 [illegible] 95

Y	Z	CN	[illegible]	[illegible]	CY	[illegible]	CBL	[illegible]	[illegible]	[illegible]
400.400	-100.[illegible]	[illegible]6395	[illegible]	[illegible]	[illegible]	[illegible]	-[illegible]	[illegible]	[illegible]	[illegible]
400.900	.72[illegible]	.085[illegible]	[illegible]	.01[illegible]	[illegible]	[illegible]	[illegible]	[illegible]33650	-.0176[illegible]	[illegible]
399.20[illegible]	100.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-[illegible]	[illegible]943	[illegible]	[illegible]
399.2[illegible]	200.[illegible]	.059[illegible]	[illegible]2355	.00[illegible]	[illegible]	[illegible]16	[illegible]	-.0[illegible]320	[illegible]	[illegible]
399.5[illegible]	398.9[illegible]	[illegible]	.02305	[illegible]	-.[illegible]	[illegible]	[illegible]	[illegible]2[illegible]	[illegible]	[illegible]

[illegible]/MS28(TA[illegible]-015[illegible]S SEPA[illegible] FROM O/ET (ATUDS[illegible] [illegible]3 J[illegible])

[illegible] DATA

[illegible] = [illegible].0000 SQ.[illegible] [illegible]RP = [illegible] IN. XS
LR[illegible] = 1290.3000 INCH[illegible] [illegible]RP = [illegible]0 IN. YS
BREF = [illegible]290.[illegible]00 INCHES [illegible]RP = [illegible] IN. ZS
SCAL[illegible] = .010[illegible]

[illegible]ARAMETRIC [illegible]

[illegible] = 4.520 [illegible] = [illegible].200
AL[illegible] = 10.300 [illegible] = [illegible]
DALPHA = [illegible] [illegible]ETA = [illegible]
X = [illegible]

[illegible] NO. 196/ 0 RN/L = 5.[illegible]

Y	Z	CN	CA	CLM	[illegible]	C[illegible]	[illegible]	DLTALF	DLTBTA	X
[illegible]	-9[illegible].43[illegible]	[illegible]790	[illegible]	.01433	-.01257	[illegible]	[illegible]	[illegible]	-.09751	299.77000
[illegible]	-.058	[illegible]	[illegible]	.01740	.01572	[illegible]	[illegible]	[illegible]	-.04793	299.80000
[illegible]	100.76[illegible]	.09641	[illegible]2442	.01365	.02405	[illegible]	[illegible]04	[illegible]4770	.01527	299.82000
9.[illegible]	199.[illegible]	[illegible]54	.03014	.01526	[illegible]	[illegible]	[illegible]0004	[illegible]30	.04723	300.09000
11.[illegible]	399.[illegible]	[illegible]769	.02728	.0[illegible]5	[illegible]	[illegible]	[illegible]005	[illegible]	-.02142	300.14000

RUN NO. [illegible] RN/L = 5.06

Y	Z	CN	CA	CLM	CY	[illegible]	[illegible]	[illegible]	DLTBTA	X
9[illegible]	-9[illegible]	.094[illegible]	.02[illegible]	.01620	-.006[illegible]4	[illegible]	[illegible]	[illegible]	[illegible]473	[illegible].76000
9[illegible]	[illegible]	.096[illegible]	.02[illegible]	.019[illegible]	.012[illegible]	[illegible]	[illegible]	[illegible]	[illegible]007	299.89000
100.[illegible]20	[illegible].65[illegible]	[illegible]	.03[illegible]	.01653	.02[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100.230	199.07[illegible]	[illegible]	.03[illegible]	.01724	[illegible]951	.011[illegible]	-.[illegible]	[illegible]470	[illegible]	[illegible]
100.670	401.340	[illegible]249	.025[illegible]	.012[illegible]	-.[illegible]2	[illegible]	-.[illegible]004	[illegible]10	-.000[illegible]	[illegible]

[illegible] 194/ [illegible] RN/L = [illegible]5

[illegible]	[illegible]	CN	CA	CLM	CY	CYN	CBL	[illegible]	[illegible]	X
200.100	-99.937	.10[illegible]	.03516	[illegible]	[illegible]	[illegible]	-.[illegible]	[illegible]70	[illegible]	299.91[illegible]
202.010	.150	.101[illegible]	.035[illegible]4	[illegible]	.03426	[illegible]	[illegible]0034	[illegible]	[illegible]	299.85[illegible]
200.720	102.370	.09[illegible]	.03196	[illegible]	.039[illegible]	[illegible]	-.00005	[illegible]	[illegible]	299.[illegible]
200.390	199.000	.0[illegible]	.028[illegible]	[illegible]	.02[illegible]	[illegible]	-.00004	[illegible]	[illegible]5	300.16[illegible]
201.[illegible]0	399.710	[illegible]	.025[illegible]	[illegible]	-.006[illegible]	[illegible]95	-.00004	[illegible].02600	-.[illegible]	299.97[illegible]

[illegible] NO. 193/ [illegible] RN/L = 5.06

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTAL	DLTB[illegible]	X
401.430	-101.1[illegible]	.11246	[illegible]	.01431	[illegible]	.00109	-.00[illegible]	5.0544[illegible]	-.033[illegible]	[illegible]
402.0[illegible]	-1.[illegible]	.10984	[illegible]610	.01254	[illegible]	-.00003	-.00004	5.05200	-.0[illegible]	30[illegible]0
401.010	9[illegible].[illegible]	.10513	[illegible]	.01108	[illegible]52	-.00163	-.00004	5.02170	-.022[illegible]	[illegible]
399.93[illegible]	200.000	.09917	[illegible]	.012[illegible]	[illegible]132	-.00134	-.[illegible]004	4.96870	[illegible]	[illegible]
400.[illegible]	399.6[illegible]	[illegible]	.025[illegible]	.01900	[illegible]0233	.00094	[illegible]	5.0226[illegible]	-.[illegible]	[illegible].97[illegible]

AEDC/VA980(IA87) [illegible] ET   ([illegible]) [illegible] OCT 74

REFERENCE DATA

SREF = [illegible] SQ.FT.   XMRP = 1290.5000 IN. [illegible]
LREF = 1290.3000 INCHES   YMRP = [illegible] IN. [illegible]
BREF = [illegible] INCHES   ZMRP = 400.0000 IN. [illegible]
SCALE = [illegible]

PARAMETRIC DATA

MACH = 4.380 [illegible]
ALPHA = 10.20[illegible] [illegible]
DALPHA = 5.[illegible] [illegible]
Y = .000

RUN NO. [illegible] RN/L = [illegible]

Y	Z	CN	CA	CLM	CY	CYN	[illegible]	[illegible]	[illegible]	X
[illegible].064	100.[illegible]	[illegible]	[illegible]2794	.02[illegible]	.003[illegible]	.00[illegible]	[illegible]	[illegible]	[illegible]5658	.442[illegible]
[illegible].740	[illegible]	[illegible]	[illegible]2727	[illegible]	.02[illegible]	.00[illegible]4	[illegible]	5.[illegible]	[illegible]	.33103
[illegible]0.5[illegible]	[illegible]	[illegible]	.03295	[illegible]	.04[illegible]	[illegible]1253	-.[illegible]	5.01[illegible]	.07[illegible]	.35786
9.5[illegible]	19[illegible].620	.0415[illegible]	.03565	[illegible]	.04[illegible]	.01530	-[illegible]	5.0[illegible]	[illegible]	[illegible]3777
8.[illegible]	[illegible]	.0[illegible]	.02[illegible]	[illegible]721	-.00[illegible]	[illegible]	[illegible]	5.06090	[illegible]	[illegible]

RUN NO. [illegible] RN/L = 5.95

Y	Z	CN	CA	CLM	CY	CYN	CBL	D[illegible]	[illegible]BTA	X
[illegible]0.330	-99.916	[illegible]	[illegible]	[illegible]	.02576	.01152	-.[illegible]	[illegible]	[illegible]8	[illegible]
100.610	-.432	.1[illegible]605	.03[illegible]	.02394	.04190	.01342	-[illegible]	[illegible]	[illegible]546	[illegible]
101.420	99.447	[illegible]	.03[illegible]	.01946	.04612	.01512	-.00[illegible]	[illegible]	[illegible]	[illegible]
100.530	199.3[illegible]	[illegible]	.02[illegible]	.01331	.02763	.00[illegible]	-.[illegible]4	[illegible]	[illegible]763	[illegible]
101.000	399.65[illegible]	[illegible]87	.02558	.01425	-.00[illegible]	[illegible]	-.00[illegible]	5.025[illegible]	[illegible]24	[illegible]

RUN NO. [illegible] RN/L = 5.[illegible]

Y	Z	CN	CA	CLM	CY	[illegible]	[illegible]	[illegible]	[illegible]	X
200.900	-101.990	.111[illegible]	[illegible]297	.02274	.0[illegible]30	[illegible]	[illegible]	[illegible]	-.01[illegible]	.4[illegible]284
2[illegible].200	-[illegible]	.10975	.0254[illegible]	[illegible]	.032[illegible]	[illegible]32	-.[illegible]05	5.[illegible]	-.02295	.2415[illegible]
[illegible]	[illegible]	.10539	[illegible]	[illegible]321	[illegible]	[illegible]	-[illegible]04	5.[illegible]	-[illegible]	.42053
[illegible]	20[illegible]	[illegible]	[illegible]	[illegible]119	[illegible]	[illegible]	-.[illegible]004	[illegible]	[illegible]	.4205[illegible]
2[illegible].590	[illegible]	[illegible]	[illegible]548	.01416	[illegible]	[illegible]	-.00005	5.04[illegible]	-.[illegible]33[illegible]	.456[illegible]

RUN NO. [illegible] RN/L = [illegible]

Y	Z	CN	CA	CLM	CY	CYN	CBL	D[illegible]ALF	[illegible]	X
401.180	[illegible]	[illegible]1201	[illegible]	[illegible]	.01[illegible]	[illegible]	-[illegible]5	[illegible]20	-[illegible]	[illegible]
300.87[illegible]	[illegible]466	.197[illegible]	[illegible]	[illegible]	.01[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
300.990	99.9[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-.[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]104	[illegible]	[illegible]004	5.0[illegible]	-[illegible]	[illegible]252
[illegible]	[illegible]	[illegible]	.025[illegible]	[illegible]	[illegible]	.00[illegible]	[illegible]14	5.[illegible]	.0013[illegible]	[illegible]

DATE 20 [illegible] 79

IA87 TABULATED SOURCE DATA

PAGE [illegible]12

[illegible]T/VAS20(IA87)-C1FT-8[illegible] [illegible] SEPAR FROM [illegible] ET

[illegible] [illegible] XT [illegible]

REFERENCE DATA

SREF = 2690.[illegible] SQ.FT. [illegible] = [illegible] IN. XS
LREF = 1[illegible]0.[illegible] INCHES YMRP = [illegible].0[illegible] IN. YS
BREF = 1290.3000 INCHES ZMRP = [illegible] IN. Z[illegible]
SCALE = .0100

PARAMETRIC DATA

MACH = 4.[illegible] [illegible] = [illegible]
ALPHA = [illegible] [illegible] = [illegible]
GAMMA = [illegible] [illegible]TA = .000
[illegible] = [illegible]

RUN [illegible] 20[illegible]/ 0 RN/L = 5.6[illegible]

Y	Z	CN	CA	CLM	CY	CYN	CBL	DELTAF	DLTBTA	[illegible]
10.[illegible]6	[illegible]	.0106[illegible]	.[illegible]2[illegible]3	.[illegible]10[illegible]	.[illegible]7	.[illegible]260	-.[illegible]01	4.[illegible]	[illegible]	.0393
10.[illegible]90	[illegible]	.01548	.0[illegible]173	.001[illegible]	.0[illegible]	.0[illegible]6	.00[illegible]	-4.[illegible]	-.007[illegible]	-.3[illegible]20
1[illegible]4	[illegible]	[illegible]	.02416	.00[illegible]39	.0[illegible]9	[illegible]	-.0[illegible]01	-4.[illegible]	-.0235[illegible]	-.01949

RUN [illegible] 20[illegible] RN/L [illegible] 5.[illegible]

Y	Z	CN	CA	CLM	CY	CYN	CBL	[illegible]	DLTBTA	[illegible]
100.[illegible]90	3[illegible].[illegible]	.0139[illegible]	.03227	.[illegible]77	.[illegible]2	.01635	-.[illegible]	[illegible]	-.01[illegible]	-.[illegible]
100.610	[illegible].9[illegible]	.023[illegible]	.02[illegible]	[illegible]	.02167	.01[illegible]44	-.[illegible]	-6.[illegible]	-.02772	[illegible].16[illegible]
[illegible].510	[illegible]	.0[illegible]	.0[illegible]397	[illegible]	.01[illegible]43	.0[illegible]64	[illegible]	-5.[illegible]	[illegible].3[illegible]45	[illegible]

RUN NO. [illegible] 0 RN/L [illegible] 5.[illegible]5

Y	Z	CN	CA	CLM	CY	CYN	CBL	DELTAF	DLTBTA	[illegible]
[illegible]00.920	[illegible].190	[illegible]1313	.02491	.[illegible]	.02402	[illegible]	-.[illegible]	-4.[illegible]	-.01789	-.0[illegible]
[illegible]0.270	[illegible]9.[illegible]0	[illegible]	.02149	[illegible]	.02[illegible]	.0[illegible]45	[illegible]	-4.[illegible]	-.0[illegible]6	[illegible]
200.[illegible]	[illegible]	[illegible]15[illegible]4	.02306	[illegible]	.0[illegible]30[illegible]	[illegible]	-.00[illegible]	[illegible]	-.0[illegible]	.08[illegible]

RUN [illegible] 20[illegible]/ 0 RN/L [illegible] 5.06

Y	Z	CN	CA	CLM	CY	CYN	CBL	DELTAF	DLTBTA	[illegible]
401.190	99.596	[illegible]8	.02223	[illegible]	.[illegible]	.[illegible]6	-.0[illegible]001	-4.[illegible]990	-.[illegible]	[illegible]
402.000	200.340	.02611	.02206	[illegible]	.011[illegible]7	-.0[illegible]	-.0[illegible]	-[illegible]070	[illegible]	0.[illegible]
401.070	300.[illegible]9	[illegible]16	.02206	.01[illegible]	.006[illegible]	[illegible]	-.000[illegible]	-4.99010	[illegible]	13[illegible]

DATE 30 MAY 75 [illegible] PAGE 317

[illegible] (OTV[illegible]) [illegible]

REFERENCE DATA

SREF = 2000.0000 SQ.FT. XMRP = [illegible]
LREF = 1290.3000 INCHES YMRP = [illegible]
BREF = 1290.3000 INCHES ZMRP = [illegible]
SCALE = .0100

PARAMETRIC DATA

MACH = [illegible] [illegible] = 50.000
ALPHA = [illegible] [illegible] = [illegible]
[illegible] = [illegible] [illegible] = .000
[illegible] = 300.000

RUN NO. [illegible] [illegible] = 5.35

Y	Z	C[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11.845	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10.903	200.030	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12.446	401.249	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-.000[illegible]	[illegible]	[illegible]	[illegible]

RUN NO. [illegible] = 5.[illegible]

Y	Z	[illegible]	CA	CLM	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
99.792	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100.240	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	299.[illegible]
100.760	300.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

RUN NO. [illegible] = 5.[illegible]

Y	Z	[illegible]	CA	CLM	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
201.300	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
200.600	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
199.570	300.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

RUN NO. [illegible] = 5.[illegible]

Y	[illegible]	CN	CA	CLM	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
400.330	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	200.810	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
400.690	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

```
                                AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET          (ATU071)    ( 03 OCT 74  )

               REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                           MACH   =     4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                           ALPHA  =    10.300   BETA   =       .000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                           DALPHA =      .000   DBETA  =     -4.000
SCALE =       .0100                                                             X      =      .000

                            RUN NO.  211/ 0    RN/L =   5.85

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
    100.410   -100.160     .04967     .02996     .02383     .04107     .01751    -.00002     .01479   -4.05040   -.06888
     99.947      -.025     .05639     .03139     .02220     .04257     .02366    -.00003     .00930   -4.04000   -.17197
     99.256     99.997     .05427     .03117     .01508     .06376     .02335    -.00003     .01015   -4.01010   -.28381
    100.080    200.090     .04971     .02799     .00851     .06407     .01608    -.00002    -.00479   -4.04050   -.10850
    101.300    400.590     .05301     .02416     .00692     .03425     .00497    -.00002    -.01375   -4.06230   -.02228

                            RUN NO.  210/ 0    RN/L =   5.85

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
    199.500   -100.090     .05768     .02437     .01925     .06080     .00834    -.00002     .01091   -4.02530   -.26807
    199.700      -.172     .05602     .02564     .01941     .05559     .01368    -.00002     .01158   -4.01700   -.14042
    200.090     99.773     .06181     .02356     .01158     .05875     .01014    -.00002     .01151   -4.01770   -.03946
    197.170    200.690     .05756     .02472     .01062     .04931     .00835    -.00002    -.00840   -3.92250   -.20457
    199.880    399.610     .05563     .02399     .00745     .03186     .00263    -.00002     .01599   -3.99320   -.02201

                            RUN NO.  209/ 0    RN/L =   5.86

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
    399.480   -101.300     .06294     .02458     .01377     .04145     .00364    -.00002     .08054   -3.94810   -.21608
    401.000      -.901     .06796     .02310     .00957     .03799     .00583    -.00003     .05692   -4.03290   -.08175
    401.860     99.192     .06703     .02356     .00784     .03848     .00411    -.00003     .03023   -4.05880   -.05617
    402.220    200.440     .06369     .02395     .00712     .03725     .00198    -.00003    -.02895   -4.03760     .02223
    400.650    399.940     .05283     .02374     .01099     .02686     .00166    -.00001     .01098   -3.99930     .04689
```

AEDC/VA528(IA87)-O1ET151-R/M SRB SEPAR.FROM O/ET (ATU072) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 FTOTL = 90.200
ALPHA = 10.300 BETA = .000
DALPHA = .000 DBETA = -4.000
X = 300.000

RUN NO. 212/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.240	-100.540	.04314	.02103	.01087	.02264	.00777	-.00002	.02999	-4.03340	300.06000
101.810	-2.370	.05218	.02293	.01473	.01836	.01193	-.00003	.09008	-4.11970	300.03000
103.240	99.443	.05246	.02751	.01675	.04317	.01343	-.00002	.04194	-4.11100	300.17000
99.215	199.730	.04659	.03234	.00987	.05769	.01663	-.00002	.01238	-3.99940	299.84000
99.922	399.600	.05178	.02417	.00703	.03490	.00840	-.00002	.01956	-4.00210	299.93000

RUN NO. 213/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
199.940	-100.080	.05115	.02985	.01769	.05578	.01248	-.00002	.01604	-4.01150	299.99000
198.350	-1.003	.05666	.03173	.01672	.04096	.01835	-.00003	.04378	-3.97050	299.86000
199.590	99.963	.05454	.03271	.01533	.05281	.01953	-.00003	.01686	-4.00860	299.80000
199.710	200.160	.05418	.02861	.00979	.05643	.01404	-.00002	.00484	-4.00360	299.82000
199.980	399.580	.05660	.02413	.00707	.03349	.00513	-.00002	.01536	-4.00310	299.94000

RUN NO. 214/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.470	-100.030	.06323	.02591	.01303	.05643	.00161	-.00002	.01094	-3.99120	299.89000
400.170	-.164	.05894	.02450	.01486	.04377	.00660	-.00002	.01882	-3.99150	299.92000
400.280	101.240	.06546	.02354	.00972	.03903	.00700	-.00003	-.06360	-4.00150	299.94000
398.730	200.490	.06442	.02381	.00806	.03597	.00499	-.00003	-.01690	-3.94090	299.99000
398.020	400.260	.05630	.02398	.00866	.02756	.00164	-.00002	.00299	-3.91120	299.77000

ORIGINAL PAGE IS
OF POOR QUALITY

```
                                 AEDC/VA528(IA87)-O1ET1S1-R/M SRB SEPAR.FROM O/ET              (ATU073)    ( 03 OCT 74  )

              REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                                   MACH   =     4.520   FTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                                  ALPHA  =    10.300   BETA   =       .000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                                   DALPHA =     5.000   DBETA  =     -4.000
SCALE =       .0100                                                                     X      =   300.000

                         RUN NO.  217/ 0    RN/L =   5.85

      Y         Z         CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA     X
    97.937   -99.382    .09284    .02350    .01696    .00793    .01013   -.00005   4.97170  -3.95900  299.57000
    98.155     -.465    .09546    .02672    .01973    .03258    .01139   -.00005   5.05260  -4.00160  299.76000
   100.910    99.651    .10454    .03081    .01771    .05565    .01039   -.00004   5.02540  -4.04780  300.06000
    99.361   200.010    .08733    .03569    .01590    .06843    .01677   -.00003   4.99270  -3.98670  299.81000
   101.710   400.940    .09290    .02641    .01040    .03212    .00395   -.00004   4.98120  -4.06880  300.02000

                         RUN NO.  218/ 0    RN/L =   5.86

      Y         Z         CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA     X
   199.330   -99.991    .10437    .03381    .02429    .04133    .01662   -.00005   5.01450  -3.99900  299.79000
   202.590      .524    .10400    .03575    .02299    .05637    .01836   -.00005   4.99260  -4.09810  300.12000
   200.580   102.140    .10158    .03413    .01769    .07268    .01676   -.00004   4.91780  -4.01030  299.86000
   196.860   201.560    .09307    .02931    .01527    .05952    .01444   -.00004   4.96360  -3.90830  299.70000
   200.370   399.650    .09433    .02607    .01275    .02873    .00142   -.00003   5.01770  -4.01180  300.07000

                         RUN NO.  215/ 0    RN/L =   5.86

      Y         Z         CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA     X
   400.770  -101.400    .11025    .02684    .01766    .05099    .00662   -.00004   5.08320  -4.02780  300.00000
   401.750    -1.160    .11047    .02643    .01450    .05215    .00496   -.00004   5.05640  -4.05850  300.10000
   402.680    98.986    .10673    .02637    .01270    .04976    .00269   -.00004   5.05110  -4.07110  300.13000
   400.910   200.320    .10382    .02665    .01132    .04107    .00061   -.00004   4.99880  -3.95040  299.93000
   399.820   400.040    .09628    .02571    .01432    .02244    .00476   -.00004   5.00690  -3.99540  299.93000
```

```
                              AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET          (ATU074)   ( 03 OCT 74  )

          REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                        MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                        ALPHA  =    10.300   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                        CALFHA =     5.000   DBETA  =    -4.000
SCALE =       .0100                                                          X      =      .000

                     RUN NO.  218/ 0    RN/L =   5.85

     Y          Z         CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA     X
   99.161    -99.721    .10206    .03298    .02929    .04096    .02157   -.00005   5.00190  -4.01410   -.47753
  100.160      -.461    .10557    .03442    .02380    .06711    .02114   -.00005   5.01650  -4.03620    .31028
   99.929     99.475    .09533    .03520    .01833    .08020    .02066   -.00004   5.02090  -4.02070    .32889
   99.821    199.100    .08856    .02933    .01509    .06318    .01543   -.00003   5.04070  -4.00160    .50543
  100.860    399.680    .09084    .02595    .01331    .02506    .00207   -.00003   5.02290  -4.00970    .50342

                     RUN NO.  219/ 0    RN/L =   5.86

     Y          Z         CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA     X
  199.150   -100.150    .10965    .02736    .02381    .05215    .01574   -.00005   5.02160  -4.00780    .35818
  201.410     -2.053    .11388    .02663    .01812    .06867    .01256   -.00005   5.08010  -4.09910    .64638
  199.860     99.705    .10221    .02651    .01667    .06673    .01002   -.00004   5.02220  -4.01880    .31147
  199.940    199.680    .09952    .02621    .01329    .05274    .00661   -.00004   5.02350  -4.01240    .35118
  201.190    398.760    .09785    .02602    .01313    .01884    .00554   -.00004   5.04520  -4.05420    .57495

                     RUN NO.  220/ 0    RN/L =   5.86

     Y          Z         CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA     X
  400.660   -100.370    .11355    .02615    .01315    .04867    .00310   -.00004   5.02450  -4.00950    .43757
  400.050       .458    .11035    .02639    .01186    .04891    .00142   -.00004   4.98050  -3.97670    .24192
  399.280    100.460    .10620    .02680    .01098    .04466    .00004   -.00004   4.99150  -3.96610    .29223
  399.750    199.920    .10103    .02697    .01157    .03637    .00015   -.00004   5.02280  -3.99100    .30700
  400.750    398.960    .09768    .02549    .01401    .02526    .00392   -.00004   5.04900  -4.06680    .43898
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                              AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET              (ATU075)   ( 03 OCT 74  )

              REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                               MACH    =      4.520   PTOTL   =     90.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                              ALPHA   =     10.300   BETA    =       .000
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                               CALPHA  =     -5.000   CBETA   =     -4.000
SCALE =       .0100                                                                  X       =       .000

                         RUN NO.  223/ 0    RN/L =   5.85

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
    99.600    100.110     .01962      .03023      .01081      .03762      .02710     -.00002    -4.99340    -4.01710    -.13392
   100.570    199.940     .01496      .02597      .00467      .04894      .02293     -.00002    -5.00210    -4.05120    -.23953
   101.010    400.990     .01322      .02396      .00330      .04290      .00572     -.00001    -5.00890    -4.04180     .01012

                         RUN NO.  222/ 0    RN/L =   5.85

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
   199.110    100.040     .01358      .02403      .01265      .04733      .01346     -.00000    -4.99430    -4.01040    -.17964
   198.100    201.960     .02013      .02224      .00593      .04619      .01098     -.00001    -5.09280    -3.93550     .00589
   200.180    399.800     .02401      .02311      .00245      .03775      .00466     -.00001    -4.98290    -4.00390    -.11003

                         RUN NO.  221/ 0    RN/L =   5.85

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
   401.470     98.940     .02827      .02213      .00662      .03309      .00631     -.00001    -4.93570    -4.02980    -.12423
   400.190    199.060     .03087      .02205      .00354      .03213      .00532     -.00001    -4.98540    -3.99800    -.12905
   401.170    399.750     .02160      .02315      .00487      .03170      .00083     -.00000    -4.98470    -4.01210     .09249

                              AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET              (ATU076)   ( 03 OCT 74  )

              REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                               MACH    =      4.520   PTOTL   =     90.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                              ALPHA   =     10.300   BETA    =       .000
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                               CALPHA  =     -5.000   CBETA   =     -4.000
SCALE =       .0100                                                                  X       =    300.000

                         RUN NO.  224/ 0    RN/L =   5.85

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
   101.220     99.794     .01869      .02530      .00857      .02410      .01352     -.00001    -4.98520    -4.05680  300.19000
    99.561    200.090     .01044      .03047      .00632      .04156      .01776     -.00001    -5.00070    -3.99160  299.87000
   100.590    399.770     .01717      .02319      .00116      .03958      .00948     -.00002    -4.98900    -4.01450  299.95000

                         RUN NO.  225/ 0    RN/L =   5.86

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
   200.290     98.721     .02048      .03083      .00757      .03863      .02006     -.00001    -4.95700    -4.00820  299.82000
   199.410    200.120     .01812      .02840      .00549      .03756      .02125     -.00002    -4.99410    -3.99775  299.83000
   198.690    398.650     .02357      .02330      .00228      .03621      .00716     -.00002    -4.95410    -3.94230  299.73000
```

```
                                     AEDC/V   9(IA87)-O1ET1S1-R/M SRB SEPAR.FROM O/ET          (ATU076)   ( 03 OCT 74  )

            REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                           MACH    =      4.520  PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                          ALPHA   =     10.300  BETA   =       .000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                           DALPHA  =     -5.000  DBETA  =     -4.000
SCALE =       .0100                                                             X       =    300.000

                          RUN NO.  226/ 0    RN/L =   5.85

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA    X
  400.740     99.930     .01895     .02487     .01037     .04475     .00363    -.00000    -4.98840   -4.00610  300.02000
  400.690    201.160     .02710     .02209     .00500     .03332     .00746    -.00001    -5.06560   -4.05670  300.06000
  398.520    400.600     .02379     .02313     .00397     .03028     .00278    -.00001    -5.02380   -3.89970  299.88000

                                     AEDC/VA528(IA87)-O1ET1S1-R/M SRB SEPAR.FROM O/ET          (ATU077)   ( 03 OCT 74  )

            REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                           MACH    =      4.520  PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                          ALPHA   =     10.300  BETA   =       .000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                           DALPHA  =       .000  DBETA  =     -8.000
SCALE =       .0100                                                             X       =       .000

                          RUN NO.  228/ 0    RN/L =   5.86

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA    X
  200.610   -100.200     .04503     .02255     .02423     .08135     .01870    -.00001     .03036   -8.03900    -.28511
  200.960      -.133     .05912     .02307     .01913     .07116     .02733    -.00004     .01188   -8.04190    -.20537
  201.130     99.663     .06393     .02205     .01076     .08994     .02066    -.00004     .01956   -8.03820    -.02013
  201.000    199.860     .05378     .02520     .00928     .09469     .01240    -.00002     .01313   -8.03790     .05383
  200.150    399.670     .05798     .02506     .00798     .06614     .00571    -.00002     .01938   -7.99280     .04817

                          RUN NO.  227/ 0    RN/L =   5.85

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA    X
  399.670   -100.140     .06185     .02796     .01484     .08552     .00211    -.00001     .01547   -7.99020    -.09579
  400.670     -1.294     .06520     .02466     .01289     .06971     .01046    -.00002     .08561   -8.03210    -.03945
  401.310     99.307     .06855     .02468     .00877     .07255     .00823    -.00003     .03837   -8.04850     .01632
  403.130    199.410     .06605     .02515     .00812     .07242     .00583    -.00002     .02589   -8.09640     .27379
  400.020    399.770     .05985     .02570     .00838     .05983     .00277    -.00002     .01275   -7.99110    -.14365
```

```
                              AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET            (ATU078)   ( 03 OCT 74  )

          REFERENCE DATA                                                              PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                     MACH   =     4.520   PTOTL  =     90.200
 LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YS                     ALPHA  =    10.300   BETA   =       .000
 BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                     DALPHA =      .000   DBETA  =     -8.000
 SCALE =       .0100                                                        X      =   300.000

                       RUN NO.  229/ 0    RN/L =   5.85

    Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
  201.570   -100.180    .04793     .02902     .01781     .06834     .02142    -.00002     .01672   -8.04210  300.04000
  197.490     -1.280    .06110     .03086     .01661     .05583     .02640    -.00004     .05490   -7.92660  299.44000
  201.320     99.981    .05647     .03208     .01519     .07556     .02924    -.00004     .01380   -8.03420  299.76000
  199.930    199.940    .05472     .02932     .00890     .08859     .02182    -.00003     .01029   -8.01260  299.77000
  202.030    399.250    .05699     .02529     .00813     .06826     .00885    -.00002     .00896   -8.07660  300.18000

                       RUN NO.  230/ 0    RN/L =   5.86

    Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
  399.750   -100.160    .06380     .02539     .01260     .09133     .00771    -.00002     .01743   -7.99050  300.00000
  399.850      -.808    .05738     .02619     .01582     .07944     .01084    -.00001     .05609   -8.03050  299.95000
  399.420    101.010    .06563     .02457     .01072     .07360     .01127    -.00003    -.05766   -7.98480  299.91000
  398.410    200.490    .06401     .02507     .00918     .07209     .00820    -.00002    -.02161   -7.91780  299.73000
  399.970    399.730    .06224     .02547     .00765     .06225     .00353    -.00002     .01735   -7.99920  299.78000

                              AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET            (ATU079)   ( 03 OCT 74  )

          REFERENCE DATA                                                              PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                     MACH   =     4.520   PTOTL  =     90.200
 LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YS                     ALPHA  =    10.300   BETA   =       .000
 BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                     DALPHA =     5.000   DBETA  =     -8.000
 SCALE =       .0100                                                        X      =   300.000

                       RUN NO.  232/ 0    RN/L =   5.85

    Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
  200.680   -100.080    .10160     .03290     .02530     .05661     .02355    -.00006    5.01540   -8.02100  299.71000
  201.010      -.165    .10798     .03475     .02220     .07520     .02743    -.00006    5.01490   -8.03250  300.00000
  200.600     99.467    .10687     .03554     .01644     .10322     .02317    -.00005    5.02340   -8.03170  300.06000
  200.980    199.590    .09363     .03255     .01538     .10174     .01848    -.00003    5.02330   -8.01460  300.01000
  201.890    399.440    .09889     .02773     .01190     .06893     .00370    -.00003    5.02220   -8.02990  300.19000
```

```
                    AEDC/VA528(IA87)-O1ET131-R/H SRB SEPAR.FROM O/ET          (ATU079)   ( 03 OCT 74  )

          REFERENCE DATA                                                     PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS              MACH   =    4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS              ALPHA  =   10.300   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS              DALPHA =    5.000   DBETA  =    -8.000
SCALE =      .0100                                                 X      =  300.000

                        RUN NO.  231/ 0    RN/L =   5.86

     Y         Z         CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA    X
  400.540  -101.290    .11173    .02851    .01830    .08293    .01277   -.00004   5.07580  -8.02280  299.99000
  401.780    -1.165    .11317    .02743    .01901    .08773    .01086   -.00004   5.06300  -8.07120  300.29000
  402.580    99.028    .10912    .02774    .01353    .08862    .00741   -.00004   5.04470  -8.08450  300.22000
  402.720   199.920    .10548    .02760    .01246    .08194    .00427   -.00004   5.01250  -8.03070  300.27000
  400.070   399.990    .09960    .02796    .01416    .05574    .00537   -.00004   5.01600  -7.99970  299.82000

                    AEDC/VA528(IA87)-O1ET131-R/H SRB SEPAR.FROM O/ET          (ATU080)   ( 03 OCT 74  )

          REFERENCE DATA                                                     PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS              MACH   =    4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS              ALPHA  =   10.300   BETA   =      .000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS              DALPHA =    5.000   DBETA  =    -8.000
SCALE =      .0100                                                 X      =     .000

                        RUN NO.  233/ 0    RN/L =   5.85

     Y         Z         CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA    X
  201.120  -100.130    .11219    .02510    .02410    .08956    .02659   -.00007   5.01710  -8.05120    .38705
  200.880     -.183    .11421    .02648    .01895    .10017    .02052   -.00005   5.02010  -8.04590    .23080
  199.900    99.635    .10497    .02833    .01574    .10635    .01521   -.00004   5.02420  -8.02580    .33793
  201.170   199.740    .09548    .02750    .01475    .09319    .01190   -.00003   5.01850  -8.03670    .36625
  199.520   399.550    .10026    .02817    .01317    .05989    .00381   -.00003   5.05930  -7.97980    .33125

                        RUN NO.  234/ 0    RN/L =   5.85

     Y         Z         CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA    X
  400.180  -100.360    .11466    .02677    .01557    .08068    .00941   -.00004   5.02090  -8.01070    .62745
  399.140      .778    .11302    .02744    .01304    .08570    .00644   -.00004   4.96880  -7.94510    .19492
  398.560   100.310    .10869    .02761    .01234    .08425    .00369   -.00004   4.99040  -7.93830    .25933
  397.940   200.280    .10503    .02812    .01169    .07661    .00182   -.00004   4.99080  -7.93430    .19026
  399.730   399.120    .10010    .02720    .01398    .05376    .00715   -.00004   5.04650  -8.06800    .41668
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                                          AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET            (ATU081)    ( 03 OCT 74  )

            REFERENCE DATA                                                                        PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                               MACH    =     4.520   PTOTL  =     90.200
 LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                               ALPHA   =    10.300   BETA   =       .000
 BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                               DALPHA  =    -5.000   DBETA  =     -8.000
 SCALE =       .0100                                                                 X       =      .000

                            RUN NO.  236/ 0    RN/L =   5.85

       Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
    200.770     99.888     .01683     .02101     .01136     .06632     .02553    -.00001   -4.98810   -8.03530   -.31526
    200.900    199.690     .01833     .02060     .00598     .07737     .02015    -.00001   -4.98640   -8.03890   -.04082
    201.640    399.680     .01946     .02536     .00460     .07243     .00702    -.00001   -4.98030   -8.02300    .06628

                            RUN NO.  235/ 0    RN/L =   5.86

       Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
    399.810    100.080     .01581     .02588     .01289     .07187     .00649     .00001   -4.99030   -7.98650   -.02130
    399.880    199.830     .03111     .02258     .00404     .06381     .00948    -.00001   -4.98260   -7.99010   -.09857
    399.670    399.850     .02538     .02391     .00422     .06234     .00398    -.00000   -4.98580   -7.98930   -.12946

                                          AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET            (ATU082)    ( 03 OCT 74  )

            REFERENCE DATA                                                                        PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                               MACH    =     4.520   PTOTL  =     90.200
 LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                               ALPHA   =    10.300   BETA   =       .000
 BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                               CALPHA  =    -5.000   DBETA  =     -8.000
 SCALE =       .0100                                                                 X       =   300.000

                            RUN NO.  237/ 0    RN/L =   5.86

       Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
    201.000     98.134     .02473     .02958     .00736     .05641     .02953    -.00002   -4.94590   -8.04230  299.67000
    200.580    199.880     .01646     .02798     .00519     .06754     .02919    -.00003   -4.98680   -8.01000  299.70000
    200.110    399.850     .01653     .02422     .00373     .06976     .01102    -.00001   -4.98560   -7.99480  299.94000

                            RUN NO.  238/ 0    RN/L =   5.86

       Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
    400.230     99.878     .01695     .02469     .01042     .07699     .00850     .00000   -4.98660   -7.99750  300.17000
    400.170    200.360     .02327     .02355     .00734     .06575     .01169    -.00001   -5.03420   -8.04050  300.09000
    399.970    399.810     .02649     .02372     .00392     .06231     .00588    -.00001   -4.99115   -7.99710  300.00000
```

AEDC/VA528(IA87)-O1ET151-R/H SRB SEPAR.FROM O/ET (ATO083) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 1290.3000 INCHES
BREF = 1290.3000 INCHES
SCALE = .0100
XMRP = 1258.5000 IN. XS
YMRP = .0000 IN. YS
ZMRP = 400.0000 IN. ZS

PARAMETRIC DATA

MACH = 4.520
ALPHA = -.400
DALPHA = .000
X = .000
PTOTL = 90.200
BETA = 5.400
DBETA = .000

RUN NO. 243/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
10.149	-99.945	-.00585	.03292	.00580	.00125	.00784	.00000	.04536	.01764	.01927
7.601	1.963	-.01887	.03242	.00433	-.01321	.00690	.00001	-.03516	.08529	-.08030
9.927	102.010	-.02142	.03301	.00006	-.01587	.00695	.00001	-.04221	.01411	-.01345
10.528	199.610	-.02020	.03246	-.00730	-.01253	.00647	.00001	.05870	-.01094	.02643
10.843	399.860	-.01195	.02261	-.00546	-.02090	-.00298	-.00000	.05360	-.01536	-.02564

RUN NO. 242/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
99.209	-100.720	.00115	.02753	.00261	.00907	.00218	-.00000	.05632	.06432	.01236
102.110	-1.889	-.01305	.03092	.00481	.00430	.00587	.00001	.11303	-.07596	-.03489
100.490	100.150	-.01954	.03069	.00239	.00090	.00386	.00001	.04102	-.00997	-.00122
103.650	200.180	-.01420	.02461	-.00261	-.00844	-.00059	.00000	.05773	-.09555	.01415
101.020	401.320	-.00964	.02253	-.00342	-.01812	-.00222	-.00001	-.01969	-.06476	.02147

RUN NO. 241/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.610	-100.090	-.00044	.02444	.00113	.00480	-.00540	-.00000	.05465	-.00555	.04429
199.810	-.297	-.01143	.02577	.00469	.00403	-.00581	.00001	.08797	.01083	-.07558
200.720	100.910	-.01047	.02439	.00195	-.00097	-.00451	.00000	.00578	-.02452	-.03229
200.350	200.910	-.00892	.02348	-.00092	-.00794	-.00359	-.00001	-.00591	-.01288	.06992
198.770	399.490	-.01038	.02280	.00024	-.01615	-.00471	-.00001	.05803	.04701	.02222

RUN NO. 240/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.910	-100.260	-.00053	.02303	-.00035	-.00617	-.01138	-.00001	.04781	.03364	-.05818
400.310	.021	-.00055	.02276	-.00060	-.00889	-.00956	-.00001	.04065	-.00382	-.06671
400.350	99.951	-.00212	.02289	-.00008	-.00928	-.00941	-.00001	.04145	-.00760	-.10993
400.960	200.090	-.00382	.02277	.00051	-.01040	-.00961	-.00001	.04337	-.01507	.03015
400.430	400.340	-.00430	.02202	.00085	-.01388	-.00980	-.00000	.03276	-.00107	-.00588

AEDC/VA528(IA87)-O1ET151-R/H SRB SEPAR.FROM O/ET (ATU084) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.400 BETA = 5.400
CALPHA = .000 CBETA = .000
X = 300.000

RUN NO. 244/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
12.879	-101.270	-.01247	.02325	.00034	-.00797	.00620	.00001	.09548	-.06781	299.93000
12.795	-.164	-.01793	.02161	-.00111	-.02080	.00507	.00001	.04055	-.08844	300.02000
12.359	99.553	-.01983	.02331	-.00022	-.02629	.00290	.00001	.06211	-.08677	300.02000
10.515	200.020	-.01256	.02541	-.00208	-.02603	-.00028	.00000	.04366	-.00471	300.11000
12.340	401.580	-.01768	.02781	-.00849	-.01580	-.00130	.00000	-.01057	-.05699	300.15000

RUN NO. 245/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.750	-100.970	-.00626	.03148	.00140	-.00033	.00512	-.00000	.08372	.01790	299.97000
98.243	1.105	-.01172	.02980	-.00009	-.00948	.00242	.00000	-.00027	.07681	300.07000
99.291	100.180	-.01902	.03126	.00182	-.01360	.00209	.00001	.07245	.02531	299.97000
101.020	201.670	-.01710	.03185	-.00284	-.01017	.00257	.00000	-.01931	-.01929	300.03000
100.740	399.930	-.00963	.02261	-.00525	-.01911	-.00245	-.00000	.04742	-.01439	299.91000

RUN NO. 246/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
199.980	-100.930	-.00095	.02660	.00160	.00539	-.00053	-.00000	.06591	.01894	299.96000
201.830	-.339	-.00926	.02835	.00184	.00607	.00018	-.00000	.03824	-.04010	299.95000
203.010	98.818	-.01705	.02812	.00328	.00187	-.00084	.00001	.12049	-.06795	300.08000
202.010	199.930	-.01027	.02403	-.00125	-.00754	-.00235	-.00000	.06034	-.03527	300.03000
200.870	398.420	-.00798	.02248	-.00208	-.01640	-.00278	-.00001	.10514	-.[illegible]972	300.01000

RUN NO. 247/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
401.000	-100.230	-.00133	.02441	.00058	.00075	-.01143	-.00001	.04579	-.01625	299.94000
400.680	-.052	-.00416	.02471	.00139	-.00031	-.01083	-.00001	.05215	-.01481	299.96000
401.220	100.330	-.00246	.02251	-.00009	-.00731	-.00739	-.00001	.02382	-.06855	300.02000
400.750	199.970	-.00374	.02293	.00003	-.00936	-.00759	-.00001	.04066	-.00484	299.99000
399.280	399.670	-.00595	.02261	.00130	-.01275	-.00898	-.00001	.06085	.03597	299.94000

```
                             AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET             (ATU085)    ( 03 OCT 74  )

          REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.000  .Q.FT.    XMRP  =  1258.5000 IN. XS                            MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YS                            ALPHA  =     -.400   BETA   =     5.400
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                            DALFHA =     5.000   DBETA  =      .000
SCALE =       .0100                                                               X      =   300.000

                          RUN NO.  251/ 0    RN/L =   5.16

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
    9.057     -98.626     .01294     .02325     .00714    -.02187     .00628     .00000    4.97520    -.00238  299.99000
    8.654       1.324     .00685     .02301     .00539    -.02425     .00365    -.00000    4.99140     .07261  299.84000
    8.311     100.640     .00970     .02326     .00343    -.02341     .00039    -.00001    5.01560     .09480  299.95000
    8.546     199.030     .01406     .02581     .00438    -.02248    -.00306    -.00001    5.06810     .07867  300.05000
   10.873     399.700     .00876     .02595    -.00275    -.01639     .00005    -.00001    5.04790    -.01134  300.11000

                          RUN NO.  250/ 0    RN/L =   5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
  100.710    -100.060     .01515     .03185     .01117    -.00550     .00567    -.00001    5.04260    -.00397  300.07000
  102.220      -1.149     .01004     .03157     .00937    -.01065     .00286    -.00001    5.07460    -.08076  300.07000
   99.747      98.675     .01056     .03127     .00743    -.01223     .00023    -.00001    5.10410     .03158  300.26000
  100.610     199.740     .01585     .03080     .00413    -.01080     .00204    -.00001    5.04760     .00633  300.04000
  101.790     400.960     .01075     .02285     .00152    -.01435    -.00196    -.00001    4.99080     .06533  299.95000

                          RUN NO.  249/ 0    RN/L =   5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
  200.780    -100.050     .01697     .02543     .01204    -.00382    -.00013    -.00001    5.04940    -.00900  300.05000
  201.880        .313     .01148     .02839     .01250    -.00446     .00192    -.00000    5.04630    -.06228  299.95000
  200.170     101.800     .01341     .02608     .00716    -.00676     .00185    -.00001    4.95690     .00049  299.90000
  198.910     200.630     .01360     .02359     .00459    -.01227     .00017    -.00001    4.98540     .04381  300.02000
  200.760     399.680     .01016     .02316     .00450    -.01201    -.00454    -.00001    5.04960    -.01420  300.03000

                          RUN NO.  248/ 0    RN/L =   5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
  399.910    -100.740     .01930     .02389     .00647    -.01398    -.00724    -.00001    5.07180     .02392  300.02000
  400.700       -.224     .02040     .02282     .00470    -.01389    -.00573    -.00001    5.03810    -.01820  300.04000
  401.300     100.140     .01683     .02303     .00535    -.01392    -.00642    -.00001    5.02940    -.03291  300.02000
  401.840     200.260     .01472     .02307     .00657    -.01454    -.00747    -.00001    5.02900    -.03850  300.18000
  400.590     399.850     .01586     .02271     .00729    -.01062    -.00815    -.00001    5.04900    -.00514  300.14000
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                                  AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET            (ATU086)    ( 03 OCT 74  )

                 REFERENCE DATA                                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                                  MACH   =     4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                                  ALPHA  =     -.400   BETA   =      5.400
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                                  DALPHA =     5.000   DBETA  =       .000
SCALE =       .0100                                                                     X      =      .000

                          RUN NO.  252/ 0    RN/L =   5.86

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA        X
   10.416     -99.749     .01773      .03367      .01685     -.01014      .01062     -.00001     5.03400      .01104     -.07025
   10.208       -.015     .01251      .03304      .01021     -.01079      .00747     -.00002     5.04090      .00632     -.13208
   10.451     100.060     .01225      .03252      .00489     -.01383      .00448     -.00002     5.04140     -.00856     -.12547
    9.374     199.730     .00846      .03124     -.00156     -.01151      .00593     -.00001     5.04180      .02189     -.09740
    9.488     398.120     .01071      .02300      .00114     -.01645     -.00305     -.00001     5.11210      .05675      .21618

                          RUN NO.  253/ 0    RN/L =   5.86

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA        X
  100.790    -100.100     .01846      .02777      .01417     -.00556      .00511     -.00001     5.04470     -.01104      .00514
  101.370       1.378     .01369      .02970      .01216     -.00495      .00678     -.00001     4.98810     -.03826     -.05087
  100.760      99.641     .01249      .02794      .00660     -.00622      .00568     -.00001     5.05290     -.01294      .02139
   99.319     199.610     .01103      .02387      .00409     -.01084      .00077     -.00001     5.04720      .00222     -.15556
  100.330     399.600     .00925      .02320      .00397     -.01242     -.00434     -.00001     5.04960     -.00884     -.02021

                          RUN NO.  254/ 0    RN/L =   5.86

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA        X
  200.450    -101.530     .01757      .02477      .01161     -.01002     -.00277     -.00001     5.10900      .01542      .15250
  201.420      -1.266     .01873      .02329      .00811     -.01030     -.00147     -.00001     5.08870     -.01656      .16069
  201.030      98.850     .01[illegible]      .02321      .00603     -.01126     -.00140     -.00001     5.07740     -.03192      .04458
  200.720     199.800     .01363      .02325      .00429     -.01176     -.00229     -.00001     5.04270     -.00374      .06577
  198.800     398.420     .01122      .02346      .00660     -.01353     -.00736     -.00001     5.09840      .07000      .09395

                          RUN NO.  255/ 0    RN/L =   5.86

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA        X
  400.360    -100.230     .02150      .02281      .00453     -.01574     -.00788     -.00001     5.03760     -.00936     -.06306
  400.300       -.206     .01877      .02278      .00548     -.01505     -.00790     -.00001     5.05280     -.00818     -.09697
  400.430      99.653     .01613      .02300      .00655     -.01563     -.00822     -.00001     5.06140     -.00090      .08067
  399.790     199.730     .01535      .02300      .00712     -.01689     -.00839     -.00001     5.05150      .00285      .02541
  399.900     399.720     .01764      .02209      .00696     -.02063     -.00789     -.00001     5.04270     -.00809      .06904
```

```
DATE 20 MAY 76                                   IA87 TABULATED SOURCE DATA                                        PAGE  327

                                         AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET                (ATU087)   ( 03 OCT 74  )

              REFERENCE DATA                                                                           PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                                 MACH   =     4.520  PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                                ALPHA  =     -.400  BETA   =     5.400
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                                 DALPHA =    -5.000  DBETA  =      .000
SCALE =       .0100                                                                   X      =      .000

                         RUN NO.  259/ 0    RN/L =   5.85

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
    11.635    101.100    -.05370     .03272     -.00792      .00151      .00524      .00003    -5.00710    -.0[illegible]10     .12194
    10.396    199.650    -.06141     .03387     -.01220     -.00771      .00608      .00003    -4.94170    -.00367    -.02973
    10.813    399.690    -.05041     .02360     -.01040     -.01824     -.00364      .00001    -4.93950    -.02192    -.03049

                         RUN NO.  258/ 0    RN/L =   5.85

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
   101.140     99.989    -.04906     .03071     -.00568      .00279      .00394      .00002    -4.96420    -.02695    -.04208
   100.670    200.000    -.05467     .02808     -.00489     -.00552     -.00069      .00003    -4.95650    -.01177     .04268
   100.220    401.530    -.04191     .02371     -.00887     -.02263     -.00289      .00001    -5.01480     .00938     .12855

                         RUN NO.  257/ 0    RN/L =   5.85

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
   200.960    100.040    -.04038     .02578     -.00225     -.00299     -.00462      .00001    -4.95620    -.01010    -.12506
   199.410    200.540    -.04289     .02566     -.00328     -.01173     -.00467      .00001    -4.97800     .01106    -.02043
   199.440    400.370    -.03660     .02242     -.00634     -.02552     -.00189      .00001    -5.00230    -.02416    -.07551

                         RUN NO.  256/ 0    RN/L =   5.86

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
   400.180     99.998    -.02261     .02230     -.00596     -.01667     -.00785     -.00000    -4.96900    -.00001    -.10359
   401.050    200.040    -.02537     .02264     -.00511     -.01678     -.00768     -.00000    -4.96360    -.02891    -.02676
   400.460    400.080    -.02778     .02264     -.00419     -.01729     -.00885     -.00000    -4.96160    -.00311     .00714
```

AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET (ATU088) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.400 BETA = 5.400
DALPHA = -5.000 CBETA = .000
X = 300.000

RUN NO. 260/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
12.094	99.833	-.05167	.02153	-.00741	-.00990	.00001	.00002	-4.96140	-.04895	300.11000
10.783	200.110	-.05087	.02493	-.00657	-.01803	-.00049	.00002	-4.96040	-.00746	300.04000
10.535	399.780	-.04865	.02958	-.01744	-.01950	-.00015	.00001	-4.94590	-.00441	300.01000

RUN NO. 261/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
102.070	100.190	-.04289	.03037	-.00970	-.00194	.00122	.00001	-4.98100	-.03773	300.02000
100.840	200.570	-.05463	.03331	-.00778	-.00518	.00229	.00002	-4.94130	-.01973	300.00000
100.530	399.660	-.04398	.02394	-.01106	-.01977	-.00295	.00001	-4.94900	-.01346	299.90000

RUN NO. 262/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.740	100.010	-.03903	.02801	-.00834	-.00279	.00121	.00001	-4.95650	-.01111	299.96000
202.900	199.580	-.04464	.02647	-.00539	-.00889	-.00218	.00001	-4.90930	-.04393	299.97000
200.270	397.960	-.03667	.02287	-.00826	-.02441	-.00240	.00001	-4.89530	-.01166	299.85000

RUN NO. 263/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.360	100.030	-.02600	.02430	-.00407	-.01066	-.00891	-.00001	-4.95490	-.00868	299.96000
401.250	200.150	-.02655	.02242	-.00475	-.01780	-.00565	-.00000	-4.96980	-.00367	300.03000
400.060	399.750	-.03026	.02280	-.00353	-.01991	-.00605	.00000	-4.94470	.00802	299.98000

AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET (ATU089) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.400 BETA = 5.400
DALPHA = .000 DBETA = -1.000
X = .000

RUN NO. 266/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
99.632	-101.500	-.00564	.02630	.00512	.02862	.01285	.00000	.11995	-3.89790	-.11118
100.780	.038	-.01407	.02894	.00391	.01293	.01919	.00001	.05116	-4.01640	-.00152
100.600	99.872	-.01637	.02807	-.00098	.00650	.01786	.00001	.05375	-4.00760	.00273
100.520	200.040	-.01381	.02370	-.00418	.00295	.01075	.00000	.04214	-4.00350	-.10102
100.980	400.730	-.01108	.02198	-.00326	-.00014	.00233	-.00000	.01494	-4.03160	.00956

RUN NO. 265/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.680	-100.110	-.00375	.02529	.00070	.03070	-.00142	-.00000	.04726	-4.00640	-.04666
201.130	-.592	-.01393	.02557	.00474	.02062	.00234	.00001	.08583	-4.07650	-.03947
200.130	100.840	-.01474	.02487	.00292	.01227	.00375	.00001	.01862	-4.01250	.01690
199.130	200.850	-.01186	.02333	-.00022	.00790	.00254	.00000	-.00348	-3.96290	-.11888
198.510	400.100	-.00888	.02184	-.00202	.00079	.00130	-.00000	.01328	-[illegible]34940	-.19851

RUN NO. 264/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.260	-99.685	-.00169	.02492	.00055	.02172	-.00910	-.00001	.01141	-3.96860	-.07233
399.490	-.927	-.00750	.02472	.00340	.01723	-.00739	-.00000	.09394	-3.92160	-.06396
400.970	99.746	-.00319	.02228	.00019	.00958	-.00284	-.00000	.04424	-4.01370	.00096
402.150	200.430	-.00556	.02262	.00049	.00842	-.00306	-.00000	.02252	-4.05150	.11253
400.470	400.140	-.00897	.02259	.00252	.00604	-.00473	-.00000	.04255	-4.00110	-.01987

```
                                        AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET          (ATU090)   ( 03 OCT 74  )

              REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                                   MACH    =     4.520   PTOTL   =      90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                                   ALPHA   =     -.400   BETA    =       5.400
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                                   CALPHA  =      .000   DBETA   =      -4.000
SCALE =       .0100                                                                     X       =   300.000

                               RUN NO.  267/ 0    RN/L =   5.85

     Y          Z          CN          CA         CLM         CY         CYN        CBL        DLTALF     DLTBTA     X
   98.633    -97.721    -.01018     .02876     .00133     .01752     .01431     .00000    -.03259   -3.93370  299.93000
  100.620      -.104    -.01094     .02683    -.00144    -.00030     .01245     .00001     .05359   -3.99830  300.00000
   98.766    100.680    -.01282     .02849    -.00216    -.00636     .01147     .00001     .02792   -3.95180  300.01000
  101.110    201.380    -.01200     .03009    -.00559    -.00238     .01187     .00000    -.00353   -4.02450  300.03000
  100.680    399.620    -.01104     .02261    -.00426    -.00154     .00396    -.00000     .05606   -4.01800  300.07000

                               RUN NO.  268/ 0    RN/L =   5.85

     Y          Z          CN          CA         CLM         CY         CYN        CBL        DLTALF     DLTBTA     X
  200.420   -101.400    -.00195     .02606     .00139     .02070     .01115    -.00000     .09747   -3.99080  300.07000
  201.630      -.509    -.00859     .02740     .00001     .01786     .01175     .00000     .04650   -4.02840  300.17000
  200.790     99.944    -.01657     .02820     .00129     .01092     .01142     .00001     .05003   -4.01080  300.08000
  200.800    199.980    -.01310     .02490    -.00098     .00640     .00750     .00000     .04806   -4.00810  300.13000
  200.160    398.890    -.00896     .02277    -.00255     .00048     .00235    -.00000     .08099   -3.97970  300.13000

                               RUN NO.  269/ 0    RN/L =   5.86

     Y          Z          CN          CA         CLM         CY         CYN        CBL        DLTALF     DLTBTA     X
  400.690   -100.080    -.00078     .02404     .00000     .01723    -.00327    -.00001     .04610   -4.01280  299.94000
  400.690      -.171    -.00650     .02436     .00188     .01754    -.00433    -.00000     .06704   -3.98790  300.01000
  400.620     99.511    -.01172     .02522     .00416     .01414    -.00382     .00000     .07476   -4.01290  299.93000
  401.270    200.870    -.00597     .02260     .00017     .00763    -.00128    -.00000    -.01455   -4.05530  300.00000
  399.340    399.640    -.00871     .02241     .00135     .00528    -.00295    -.00000     .05917   -3.96120  299.94000
```

AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET (ATU091) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.400 BETA = 5.400
DALFHA = 5.000 DBETA = -4.000
X = 300.000

RUN NO. 272/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.410	-99.782	.01577	.02879	.01060	.00427	.01627	-.00001	5.04330	-3.99410	299.89000
100.310	-.105	.01180	.02891	.00729	-.00392	.01274	-.00001	5.05060	-3.99290	299.94000
100.540	99.168	.01033	.02932	.00538	-.00241	.00970	-.00001	5.08010	-4.00950	300.13000
100.160	199.710	.01004	.03081	.00337	.00190	.00941	-.00001	5.04880	-3.98910	299.95000
100.880	400.260	.01347	.02204	.00183	-.00088	.00383	-.00001	5.02230	-4.04620	299.95000

RUN NO. 271/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
201.020	-100.020	.01867	.02666	.01134	.01630	.01066	-.00001	5.05090	-4.01700	300.01000
201.040	.919	.01395	.02817	.01018	.01282	.01232	-.00001	5.02030	-4.04230	300.09000
198.720	101.330	.01217	.02695	.00721	.01000	.00986	-.00001	4.99190	-3.93980	299.93000
197.930	200.190	.01225	.02404	.00555	.00401	.00666	-.00001	5.00030	-3.91480	299.84000
200.550	399.790	.01290	.02230	.00306	.00135	.00154	-.00001	5.03970	-4.00960	300.11000

RUN NO. 270/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
399.890	-100.280	.02212	.02421	.00704	.00922	-.00265	-.00001	5.04590	-3.96400	300.01000
400.610	-1.233	.02046	.02364	.00720	.00385	-.00033	-.00001	5.096[illegible]	-3.99480	300.12000
401.240	99.582	.02278	.02251	.00395	.00246	.00042	-.00001	5.0[illegible]0	-4.03440	300.02000
402.070	200.110	.01991	.02266	.00395	.00389	-.00088	-.00001	5.01180	-4.08310	300.10000
400.450	399.830	.01265	.02272	.00661	.00401	-.00421	-.00000	5.04090	-4.00530	300.13000

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA528(IA87)-O1ET131-R/H SRB SEPAR.FROM O/ET (ATU092) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES   YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES   ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520   PTOTL = 90.200
ALPHA = -.400   BETA = 5.400
DALPHA = 5.000   DBETA = -4.000
X = .000

RUN NO. 273/ 0   RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.680	-100.020	.01916	.02676	.01519	.01141	.01766	-.00001	5.05160	-4.00890	-.09441
100.890	-.209	.01707	.02904	.01061	.01056	.01882	-.00002	5.05440	-4.00970	-.00252
100.700	99.561	.01375	.02815	.00557	.00777	.01568	-.00001	5.05920	-4.01200	.13245
99.965	199.540	.01139	.02369	.00262	.00339	.00857	-.00001	5.05130	-3.99850	-.01499
100.970	399.710	.01097	.02237	.00230	.00123	.00144	-.00001	5.04780	-4.01750	.05046

RUN NO. 274/ 0   RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.820	-101.190	.01680	.02433	.01215	.01877	.00242	-.00001	5.09580	-3.98330	.07739
201.680	-1.413	.01610	.02333	.00996	.01373	.00413	-.00001	5.10330	-4.02210	.12549
201.650	98.738	.01561	.02286	.00727	.00763	.00460	-.00001	5.09180	-4.03880	.25706
201.110	199.780	.01532	.02263	.00461	.00359	.00387	-.00001	5.04340	-4.00720	.06209
199.740	398.770	.01178	.02261	.00438	.00375	-.00156	-.00000	5.08560	-3.94500	.06777

RUN NO. 275/ 0   RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.390	-100.140	.02283	.02296	.00527	.00631	-.00244	-.00001	5.04240	-4.01270	.01030
400.980	.535	.02388	.02265	.00337	.00403	-.00121	-.00001	5.01060	-4.03940	-.05611
400.320	100.020	.02080	.02298	.00378	.00491	-.00240	-.00001	5.04530	-3.98380	.01847
399.910	199.740	.01705	.02301	.00479	.00590	-.00387	-.00001	5.05600	-3.97830	.01580
399.650	398.910	.01193	.02229	.00806	.00211	-.00481	-.00000	5.08860	-3.97980	-.01677

```
                                   AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET              (ATU093)    ( 03 OCT 74  )

              REFERENCE DATA                                                                       PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                                 MACH   =      4.520   PTOTL   =     90.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                                ALPHA  =      -.400   BETA    =      5.400
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                                 CALPHA =     -5.000   DBETA   =     -4.000
SCALE =       .0100                                                                    X      =       .000

                        RUN NO.  278/ 0    RN/L =   5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
   100.930     99.999    -.05148     .02879    -.00818     .02506     .01469     .00002   -4.95080   -4.01450     .02978
   100.590    200.120    -.05191     .02468    -.00945     .01734     .01037     .00002   -4.96280   -4.01260     .00080
   101.170    401.610    -.04659     .02266    -.00811     .00672     .00128     .00002   -5.01360   -4.04330     .20259

                        RUN NO.  277/ 0    RN/L =   5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
   200.840     99.935    -.04748     .02604    -.00246     .02891    -.00110     .00002   -4.95690   -4.00990     .01019
   200.290    200.200    -.04897     .02548    -.00286     .01829     .00093     .00002   -4.96590   -4.02840    -.01105
   197.320    400.000    -.04052     .02290    -.00585     .00498    -.00024     .00001   -5.00520   -3.93130    -.21680

                        RUN NO.  276/ 0    RN/L =   5.85

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
   399.500     98.957    -.03545     .02600    -.00000     .01412    -.00701     .00001   -4.90180   -3.90940    -.15486
   401.440    200.050    -.03038     .02220    -.00372     .00428    -.00172     .00000   -4.95660   -4.02660    -.01096
   400.900    400.100    -.03095     .02295    -.00322     .00274    -.00269     .00001   -4.96230   -4.00470     .06443

                                   AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET              (ATU094)    ( 03 OCT 74  )

              REFERENCE DATA                                                                       PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                                 MACH   =      4.520   PTOTL   =     90.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                                ALPHA  =      -.400   BETA    =      5.400
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                                 CALPHA =     -5.000   DBETA   =     -4.000
SCALE =       .0100                                                                    X      =    300.000

                        RUN NO.  279/ 0    RN/L =   5.85

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
   101.090    100.030    -.04303     .02729    -.01055     .01711     .00927     .00001   -4.93360   -4.03640  300.02000
    99.444    201.500    -.04552     .03033    -.01294     .00512     .01166     .00001   -4.99690   -4.01820  300.05000
    99.738    399.720    -.04166     .02209    -.01348     .00401     .00458     .00001   -4.94950   -4.00330  299.97000

                        RUN NO.  280/ 0    RN/L =   5.85

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
   203.350    100.660    -.04321     .02675    -.00937     .02491     .00849     .00001   -4.99450   -4.08170  300.31000
   200.920    199.990    -.04957     .02647    -.00607     .01435     .00672     .00002   -4.96040   -4.01180  300.06000
   200.160    399.920    -.04061     .02244    -.00799     .00403     .00165     .00001   -4.95600   -4.00440  300.00000
```

```
                                         AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET              (ATU094)    ( 03 OCT 74  )

               REFERENCE DATA                                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                              MACH    =     4.520  PTOTL  =     90.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                             ALPHA   =     -.400  BETA   =      5.400
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                              CALPHA  =    -5.000  CBETA  =     -4.000
SCALE =       .0100                                                                 X       =   300.000

                         RUN NO.  281/ 0    RN/L =   5.85

      Y          Z         CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
   400.470     99.985    -.03778     .02363    -.00203     .00929    -.00213     .00001   -4.96320   -4.00990  300.05000
   400.470    199.470    -.04065     .02554    -.00041     .00901    -.00306     .00001   -4.93690   -3.99270  300.13000
   399.890    400.710    -.03198     .02234    -.00476     .00016    -.00026     .00001   -5.01630   -4.03870  300.12000

                                         AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET              (ATU095)    ( 03 OCT 74  )

               REFERENCE DATA                                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                              MACH    =     4.520  PTOTL  =     90.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                             ALPHA   =     -.400  BETA   =      5.400
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                              CALPHA  =      .000  CBETA  =     -8.000
SCALE =       .0100                                                                 X       =      .000

                         RUN NO.  283/ 0    RN/L =   5.85

      Y          Z         CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
   200.790   -100.070    -.01378     .02155     .00451     .06271     .00648     .00001     .05235   -8.00610   -.13031
   200.530      -.125    -.01284     .02103     .00324     .03779     .01462     .00001     .05720   -7.99620   -.02622
   199.430    101.380    -.01297     .02114     .00021     .02747     .01570     .00000    -.00763   -7.99480   -.10279
   197.890    200.740    -.01310     .02156    -.00203     .02317     .01251    -.00000     .00431   -7.90540   -.34264
   200.770    399.860    -.01039     .02093    -.00197     .01887     .00663    -.00001     .04619   -8.00850    .03368

                         RUN NO.  282/ 0    RN/L =   5.86

      Y          Z         CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
   400.390    -99.294    -.00361     .02197     .00041     .04183    -.00248    -.00001    -.00602   -7.96160    .01376
   400.030      -.725    -.01102     .02498     .00445     .03584    -.00134     .00001     .08997   -7.94560   -.14943
   400.620     99.439    -.00714     .02264     .00172     .02876     .00186     .00000     .06922   -7.99120   -.07341
   402.070    199.910    -.00693     .02177     .00053     .02490     .00285    -.00000     .05679   -8.04420    .18584
   400.490    400.170    -.00679     .02169     .00028     .02058     .00149    -.00000     .03562   -7.99500   -.09322
```

```
                              AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET          (ATU096)   ( 03 OCT 74  )

          REFERENCE DATA                                                           PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                     MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                     ALPHA  =     -.400   BETA   =     5.400
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                     CALPHA =      .000   CBETA  =    -8.000
SCALE =       .0100                                                       X      =   300.000

                     RUN NO.  284/ 0    RN/L =   5.85

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  200.590   -101.310    -.01001     .02529     .00294     .05328     .02025    -.00000     .11602   -7.96360  300.02000
  200.710     -1.079    -.01293     .02611     .00067     .03547     .02303    -.00000     .09116   -8.00800  300.17000
  199.650     99.965    -.01409     .02677    -.00127     .02530     .02333    -.00000     .04850   -7.99630  299.99000
  200.330    200.000    -.01098     .02342    -.00478     .02128     .01847    -.00001     .05300   -8.00460  300.01000
  200.670    399.890    -.01035     .02130    -.00262     .01818     .00877    -.00001     .03623   -8.04600  300.12000

                     RUN NO.  285/ 0    RN/L =   5.86

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  400.910   -100.170    -.00247     .02261    -.00029     .04186     .00234    -.00000     .04470   -8.01200  300.02000
  399.740      -.042    -.00758     .02344     .00095     .03793     .00129    -.00000     .05488   -7.97520  299.87000
  400.920     99.323    -.01278     .02402     .00376     .02999     .00354     .00001     .08317   -8.04270  300.07000
  400.750    200.630    -.00827     .02211     .00071     .02554     .00410    -.00000    -.00141   -8.01460  299.98000
  399.600    400.140    -.00654     .02094    -.00061     .01917     .00355    -.00000     .02786   -7 97890  299.92000

                              AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET          (ATU097)   ( 03 OCT 74  )

          REFERENCE DATA                                                           PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                     MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                     ALPHA  =     -.400   BETA   =     5.400
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                     CALPHA =     5.000   CBETA  =    -8.000
SCALE =       .0100                                                       X      =   300.000

                     RUN NO.  287/ 0    RN/L =   5.86

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  199.890   -100.320     .02486     .02513     .01117     .03478     .02261    -.00001    5.04980   -8.00250  299.77000
  199.670      1.457     .02209     .02739     .00819     .02852     .02385    -.00002    4.99110   -8.01300  299.80000
  197.630    101.880     .01811     .02704     .00440     .02661     .02063    -.00002    4.97170   -7.91250  299.52000
  200.170    199.580     .01343     .02450     .00507     .02570     .01483    -.00001    5.05530   -8.00130  300.06000
  200.410    399.740     .01889     .02138     .00238     .01890     .00801    -.00002    5.04040   -8.00740  300.13000
```

```
                                   AEDC/VA528(IA87)-O1ET1S1-R/M SRB SEPAR.FROM O/ET               (ATU097)    ( 03 OCT 74  )

              REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                                  MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                                 ALPHA  =     -.400   BETA   =     5.400
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                                  DALPHA =     5.000   CBETA  =    -8.000
SCALE =        .0100                                                                   X      =   300.000

                          RUN NO.  286/ 0    RN/L =    5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   400.020    -99.790     .02257     .02351     .00653     .03622     .00155    -.00001    5.01850   -7.96000  299.88000
   400.660     -1.014     .01826     .02364     .00856     .02973     .00419    -.00001    5.09010   -7.99210  300.11000
   400.550     99.373     .02180     .02262     .00547     .02546     .00524    -.00001    5.07170   -7.99950  300.01000
   402.380    199.430     .02328     .02193     .00386     .02131     .00574    -.00001    5.05260   -8.08920  300.25000
   400.440    399.860     .01874     .02243     .00405     .02022     .00224    -.00001    5.04180   -8.00600  299.93000

                                   AEDC/VA528(IA87)-O1ET1S1-R/M SRB SEPAR.FROM O/ET               (ATU098)    ( 03 OCT 74  )

              REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                                  MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                                 ALPHA  =     -.400   BETA   =     5.400
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                                  DALPHA =     5.000   CBETA  =    -8.000
SCALE =        .0100                                                                   X      =      .000

                          RUN NO.  288/ 0    RN/L =    5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   201.240   -101.800     .01701     .02137     .01302     .03720     .01506    -.00001    5.12900   -8.00060     .13615
   202.770     -1.549     .01659     .02108     .00954     .03362     .01532    -.00001    5.10190   -8.08910     .27256
   203.000     99.340     .01288     .02180     .00739     .03216     .01230    -.00001    5.07610   -8.09280     .26486
   200.210    199.860     .01322     .02176     .00593     .02759     .00958    -.00001    5.04630   -7.93290    -.02005
   199.410    399.850     .02140     .02178     .00178     .01925     .00528    -.00001    5.04140   -7.93720    -.11624

                          RUN NO.  289/ 0    RN/L =    5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   401.230   -100.170     .01985     .02423     .00791     .03331     .00043    -.00001    5.04380   -8.02020     .12854
   401.330       .520     .02273     .02272     .00526     .02803     .00296    -.00001    5.00040   -8.06640     .08807
   400.700    100.370     .02367     .02192     .00382     .02361     .00432    -.00001    5.02000   -8.02830     .03079
   400.420    200.000     .02252     .02216     .00338     .02196     .00343    -.00001    5.03010   -7.99010    -.13778
   398.620    399.470     .01510     .02289     .00571     .02105    -.00035    -.00000    5.06330   -7.92320    -.24767
```

```
                                   AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET            (ATU099)    ( 03 OCT 74  )

              REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                            MACH   =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                           ALPHA  =      -.400   BETA   =      5.400
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                            DALPHA =     -5.000   DBETA  =     -8.000
SCALE =       .0100                                                              X      =       .000

                      RUN NO.  291/ 0    RN/L =   5.86

     Y         Z          CN         CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA       X
  200.690    99.867    -.05058    .02187    -.00354    .05449    .00970    .00003   -4.95040   -8.00420    -.15581
  198.640   200.870    -.04800    .02228    -.00610    .04018    .01072    .00002   -4.99380   -7.98050    -.17130
  200.390   399.860    -.04347    .02308    -.00622    .02683    .00573    .00001   -4.95160   -8.00420     .01127

                      RUN NO.  290/ 0    RN/L =   5.85

     Y         Z          CN         CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA       X
  400.730    99.715    -.04523    .02597     .00191    .03922   -.00197    .00002   -4.93810   -7.98250    -.07421
  400.870   198.940    -.04249    .02505     .00077    .03306   -.00022    .00002   -4.88470   -7.97180    -.05186
  400.660   400.100    -.03406    .02135    -.00390    .02341    .00191    .00001   -4.96320   -7.99940     .03119

                                   AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET            (ATU100)    ( 03 OCT 74  )

              REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                            MACH   =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                           ALPHA  =      -.400   BETA   =      5.400
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                            DALPHA =     -5.000   DBETA  =     -8.000
SCALE =       .0100                                                              X      =    300.000

                      RUN NO.  292/ 0    RN/L =   5.85

     Y         Z          CN         CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA       X
  203.080   100.310    -.04981    .02645    -.01013    .04158    .02085    .00001   -4.96250   -8.08400  300.26000
  201.540   200.130    -.04666    .02501    -.01002    .03166    .01867    .00001   -4.96350   -8.01690  299.99000
  201.660   400.620    -.03878    .02158    -.01080    .02332    .00937    .00001   -5.02410   -8.08370  300.29000

                      RUN NO.  293/ 0    RN/L =   5.86

     Y         Z          CN         CA        CLM        CY        CYN       CBL      DLTALF     DLTBTA       X
  400.780    99.959    -.03812    .02318    -.00437    .03988    .00150    .00001   -4.95873   -8.01290  300.10000
  400.610   199.040    -.04470    .02467    -.00068    .03382    .00214    .00002   -4.91120   -8.01520  299.86000
  399.840   400.400    -.03744    .02249    -.00366    .02525    .00230    .00001   -4.99410   -7.99110  299.96000
```

AEDC/VA528(IA87)-O1ET:S1-L/H SRB SEPAR.FROM C/ET (ATU101) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.400 BETA = 5.400
DALPHA = .000 DBETA = .000
X = .000

RUN NO. 295/ 0 RN/L = 5.80

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-399.040	-100.560	-.00473	.02207	.00264	-.03477	-.00641	-.00000	.07253	-.03930	-.04226
-399.030	-.429	-.00384	.02125	.00129	-.03131	-.00841	-.00001	.06363	-.01532	-.01784
-399.350	99.205	-.00350	.02066	.00038	-.02940	-.00901	-.00001	.08355	-.02235	-.01566
-401.310	199.690	-.00153	.01964	-.00165	-.02624	-.01027	-.00001	.05399	.07540	-.07733
-399.710	400.090	-.00291	.02014	-.00177	-.02829	-.00700	-.00001	.03927	.00276	-.00128

RUN NO. 296/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-199.280	-100.230	-.00494	.02215	.00150	-.03608	-.01391	-.00001	.04694	-.00600	-.05753
-200.210	.049	-.01128	.02641	.00337	-.03810	-.01429	-.00000	.05083	.03113	-.12519
-199.020	100.770	-.00916	.02450	.00081	-.03378	-.01473	-.00001	.00009	-.00300	.03654
-197.290	200.430	-.00517	.02211	-.00179	-.02952	-.01302	-.00001	.00720	-.06655	.03861
-197.230	400.170	-.00446	.02049	-.00354	-.02861	-.01031	-.00001	.00608	-.07193	.06460

RUN NO. 297/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-101.490	-101.240	-.00672	.02708	.00182	-.03367	-.02052	-.00002	.08946	.08291	.07557
-99.687	-.873	-.00688	.02753	-.00009	-.02216	-.01744	-.00001	.06996	.04259	.11213
-97.418	98.063	-.00721	.02883	-.00045	-.02254	-.01544	-.00001	.10379	-.05702	.04725
-98.011	199.795	-.00674	.02917	-.00378	-.02920	-.01764	-.00002	.03775	-.03111	-.05806
-99.379	400.560	-.00629	.02105	-.00436	-.03021	-.01116	-.00000	.02156	.01071	-.00560

RUN NO. 298/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-9.208	-100.340	-.01452	.02102	-.00226	-.02749	-.01137	-.00001	.04645	[illegible]	.11779
-7.890	-.224	-.00553	.01794	-.00351	-.00864	-.00850	-.00001	.03866	-.04113	.03364
-6.598	99.365	-.00108	.01892	-.00049	-.00118	-.00780	-.00001	.06128	-.07488	.11788
-8.255	199.660	-.00233	.02562	-.00117	-.01406	-.01121	-.00001	.05375	-.02993	-.03180
-9.257	401.520	-.00998	.02169	-.00562	-.03033	-.01168	-.00001	-.02243	-.03026	.22396

AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET (ATU102) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.9000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.400 BETA = 5.400
DALPHA = .000 DBETA = .000
X = 300.000

RUN NO. 302/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-397.190	-101.080	-.00195	.02139	.00123	-.03119	-.01138	-.00001	.08810	-.08703	300.04000
-399.180	.028	-.00527	.02286	.00155	-.03185	-.01067	-.00001	.04912	-.01357	300.01000
-399.330	100.390	-.00411	.02146	-.00010	-.02892	-.01155	-.00001	.01911′	.01264	300.03000
-398.490	200.130	-.00456	.02167	-.00074	-.02844	-.01076	-.00001	.03011	-.02892	300.01000
-398.450	400.430	-.00117	.01995	-.00318	-.02627	-.00998	-.00001	.00949	-.02782	300.14000

RUN NO. 301/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-199.030	-100.100	-.00039	.02579	-.00154	-.02334	-.01600	-.00001	.04219	-.01428	300.01000
-199.070	.449	-.00359	.02542	-.00195	-.02143	-.01131	-.00001	.00124	.03005	300.08000
-197.600	99.560	-.00726	.02688	.00060	-.02110	-.00985	-.00001	.06644	-.08886	299.97000
-199.530	198.650	-.00627	.02846	-.00054	-.02467	-.01324	-.00001	.12111	-.00753	299.97000
-198.030	398.600	-.00477	.02253	-.00463	-.02523	-.01295	-.00001	.09533	-.04037	300.10000

RUN NO. 300/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-98.468	-100.110	-.00746	.01686	-.00345	-.01458	-.00952	-.00001	.04322	-.01065	300.11000
-96.169	-.197	-.00167	.01591	-.00427	-.00665	-.00661	-.00001	.03449	-.09621	300.07000
-97.747	98.762	-.00157	.01787	-.00085	-.00681	-.00570	-.00001	.09978	-.03743	300.20000
-99.532	199 180	-.00123	.02129	.00088	-.01088	-.00701	-.00001	.07381	.02455	300.10000
-98.122	398.700	-.00650	.02781	-.00689	-.03015	-.01439	-.00001	.05209	-.02864	300.01000

RUN NO. 299/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-9.189	-100.190	-.01357	.01432	-.00514	-.02377	-.01215	-.00001	.04302	.00357	300.04000
-9.000	1.138	-.00321	.01369	-.00663	-.00805	-.00583	-.00002	-.00822	.02332	300.05000
-9.366	101.050	.00234	.01537	-.00316	-.00409	-.00533	-.00001	-.01843	.00779	299.94000
-8.656	199.950	.00260	.01553	.00022	-.00877	-.00484	-.00001	.04192	-.00848	300.07000
-7.672	398.950	-.00750	.02788	-.00421	-.02564	-.01097	-.00001	.07895	-.04543	300.12000

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET (ATU103) (03 OCT 74)

REFERENCE DATA

SREF = 2000.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 00.200
ALPHA = -.400 BETA = 5.400
DALFHA = 5.000 DBETA = .000
X = 300.000

RUN NO. 303/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-398.990	-100.790	.02045	.02215	.00953	-.03505	-.01025	-.00001	5.07700	-.02402	300.12000
-399.290	-.523	.02213	.02185	.00759	-.03255	-.01124	-.00001	5.06200	-.01094	299.99000
-399.310	99.336	.02330	.02183	.00651	-.03001	-.01175	-.00002	5.06750	-.00530	300.00000
-400.300	198.820	.02447	.02115	.00493	-.02864	-.01200	-.00002	5.08410	.06427	300.06000
-398.830	399.870	.02480	.02159	.00266	-.02905	-.00677	-.00002	5.03860	-.00893	300.06000

RUN NO. 304/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-200.680	-98.851	.01699	.02752	.00710	-.02873	-.01320	-.00002	4.99080	.04589	299.91000
-199.390	-.300	.01260	.02692	.00785	-.02459	-.00882	-.00001	5.04530	.00948	300.06000
-199.560	99.746	.01533	.02690	.00752	-.02503	-.00982	-.00001	5.04770	.01737	300.02000
-201.210	199.830	.01835	.02837	.00614	-.03032	-.01390	-.00002	5.01770	.08322	300.08000
-199.090	400.820	.02243	.02195	.00174	-.03028	-.01317	-.00002	4.97220	.00281	299.94000

RUN NO. 305/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-100.700	-99.595	.01455	.01868	.00020	-.01095	-.00882	-.00001	5.00440	.07326	300.00000
-98.898	.871	.01349	.01846	.00242	-.00813	-.00515	-.00001	4.98480	.01181	299.94000
-97.216	100.690	.01699	.01896	.00468	-.01186	-.00376	-.00001	5.00710	-.04352	300.04000
-99.295	199.820	.01838	.02228	.00660	-.02075	-.00407	-.00001	5.03910	.00840	300.09000
-100.050	400.950	.01646	.02701	.00025	-.03316	-.01513	-.00001	5.00570	.03619	299.94000

RUN NO. 306/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-10.758	-99.504	.01948	.01601	-.00158	-.00827	-.01055	-.00002	5.00020	.00373	299.78000
-8.459	-.209	.01494	.01569	-.00023	-.00116	-.00618	-.00002	5.03530	-.01767	300.02000
-8.426	99.903	.01652	.01568	.00258	-.00825	-.00484	-.00001	5.07900	-.04143	300.15000
-7.377	198.150	.02540	.01674	.00431	-.01226	-.00295	-.00002	5.08990	-.06676	300.19000
-8.391	399.910	.01396	.02788	.00181	-.03387	-.01104	-.00001	5.03320	-.02443	300.11000

```
                              AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET         (ATU104)   ( 03 OCT 74  )

           REFERENCE DATA                                                                 PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                           MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                           ALPHA  =     -.400   BETA   =     5.400
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                           CALPHA =     5.000   CBETA  =      .000
SCALE =      .0100                                                              X      =      .000

                        RUN NO.  310/ 0    RN/L =   5.85

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -399.570   -100.300    .02389     .02164     .00701    -.03202    -.00867    -.00002    5.04330     .00202   -.00492
  -400.070       .087    .02463     .02078     .00587    -.02900    -.01039    -.00002    5.02220     .03244   -.07711
  -399.500    100.280    .02684     .02069     .00393    -.02752    -.01078    -.00002    5.01420     .00638   -.01053
  -399.090    200.030    .02612     .02144     .00325    -.02832    -.00948    -.00002    5.02680    -.02862   -.05044
  -399.550    399.610    .02135     .02210     .00370    -.03132    -.00483    -.00002    5.04400     .00207   -.05117

                        RUN NO.  309/ 0    RN/L =   5.85

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -197.800   -101.390    .01723     .02469     .01202    -.03742    -.01265    -.00001    5.09840    -.09382    .02853
  -200.300     -1.106    .02054     .02428     .00853    -.03411    -.01630    -.00002    5.07120     .03642    .03623
  -201.140     99.442    .01968     .02324     .00688    -.03549    -.01490    -.00002    5.07130     .05172   -.04967
  -201.390    198.890    .02181     .02153     .00485    -.03408    -.01326    -.00001    5.10140     .07583   -.00160
  -198.300    399.340    .02545     .02172     .00138    -.03004    -.01007    -.00002    5.06050    -.04146    .00945

                        RUN NO.  308/ 0    RN/L =   5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   -98.181    -99.906    .01888     .02884     .01021    -.02823    -.01896    -.00002    5.02020    -.03330   -.08430
   -98.928      -.494    .01444     .02931     .00853    -.02436    -.01435    -.00002    5.03490     .00497    .11554
   -98.667    100.770    .01744     .02940     .00687    -.02521    -.01486    -.00002    4.98890    -.01569   -.03975
  -100.040    201.290    .01942     .02896     .00321    -.03159    -.01769    -.00002    4.96950     .04053    .00684
   -99.173    399.610    .02531     .02172     .00064    -.03072    -.01164    -.00002    5.04180     .00325    .05568

                        RUN NO.  307/ 0    RN/L =   5.85

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
    -8.507   -100.070    .01067     .02133     .00263    -.00752    -.01256    -.00002    5.03120    -.02404    .00328
    -9.016      -.167    .01397     .02026     .00207    -.00843    -.00796    -.00001    5.02840    -.00375   -.02285
    -9.046     99.742    .01458     .02150     .00618    -.01629    -.00329    -.00001    5.04210     .00159   -.00276
    -7.930    198.873    .01758     .02634     .00597    -.02768    -.00847    -.00001    5.10070    -.04629    .03710
    -9.395    399.720    .02297     .02165    -.00018    -.03154    -.01214    -.00001    5.02430     .01535    .11994
```

```
                                      AEDC/VA528(IA87)-O1ET151-L/H SRB SEPAR.FROM O/ET              (ATU105)   ( 03 OCT 74  )

                  REFERENCE DATA                                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                                 MACH    =     4.520  PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                                ALPHA   =     -.400  BETA   =      5.400
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                                 DALPHA  =    -5.000  DBETA  =       .000
SCALE =        .0100                                                                  X       =      .000

                       RUN NO.  311/ 0    RN/L =   5.85

      Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA      X
  -399.360     99.566    -.03211     .02203    -.00443    -.03424    -.00798     .00000    -4.93430    -.00655    -.08536
  -400.020    199.430    -.03137     .02173    -.00551    -.03303    -.00816     .00000    -4.93030     .00382    -.10397
  -399.960    399.860    -.02931     .02006    -.00708    -.02898    -.00849    -.00000    -4.96060     .00753     .04033

                       RUN NO.  312/ 0    RN/L =   5.85

      Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA      X
  -199.790     99.956    -.03705     .02597    -.00602    -.04186    -.01305     .00000    -4.96400     .00492     .00681
  -197.430    199.990    -.03896     .02356    -.00583    -.03378    -.01162     .00000    -4.95910    -.06758     .07306
  -198.070    400.250    -.03056     .02142    -.01007    -.03118    -.01061    -.00000    -5.02300    -.03570     .19450

                       RUN NO.  313/ 0    RN/L =   5.85

      Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA      X
   -97.539     98.219    -.03218     .02776    -.00870    -.02767    -.01527    -.00001    -4.89850    -.05821    -.02612
   -98.236    199.840    -.03490     .02930    -.01081    -.02839    -.01768    -.00001    -4.96740    -.03355    -.05883
   -99.300    400.850    -.03226     .02231    -.01135    -.03239    -.01105    -.00000    -4.99380     .00228     .08823

                       RUN NO.  314/ 0    RN/L =   5.85

      Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA      X
    -8.098     99.732    -.02640     .01789    -.00622    -.01548    -.00656    -.00001    -4.95980    -.03404     .24188
    -8.284    199.740    -.02176     .02348    -.00808    -.01060    -.01271    -.00001    -4.96160    -.02195     .11758
    -9.163    399.780    -.03208     .02254    -.01545    -.03091    -.01333    -.00001    -4.95790    -.00681     .01068
```

```
                              AEDC/VA528(IA87)-O1ET181-L/H SRB SEPAR.FROM O/ET          (ATU158)   ( 03 OCT 74  )

           REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                         MACH   =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                        ALPHA  =      -.400   BETA   =      5.400
BREF  =  1290.3000 INCHES   ZMRP  =    400.0000 IN. ZS                        DALPHA =     -5.000   CBETA  =       .000
SCALE =       .0100                                                           X      =    300.000

                          RUN NO.  318/ 0    RN/L =   5.85

      Y          Z         CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA      X
  -399.910     99.068    -.03078     .02260    -.00627    -.03607    -.01037    -.00000   -4.92730     .02631  299.95000
  -398.750    199.980    -.03291     .02108    -.00623    -.03287    -.01009     .00000   -4.96100    -.01751  300.08000
  -398.180    400.090    -.03156     .02142    -.00749    -.03039    -.00880     .00000   -4.97750    -.04129  300.12000

                          RUN NO.  317/ 0    RN/L =   5.86

      Y          Z         CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA      X
  -198.000     99.642    -.02650     .02522    -.00870    -.02527    -.01027    -.00000   -4.95590    -.06795  299.91000
  -199.480    199.910    -.03033     .02815    -.00841    -.02662    -.01290    -.00000   -4.96190     .00230  300.03000
  -198.590    398.680    -.03038     .02325    -.01282    -.03002    -.01394    -.00001   -4.91250    -.02701  299.93000

                          RUN NO.  316/ 0    RN/L =   5.86

      Y          Z         CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA      X
   -98.450     99.570    -.02127     .01625    -.00694    -.01058    -.00570    -.00000   -4.93660    -.01521  300.15000
   -99.200    199.210    -.01998     .01951    -.00521    -.01044    -.00780    -.00000   -4.92220     .03063  300.00000
   -98.732    399.660    -.02964     .02796    -.01533    -.02914    -.01515    -.00001   -4.95450    -.02075  299.94000

                          RUN NO.  315/ 0    RN/L =   5.86

      Y          Z         CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA      X
    -8.761    101.050    -.02046     .01367    -.00868    -.00856    -.00424    -.00001   -5.00620    -.01913  300.11000
    -8.804    200.030    -.01172     .01425    -.00641    -.00602    -.00554    -.00001   -4.96590    -.00644  300.12000
    -7.161    397.990    -.02279     .02636    -.01388    -.02184    -.01270    -.00001   -4.90420    -.06292  299.99000
```

```
                                   AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET              (ATU107)    ( 03 OCT 74  )

              REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                               MACH    =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                               ALPHA   =      -.400   BETA   =      5.400
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                               DALPHA  =       .000   DBETA  =      4.000
SCALE =       .0100                                                                 X       =       .000

                        RUN NO.  319/ 0    RN/L =   5.86

      Y          Z         CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -398.310   -100.130   -.00506     .02253     .00185    -.06244    -.01238    -.00000     .04131    3.96790     .05394
  -397.940      -.726   -.00729     .02259     .00260    -.05871    -.01343    -.00001     .08871    3.96250     .12959
  -398.930     99.617   -.00333     .02205     .00004    -.05604    -.01436    -.00001     .06555    4.00560     .10718
  -399.080    199.240   -.00360     .02212    -.00067    -.05613    -.01352    -.00001     .07389    4.01490     .17872
  -398.260    400.110   -.00292     .02123    -.00237    -.05478    -.01234    -.00001     .03758    3.98070     .04963

                        RUN NO.  320/ 0    RN/L =   5.86

      Y          Z         CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -198.840   -100.230   -.01054     .02175     .00273    -.06372    -.02144    -.00002     .04064    3.99610    -.05628
  -199.550       .131   -.00888     .02465     .00206    -.05738    -.02417    -.00002     .01621    4.05750     .03591
  -197.850    100.840   -.01109     .02578     .00081    -.05329    -.02340    -.00002     .00280    3.95900    -.05650
  -198.840    199.920   -.00518     .02187    -.00261    -.05347    -.01933    -.00002     .04296    3.98820     .02216
  -198.980    399.800   -.00637     .02213    -.00326    -.05637    -.01509    -.00001     .04103    3.99430     .17872

                        RUN NO.  321/ 0    RN/L =   5.86

      Y          Z         CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -99.003   -100.020   -.01861     .02819     .00378    -.06731    -.02492    -.00002     .03302    3.97920    -.07521
   -99.651     -1.057   -.01098     .02510    -.00031    -.03947    -.02386    -.00003     .08182    3.99770    -.00133
   -98.830     97.948   -.00406     .02698    -.00197    -.03460    -.02465    -.00003     .10715    3.98300    -.22411
   -99.231    199.830   -.00352     .02862    -.00539    -.04627    -.02523    -.00003     .03815    3.97810    -.20473
  -100.220    400.910   -.01060     .02194    -.00412    -.05874    -.01575    -.00001     .01555    4.01590    -.04941
```

```
                              AEDC/VA528(IA87)-O1ET:S1-L/H SRB SEPAR.FROM O/ET              (ATU108)    ( 03 OCT 74  )

            REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                          MACH   =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                          ALPHA  =      -.400   BETA   =      5.400
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                          DALPHA =       .000   DBETA  =      4.000
SCALE =       .0100                                                            X      =    300.000

                              RUN NO.  324/ 0    RN/L =    5.85

     Y          Z         CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -396.880   -101.310   -.00224    .02148     .00080   -.05704    -.01838    -.00001     .07213    3.92240  300.03000
  -398.300       .024   -.00521    .02292     .00125   -.05888    -.01633    -.00001     .04975    3.95290  299.96000
  -398.130    100.150   -.00739    .02350     .00117   -.05752    -.01580    -.00001     .03864    3.97170  300.08000
  -398.480    200.580   -.00458    .02208    -.00131   -.05415    -.01657    -.00001     .00907    3.99440  300.14000
  -397.440    400.120   -.00416    .02177    -.00217   -.05456    -.01372    -.00001     .03029    3.92340  299.99000

                              RUN NO.  323/ 0    RN/L =    5.85

     Y          Z         CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -202.220   -100.740   -.00727    .02461    -.00053   -.04807    -.02229    -.00002     .07196    4.10140  300.26000
  -199.100       .217   -.00540    .02364    -.00206   -.03736    -.01821    -.00002     .02225    4.01350  300.15000
  -196.910     99.670   -.00359    .02491    -.00130   -.03561    -.01712    -.00002     .05559    3.90770  299.89000
  -198.750    198.650   -.00337    .02760    -.00204   -.04236    -.02011    -.00002     .11529    4.00750  299.93000
  -197.870    398.980   -.00951    .02344    -.00471   -.05711    -.01782    -.00001     .07748    3.35500  300.03000

                              RUN NO.  322/ 0    RN/L =    5.85

     Y          Z         CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   -99.605   -100.360   -.01747    .01596    -.00366   -.03671    -.01435    -.00001     .04835    4.00990  300.18000
   -99.441      -.126   -.00643    .01490    -.00417   -.02142    -.01070    -.00001     .04277    3.99910  300.18000
   -98.542     98.704    .00235    .01670    -.00260   -.02167    -.00916    -.00001     .07801    3.95510  299.96000
  -100.880    199.240    .00288    .01956    -.00072   -.02829    -.01161    -.00001     .07398    4.05940  300.25000
   -99.126    399.760   -.00931    .02888    -.00634   -.05618    -.01951    -.00002     .04728    3.98130  299.84000
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                              AEDC/VA528(IA87)-O1ET151-L/H SRB SEPAR.FROM O/ET         (ATU109)   ( 03 OCT 74  )

              REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                          MACH   =      4.520   PTOTL   =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                         ALPHA  =      -.400   BETA    =      5.400
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                          DALPHA =      5.000   DBETA   =      4.000
SCALE =       .0100                                                            X      =    300.000

                           RUN NO.  325/ 0    RN/L =    5.86

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -398.350   -100.680     .02075     .02353     .00927    -.06388    -.01464    -.00002    5.07440    3.95540  299.94000
   -398.640      -.668     .02177     .02293     .00771    -.05943    -.01646    -.00002    5.07160    3.98910  300.09000
   -398.750     99.454     .02399     .02261     .00595    -.05863    -.01642    -.00002    5.06030    4.00350  300.16000
   -399.910    199.100     .02410     .02243     .00508    -.05932    -.01544    -.00002    5.07660    4.04390  300.20000
   -398.500    399.820     .02574     .02221     .00296    -.05772    -.01320    -.00002    5.04050    3.98640  300.00000

                           RUN NO.  326/ 0    RN/L =    5.86

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -200.150    -98.438     .01877     .02625     .00565    -.04359    -.02077    -.00002    4.97200    4.08090  299.91000
   -198.980      -.276     .02041     .02574     .00504    -.03879    -.01575    -.00002    5.03990    3.99970  300.13000
   -198.990     99.575     .02304     .02676     .00532    -.04216    -.01557    -.00002    5.05400    3.99190  300.09000
   -200.780    199.730     .02159     .02916     .00550    -.05447    -.01769    -.00002    5.03700    4.06440  300.32000
   -198.520    400.940     .02051     .02326     .00189    -.06097    -.01770    -.00002    4.97170    3.99990  300.07000

                           RUN NO.  327/ 0    RN/L =    5.85

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -101.700    -99.317     .01072     .01720     .00068    -.02490    -.01374    -.00002    5.01130    4.07680  300.06000
    -99.972       .472     .01933     .01693     .00132    -.01950    -.01049    -.00002    5.00060    4.02900  299.87000
    -98.778    100.890     .02368     .01796     .00270    -.02681    -.00841    -.00001    5.00390    3.98000  299.77000
   -100.010    199.720     .02678     .02201     .00450    -.03897    -.00817    -.00002    5.03580    4.01170  299.99000
   -100.700    400.830     .01622     .02824     .00069    -.06327    -.01973    -.00002    5.00800    4.04030  299.97000
```

```
                                   AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET            (ATU110)    ( 03 OCT 74  )

                  REFERENCE DATA                                                                   PARAMETRIC DATA

SREF  =  2690.0000 SG.FT.   XMRP  =  1258.5000 IN. XS                          MACH   =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =        .0000 IN. YS                         ALPHA  =      -.400   BETA   =      5.400
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                          DALPHA =      5.000   DBETA  =      4.000
SCALE =        .0100                                                            X      =       .000

                             RUN NO.  330/ 0    RN/L =   5.85

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -398.660   -100.220     .02512     .02198     .00702    -.05844    -.01418    -.00002    5.04180    3.99060     .11426
   -398.710       .075     .02506     .02267     .00626    -.05783    -.01416    -.00002    5.02650    3.98940     .05568
   -398.680    100.090     .02625     .02237     .00512    -.05731    -.01415    -.00002    5.02320    3.98860    -.09505
   -399.040    200.130     .02643     .02172     .00393    -.05655    -.01407    -.00002    5.01770    3.99100    -.04328
   -398.960    399.750     .02487     .02277     .00314    -.05979    -.00923    -.00002    5.04180    3.99550     .05098

                             RUN NO.  329/ 0    RN/L =   5.86

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -197.530   -101.100     .01736     .02386     .01089    -.05772    -.02181    -.00003    5.07540    3.93280    -.05164
   -199.750     -1.564     .01966     .02579     .00861    -.05640    -.02364    -.00003    5.09050    4.04660     .05065
   -201.090     99.551     .02047     .02475     .00553    -.06044    -.02117    -.00003    5.05690    4.08890     .12292
   -201.270    199.770     .02179     .02211     .00399    -.06355    -.01763    -.00002    5.07080    4.08390     .21734
   -198.020    398.890     .02542     .02251     .00199    -.05936    -.01406    -.00002    5.06160    3.95950    -.03004

                             RUN NO.  328/ 0    RN/L =   5.86

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
    -97.502    -99.692     .01533     .02707     .00929    -.04270    -.02746    -.00004    5.01270    3.94270    -.43841
    -99.548      -.364     .02044     .02744     .00591    -.03559    -.02292    -.00003    5.03230    4.00710     .10660
    -97.368    100.650     .02229     .02916     .00542    -.04551    -.02010    -.00003    4.99760    3.91470     .16079
   -101.440    201.120     .02165     .02983     .00294    -.05734    -.02252    -.00003    4.97900    4.04720     .20465
    -99.468    399.680     .01926     .02236     .00172    -.06256    -.01509    -.00002    5.04650    3.99880     .18412
```

AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET (ATU111) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.400 BETA = 5.400
DALPHA = -5.000 DBETA = 4.000
X = .000

RUN NO. 331/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-397.940	99.033	-.03806	.02402	-.00255	-.06440	-.01157	.00000	-4.89740	3.94310	-.03205
-399.650	199.520	-.03341	.02227	-.00597	-.05898	-.01381	-.00000	-4.93770	4.03250	.15759
-398.280	400.050	-.03274	.02180	-.00707	-.05765	-.01199	-.00000	-4.96170	3.97970	.08379

RUN NO. 332/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-199.080	99.841	-.03778	.02445	-.00633	-.06185	-.02258	-.00001	-4.96410	4.00110	-.15618
-198.600	199.900	-.03937	.02409	-.00580	-.05590	-.01996	-.00001	-4.96050	3.98770	.07834
-198.890	399.800	-.03257	.02231	-.01024	-.05696	-.01545	-.00001	-4.95860	3.99650	.10918

RUN NO. 333/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-98.498	98.154	-.03621	.02562	-.00851	-.04475	-.02220	-.00002	-4.88770	3.92270	-.25534
-98.811	199.840	-.03286	02733	-.01177	-.04079	-.02684	-.00003	-4.97130	3.97120	-.17303
-100.780	401.320	-.03581	.02197	-.01179	-.05682	-.01688	-.00001	-5.00400	4.04070	.03254

AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET (ATU112) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.400 BETA = 5.400
DALPHA = -5.000 DBETA = 4.000
X = 300.000

RUN NO. 336/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-399.780	98.968	-.03206	.02236	-.00700	-.06228	-.01640	-.00001	-4.93420	4.00870	300.27000
-397.720	199.580	-.03591	.02436	-.00542	-.06197	-.01435	-.00000	-4.93590	3.94090	299.96000
-398.090	400.450	-.03336	.02231	-.00766	-.05690	-.01375	-.00000	-4.98930	3.96570	300.01000

RUN NO. 335/ 0 RN/L = 5.85

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-197.600	99.917	-.02997	.02385	-.00880	-.03985	-.01774	-.00001	-4.[illegible]200	3.92240	299.88000
-198.000	198.490	-.02948	.02660	-.00886	-.03963	-.02074	-.00001	[illegible]120	3.97280	299.83000
-198.240	398.650	-.03226	.02430	-.01280	-.05320	-.02009	-.00001	-4.99920	3.96660	299.99000

```
                                        AEDC/VA528(IA87)-O1ET1S1-L/M SRB SEPAR.FROM O/ET              (ATU112)   ( 03 OCT 74  )

             REFERENCE DATA                                                                                PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                                   MACH   =     4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES    YMRP  =        .0000 IN. YS                                  ALPHA  =     -.400   BETA   =      5.400
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                                   DALPHA =    -5.000   DBETA  =      4.000
SCALE =        .0100                                                                      X      =   300.000

                         RUN NO.  334/ 0    RN/L =   5.86

      Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF      DLTBTA      X
   -99.553     99.903    -.02621     .01521    -.00669    -.02205    -.01103    -.00001    -4.96270    4.00710  300.34000
   -99.032    199.420    -.01627     .01798    -.00740    -.02476    -.01220    -.00001    -4.96170    4.00690  300.14000
   -99.247    399.660    -.02813     .02757    -.01583    -.04974    -.02137    -.00002    -4.95420    3.97940  299.89000

                                        AEDC/VA528(IA87)-O1ET1S1-L/M SRB SEPAR.FROM O/ET              (ATU113)   ( 03 OCT 74  )

             REFERENCE DATA                                                                                PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                                   MACH   =     4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES    YMRP  =        .0000 IN. YS                                  ALPHA  =     -.400   BETA   =      5.400
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                                   DALPHA =      .000   DBETA  =      8.000
SCALE =        .0100                                                                      X      =      .000

                         RUN NO.  337/ 0    RN/L =   5.86

      Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF      DLTBTA      X
  -399.520    -99.894    -.00829     .02328     .00273    -.09374    -.01810    -.00001     .03669    7.99320     .11438
  -398.830      -.926    -.01064     .02549     .00392    -.08964    -.01826    -.00001     .10869    7.94660    -.00343
  -399.780     99.424    -.00411     .02304     .00015    -.08355    -.02054    -.00001     .07920    8.01230     .00553
  -400.780    199.530    -.00272     .02332    -.00142    -.08513    -.01918    -.00001     .05979    8.06310     .00492
  -399.420    400.130    -.00438     .02337    -.00197    -.08793    -.01602    -.00001     .03524    7.99050    -.12023

                         RUN NO.  338/ 0    RN/L =   5.86

      Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF      DLTBTA      X
  -199.990   -100.040    -.02133     .02394     .00592    -.10156    -.02723    -.00002     .03459    7.99920    -.22667
  -199.630      -.090    -.01343     .02400     .00207    -.07533    -.03361    -.00004     .02502    7.99470    -.07147
  -197.790    101.290    -.00742     .02452    -.00176    -.06914    -.03324    -.00004    -.05219    7.96040    -.12616
  -199.600    199.740    -.00275     .02206    -.00496    -.07863    -.02633    -.00002     .04255    7.99610    -.09977
  -199.750    399.840    -.00990     .02401    -.00278    -.09127    -.01804    -.00001     .04056    8.00090     .14630
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                                 AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET              (ATU114)    ( 03 OCT 74  )

          REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                          MACH   =    4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                          ALPHA  =    -.400   BETA   =     5.400
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                          CALPHA =     .000   CBETA  =     8.000
SCALE =      .0100                                                             X      =  300.000

                        RUN NO.  340/ 0    RN/L =   5.85

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -398.500   -101.900   -.00217    .02103     .00005    -.08262    -.02652    -.00002     .07155    7.97800  300.30000
  -398.970     -.003    -.00518    .02215     .00040    -.08165    -.02451    -.00002     .04920    7.95440  299.80000
  -398.370    100.040   -.00609    .02382     .00017    -.08185    -.02253    -.00002     .03638    7 94970  300.00000
  -399.270    200.260   -.00496    .02374    -.00115    -.08337    -.02124    -.00002     .02484    7.96970  300.11000
  -398.040    400.270   -.00543    .02334    -.00213    -.08737    -.01724    -.00001     .02921    7.91160  299.86000

                        RUN NO.  339/ 0    RN/L =   5.86

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -198.440   -100.280   -.01732    .02337    -.00022    -.06853    -.02861    -.00003     .04467    7.96740  299.87000
  -200.700      .374    -.00905    .02252    -.00192    -.05225    -.02499    -.00002     .04002    8.03010  300.09000
  -197.280     99.579    .00020    .02402    -.00268    -.04962    -.02363    -.00003     .05662    7.91450  299.59000
  -198.850    198.710   -.00147    .02676    -.00383    -.06286    -.02583    -.00003     .09798    8.02790  299.75000
  -200.000    400.680   -.01049    .02554    -.00517    -.09204    -.02143    -.00001    -.00341    8.07320  300.27000

                                 AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET              (ATU115)    ( 03 OCT 74  )

          REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                          MACH   =    4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                          ALPHA  =    -.400   BETA   =     5.400
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                          CALPHA =    5.000   CBETA  =     8.000
SCALE =      .0100                                                             X      =  300.000

                        RUN NO.  341/ 0    RN/L =   5.85

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -400.090   -100.460    .02435    .02321     .00758    -.08673    -.02284    -.00002    5.06600    8.00890  300.07000
  -400.080     -.590     .02544    .02448     .00660    -.08636    -.02233    -.00003    5.08030    8.01610  300.01000
  -399.650     99.535    .02793    .02418     .00466    -.08774    -.02127    -.00002    5.05920    8.01960  300.06000
  -400.490    199.280    .02757    .02425     .00399    -.09165    -.01964    -.00002    5.06490    8.04840  300.25000
  -399.040    399.880    .02760    .02406     .00274    -.09079    -.01725    -.00002    5.04160    7.98750  300.02000
```

```
                                AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET             (ATU115)    ( 03 OCT 74  )

             REFERENCE DATA                                                                     PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                              MACH   =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                             ALPHA  =      -.400   BETA   =      5.400
BREF  =  1290.3000 INCHES    ZMRP  =    400.0000 IN. ZS                             DALPHA =      5.000   DBETA  =      8.000
SCALE =       .0100                                                                 X      =    300.000

                     RUN NO.  342/ 0    RN/L =   5.85

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF     DLTBTA     X
   -199.940    -98.276     .01529      .02430      .00559     -.05737     -.02845     -.00003     4.98380    8.05300  299.64000
   -200.320     -.204      .02492      .02503      .00358     -.05149     -.02326     -.00003     5.03830    8.02170  300.16000
   -199.190    99.538      .03041      .02646      .00332     -.06066     -.02089     -.00003     5.04710    7.95970  300.03000
   -201.830   199.620      .02861      .03005      .00401     -.07911     -.02229     -.00003     5.04690    8.06640  300.46000
   -200.580   401.170      .02006      .02559      .00114     -.09684     -.02183     -.00002     4.96760    8.02320  300.16000

                                AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET             (ATU116)    ( 03 OCT 74  )

             REFERENCE DATA                                                                     PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                              MACH   =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                             ALPHA  =      -.400   BETA   =      5.400
BREF  =  1290.3000 INCHES    ZMRP  =    400.0000 IN. ZS                             DALPHA =      5.000   DBETA  =      8.000
SCALE =       .0100                                                                 X      =       .000

                     RUN NO.  344/ 0    RN/L =   5.86

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF     DLTBTA     X
   -397.770   -100.190     .02239      .02522      .00891     -.08898     -.01885     -.00002     5.04370    7.98230     .26202
   -398.670      .667      .02822      .02376      .00529     -.08518     -.02035     -.00002     4.99020    8.01080     .04933
   -397.770    100.130     .02845      .02401      .00444     -.08719     -.01885     -.00002     5.02010    7.95790    -.01738
   -398.680    200.000     .02773      .02448      .00393     -.08981     -.01745     -.00002     5.02950    7.96980     .00681
   -397.490    400.200     .02754      .02460      .00265     -.09148     -.01359     -.00002     5.02060    7.90710    -.34925

                     RUN NO.  343/ 0    RN/L =   5.86

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF     DLTBTA     X
   -199.040   -101.420     .01701      .02238      .01060     -.07416     -.03316     -.00004     5.10650    7.97360     .13917
   -199.520     -.199      .02422      .02593      .00610     -.07288     -.03283     -.00004     5.02940    7.99100    -.16233
   -199.630    99.879      .02708      .02676      .00302     -.08315     -.02738     -.00004     5.03300    7.99610    -.07646
   -199.670   199.990      .02491      .02395      .00259     -.09250     -.02286     -.00003     5.02680    7.99830    -.14904
   -199.380   399.810      .02471      .02437      .00211     -.09439     -.01769     -.00002     5.04060    7.99540     .05609
```

```
                          AEDC/VA528(IA87)-O1ET1S1-L/M SRB SEPAR.FROM O/ET              (ATU117)    ( 03 OCT 74  )

         REFERENCE DATA                                                                PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                           MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YS                           ALPHA  =     -.400   BETA   =     5.400
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                           CALPHA =    -5.000   CBETA  =     8.000
SCALE =       .0100                                                              X      =      .000

                    RUN NO.  345/ 0    RN/L =   5.85

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -399.850     99.521    -.04396     .02624    -.00153    -.09383    -.01765    -.00000    -4.91010    7.97830    -.04258
  -400.540    198.990    -.03869     .02466    -.00401    -.08778    -.01866    -.00001    -4.89660    8.03620    -.00281
  -399.660    399.970    -.03467     .02387    -.00752    -.08864    -.01673    -.00001    -4.96170    7.99200    -.16793

                    RUN NO.  346/ 0    RN/L =   5.85

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -199.640     99.912    -.04257     .02405    -.00662    -.07910    -.03201    -.00003    -4.97720    8.00050    -.32037
  -196.900    200.700    -.03568     .02163    -.00942    -.06997    -.03115    -.00003    -5.02800    7.92150    -.04684
  -199.530    399.710    -.03524     .02377    -.01045    -.08681    -.02019    -.00001    -4.95850    8.00140     .18731

                          AEDC/VA528(IA87)-O1ET1S1-L/M SRB SEPAR.FROM O/ET              (ATU118)    ( 03 OCT 74  )

         REFERENCE DATA                                                                PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                           MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YS                           ALPHA  =     -.400   BETA   =     5.400
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                           CALPHA =    -5.000   CBETA  =     8.000
SCALE =       .0100                                                              X      =   300.000

                    RUN NO.  348/ 0    RN/L =   5.85

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -401.840     99.047    -.03364     .02157    -.00766    -.08483    -.02491    -.00002    -4.95080    8.05870  300.64000
  -398.010    199.580    -.03597     .02368    -.00653    -.08383    -.02225    -.00001    -4.94610    7.93130  299.82000
  -397.640    400.390    -.03456     .02407    -.00833    -.08809    -.01880    -.00001    -4.98620    7.91310  299.91001

                    RUN NO.  347/ 0    RN/L =   5.86

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -198.900     99.670    -.03338     .02245    -.00829    -.05347    -.02472    -.00002    -4.93750    7.93410  299.65000
  -199.090    199.940    -.02716     .02502    -.01037    -.05382    -.02769    -.00003    -4.96540    7.99990  300.00000
  -198.960    399.780    -.03195     .02451    -.01460    -.07934    -.02625    -.00002    -4.95900    7.98200  299.91000
```

AEDC/VA528(IA87)-O1ET151-R/M SRB SEPAR.FROM O/ET (ATU119) (03 OCT 74)

REFERENCE DATA

SREF = 2000.0000 SQ.FT. XMRP = 1250.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.500 BETA = 10.900
DALPHA = .200 DBETA = .000
X = .000

RUN NO. 352/ 0 RN/L = 5.90

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
9.325	-99.937	-.00801	.03743	.01079	-.00951	.00460	.00001	.14888	.03468	-.11820
10.494	-.222	-.02708	.03803	.00816	-.02428	.00628	.00001	.15522	-.00564	.04853
10.927	99.630	-.03551	.03818	-.00002	-.02900	.00487	.00001	.15538	-.01885	.03463
10.644	199.680	-.03449	.03389	-.00823	-.03321	-.00025	.00001	.16164	-.01439	-.11159
10.535	399.840	-.01429	.02405	-.00386	-.05725	-.00769	-.00000	.16047	-.01123	-.05606

RUN NO. 351/ 0 RN/L = 5.92

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
98.970	-100.100	-.00806	.02982	.00482	-.00369	-.00878	.00003	.13659	.08084	-.06817
102.390	-1.020	-.01895	.03215	.00710	-.00545	-.05430	.00000	.21949	-.08924	-.10880
102.750	98.103	-.02035	.02978	.00301	-.01520	-.00818	-.00001	.22676	-.07817	.00685
99.874	199.940	-.01213	.02572	-.00306	-.03149	-.00706	-.00001	.13951	.00447	-.18074
99.070	399.840	-.00863	.02408	-.00059	-.04913	-.00891	-.00001	.15167	.00971	-.03750

RUN NO. 350/ 0 RN/L = 5.93

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.390	-100.120	-.00791	.02857	.00110	-.01152	-.01611	-.00001	.15265	-.00106	.04010
200.240	-.938	-.01126	.02844	.00420	-.01137	-.01591	-.00001	.19958	.01774	-.02336
200.290	100.530	-.00904	.02643	.00143	-.02020	-.01384	-.00001	.12079	-.02078	.01556
199.750	200.640	-.00037	.02483	-.00133	-.03139	-.01228	-.00002	.11153	-.00627	.01193
198.100	399.600	.00079	.02370	-.00136	-.04763	-.01300	-.00001	.14756	.05931	.08191

RUN NO. 349/ 0 RN/L = 5.93

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
399.320	-100.350	-.00276	.02427	.00030	-.04672	-.01803	-.00001	.16130	.04658	-.06841
400.210	-.253	-.00107	.02358	-.00045	-.05041	-.01397	-.00001	.15446	.01147	.04168
400.640	99.822	-.00046	.02367	-.00071	-.05075	-.01375	-.00001	.14700	.00269	-.08703
400.000	200.190	-.00058	.02338	-.00080	-.05243	-.01320	-.00001	.14875	.04489	-.00992
399.900	400.270	-.00170	.02229	-.00025	-.05732	-.01117	-.00001	.13390	.01736	.14704

```
                                   AEDC/VA528(IA87)-O1ET151-R/H SRB SEPAR.FROM O/ET            (ATU120)   ( 03 OCT 74 )

           REFERENCE DATA                                                                   PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1250.5000 IN. XS                          MACH   =     4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YS                          ALPHA  -     -.500   BETA   =     10.900
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                          DALPHA =      .200   DBETA  =       .000
SCALE =       .0190                                                             X      =   300.000

                       RUN NO.  353/ 0    RN/L =   5.91

      Y         Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA      X
   12.795   -102.420    -.01400     .03120     .00308    -.02239     .00369     .00001     .23910    -.06441  300.11000
   10.465      -.092    -.02814     .02931     .00094    -.03744     .00349     .00002     .15200    -.00172  300.00000
   10.477     99.917    -.03942     .03145     .00172    -.04744     .00065     .00002     .15101    -.00044  300.13000
   10.132    199.910    -.03395     .03410    -.00171    -.04593    -.00473     .00001     .14833     .01188  300.06000
   10.303    401.570    -.02224     .02586    -.00656    -.04964    -.00282     .00000     .09699     .01850  299.93000

                       RUN NO.  354/ 0    RN/L =   5.90

      Y         Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA      X
  101.590   -100.970    -.00789     .03443     .00421    -.00386     .00240     .00000     .17858    -.00169  299.90000
   98.298      2.022    -.01950     .03522     .00147    -.01685     .00174     .00001     .06497     .06034  300.00000
   99.100    100.900    -.03054     .03572     .00254    -.02208     .00069     .00001     .14761     .05493  300.01000
   98.447    201.690    -.02543     .03290    -.00362    -.02580    -.00262    -.00000     .06868     .08814  300.07000
  100.870    399.760    -.00867     .02410    -.00313    -.05039    -.00748    -.00001     .15404    -.00951  300.06000

                       RUN NO.  355/ 0    RN/L =   5.89

      Y         Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA      X
  199.540   -100.040    -.01513     .02796     .00010    -.00762    -.01150    -.00000     .12386     .02115  299.89000
  201.400       .008    -.01221     .02847     .00241    -.00839    -.01054    -.00001     .13005    -.03178  299.91000
  201.520     99.212    -.01484     .02783     .00374    -.01515    -.01142    -.00001     .20312    -.01855  299.98000
  202.500    200.390    -.00512     .02505    -.00059    -.02755    -.01093    -.00001     .15026    -.05208  299.95000
  199.909    398.989     .00002     .02378    -.00079    -.04485    -.01171    -.00001     .20336     .07880  300.15000

                       RUN NO.  356/ 0    RN/L =   5.89

      Y         Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA      X
  400.449   -100.110    -.00159     .02561    -.00015    -.03813    -.01840    -.00002     .14903    -.01191  299.96000
  400.820      -.154    -.00233     .02571     .00022    -.03905    -.01839    -.00002     .15543    -.01517  300.17000
  401.549    100.090    -.00047     .02386    -.00069    -.04592    -.01500    -.00001     .13876    -.06776  300.18000
  400.549    199.900     .00019     .02386    -.00117    -.04965    -.01362    -.00001     .13159    -.02839  300.01000
  399.659    399.629    -.00122     .02289    -.00043    -.05401    -.01237    -.00001     .15219    -.00930  299.96000
```

```
                         AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET          (ATU121)   ( 03 OCT 74  )

          REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                        MACH    =     4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                        ALPHA   =     -.500   BETA   =     10.900
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                        DALPHA  =     5.200   DBETA  =       .000
SCALE =       .0100                                                           X       =   300.000

                         RUN NO.  360/ 0    RN/L =   5.88

    Y         Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
    9.826    -98.597     .01511     .03146     .01110    -.04355     .00441     .00001    5.08160    -.03655  299.99000
    9.031      2.096     .00480     .03039     .00838    -.04159     .00206     .00000    5.06030     .07779  299.75000
   10.540     99.780     .00458     .03093     .00586    -.04148    -.00337    -.00001    5.14030    -.00792  300.00000
   10.441    199.740     .00939     .03185     .00252    -.04279    -.00744    -.00001    5.14350    -.00850  299.91000
    9.456    401.000     .01134     .02519    -.00157    -.04517    -.00660    -.00001    5.07590     .01921  299.78000

                         RUN NO.  359/ 0    RN/L =   5.90

    Y         Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  102.430   -101.910     .01796     .03526     .01501    -.01921     .00158     .00000    5.21290    -.06352  300.36000
  102.430     -2.613     .00695     .03654     .01329    -.02109     .00067    -.00000    5.23580    -.07327  300.46000
  100.700     99.956     .00555     .03524     .00802    -.02225    -.00091    -.00001    5.14270     .00069  300.12000
  100.690    199.810     .00734     .03119     .00089    -.02465    -.00168    -.00001    5.14000    -.00694  300.14000
  100.580    399.690     .01985     .02443     .00284    -.03752    -.01017    -.00002    5.14220    -.00374  300.11000

                         RUN NO.  358/ 0    RN/L =   5.89

    Y         Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  200.640   -100.290     .01056     .02870     .01016    -.02797    -.01003    -.00000    5.16180    -.01000  300.06000
  200.590      -.034     .00328     .02865     .01194    -.02729    -.00913    -.00000    5.17630    -.01707  299.99000
  200.280    101.300     .00531     .02723     .00818    -.02718    -.00936    -.00000    5.09030    -.00115  299.97000
  199.510    200.310     .01128     .02570     .00513    -.03170    -.01016    -.00001    5.09820     .02483  299.92000
  200.520    399.690     .02251     .02481     .00501    -.04334    -.01373    -.00002    5.15050    -.00673  300.04000

                         RUN NO.  357/ 0    RN/L =   5.88

    Y         Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  399.890   -100.690     .01516     .02614     .00950    -.04925    -.01534    -.00001    5.17670     .03374  300.21000
  400.240      -.363     .01938     .02450     .00721    -.05260    -.01326    -.00001    5.15060    -.00047  300.04000
  400.340     99.963     .02137     .02481     .00641    -.05227    -.01323    -.00001    5.15130     .00244  300.06000
  400.520    199.670     .02272     .02461     .00604    -.05402    -.01302    -.00001    5.15620     .01808  300.19000
  400.100    399.940     .02522     .02342     .00516    -.05904    -.01148    -.00001    5.14200     .00219  300.04000
```

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET (ATU122) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.500 BETA = 10.900
CALPHA = 5.200 CBETA = .000
X = .000

RUN NO. 361/ 0 RN/L = 5.88

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
10.513	-99.851	.02139	.03849	.02200	-.02182	.00661	-.00001	5.14790	.00426	-.09764
10.465	.124	.01168	.03777	.01311	-.02340	.00510	-.00001	5.13640	.00543	-.03366
10.007	100.060	.00971	.03668	.00190	-.03082	.00298	-.00001	5.14070	.01602	.03334
10.953	199.820	.00319	.03199	-.00415	-.03139	.00144	-.00000	5.13970	-.01637	.13338
9.987	397.640	.01835	.02457	.00248	-.04270	-.00874	-.00001	5.22630	.03467	.36461

RUN NO. 362/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.410	-99.891	.01390	.02862	.01521	-.02981	-.00404	-.00001	5.13550	.00702	-.11833
101.520	1.797	.00590	.03007	.01289	-.02382	-.00249	-.00000	5.08620	-.03236	-.16006
100.620	99.713	.00768	.02775	.00546	-.02481	-.00305	-.00000	5.14540	-.00942	-.01657
100.600	199.740	.01079	.02594	.00283	-.02965	-.00704	-.00001	5.14120	-.00760	.06024
101.060	399.810	.02269	.02462	.00408	-.04059	-.01315	-.00002	5.15150	-.01495	.03561

RUN NO. 363/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.050	-101.180	.00459	.02773	.01178	-.03362	-.01203	-.00000	5.18870	.00974	.11161
200.970	-.844	.00561	.02619	.00922	-.03244	-.01064	-.00000	5.17660	-.02729	.11286
201.920	99.865	.00824	.02630	.00699	-.03241	-.01132	-.00001	5.14310	-.04935	.20377
203.320	200.500	.01440	.02547	.00581	-.03597	-.01240	-.00001	5.14110	-.08964	.21222
199.390	399.180	.02341	.02486	.00525	-.04827	-.01433	-.00002	5.17360	.03952	.24799

RUN NO. 364/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.620	-100.200	.02160	.02384	.00632	-.05626	-.01199	-.00001	5.15160	-.00849	.03651
399.710	-.292	.02196	.02431	.00638	-.05496	-.01257	-.00001	5.15160	.01213	-.02512
401.290	99.934	.02305	.02451	.00609	-.05480	-.01277	-.00001	5.15220	-.01685	.21661
400.340	199.890	.02394	.02426	.00554	-.05575	-.01256	-.00001	5.14270	-.00470	.04575
400.870	399.900	.02560	.02287	.00465	-.05996	-.01040	-.00001	5.12700	-.05044	.14582

```
                                   AEDC/VA528(IA87)-O1ET151-R/H SRB SEPAR.FROM O/ET            (ATU123)   ( 03 OCT 74  )

              REFERENCE DATA                                                                   PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                               MACH    =      4.520  PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                               ALPHA   =      -.500  BETA   =    10.900
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                               CALPHA  =     -4.900  CBETA  =      .000
SCALE =        .0100                                                                X       =       .000

                          RUN NO.  368/ 0    RN/L =   5.87

     Y          Z         CN          CA         CLM         CY          CYN         CBL       DLTALF      DLTBTA       X
   10.013     99.477    -.07711     .03937     -.00703     -.01587      .00433      .00003   -4.83530      .01502    -.05280
   11.003    199.440    -.09019     .03812     -.00922     -.02625      .00081      .00003   -4.83600     -.01379    -.15152
   10.563    399.660    -.06188     .02665     -.00646     -.05446     -.01058      .00001   -4.83350     -.01688    -.27143

                          RUN NO.  367/ 0    RN/L =   5.87

     Y          Z         CN          CA         CLM         CY          CYN         CBL       DLTALF      DLTBTA       X
  100.330     99.877    -.05850     .03130     -.00100     -.02236     -.00636      .00001   -4.85950     -.00500    -.01801
  105.000    199.640    -.06437     .02974     -.00022     -.02502     -.01054      .00000   -4.78900     -.06655     .26447
  100.680    401.750    -.04605     .02526     -.00509     -.05760     -.00834      .00000   -4.90730     -.02316     .07647

                          RUN NO.  366/ 0    RN/L =   5.88

     Y          Z         CN          CA         CLM         CY          CYN         CBL       DLTALF      DLTBTA       X
  200.620    100.050    -.03405     .02835      .00031     -.02631     -.01467     -.00001   -4.85850     -.00808    -.06049
  200.040    201.000    -.03459     .02625     -.00213     -.03827     -.01357     -.00001   -4.89620     -.00046     .08931
  199.500    400.230    -.03466     .02458     -.00322     -.05819     -.00907     -.00000   -4.88180     -.04318    -.23740

                          RUN NO.  365/ 0    RN/L =   5.87

     Y          Z         CN          CA         CLM         CY          CYN         CBL       DLTALF      DLTBTA       X
  400.390     99.898    -.02479     .02331     -.00732     -.05694     -.01205     -.00001   -4.86500      .00866     .02053
  400.580    200.290    -.02592     .02341     -.00694     -.05858     -.01153     -.00001   -4.86550      .01409     .01065
  400.070    400.100    -.02913     .02329     -.00540     -.05958     -.01111     -.00000   -4.85660      .01289     .17763
```

AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET (ATU124) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 1290.3000 INCHES
BREF = 1290.3000 INCHES
SCALE = .0100

XMRP = 1258.5000 IN. XS
YMRP = .0000 IN. YS
ZMRP = 400.0000 IN. ZS

PARAMETRIC DATA

MACH = 4.520
ALPHA = -.500
DALPHA = -4.900
X = 300.000

PTOTL = 90.200
BETA = 10.900
DBETA = .000

RUN NO. 369/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
11.701	99.014	-.07969	.02957	-.00847	-.02647	-.00308	.00002	-4.85410	-.05835	299.85000
9.771	199.840	-.08597	.03472	-.00778	-.03931	-.00378	.00002	-4.85390	.01914	299.96000
11.362	402.340	-.06851	.02902	-.01170	-.05117	-.00807	.00001	-4.94400	-.05260	300.16000

RUN NO. 370/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
102.380	98.572	-.06111	.03524	-.00919	-.01497	-.00017	.00001	-4.82680	-.06823	299.69000
97.065	200.380	-.07560	.03603	-.00585	-.02938	-.00208	.00002	-4.81920	.09723	300.00000
100.750	399.640	-.05083	.02597	-.00700	-.05565	-.00943	.00001	-4.84080	-.01396	299.99000

RUN NO. 371/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
202.770	100.650	-.04118	.02742	-.00371	-.03154	-.00729	-.00000	-4.91370	-.09104	300.12000
202.180	199.760	-.04820	.02898	-.00008	-.03833	-.01054	-.00000	-4.79690	-.00225	300.12000
200.370	397.200	-.03604	.02446	-.00387	-.05749	-.00849	.00000	-4.76510	-.01653	299.76000

RUN NO. 372/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.680	99.961	-.02254	.02445	-.00781	-.05086	-.01427	-.00001	-4.86070	-.01082	300.03000
401.170	199.840	-.02350	.02307	-.00765	-.05643	-.01170	-.00000	-4.86430	-.05510	299.98000
400.410	399.610	-.02735	.02316	-.00617	-.05927	-.01095	-.00000	-4.84490	-.01636	300.02000

```
                              AEDC/VA528(  67)-O1ET181-R/M SRB SEPAR.FROM O/ET            (ATU125)    ( 03 OCT 74  )

            REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                       MACH    =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                       ALPHA   =     -.500   BETA   =    10.900
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                       DALPHA  =      .200   DBETA  =    -4.000
SCALE =      .0100                                                          X       =      .000

                         RUN NO.  375/ 0    RN/L =   5.87

     Y         Z         CN         CA        CLM        CY        CYN        CBL       DLTALF    DLTBTA      X
  100.320  -100.150    .00023     .02655     .00340    .01764     .00383    -.00000     .16114  -4.00490   -.13806
  100.810     -.010   -.02121     .03020     .00644    .00333     .01053     .00002     .15562  -4.00690   -.09303
  100.600    99.897   -.02915     .02923     .00217   -.00762     .00867     .00002     .15367  -4.00540   -.04407
   99.978   199.970   -.02582     .02553    -.00200   -.01690     .00087     .00001     .14593  -3.99310   -.11361
  101.680   401.420   -.01711     .02367    -.00113   -.02625    -.00422    -.00000     .09210  -4.07190    .16878

                         RUN NO.  374/ 0    RN/L =   5.88

     Y         Z         CN         CA        CLM        CY        CYN        CBL       DLTALF    DLTBTA      X
  200.590  -100.210   -.00126     .02895    -.00012    .02266    -.01216    -.00001     .14150  -4.00670    .04276
  200.670    -1.226   -.01989     .02967     .00726    .01452    -.00981     .00001     .22503  -4.01990   -.10789
  200.670   100.350   -.02464     .02896     .00747    .00456    -.00785     .00001     .14745  -4.02130    .07871
  199.420   201.470   -.01734     .02542     .00176   -.00689    -.00661    -.00000     .06574  -3.99740   -.08225
  198.550   399.420   -.01124     .02349     .00107   -.01995    -.00748    -.00001     .14764  -3.94370   -.17301

                         RUN NO.  373/ 0    RN/L =   5.88

     Y         Z         CN         CA        CLM        CY        CYN        CBL       DLTALF    DLTBTA      X
  399.840   -99.771   -.00487     .02586     .00118   -.00052    -.01930    -.00002     .13122  -3.96160   -.08819
  399.180     -.909   -.00700     .02565     .00268   -.00583    -.01725    -.00002     .19381  -3.90070   -.06596
  400.830    99.756   -.00197     .02334    -.00009   -.01518    -.01216    -.00001     .14437  -4.00380    .01833
  400.900   200.170   -.00348     .02345     .00028   -.01748    -.01186    -.00001     .15855  -3.98600   -.07073
  399.990   400.260   -.00305     .02218     .00027   -.02289    -.01097    -.00001     .13029  -3.98000    .08298
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                         AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET              (ATU126)    ( 03 OCT 74  )

         REFERENCE DATA                                                                   PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                         MACH   =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                         ALPHA  =      -.500   BETA   =     10.900
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                         CALPHA =       .200   CBETA  =     -4.000
SCALE =        .0100                                                          X      =    300.000

                      RUN NO.  376/ 0    RN/L =   5.88

     Y          Z         CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  100.440   -100.170   -.00806     .03307     .00378     .01278     .01388     .00001     .14780   -3.99130  299.91000
  100.810      -.359   -.01826     .03312    -.00014    -.00736     .01204     .00002     .16344   -4.01740  300.01000
   99.074    101.420   -.02756     .03456    -.00126    -.01404     .01052     .00002     .11741   -3.93630  299.92000
   98.611    201.470   -.02763     .03249    -.00495    -.01586     .00812     .00001     .09940   -3.93210  299.91000
  100.750    399.760   -.01727     .02420    -.00242    -.02278    -.00412     .00000     .15831   -4.01770  300.00000

                      RUN NO.  377/ 0    RN/L =   5.87

     Y          Z         CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  201.620   -101.170   -.00284     .02602     .00030     .01121    -.00058    -.00000     .16594   -4.02780  300.12000
  202.200       .283   -.01535     .02679     .00117     .00850    -.00103     .00000     .10214   -4.03750  300.13000
  202.740     99.550   -.02639     .02796     .00540    -.00097    -.00151     .00001     .17614   -4.07290  300.21000
  203.010    199.600   -.02215     .02672     .00329    -.00763    -.00375     .00000     .20063   -4.08210  300.09000
  200.330    398.340   -.01178     .02350    -.00018    -.02033    -.00609    -.00001     .19923   -3.97150  300.02000

                      RUN NO.  378/ 0    RN/L =   5.88

     Y          Z         CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  400.770   -100.130   -.00352     .02574     .00036     .00154    -.01614    -.00001     .14624   -4.01040  299.94000
  400.130      -.411   -.00706     .02617     .00206     .00180    -.01725    -.00002     .17453   -3.98160  299.97000
  400.450     99.496   -.01010     .02685     .00400    -.00191    -.01678    -.00001     .17858   -4.00650  300.05000
  400.560    199.870   -.00277     .02320    -.00004    -.01527    -.01132    -.00001     .14393   -4.00080  299.99000
  400.150    399.720   -.00395     .02259     .00065    -.02102    -.01091    -.00001     .15667   -4.00040  299.94000
```

AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET (ATU127) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.500 BETA = 10.900
DALPHA = 5.200 DBETA = -4.000
X = 300.000

RUN NO. 381/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.510	-99.921	.02370	.03297	.01303	-.01023	.01403	.00000	5.15100	-3.99570	300.01000
100.290	-.013	.00961	.03493	.01010	-.01428	.01177	.00000	5.15250	-3.99270	300.06000
100.350	99.883	.00327	.03391	.00702	-.01355	.00900	.00000	5.15030	-3.99820	299.97000
100.080	199.800	.00202	.03154	.00256	-.00972	.00534	-.00000	5.14680	-3.99580	300.01000
101.920	401.210	.00782	.02386	.00271	-.01678	-.00446	-.00001	5.08670	-4.08360	299.93000

RUN NO. 380/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.490	-100.300	.02007	.02614	.00840	-.00382	-.00165	-.00000	5.16580	-4.00080	300.01000
200.540	-.020	.00875	.02742	.01138	-.00746	-.00033	.00001	5.19010	-4.02390	300.03000
199.780	101.010	.00471	.02650	.00976	-.00928	-.00167	.00000	5.11380	-3.97010	299.86000
198.760	200.700	.00572	.02557	.00657	-.01053	-.00415	-.00000	5.08500	-3.93940	299.75000
197.660	399.610	.00954	.02383	.00596	-.01674	-.00820	-.00001	5.13190	-3.89570	299.82000

RUN NO. 379/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
399.960	-99.736	.01309	.02571	.00829	-.01015	-.01455	-.00001	5.11860	-3.96560	299.95000
400.190	-.976	.01010	.02537	.01009	-.01570	-.01237	-.00001	5.18860	-3.95800	300.17000
400.890	100.150	.01537	.02369	.00693	-.02081	-.00973	-.00001	5.13780	-4.01070	300.06000
401.460	199.950	.01511	.02379	.00746	-.02257	-.01001	-.00001	5.14690	-4.01080	300.19000
400.510	399.910	.01862	.02261	.00680	-.02739	-.00958	-.00001	5.14020	-4.00050	300.02000

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET (ATU128) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.500 BETA = 10.900
DALFHA = 5.200 DBETA = -4.000
X = .000

RUN NO. 382/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
97.842	-100.910	.02225	.02719	.01424	-.01050	.00918	-.00000	5.17850	-3.91550	-.15371
100.340	1.896	.01531	.02956	.01139	-.00988	.01025	-.00000	5.07390	-4.01510	-.27509
100.550	99.620	.00727	.02769	.00628	-.00815	.00523	-.00000	5.15240	-4.00620	.09350
100.700	199.660	.00411	.02503	.00404	-.01313	-.00065	-.00000	5.14280	-4.01070	-.00183
100.610	399.730	.00842	.02388	.00469	-.01661	-.00680	-.00001	5.14680	-4.00950	.03588

RUN NO. 383/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.450	-100.700	.01839	.02799	.01039	-.00601	-.00626	.00000	5.16080	-3.99320	.04085
200.190	-1.976	.01072	.02705	.01119	-.00704	-.00487	.00000	5.22430	-3.99990	.03280
201.640	99.138	.01035	.02537	.00700	-.00896	-.00443	-.00000	5.16190	-4.05400	.19009
200.790	199.790	.00723	.02505	.00604	-.01062	-.00621	-.00000	5.13980	-4.00610	.19243
198.790	398.320	.01201	.02414	.00732	-.01892	-.01001	-.00001	5.20920	-3.92270	.13139

RUN NO. 384/ 0 RN/L = 5.88

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.640	-100.020	.01542	.02380	.00867	-.01886	-.01207	-.00001	5.14660	-4.00940	-.04407
400.930	.254	.01754	.02353	.00658	-.02200	-.01024	-.00001	5.12760	-4.04060	-.04154
400.800	99.814	.01685	.02378	.00711	-.02318	-.01010	-.00001	5.15870	-4.01430	.03333
400.030	199.780	.01747	.02340	.00710	-.02517	-.00987	-.00001	5.15350	-3.99860	-.01283
400.310	399.800	.01995	.02218	.00614	-.02934	-.00875	-.00001	5.12770	-4.02610	-.07138

```
                                    AEDC/VA528(IA87)-O1ET1S1-R/M SRB SEPAR.FROM O/ET                (ATU129)    ( 03 OCT 74  )

                 REFERENCE DATA                                                                              PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                                      MACH   =      4.520   PTOTL  =      90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                                      ALPHA  =      -.500   BETA   =      10.900
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                                      CALPHA =     -4.900   CBETA  =      -4.000
SCALE =       .0100                                                                        X      =       .000

                         RUN NO.  387/ 0    RN/L =   5.87

     Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA       X
  100.710    100.100    -.07299     .02982    -.00115     .00610     .00476     .00004   -4.85900   -4.01580     .03205
  100.760    200.000    -.07627     .02719    -.00274    -.01063     .00128     .00004   -4.85310   -4.00640     .01400
  100.940    401.070    -.05838     .02579    -.00395    -.03008    -.00426     .00002   -4.90850   -4.04470     .18666

                         RUN NO.  386/ 0    RN/L =   5.88

     Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA       X
  200.940    100.130    -.05864     .02982     .00374     .00567    -.01031     .00001   -4.86290   -4.00720     .01703
  199.990    199.940    -.06453     .03007     .00531    -.00892    -.00860     .00002   -4.83450   -4.00760    -.06370
  199.020    400.890    -.04547     .02451    -.00238    -.02635    -.00645     .00001   -4.95480   -4.00330    -.07362

                         RUN NO.  385/ 0    RN/L =   5.88

     Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA       X
  399.530     99.504    -.02632     .02467    -.00474    -.01432    -.01511    -.00001   -4.83090   -3.90700    -.06919
  401.130    200.090    -.02439     .02221    -.00608    -.02462    -.01002    -.00001   -4.85290   -4.00370    -.00922
  400.500    400.100    -.02686     .02259    -.00521    -.02585    -.01020    -.00000   -4.86000   -3.99200     .13085


                                    AEDC/VA528(IA87)-O1ET1S1-R/M SRB SEPAR.FROM O/ET                (ATU130)    ( 03 OCT 74  )

                 REFERENCE DATA                                                                              PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                                      MACH   =      4.520   PTOTL  =      90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                                      ALPHA  =      -.500   BETA   =      10.900
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                                      CALPHA =     -4.900   CBETA  =      -4.000
SCALE =       .0100                                                                        X      =    300.000

                         RUN NO.  388/ 0    RN/L =   5.87

     Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA       X
  101.070     99.595    -.06174     .03260    -.01199     .00615     .00731     .00002   -4.83460   -4.01070  300.06000
   97.912    201.010    -.07035     .03288    -.01127    -.00856     .00654     .00003   -4.85170   -3.93140  299.91000
  100.770    399.570    -.05504     .02501    -.00861    -.03141    -.00243     .00002   -4.83600   -4.01570  300.06000

                         RUN NO.  389/ 0    RN/L =   5.87

     Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA       X
  201.900    101.230    -.05692     .02623    -.00426     .00183    -.00297     .00001   -4.93170   -4.04680  300.16000
  203.620    199.940    -.06461     .02826     .00094    -.00915    -.00415     .00003   -4.80150   -4.07720  300.23000
  200.580    399.970    -.04830     .02512    -.00325    -.02766    -.00552     .00001   -4.85360   -4.00630  299.98000
```

```
                              AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET              (ATU130)   ( 03 OCT 74  )

              REFERENCE DATA                                                               PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                            MACH    =     4.520   PTOTL   =     90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                            ALPHA   =     -.500   BETA    =     10.900
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                            DALPHA  =    -4.900   DBETA   =     -4.000
SCALE =      .0100                                                               X       =   300.000

                       RUN NO.  390/ 0    RN/L =   5.87

      Y          Z          CN          CA         CLM         CY         CYN         CBL        DLTALF      DLTBTA      X
   400.550    100.010    -.03024      .02521     -.00261     -.01047   [illegible]   -.00001    -4.85970    -4.01000  299.93000
   400.550    199.540    -.03343      .02612     -.00124     -.01256   [illegible]   -.00001    -4.84120    -3.99930  300.05000
   400.600    399.830    -.02850      .02310     -.00440     -.02529   [illegible]   -.00000    -4.85630    -4.00320  300.13000

                              AEDC/VA529(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET              (ATU131)   ( 03 OCT 74  )

              REFERENCE DATA                                                               PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                            MACH    =     4.520   PTOTL   =     90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                            ALPHA   =     -.500   BETA    =     10.900
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                            DALPHA  =      .200   DBETA   =     -8.000
SCALE =      .0100                                                               X       =      .000

                       RUN NO.  392/ 0    RN/L =   5.88

      Y          Z          CN          CA         CLM         CY         CYN         CBL        DLTALF      DLTBTA      X
   200.660   -100.090    -.01286      .02438      .00425      .04618     -.00182      .00001      .14887    -8.00710    -.12694
   200.210      -.193    -.01734      .02463      .00451      .01983      .00612      .00002      .16615    -7.99370    -.22071
   199.230    101.350    -.01854      .02412      .00163      .00843      .00692      .00002      .10237    -7.98600    -.18945
   200.630    200.080    -.01887      .02414      .00128      .00577      .00315      .00001      .14522    -8.01200    -.02853
   200.840    399.910    -.01524      .02360      .00057      .00027     -.00162      .00000      .15342    -8.00950     .08909

                       RUN NO.  391/ 0    RN/L =   5.87

      Y          Z          CN          CA         CLM         CY         CYN         CBL        DLTALF      DLTBTA      X
   401.230    -98.561    -.00198      .02513     -.00085      .03509     -.01699     -.00003      .04878   [illegible]    .00472
   399.460      -.505    -.01568      .02956      .00668      .03247     -.01761     -.00001      .17596   [illegible]   -.14016
   399.650     98.892    -.01330      .02630      .00545      .02084     -.01272     -.00001      .19623    -7.92220    -.03842
   401.230    200.370    -.00934      .02387      .00224      .01016     -.00819     -.00001      .13997    -8.00040     .17978
   400.810    400.120    -.01049      .02321      .00352      .00303     -.00770     -.00001      .14194    -7.99330     .11368
```

```
                              AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET          (ATU132)   ( 03 OCT 74  )

             REFERENCE DATA                                                                 PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                      MACH   =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                     ALPHA  =      -.500   BETA   =     10.900
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                      CALPHA =       .200   DBETA  =     -8.000
SCALE =       .0100                                                        X      =    300.000

                         RUN NO.  393/ 0    RN/L =   5.88

     Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA      X
  201.220   -101.460    -.01292     .02373     .00252     .03713     .00942    -.00000     .22091   -7.96410  300.21000
  202.820      -.603    -.01527     .02390    -.00006     .01748     .01278     .00001     .15923   -8.05600  300.40000
  201.160     99.880    -.01996     .02483     .00024     .00609     .01190     .00001     .15415   -9.01530  300.15000
  200.580    199.960    -.01791     .02379    -.00195     .00020     .00725     .00001     .14619   -7.99950  300.12000
  201.350    400.010    -.01672     .02374    -.00002    -.00106    -.00018     .00000     .13624   -8.03840  300.17000

                         RUN NO.  394/ 0    RN/L =   5.88

     Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA      X
  400.390   -100.080    -.00260     .02721    -.00054     .03486    -.01166    -.00002     .14477   -8.01120  299.93000
  399.560      -.335    -.00879     .02657     .00158     .03358    -.01350    -.00001     .17566   -7.96730  299.96000
  400.640     99.978    -.02037     .02840     .00759     .02603    -.01249     .00000     .14292   -8.00350  300.00000
  400.750    200.300    -.01521     .02582     .00500     .01537    -.00871     .00000     .10715   -8.06920  300.02000
  400.490    400.180    -.01166     .02329     .00318     .00351    -.00655    -.00000     .11704   -8.02860  300.03000

                              AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET          (ATU133)   ( 03 OCT 74  )

             REFERENCE DATA                                                                 PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                      MACH   =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                     ALPHA  =      -.500   BETA   =     10.900
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                      CALPHA =      5.200   DBETA  =     -8.000
SCALE =       .0100                                                        X      =    300.000

                         RUN NO.  396/ 0    RN/L =   5.87

     Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA      X
  200.390   -100.240     .02683     .02347     .00907     .00915     .01224    -.00001    5.16100   -8.00300  299.97000
  200.970      1.295     .01563     .02564     .00849     .00473     .01345    -.00000    5.12790   -8.02760  300.03000
  198.390    101.210     .01401     .02470     .00542     .00211     .00920    -.00000    5.09480   -7.90020  299.72000
  200.650    199.630     .00940     .02431     .00575     .00187     .00408    -.00000    5.15090   -8.00740  300.08000
  200.580    399.610     .00748     .02324     .00453     .00036    -.00182    -.00000    5.14390   -8.00700  300.21000
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                              AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET          (ATU133)    ( 03 OCT 74  )

             REFERENCE DATA                                                                PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                       MACH   =     4.520   PTOTL  =    90.200
 LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                      ALPHA  =     -.500   BETA   =    10.900
 BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                       DALPHA =     5.200   DBETA  =    -8.000
 SCALE =       .0100                                                         X      =   300.000

                          RUN NO.  395/ 0    RN/L =   5.87

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   400.070    -99.315     .02080     .02712     .00482     .02353    -.01212    -.00002    5.09280   -7.95410  299. 6000
   400.030     -1.209     .01306     .02745     .00901     .01361    -.00927    -.00000    5.19890   -7.94850  300.11000
   400.550     99.675     .01680     .02441     .00557     .00654    -.00610    -.00001    5.15270   -7.99640  300.02000
   401.530    200.490     .01488     .02353     .00541     .00349    -.00582    -.00001    5.10310   -8.03260  300.10000
   400.270    399.840     .01124     .02289     .00810    -.00227    -.00640    -.00001    5.14320   -8.00020  299.93000

                              AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET          (ATU134)    ( 03 OCT 74  )

             REFERENCE DATA                                                                PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                       MACH   =     4.520   PTOTL  =    90.200
 LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                      ALPHA  =     -.500   BETA   =    10.900
 BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                       DALPHA =     5.200   DBETA  =    -8.000
 SCALE =       .0100                                                         X      =      .000

                          RUN NO.  397/ 0    RN/L =   5.87

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   201.590   -101.730     .02052     .02433     .01089     .01482     .00725    -.00001    5.22190   -8.03420     .19590
   200.920      -.204     .01473     .02490     .00893     .00961     .00696    -.00001    5.15720   -8.00480     .02414
   202.760     98.930     .01104     .02464     .00680     .00672     .00432    -.00000    5.17890   -8.08810     .39882
   200.760    199.740     .00940     .02433     .00490     .00355     .00164    -.00000    5.14410   -8.07450     .07347
   199.300    399.100     .00691     .02344     .00644     .00074    -.00412    -.00000    5.18290   -7.94790    -.04668

                          RUN NO.  398/ 0    RN/L =   5.87

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   400.830   -100.150     .01323     .02848     .00906     .01851    -.01267    -.00000    5.15130   -8.01560    -.07179
   401.740       .763     .01060     .02462     .00524     .01017    -.00824    -.00001    5.09490   -8.09050     .07845
   400.650    100.290     .01754     .02374     .00481     .00535    -.00668    -.00001    5.13920   -8.03170    -.02540
   399.920    199.520     .01390     .02377     .00633     .00325    -.00726    -.00001    5.16880   -7.98200    -.00762
   399.760    398.960     .01194     .02249     .00859    -.00421    -.00626    -.00001    5.17350   -8.01500     .03331
```

```
                                        AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET              (ATU135)   ( 03 OCT 74  )

             REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                            MACH   =     4.520   PTOTL   =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                            ALPHA  =     -.500   BETA    =    10.900
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                            DALPHA =    -4.900   DBETA   =    -8.000
SCALE =      .0100                                                               X      =      .000

                          RUN NO.  400/ 0    RN/L =   5.88

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF     DLTBTA      X
  200.300     99.856    -.06250      .02484      .00076      .03808     -.00108      .00004    -4.84820   -8.00850   -.00625
  198.830    200.850    -.06097      .02500     -.00171      .02004      .00129      .00004    -4.88260   -8.00310   -.11435
  200.540    399.780    -.05297      .02517     -.00165      .00086     -.00164      .00002    -4.84570   -8.00250    .02445

                          RUN NO.  399/ 0    RN/L =   5.87

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF     DLTBTA      X
  400.570     99.971    -.04548      .02869      .00409      .02422     -.01512      .00000    -4.86080   -7.96020    .07690
  400.620    199.800    -.04638      .02803      .00477      .01689     -.01267      .00001    -4.84890   -8.00280    .06420
  400.200    400.190    -.03431      .02383     -.00158      .00040     -.00587      .00001    -4.86220   -7.99200    .08957

                                        AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET              (ATU136)   ( 03 OCT 74  )

             REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                            MACH   =     4.520   PTOTL   =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                            ALPHA  =     -.500   BETA    =    10.900
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                            DALPHA =    -4.900   DBETA   =    -8.000
SCALE =      .0100                                                               X      =   300.000

                          RUN NO.  401/ 0    RN/L =   5.88

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF     DLTBTA      X
  203.390    100.640    -.06177      .02286     -.00700      .02946      .00559      .00003    -4.88070   -8.05750  300.40000
  201.310    199.910    -.06174      .02398     -.00523      .01381      .00521      .00003    -4.85740   -8.01320  300.24000
  201.530    400.970    -.05076      .02363     -.00574     -.00340      .00126      .00002    -4.91290   -8.05920  300.25000

                          RUN NO.  402/ 0    RN/L =   5.88

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF     DLTBTA      X
  400.560     99.990    -.04474      .02530      .00081      .02203     -.01063      .00001    -4.85850   -8.01060  300.01000
  399.660    198.680    -.05292      .02802      .00563      .01618     -.01047      .00002    -4.78950   -7.99640  299.74000
  401.910    401.020    -.03697      .02458     -.00146      .00148     -.00552      .00001    -4.95270   -8.08630  300.26000
```

```
                                   AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET            (ATU137)    ( 03 OCT 74  )

          REFERENCE DATA                                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                            MACH   =      4.520   FTOTL   =    90.200
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YS                            ALPHA  =      -.500   BETA    =    10.900
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                            DALPHA =       .200   CBETA   =      .000
SCALE =       .0100                                                               X      =       .000

                         RUN NO.  404/ 0    RN/L =   5.86

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -399.220   -100.440    -.00572     .02297     .00225    -.06659    -.01405    -.00001     .16816    -.04336     .09296
  -399.020      -.584    -.00432     .02189     .00110    -.06245    -.01592    -.00001     .17201    -.00478     .19341
  -399.140     99.653    -.00247     .02216    -.00034    -.06155    -.01586    -.00001     .15527     .00779     .18951
  -398.970    199.180    -.00212     .02219    -.00085    -.06202    -.01520    -.00001     .17682     .01014     .21308
  -399.180    400.190    -.00225     .02130    -.00246    -.06304    -.01426    -.00001     .13743     .00091     .24098

                         RUN NO.  405/ 0    RN/L =   5.86

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -198.530   -100.230    -.00483     .02340     .00[illegible]2    -.05962    -.02456    -.00002     .13435    -.00953     .15451
  -198.450       .417    -.00773     .02670     .00099    -.05579    -.02379    -.00002     .10983    -.01320     .00878
  -197.970     99.947    -.00744     .02782     .00089    -.05605    -.02222    -.00002     .13309    -.04681     .22328
  -197.630    200.480    -.00141     .02335    -.00258    -.05397    -.02261    -.00002     .10125    -.02870     .37706
  -198.370    399.830    -.00529     .02248    -.00360    -.06704    -.01611    -.00001     .14657    -.01009     .32033

                         RUN NO.  406/ 0    RN/L =   5.85

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -98.566   -100.150    -.01096     .02547    -.00026    -.04892    -.02304    -.00002     .12532    -.01640     .09166
   -93.293       .083    -.00683     .02356    -.00182    -.03307    -.01959    -.00001     .11058     .02254     .04159
   -98.614     99.948    -.00483     .02616    -.00052    -.03933    -.01791    -.00001     .12038    -.00639     .08972
   -98.498    199.870    -.00142     .02874    -.00185    -.04834    -.02234    -.00002     .12508    -.00251     .06712
   -99.652    400.030    -.01010     .02225    -.00455    -.07142    -.01648    -.00001     .11465     .00176     .05724

                         RUN NO.  407/ 0    RN/L =   5.85

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -39.757   -100.210    -.01840     .02153    -.00201    -.04252    -.01649    -.00001     .13818     .03417     .23005
   -39.334      -.203    -.00681     .01771    -.00290    -.01604    -.01138    -.00001     .12527     .02017     .23813
   -39.192     99.239     .00295     .01911    -.00076    -.02116    -.01213    -.00002     .14287     .01096     .25727
   -38.329    199.890     .00456     .02525    -.00106    -.03594    -.01837    -.00002     .12672    -.03046    -.01198
   -39.349    399.900    -.01229     .02206    -.00664    -.07301    -.01755    -.00001     .13734     .00082     .10341
```

```
                                   AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET          (ATU138)   ( 03 OCT 74  )

               REFERENCE DATA                                                               PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                           MACH    =     4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                          ALPHA   =     -.500   BETA   =     10.900
BREF  =  129C.3000 INCHES   ZMRP  =   400.0000 IN. ZS                           DALPHA  =      .200   DBETA  =       .000
SCALE =       .0100                                                             X       =   300.000

                         RUN NO.  411/ 0    RN/L =   5.87

      Y           Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA      X
  -398.900    -100.330    -.00195     .02164     .00106    -.06032    -.02076    -.00002     .15221    -.00453  300.10000
  -398.550        .137    -.00471     .02390     .00091    -.06099    -.02021    -.00002     .13804    -.01713  300.07000
  -397.830     100.200    -.00454     .02417    -.00017    -.06066    -.01906    -.00002     .12738    -.03848  300.18000
  -397.370     200.070    -.00141     .02184    -.00172    -.05968    -.01784    -.00002     .12419    -.04807  300.29000
  -398.680     400.380    -.00261     .02212    -.00285    -.06365    -.01579    -.00001     .12223    -.04027  300.16000

                         RUN NO.  410/ 0    RN/L =   5.86

      Y           Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA      X
  -201.050    -100.010    -.00785     .02071    -.00216    -.03682    -.01766    -.00001     .14974     .08512  300.10000
  -199.090        .794    -.00218     .02036    -.00302    -.03190    -.01393    -.00001     .10177     .03373  300.22000
  -198.670      99.795     .00075     .02224    -.00129    -.03563    -.01140    -.00001     .13970    -.00505  300.23000
  -199.420     200.080     .00067     .02525     .00053    -.04019    -.01541    -.00002     .13512     .02144  300.18000
  -199.670     400.050    -.00476     .02682    -.00650    -.06725    -.02070    -.00002     .12886     .02839  300.19000

                         RUN NO.  409/ 0    RN/L =   5.86

      Y           Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA      X
   -97.110    -101.140    -.01299     .01383    -.00456    -.02650    -.01126    -.00001     .19041    -.04463  300.40000
   -95.946      -1.325    -.00205     .01391    -.00389    -.01703    -.00900    -.00001     .16709    -.06863  300.03000
   -98.227      98.655     .00594     .01550    -.00246    -.02044    -.00765    -.00001     .17826    -.03609  300.23000
   -99.605     198.120     .00838     .01839     .00148    -.02918    -.00810    -.00001     .22100     .01314  300.20000
   -98.255     399.690    -.00523     .02911    -.00557    -.06650    -.01944    -.00002     .14663    -.02995  300.12000

                         RUN NO.  408/ 0    RN/L =   5.86

      Y           Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA      X
   -38.568    -100.070    -.01414     .01204    -.00702    -.02794    -.01124    -.00001     .13824    -.00762  300.12000
   -38.578       1.502    -.00368     .01258    -.00468    -.00897    -.00580    -.00001     .07307    -.07588  300.52000
   -38.570     101.260     .00693     .01433    -.00233    -.01683    -.00742    -.00001     .07105     .01217  300.16000
   -39.233     199.960     .01153     .01581     .00075    -.03127    -.00622    -.00001     .13226     .00431  300.34000
   -37.740     398.130    -.00620     .02829    -.00412    -.06507    -.01694    -.00001     .20274    -.03996  300.22000
```

RIGINAL PAGE IS
OF POOR QUALITY

```
                                         AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET            (ATU139)   ( 03 OCT 74  )

                REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                                       MACH   =      4.520  FTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                                       ALPHA  =      -.500  BETA   =     10.900
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                                       DALPHA =      5.200  DBETA  =       .000
SCALE =       .0100                                                                         X      =    300.000

                               RUN NO.   412/ 0    RN/L =    5.86

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -398.180   -100.570     .02366     .02360     .00805    -.06448    -.01842    -.00002    5.17140    -.02983   300.22000
   -399.330      -.759     .02472     .02449     .00669    -.06386    -.01926    -.00003    5.16850     .01384   299.97000
   -398.980     99.616     .02584     .02378     .00527    -.06368    -.01844    -.00002    5.15730     .00952   300.17000
   -399.570    199.080     .02674     .02249     .00446    -.06553    -.01748    -.00002    5.17050     .03533   300.26000
   -398.700    399.790     .02690     .02259     .00300    -.06798    -.01534    -.00002    5.14100    -.00718   300.17000

                               RUN NO.   413/ 0    RN/L =    5.86

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -198.790   -100.390     .01923     .02291     .00249    -.03696    -.01520    -.00002    5.14210    -.00091   300.32000
   -198.910      -.335     .02277     .02281     .00262    -.03747    -.01033    -.00002    5.14340     .00401   300.13000
   -199.100     98.523     .02672     .02344     .00505    -.03717    -.01130    -.00002    5.20240     .01235   300.25000
   -202.120    199.360     .02888     .02682     .00528    -.05489    -.01405    -.00002    5.14550     .10276   300.19000
   -198.920    399.720     .02085     .02679     .00136    -.07354    -.02034    -.00002    5.14060    -.00975   299.98000

                               RUN NO.   414/ 0    RN/L =    5.86

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -100.580    -99.208     .01118     .01529    -.00047    -.02209    -.01111    -.00001    5.10960     .06469   300.18000
    -99.097      1.833     .02137     .01576    -.00013    -.01885    -.00776    -.00001    5.04220     .02863   300.02000
    -99.698    100.850     .02700     .01639     .00393    -.02615    -.00560    -.00001    5.10200    -.07102   299.97000
    -99.075    199.790     .03138     .01983     .00550    -.04322    -.00689    -.00001    5.13970     .00892   300.22000
    -99.104    400.040     .01627     .02984     .00197    -.07554    -.01933    -.00002    5.14150    -.02112   300.04000

                               RUN NO.   415/ 0    RN/L =    5.86

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
    -38.074    -99.283     .00713     .01360    -.00209    -.01595    -.00949    -.00001    5.09480    -.03030   299.94000
    -39.164      -.284     .01559     .01426     .00161    -.01013    -.00608    -.00001    5.13220     .00859   300.16000
    -40.567     98.387     .02329     .01682     .00384    -.02913    -.00489    -.00001    5.18590     .00829   300.22000
    -39.545    198.410     .03377     .01686     .00483    -.04009    -.00582    -.00001    5.17720     .00991   300.39000
    -38.500    399.460     .01481     .02994     .00304    -.07585    -.01678    -.00002    5.14720    -.03091   300.04000
```

```
                               AEDC/VA328(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET          (ATU140)    ( 03 OCT 74  )

             REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =   1258.5000 IN. XS                        MACH   =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                        ALPHA  =      -.500   BETA   =     10.900
BREF  =  1290.3000 INCHES    ZMRP  =    400.0000 IN. ZS                        DALPHA =      5.200   DBETA  =       .000
SCALE =        .0100                                                           X      =       .000

                        RUN NO.   419/ 0    RN/L =    5.86

     Y         Z          CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA      X
  -398.910   -100.300    .02604     .02232    .00662    -.06374    -.01586    -.00002   5.14360    -.00326    .16599
  -398.160     -.036     .02632     .02306    .00608    -.06364    -.01571    -.00002   5.12870    -.01799    .20753
  -398.970    100.060    .02829     .02277    .00467    -.05307    -.01599    -.00002   5.12430    -.00043    .12986
  -398.570    199.970    .02822     .02240    .00397    -.06427    -.01529    -.00002   5.12850    -.02154    .19579
  -397.500    400.300    .02605     .02325    .00292    -.06864    -.01133    -.00002   5.11750    -.08768    .09263

                        RUN NO.   418/ 0    RN/L =    5.86

     Y         Z          CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA      X
  -198.370   -100.650    .01890     .02636    .00894    -.06047    -.02213    -.00003   5.15250    -.03212    .20161
  -198.890     -.643     .02033     .02781    .00775    -.05668    -.02283    -.00003   5.15550    -.00643    .11384
  -200.200     99.154    .02721     .02671    .00534    -.05823    -.02303    -.00003   5.17100     .07418    .02502
  -200.720    199.350    .02669     .02361    .00314    -.06969    -.01909    -.00002   5.16890     .07575    .11264
  -197.720    398.780    .02447     .02295    .00222    -.07150    -.01519    -.00002   5.16900    -.04218    .17115

                        RUN NO.   417/ 0    RN/L =    5.86

     Y         Z          CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA      X
   -98.531    -99.915    .01726     .02608    .00595    -.04026    -.02254    -.00003   5.10970    -.02367    .08314
   -98.970     -.296     .01701     .02625    .00539    -.04003    -.01670    -.00002   5.11820     .00407    .11551
   -98.732     99.421    .02402     .02717    .00562    -.04487    -.01671    -.00002   5.12330    -.01127    .31480
   -98.944    199.630    .02595     .02948    .00455    -.06171    -.02106    -.00003   5.12600    -.00966    .05799
   -98.779    399.540    .01792     .02287    .00157    -.07586    -.01635    -.00002   5.14070    -.00721    .10734

                        RUN NO.   416/ 0    RN/L =    5.86

     Y         Z          CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA      X
   -38.421   -100.100    .00856     .02177    .00222    -.02341    -.01726    -.00002   5.11320    -.02915   -.04012
   -38.724      .827     .01640     .01841    .00213    -.01686    -.01036    -.00002   5.07570     .01625   -.16701
   -39.460     99.682    .02524     .02188    .00505    -.03144    -.00862    -.00002   5.12230     .01815    .01261
   -38.133    197.830    .02660     .02761    .00557    -.05601    -.01591    -.00002   5.20990    -.01452   -.09557
   -38.953    400.340    .01745     .02309    .00065    -.07655    -.01758    -.00002   5.10360     .00706    .19983
```

```
                                    AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET           (ATU141)   ( 03 OCT 74  )

              REFERENCE DATA                                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                          MACH   =     4.520  PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                          ALPHA  =     -.500  BETA   =     10.900
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                          DALPHA =    -4.900  CBETA  =       .000
SCALE =       .0100                                                            X      =      .000

                       RUN NO.  420/ 0   RN/L =   5.86

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -398.740     99.418    -.03428     .02276    -.00475    -.06671    -.01456    -.00001   -4.83410    -.02106     .00519
  -399.540    199.400    -.03256     .02231    -.00623    -.06394    -.01550    -.00001   -4.83340     .02526     .05434
  -399.190    399.930    -.03106     .02189    -.00761    -.06427    -.01410    -.00001   -4.85860     .00398     .25482

                       RUN NO.  421/ 0   RN/L =   5.86

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -198.540     99.863    -.03516     .02608    -.00656    -.05641    -.02357    -.00002   -4.87010    -.01515    -.01732
  -198.660    199.810    -.03398     .02601    -.00616    -.05861    -.02056    -.00001   -4.86160    -.00729     .18083
  -197.320    400.910    -.02846     .02196    -.01158    -.06102    -.01847    -.00001   -4.94960    -.05549     .30417

                       RUN NO.  422/ 0   RN/L =   5.86

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   -96.538     99.028    -.02800     .02369    -.00774    -.03293    -.01904    -.00001   -4.83990    -.09009    -.06739
   -98.468    199.840    -.02720     .02769    -.00900    -.04456    -.02206    -.00002   -4.88080    -.02218    -.00962
   -99.991    400.900    -.02958     .02131    -.01344    -.06169    -.02001    -.00001   -4.90070     .03219     .12486

                       RUN NO.  423/ 0   RN/L =   5.86

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   -39.250    100.080    -.02270     .01848    -.00533    -.02023    -.01098    -.00001   -4.88390     .02087     .22023
   -37.788    199.600    -.01736     .02324    -.00743    -.02857    -.01850    -.00002   -4.87700    -.03601    -.05606
   -39.100    399.740    -.03149     .02243    -.01547    -.06305    -.02086    -.00001   -4.86540    -.00338     .08411
```

```
                              AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET          (ATU142)    ( 03 OCT 74  )

            REFERENCE DATA                                                                   PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                          MACH    =      4.520   PTOTL   =     90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                         ALPHA   =      -.500   BETA    =     10.900
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                          DALPHA  =     -4.900   DBETA   =       .000
SCALE =       .0100                                                            X       =    300.000

                         RUN NO.   427/ 0    RN/L =    5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF      DLTBTA      X
  -398.700     99.912    -.03283     .02360    -.00700    -.06343    -.01956    -.00001    -4.85790    -.00749  300.04000
  -397.320    199.540    -.03427     .02299    -.00604    -.06371    -.01698    -.00001    -4.83930    -.06992  300.13000
  -398.350    400.310    -.03162     .02273    -.00808    -.06348    -.01591    -.00001    -4.88410    -.03124  300.17000

                         RUN NO.   426/ 0    RN/L =    5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF      DLTBTA      X
  -197.110    100.160    -.02377     .02005    -.00744    -.03078    -.01380    -.00001    -4.86820    -.06923  300.21000
  -199.750    200.010    -.02115     .02363    -.00736    -.03873    -.01555    -.00001    -4.86930     .02461  300.16000
  -198.390    400.350    -.02989     .02686    -.01362    -.05848    -.02316    -.00002    -4.87300     .01373  300.31000

                         RUN NO.   425/ 0    RN/L =    5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF      DLTBTA      X
   -99.707    100.340    -.01936     .01342    -.00584    -.01586    -.00930    -.00000    -4.86560     .03080  300.29000
   -99.592    198.870    -.01063     .01681    -.00548    -.02499    -.00939    -.00001    -4.83690     .00867  300.09000
   -98.229    399.540    -.02089     .02719    -.01367    -.05306    -.02240    -.00002    -4.84950    -.03314  299.85000

                         RUN NO.   424/ 0    RN/L =    5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF      DLTBTA      X
   -37.304    100.720    -.01361     .01278    -.00648    -.01098    -.00639    -.00000    -4.89920    -.06163  300.10000
   -39.476    199.880    -.00481     .01394    -.00556    -.02166    -.00872    -.00001    -4.86880     .00513  300.15000
   -39.042    400.100    -.01929     .02655    -.01162    -.05366    -.01863    -.00001    -4.87440     .00567  300.23000
```

AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET (ATU143) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.500 BETA = 10.900
CALPHA = .200 CBETA = 4.000
X = .000

RUN NO. 428/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-399.380	-100.130	-.00598	.02319	.00192	-.09454	-.02119	-.00002	.13020	3.99750	.01704
-398.710	-.564	-.00708	.02479	.00217	-.09145	-.02129	-.00002	.19030	3.98510	.02628
-399.220	99.535	-.00249	.02385	-.00008	-.08915	-.02155	-.00002	.17161	4.01100	-.01014
-399.420	199.340	-.00021	.02392	-.00155	-.09082	-.02067	-.00002	.16662	4.04890	.05440
-399.510	400.140	-.00252	.02432	-.00235	-.09876	-.01735	-.00001	.14125	4.00450	.12336

RUN NO. 429/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-198.880	-100.200	-.01410	.02450	.00297	-.08119	-.03151	-.00003	.13532	3.99500	-.19127
-197.400	.354	-.00827	.02643	.00032	-.06980	-.03132	-.00003	.07798	3.98240	-.03481
-198.160	99.903	-.00292	.02799	-.00060	-.07195	-.02969	-.00003	.11306	3.95840	.02361
-197.660	200.830	.00311	.02453	-.00435	-.07660	-.02869	-.00003	.08817	3.94550	.25810
-199.890	399.810	-.00750	.02456	-.00365	-.10336	-.01913	-.00001	.13986	4.00570	.05912

RUN NO. 430/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-98.953	-100.090	-.02593	.02573	.00146	-.08118	-.02737	-.00003	.11230	3.97920	-.11742
-99.559	.452	-.01388	.02270	-.00154	-.04771	-.02418	-.00002	.10721	3.99020	-.10240
-99.531	99.933	.00105	.02417	-.00167	-.04784	-.02459	-.00003	.11255	4.00760	.19008
-99.267	199.880	.00949	.02746	-.00440	-.06569	-.02802	-.00003	.12147	3.98500	-.28790
-101.020	401.380	-.01055	.02418	-.00612	-.10898	-.02030	-.00001	.08691	4.04070	.02628

```
                                   AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET              (ATU144)    ( 03 OCT 74  )

              REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                                    MACH   =     4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                                    ALPHA  =     -.500   BETA   =     10.900
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                                    DALPHA =      .200   DBETA  =      4.000
SCALE =       .0100                                                                      X      =   300.000

                          RUN NO.   433/ 0    RN/L =   5.86

      Y          Z         CN         CA        CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -398.640   -100.180   -.00146    .02233     .00026   -.08300    -.02926    -.00003     .15583    3.98910  300.14000
  -398.350       .118   -.00339    .02448     .00011   -.08236    -.02799    -.00003     .14487    3.96550  300.10000
  -398.330    100.280   -.00237    .02521    -.00134   -.08385    -.02557    -.00002     .11896    3.94900  300.02000
  -398.210    199.650    .00013    .02386    -.00164   -.08800    -.02249    -.00002     .14904    3.93460  299.95000
  -398.230    400.690   -.00262    .02414    -.00303   -.09676    -.01957    -.00001     .11703    3.94130  300.21000

                          RUN NO.   432/ 0    RN/L =   5.86

      Y          Z         CN         CA        CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -202.300    -99.426   -.01632    .02091    -.00193   -.05368    -.02232    -.00002     .13342    4.00110  300.12000
  -200.270       .890   -.00618    .01964    -.00246   -.04279    -.01898    -.00001     .11672    4.04530  300.02000
  -199.900     99.855    .00492    .02171    -.00231   -.04750    -.01637    -.00002     .14084    4.00600  300.05000
  -200.460    200.020    .01228    .02544    -.00195   -.05881    -.01930    -.00002     .13873    4.03720  300.19000
  -199.800    399.750   -.00251    .02949    -.00643   -.10062    -.02436    -.00002     .13354    4.02190  300.00000

                          RUN NO.   431/ 0    RN/L =   5.86

      Y          Z         CN         CA        CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -100.130   -100.580   -.02375    .01341    -.00501   -.04497    -.01578    -.00001     .15556    4.01360  300.09000
   -99.263      -.119   -.00432    .01459    -.00407   -.02855    -.01137    -.00001     .13078    3.99490  300.08000
   -99.438     98.034    .00823    .01529    -.00194   -.03235    -.01115    -.00001     .19219    3.99370  300.09000
  -100.120    198.280    .02066    .01806    -.00078   -.04842    -.01097    -.00001     .18777    4.00480  300.43000
   -98.894    399.740   -.00507    .03098    -.00559   -.10023    -.02335    -.00002     .14727    3.97170  299.79000
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                                  AEDC/VA528(IA87)-O1ET1S1-L/M SRB SEFAR.FROM O/ET               (ATU145)    ( 03 OCT 74  )

                REFERENCE DATA                                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                                 MACH    =      4.520   PTOTL   =     90.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                                ALPHA   =      -.500   BETA    =     10.900
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                                 DALPHA  =      5.200   DBETA   =      4.000
SCALE =        .0100                                                                   X       =    300.000

                        RUN NO.  434/ 0    RN/L =   5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -398.630   -100.600     .02609     .02426     .00691    -.08687    -.02599    -.00003    5.17790    4.00350  300.32000
  -398.900      -.578     .02876     .02661     .00521    -.08939    -.02485    -.00003    5.17120    4.01380  300.26000
  -399.370     99.766     .03006     .02616     .00401    -.09186    -.02344    -.00003    5.14710    4.02600  300.18000
  -398.900    199.130     .03067     .02392     .00378    -.09645    -.02155    -.00002    5.16410    4.03000  300.37000
  -398.600    399.830     .02695     .02496     .00309    -.10353    -.01902    -.00002    5.13760    3.98850  300.18000

                        RUN NO.  435/ 0    RN/L =   5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -200.710   -100.380     .01459     .02142     .00284    -.04752    -.02171    -.00002    5.13920    4.02890  300.07000
  -200.290      -.276     .02569     .02200     .00196    -.04731    -.01579    -.00002    5.14050    4.01720  300.00000
  -199.470     98.448     .03654     .02348     .00297    -.05506    -.01454    -.00002    5.18200    3.98250  300.18000
  -199.280    199.820     .03662     .02713     .00446    -.07661    -.01684    -.00002    5.13890    3.98750  299.96000
  -199.550    399.730     .02229     .02980     .00689    -.10898    -.02428    -.00003    5.13980    3.99290  299.86000

                        RUN NO.  436/ 0    RN/L =   5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -100.740    -97.810     .00486     .01452    -.00111    -.03418    -.01339    -.00001    5.04640    4.03860  300.00000
  -100.190      1.282     .01930     .01617     .00221    -.03063    -.01104    -.00002    5.08580    4.06690  299.88000
   -99.501     99.624     .03719     .01714     .00207    -.04424    -.00713    -.00001    5.13170    3.99820  299.96000
  -100.650    199.810     .03838     .02027     .00487    -.06691    -.00944    -.00001    5.14030    4.03250  300.12000
   -99.734    400.020     .01857     .03260     .00138    -.11042    -.02324    -.00003    5.14330    3.98230  299.90000
```

```
                                      AEDC/VA528(IA87)-O1ET151-L/H SRB SEPAR.FROM O/ET            (ATU146)   ( 03 OCT 74  )

               REFERENCE DATA                                                                         PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                                 MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                                 ALPHA  =     -.500   BETA   =    10.900
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                                 DALFHA =     5.200   DBETA  =     4.000
SCALE =       .0100                                                                   X      =      .000

                           RUN NO.   439/ 0    RN/L =   5.86

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -398.940   -100.210     .02574     .02466     .00739    -.09216    -.02140    -.00003    5.14870    4.00030     .14939
   -397.880       .289     .02961     .02447     .00505    -.09113    -.02143    -.00003    5.11120    3.98230     .10127
   -398.430     99.906     .03118     .02475     .00412    -.09287    -.02075    -.00003    5.12210    3.97740     .14925
   -398.750    199.910     .03160     .02487     .00316    -.09756    -.01902    -.00002    5.13120    3.96740    -.05974
   -397.810    400.350     .02839     .02523     .00250    -.10373    -.01536    -.00002    5.12220    3.92170    -.06942

                           RUN NO.   438/ 0    RN/L =   5.86

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -198.730   -100.100     .01930     .02631     .00833    -.07448    -.03057    -.00004    5.14370    3.98360     .20433
   -199.070      -.845     .02833     .02847     .00654    -.07047    -.03003    -.00004    5.16460    4.02870     .07794
   -199.590     98.945     .03795     .02812     .00312    -.07861    -.02796    -.00004    5.15120    4.06240    -.10403
   -198.420    199.800     .03107     .02615     .00220    -.09779    -.02454    -.00003    5.13540    3.98480     .05470
   -197.350    398.120     .02464     .02516     .00192    -.10790    -.01889    -.00002    5.19460    3.94870     .00455

                           RUN NO.   437/ 0    RN/L =   5.86

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
    -97.418    -99.715     .00677     .02501     .00639    -.05261    -.02835    -.00003    5.08470    3.92270    -.47123
   -100.130      -.129     .02020     .02355     .00414    -.04231    -.02431    -.00003    5.10220    4.01640     .10336
    -99.349     99.368     .03552     .02655     .00323    -.05933    -.02112    -.00003    5.10660    3.94480     .23249
    -98.117    199.690     .03068     .03116     .00429    -.08915    -.02387    -.00003    5.12280    3.97140     .18057
    -99.456    399.720     .01692     .02593     .00201    -.11498    -.02003    -.00002    5.14090    3.99710     .03708
```

AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET (ATU147) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.500 BETA = 10.900
DALPHA = -4.900 DBETA = 4.000
X = .000

RUN NO. 440/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-399.250	99.531	-.03961	.02579	-.00313	-.09499	-.02070	-.00002	-4.81300	4.00230	.06383
-398.990	199.070	-.03535	.02467	-.00515	-.09245	-.02038	-.00002	-4.81080	4.01240	-.06225
-398.800	399.970	-.03179	.02396	-.00806	-.09492	-.01922	-.00002	-4.85860	3.99290	.16001

RUN NO. 441/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-199.170	99.812	-.03435	.02604	-.00744	-.07138	-.03080	-.00003	-4.87890	3.98670	-.08453
-197.890	199.650	-.03155	.02608	-.00708	-.07438	-.02875	-.00003	-4.86180	3.92810	.13157
-199.690	399.660	-.02711	.02265	-.01312	-.09171	-.02356	-.00002	-4.85840	4.00170	-.15483

RUN NO. 442/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-99.865	99.964	-.03176	.02366	-.00747	-.04999	-.02316	-.00002	-4.89440	4.01190	-.07915
-99.328	199.950	-.02025	.02617	-.00983	-.05725	-.02829	-.00003	-4.89460	3.99190	-.11293
-101.020	401.240	-.02857	.02210	-.01487	-.09232	-.02580	-.00002	-4.91030	4.05680	-.04713

AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET (ATU148) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.500 BETA = 10.900
DALPHA = -4.900 DBETA = 4.000
X = 300.000

RUN NO. 445/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-398.700	99.976	-.03209	.02341	-.00816	-.08344	-.02832	-.00003	-4.85670	3.98660	299.87000
-398.420	199.810	-.03491	.02344	-.00738	-.08388	-.02509	-.00002	-4.84930	3.93390	299.78000
-398.300	400.040	-.03174	.02449	-.00864	-.09274	-.02103	-.00002	-4.86980	3.92480	300.00000

RUN NO. 444/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-198.100	100.460	-.02608	.01958	-.00690	-.04074	-.01912	-.00001	[illegible]	3.94270	299.83000
-200.680	200.070	-.01756	.02329	-.00762	-.05124	-.02059	-.00002	[illegible]	4.03750	300.11000
-201.340	400.550	-.02082	.02724	-.01568	-.08759	-.02874	-.00003	[illegible]	[illegible]	[illegible]

AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET (ATU148) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.500 BETA = 10.900
CALPHA = -4.900 CBETA = 4.000
X = 300.000

RUN NO. 443/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-100.120	100.190	-.01843	.01429	-.00685	-.03190	-.01272	-.00001	-4.87220	4.00530	300.29000
-99.381	196.140	-.00600	.01696	-.00508	-.03833	-.01269	-.00001	-4.81200	3.98540	300.08000
-99.061	399.580	-.02017	.02920	-.01326	-.08606	-.02533	-.00002	-4.84780	3.97430	299.63000

AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET (ATU149) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRF = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 90.200
ALPHA = -.500 BETA = 10.900
CALPHA = .200 CBETA = 8.000
X = .000

RUN NO. 446/ 0 RN/L = 5.87

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-400.160	-100.110	-.01117	.02310	.00303	-.11710	-.03103	-.00003	.16571	8.00250	-.10503
-399.920	-.665	-.00771	.02473	.00213	-.11199	-.03127	-.00003	.19699	8.00260	-.20195
-400.440	99.511	-.00000	.02437	-.00141	-.11160	-.03090	-.00003	.19569	8.05070	-.10063
-400.200	199.630	.00461	.02542	-.00365	-.11961	-.02773	-.00003	.14649	8.09750	.01220
-399.300	400.100	-.00193	.02719	-.00286	-.13734	-.02128	-.00002	.14035	7.99400	-.11226

RUN NO. 447/ 0 RN/L = 5.86

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-199.200	-100.150	-.02413	.02609	.00391	-.11295	-.03769	-.00005	.11281	7.99260	-.21579
-196.300	-.324	-.01313	.02581	.00133	-.08526	-.03814	-.00005	.07592	7.97600	-.38582
-199.590	99.832	.00129	.02673	-.00152	-.08442	-.03871	-.00005	.07540	8.00560	.14329
-198.320	201.130	.00909	.02550	-.00609	-.09868	-.03570	-.00004	.05710	7.92360	.47641
-200.000	399.810	-.00643	.02740	-.00474	-.14418	-.02276	-.00002	.13864	8.01000	.11208

```
                    AEDC/VA528(IA87)-O1ET1S1-L/M SRB SEPAR.FROM O/ET          (ATU150)   ( 03 OCT 74  )

          REFERENCE DATA                                                            PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                 MACH   =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                ALPHA  =      -.500   BETA   =     10.900
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                 CALPHA =       .200   DBETA  =      8.000
SCALE =       .0100                                                    X      =    300.000

                         RUN NO.  449/ 0    RN/L =   5.86

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -399.340   -100.050   -.00635    .02237     .00070    -.10249    -.03880    -.00005     .15089    7.98610  299.79000
  -397.600       .053   -.00374    .02537    -.00041    -.10041    -.03726    -.00004     .13752    7.94580  300.03000
  -398.220    100.170    .00007    .02574    -.00233    -.10339    -.03437    -.00004     .11561    7.93810  299.95000
  -398.410    199.860    .00481    .02484    -.00362    -.11008    -.03136    -.00004     .12800    7.93760  299.96000
  -399.370    399.880   -.00132    .02690    -.00402    -.13602    -.02376    -.00002     .14486    7.99890  300.12000

                         RUN NO.  448/ 0    RN/L =   5.85

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -198.920   -100.190   -.02356    .02038    -.00259    -.07040    -.02766    -.00003     .13469    7.98030  299.81000
  -199.760      1.604   -.00919    .01992    -.00237    -.05750    -.02249    -.00002     .08631    8.00720  300.13000
  -199.080     99.891    .00729    .02187    -.00163    -.05822    -.02167    -.00002     .13346    7.99130  300.22000
  -200.020    200.060    .02198    .02588    -.00318    -.07570    -.02511    -.00002     .13348    8.04260  300.16000
  -199.240    399.910   -.00329    .03217    -.00850    -.13882    -.02817    -.00003     .14404    7.98890  299.84000

                    AEDC/VA528(IA87)-O1ET1S1-L/M SRB SEPAR.FROM O/ET          (ATU151)   ( 03 OCT 74  )

          REFERENCE DATA                                                            PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                 MACH   =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                ALPHA  =      -.500   BETA   =     10.900
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                 CALPHA =      5.200   DBETA  =      8.000
SCALE =       .0100                                                    X      =    300.000

                         RUN NO.  450/ 0    RN/L =   5.86

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -399.710   -100.450    .02697    .02491     .00647    -.10562    -.03568    -.00004    5.17590    8.01380  300.02000
  -399.560      -.055    .03224    .02698     .00433    -.10799    -.03459    -.00004    5.19940    8.04620  300.24000
  -399.850    100.070    .03774    .02723     .00132    -.11708    -.031[illegible]7    -.00003    5.12830    8.07020  300.09000
  -399.360    199.300    .03658    .02745     .00232    -.13055    -.02632    -.00003    5.15510    8.03620  300.13000
  -398.910    399.860    .03958    .02813     .00242    -.14298    -.02318    -.00002    5.13[illegible]    7.98800  300.06000
```

```
                                        AEDC/VA528(IA87)-O1ET151-L/H SRB SEPAR.FROM O/ET            (ATU151)    ( 03 OCT 74  )

            REFERENCE DATA                                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                                       MACH    =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                                       ALPHA   =      -.500   BETA   =     10.900
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                                        DALPHA  =      5.200   DBETA  =      8.000
SCALE =       .0100                                                                           X       =    300.000

                              RUN NO.   451/ 0    RN/L =    5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -200.310   -100.470    .00826     .02196     .00309    -.06499    -.02529    -.00002    5.13440    8.03250  300.30000
   -199.910      -.253    .02215     .02163     .00410    -.05661    -.02064    -.00002    5.12930    8.01140  300.07000
   -200.190     98.479    .04458     .02381     .00224    -.06904    -.01897    -.00002    5.15290    7.98920  300.23000
   -202.980    198.890    .04312     .02689     .00470    -.10711    -.01903    -.00002    5.18230    8.08120  300.90000
   -199.320    399.420    .02528     .03305    -.00037    -.15020    -.02805    -.00004    5.14730    7.98710  299.69000

                                        AEDC/VA528(IA87)-O1ET151-L/H SRB SEPAR.FROM O/ET            (ATU152)    ( 03 OCT 74  )

            REFERENCE DATA                                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                                       MACH    =      4.520   PTOTL  =     90.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                                       ALPHA   =      -.500   BETA   =     10.900
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                                        DALPHA  =      5.200   DBETA  =      8.000
SCALE =       .0100                                                                           X       =       .000

                              RUN NO.   453/ 0    RN/L =    5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -400.000   -100.200    .02603     .02494     .00744    -.11461    -.03067    -.00004    5.14440    8.01260   -.03317
   -398.820       .463    .03390     .02498     .00368    -.11480    -.03017    -.00004    5.09830    7.98240   -.03085
   -398.890     99.837    .03687     .02672     .00241    -.12326    -.02638    -.00003    5.12310    7.93870   -.17547
   -399.360    199.770    .03556     .02705     .00243    -.13209    -.02400    -.00003    5.12910    7.96570   -.11995
   -398.320    400.160    .03022     .02783     .00224    -.14461    -.01917    -.00002    5.12630    7.91070   -.09888

                              RUN NO.   452/ 0    RN/L =    5.86

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -200.070   -100.360    .01127     .02494     .00986    -.08868    -.03961    -.00005    5.15470    7.97640    .05679
   -200.280     -1.015    .02691     .02713     .00589    -.08288    -.03939    -.00005    5.16100    8.08000   -.01779
   -200.530     99.355    .04030     .02900     .00141    -.09921    -.03406    -.00004    5.11420    8.09300   -.52855
   -198.060    199.790    .03657     .02923     .00162    -.12854    -.02935    -.00003    5.12890    7.98440   -.01094
   -199.270    399.730    .02558     .02813     .00072    -.15031    -.02289    -.00003    5.14260    7.95670    .20596
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                                     AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET          (ATU153)   ( 03 OCT 74  )

          REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                            MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                           ALPHA  =     -.500   BETA   =    10.900
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                            CALPHA =    -4.900   CBETA  =     8.000
SCALE =       .0100                                                              X      =      .000

                           RUN NO.  454/ 0    RN/L =   5.86

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -399.950    99.657    -.04134     .02495    -.00387    -.11287    -.03186    -.00004    -4.81370    8.01030    -.01206
  -400.280   199.030    -.03523     .02481    -.00531    -.11292    -.03098    -.00004    -4.78750    8.08340     .03582
  -399.660   399.840    -.02951     .02567    -.01016    -.12776    -.02533    -.00003    -4.85420    7.99610    -.02886

                           RUN NO.  455/ 0    RN/L =   5.86

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -199.320    99.878    -.03868     .02584    -.00647    -.08907    -.03700    -.00005    -4.90030    7. 8630    -.30230
  -199.590   200.240    -.02661     .02517    -.00980    -.08862    -.03845    -.00005    -4.93700    8.00720     .12010
  -199.780   399.690    -.02322     .02386    -.01526    -.12280    -.03067    -.00003    -4.85750    8.00500     .01916

                                     AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET          (ATU154)   ( 03 OCT 74  )

          REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                            MACH   =     4.520   PTOTL  =    90.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                           ALPHA  =     -.500   BETA   =    10.900
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                            CALPHA =    -4.900   CBETA  =     8.000
SCALE =       .0100                                                              X      =   300.000

                           RUN NO.  457/ 0    RN/L =   5.86

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -398.740    99.778    -.03402     .02450    -.00812    -.10079    -.03775    -.00004    -4.84290    7. 7490   299.62000
  -397.710   199.720    -.02960     .02342    -.00889    -.10274    -.03459    -.00004    -4.87000    7. 2540   299.86000
  -399.840   399.790    -.02845     .02557    -.01117    -.12398    -.02785    -.00003    -4.85560    8. 0650   299.95000

                           RUN NO.  456/ 0    RN/L =   5.87

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -199.390    99.868    -.02442     .01996    -.00748    -.05548    -.02282    -.00002    -4.87140    8.00360   300.16000
  -200.390   200.140    -.01156     .02372    -.00820    -.06436    -.02651    -.00003    -4.87350    8.03990   300.39000
  -199. 30   399.410    -.02099     .03026    -.01543    -.12133    -.03150    -.00003    -4.86170    8.01040   300.03000
```

```
DATE 20 MAY 75                             IA87 TABULATED SOURCE DATA                                          PAGE  383

                                 AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET                 (ATU155)    ( 03 OCT 74  )

          REFERENCE DATA                                                                       PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                          MACH   =      4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                         ALPHA  =     -5.900   BETA   =     10.800
BREF  =  1290.3000 INCHES    ZMRP  =    400.0000 IN. ZS                         DALPHA =       .200   DBETA  =       .000
SCALE =       .0100                                                             X      =       .000

                       RUN NO.  461/ 0    RN/L =   5.90

     Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA     X
   9.698   -100.030    -.03514     .03619     .00097     .00328     .00707     .00002     .18157     .07788   -.11810
  10.642      -.388    -.07080     .03878    -.00145    -.00921     .00648     .00003     .18749     .06445   -.12209
  10.168     99.545    -.08279     .03888    -.00757    -.02068     .00445     .00003     .19708     .07369   -.09113
  11.150    199.410    -.08163     .03631    -.01225    -.03185    -.00039     .00002     .21284     .06282   -.05981
  10.473    399.540    -.05857     .02515    -.00933    -.05829    -.00906     .00001     .18918     .05953   -.28561

                       RUN NO.  460/ 0    RN/L =   5.90

     Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA     X
  99.922   -100.980    -.03253     .02822    -.00208    -.00755    -.00528     .00001     .17112     .10310   -.16272
 102.320     -1.785    -.05009     .02950    -.00001    -.01475    -.00305     .00001     .20460     .06805   -.22782
 100.270    100.100    -.06520     .03092     .00030    -.02626    -.00444     .00002     .17383     .07334   -.16106
 100.830    200.060    -.05875     .02623    -.00558    -.03426    -.00659     .00001     .17919     .06781     .14716
 100.790    402.040    -.04846     .02477    -.00611    -.06044    -.00722     .00001     .10125     .03995     .00637

                       RUN NO.  459/ 0    RN/L =   5.91

     Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA     X
 201.780   -100.050    -.02710     .02735    -.00316    -.02071    -.01409    -.00000     .17928     .04884     .20584
 200.460      -.796    -.02987     .02766    -.00062    -.02360    -.01332    -.00001     .22818     .07450   -.13662
 199.460    100.280    -.03509     .02832     .00030    -.02927    -.01420    -.00001     .18991     .11244   -.05479
 199.980    201.460    -.03443     .02592    -.00392    -.04374    -.01099    -.00000     .10772     .03355   -.16471
 198.570    399.710    -.03775     .02463    -.00326    -.05993    -.00885     .00000     .17021     .07385   -.16145

                       RUN NO.  458/ 0    RN/L =   5.89

     Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA     X
 400.390   -100.110    -.02668     .02402    -.00782    -.05310    -.01423    -.00000     .17955     .09841   -.12231
 400.180      -.230    -.02690     .02369    -.00763    -.05548    -.01305    -.00000     .17441     .10700     .01607
 399.970     99.982    -.02717     .02373    -.00747    -.05781    -.01161    -.00000     .17495     .09201   -.21452
 400.880    200.060    -.02801     .02353    -.00702    -.05917    -.01122    -.00000     .17013     .07423   -.08255
 399.330    400.380    -.03050     .02319    -.00601    -.06074    -.01095     .00000     .16113     .09705     .00831
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                              AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET           (ATU156)    ( 03 OCT 74  )

           REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                            MACH    =     4.520  PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                            ALPHA   =    -5.900  BETA   =    10.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                            DALPHA  =      .200  DBETA  =      .000
SCALE =       .0100                                                               X       =   300.000

                          RUN NO.  462/ 0    RN/L =   5.89

      Y         Z         CN         CA        CLM        CY        CYN        CBL      DLTALF    DLTBTA      X
    9.586   -99.568   -.04838    .03341   -.00614   -.01144    .00719    .00002    .16246    .09614  300.01000
   10.563     -.078   -.07239    .03015   -.00953   -.01923    .00141    .00003    .18143    .07274  300.09000
   10.023    99.899   -.08187    .03054   -.00879   -.03613   -.00195    .00002    .19532    .08595  299.81000
   10.233   199.970   -.07874    .03256   -.00798   -.04536   -.00580    .00002    .19080    .09047  300.02000
   12.497   402.650   -.07232    .03151   -.01379   -.04898   -.00685    .00001    .07144   -.00068  300.04000

                          RUN NO.  463/ 0    RN/L =   5.89

      Y         Z         CN         CA        CLM        CY        CYN        CBL      DLTALF    DLTBTA      X
  100.110  -102.520   -.03395    .03310   -.00353   -.00402    .00605    .00001    .24578    .11591  299.81000
  100.740     -.599   -.05144    .03529   -.00656   -.01469    .00567    .00002    .20140    .05645  299.85000
  100.860    99.685   -.06781    .03679   -.00629   -.01947    .00103    .00002    .18870    .05823  299.97000
   97.192   200.950   -.07150    .03598   -.00813   -.03069   -.00163    .00002    .14104    .17236  299.92000
  100.790   399.650   -.05477    .02560   -.00829   -.05406   -.00806    .00001    .18368    .06052  299.95000

                          RUN NO.  464/ 0    RN/L =   5.90

      Y         Z         CN         CA        CLM        CY        CYN        CBL      DLTALF    DLTBTA      X
  200.260  -100.380   -.03121    .02770   -.00359   -.01629   -.00934   -.00000    .16739    .10712  299.95000
  201.400     -.311   -.03677    .02793   -.00224   -.02532   -.00679   -.00000    .15246    .07839  300.01000
  202.480    99.834   -.04596    .02775    .00017   -.03512   -.00590    .00000    .19205   -.00077  300.01000
  202.420   198.880   -.04820    .02860    .00034   -.04167   -.00838    .00000    .24737    .04007  299.92000
  201.020   399.900   -.04095    .02447   -.00401   -.05616   -.00851    .00000    .17880    .06209  300.16000

                          RUN NO.  465/ 0    RN/L =   5.90

      Y         Z         CN         CA        CLM        CY        CYN        CBL      DLTALF    DLTBTA      X
  400.410  -100.270   -.02513    .02491   -.00817   -.04833   -.01502   -.00001    .18454    .06854  299.93000
  400.030     -.262   -.02573    .02451   -.00753   -.04890   -.01500   -.00001    .19081    .07888  299.84000
  400.640    99.903   -.02573    .02450   -.00754   -.05110   -.01445   -.00000    .17306    .05713  299.91000
  401.180   199.730   -.02535    .02349   -.00761   -.05740   -.01139   -.00000    .16863    .01203  299.84000
  400.670   399.830   -.02871    .02306   -.00687   -.06026   -.01064    .00000    .18188    .05709  299.97000
```

AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET (ATU157) (03 OCT 74)

```
          REFERENCE DATA                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS               MACH    =     4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS               ALPHA   =    -5.900   BETA   =     10.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS               DALPHA  =     5.200   DBETA  =       .000
SCALE =       .0100                                                 X       =   300.000
```

RUN NO. 469/ 0 RN/L = 5.92

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
10.360	-98.086	-.01860	.03243	.00203	-.03008	.00815	.00002	5.12130	.01103	299.96000
10.421	-.577	-.03664	.03122	.00075	-.04289	.00372	.00003	5.20100	.06785	299.84000
10.459	99.716	-.03891	.03032	.00033	-.05207	-.00140	.00002	5.18360	.06847	299.90000
10.679	199.880	-.03244	.03111	-.00150	-.05084	-.00703	.00001	5.19220	.07229	300.00000
10.620	399.720	-.02730	.02869	-.00969	-.04814	-.00654	.00001	5.18090	.06834	300.08000

RUN NO. 468/ 0 RN/L = 5.92

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
101.790	-102.150	-.00574	.03321	.00483	-.00757	.00477	.00001	5.23490	.03625	300.17000
100.180	.002	-.02301	.03608	.00425	-.01974	.00462	.00001	5.18260	.08714	299.92000
100.630	99.897	-.02766	.03532	.00166	-.02685	.00216	.00001	5.17830	.07443	300.04000
100.080	200.110	-.02424	.03277	-.00398	-.02836	-.00141	.00000	5.18230	.08596	300.02000
101.470	402.060	-.01256	.02382	-.00475	-.05066	-.00645	.00000	5.09570	-.00099	299.87000

RUN NO. 467/ 0 RN/L = 5.91

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.420	-100.160	-.00905	.02884	.00062	-.00864	-.01080	-.00000	5.19020	.07678	299.91000
200.390	-.494	-.01363	.02774	.00300	-.01346	-.00922	-.00000	5.22370	.05126	299.95000
199.320	99.802	-.01406	.02749	.00325	-.01873	-.00997	-.00001	5.19040	.09668	299.92000
199.290	200.800	-.00646	.02484	-.00113	-.03147	-.00843	-.00001	5.11170	.06993	299.93000
198.020	399.400	-.00302	.02362	-.00121	-.04489	-.01019	-.00001	5.18180	.13945	300.03000

RUN NO. 466/ 0 RN/L = 5.92

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
399.910	-100.040	-.00342	.02576	-.00049	-.03774	-.01900	-.00001	5.16880	.07808	299.77000
399.130	-.342	-.00408	.02590	.00011	-.03945	-.01863	-.00001	5.19350	.14798	300.00000
400.040	99.832	-.00213	.02400	-.00082	-.04699	-.01476	-.00001	5.18460	.08399	299.80000
400.240	199.690	-.00121	.02391	-.00113	-.04963	-.01407	-.00001	5.18680	.09570	299.97000
400.160	399.900	-.00195	.02276	-.00129	-.05435	-.01248	-.00000	5.17280	.07401	299.82000

ORIGINAL PAGE IS OF POOR QUALITY

AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET (ATU158) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = -5.900 BETA = 10.800
DALPHA = 5.200 DBETA = .000
X = .000

RUN NO. 470/ 0 RN/L = 5.92

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
10.803	-99.853	-.01467	.03723	.01336	-.01314	.00893	.00002	5.18630	.07079	-.03665
10.206	.251	-.03274	.03801	.00698	-.02980	.00863	.00001	5.17060	.08721	-.06237
10.412	100.020	-.03433	.03666	-.00174	-.03615	.00463	.00001	5.18550	.09011	.08238
10.663	199.820	-.03280	.03334	-.00765	-.03737	.00053	.00001	5.18590	.07480	.07087
9.950	399.800	-.01619	.02360	-.00519	-.05896	-.00713	.00001	5.18040	.07996	-.04696

RUN NO. 471/ 0 RN/L = 5.92

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.200	-100.180	-.01225	.02836	.00468	-.01181	-.00528	.00001	5.18060	.08303	-.21711
101.820	.189	-.02121	.03026	.00616	-.01374	-.00300	.00000	5.19350	.01876	.02424
101.110	99.613	-.01670	.02735	-.00045	-.02453	-.00275	-.00000	5.19700	.06422	.15197
100.480	199.670	-.01445	.02525	-.00253	-.03508	-.00595	-.00000	5.18430	.07284	-.12877
96.321	398.660	-.00896	.02397	-.00126	-.05229	-.00777	-.00000	5.20880	.18112	-.17697

RUN NO. 472/ 0 RN/L = 5.92

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.410	-99.838	-.01217	.02872	.00269	-.01125	-.01633	-.00001	5.15510	.09427	-.08060
200.330	-.904	-.01120	.02827	.00358	-.01531	-.01438	-.00001	5.22460	.09023	-.15612
200.420	99.400	-.00386	.02608	.00033	-.02330	-.01253	-.00001	5.20490	.09239	-.05359
203.240	199.700	-.00139	.02432	-.00127	-.03361	-.01108	-.00001	5.19650	-.00406	-.07410
198.740	399.040	-.00109	.02353	-.00164	-.04823	-.01258	-.00001	5.19390	.17276	.08002

RUN NO. 473/ 0 RN/L = 5.92

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
396.040	-99.654	-.00363	.02382	-.00043	-.04900	-.01530	-.00001	5.15360	.14607	-.14139
400.460	-.189	-.00252	.02380	-.00078	-.05061	-.01372	-.00001	5.18250	.03956	-.27503
400.320	99.925	-.00233	.02370	-.00097	-.05121	-.01370	-.00001	5.17980	.07208	-.06524
401.110	199.780	-.00217	.02328	-.00112	-.05259	-.01324	-.00001	5.17130	.04627	.05345
400.970	399.650	-.00360	.02242	-.00066	-.05659	-.01135	-.00000	5.18250	.03270	.10143

```
                                          IA87 TABULATED SOURCE DATA
DATE 20 MAY 75                                                                              (ATU159)    ( 03 OCT 74  )
                                   AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET
                                                                                            PARAMETRIC DATA
              REFERENCE DATA
                                                                              MACH   =      4.520   PTOTL  =     91.200
SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                         ALPHA  =     -5.900   BETA   =     10.800
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                        DALPHA =     -4.800   DBETA  =       .000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                         X      =       .000
SCALE =        .0100

                         RUN NO.  477/ 0    RN/L =   5.92
      Y         Z        CN        CA        CLM       CY        CYN       CBL      DLTALF     DLTBTA      X
    9.933    99.579   -.12840    .03960   -.01650    .00748    .00347    .00002   -4.80370    .07714   -.09706
   10.046   199.740   -.14033    .03863   -.01749   -.01732    .00101    .00003   -4.79320    .08777   -.23374
   10.639   399.290   -.12080    .02837   -.00994   -.05192   -.00864    .00002   -4.78540    .06792   -.23611

                         RUN NO.  476/ 0    RN/L =   5.92
      Y         Z        CN        CA        CLM       CY        CYN       CBL      DLTALF     DLTBTA      X
  102.490    99.421   -.10563    .03112   -.00690   -.01835   -.00759    .00001   -4.85030    .02671    .04340
  100.850   200.300   -.11771    .03204   -.00376   -.03087   -.00743    .00002   -4.82990    .06102   -.02659
  100.660   402.490   -.10229    .02794   -.00579   -.05482   -.01048    .00001   -4.88720    .07806    .07309

                         RUN NO.  475/ 0    RN/L =   5.92
      Y         Z        CN        CA        CLM       CY        CYN       CBL      DLTALF     DLTBTA      X
  200.480   100.020   -.07956    .02971   -.00035   -.04028   -.01395   -.00000   -4.82360    .06426   -.15486
   99.180   200.250   -.08931    .03171    .00171   -.04457   -.01493   -.00000   -4.80980    .10616   -.11205
  200.430   399.700   -.08147    .02674   -.00489   -.06231   -.00972    .00001   -4.81980    .07111   -.12626

                         RUN NO.  474/ 0    RN/L =   5.92
      Y         Z        CN        CA        CLM       CY        CYN       CBL      DLTALF     DLTBTA      X
  400.010    99.859   -.06167    .02480   -.01138   -.06753   -.00975    .00001   -4.83010    .08832   -.10296
  400.790   200.230   -.06276    .02505   -.01097   -.06745   -.00959    .00001   -4.83200    .07127   -.12102
  400.200   400.370   -.06476    .02501   -.01011   -.06810   -.00991    .00001   -4.83650    .08498    .14859
```

AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET (ATU160) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = -5.900 BETA = 10.800
DALPHA = -4.800 CBETA = .000
X = 300.000

RUN NO. 478/ 0 RN/L = 5.91

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
10.640	100.050	-.12398	.03103	-.02104	-.01216	-.00267	.00002	-4.81390	.07593	299.94000
10.628	199.810	-.12388	.03382	-.01943	-.03650	-.00505	.00002	-4.79520	.08702	300.02000
9.829	399.810	-.12797	.03525	-.01727	-.05327	-.00441	.00003	-4.81310	.08799	299.78000

RUN NO. 479/ 0 RN/L = 5.92

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.730	97.113	-.10505	.03636	-.01778	-.00956	-.00056	.00002	-4.73200	.05765	299.40000
97.100	200.560	-.12120	.03737	-.01464	-.02094	-.00379	.00002	-4.79630	.17938	300.08000
100.630	399.620	-.11507	.02980	-.00724	-.05150	-.00939	.00002	-4.81280	.06604	299.82000

RUN NO. 480/ 0 RN/L = 5.92

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
201.740	99.997	-.08825	.02937	-.00523	-.04127	-.00736	.00001	-4.83240	.03857	299.91000
203.360	200.320	-.09644	.02937	-.00321	-.04782	-.00846	.00001	-4.82370	-.00639	299.96000
200.180	400.000	-.09376	.02803	-.00311	-.05621	-.01102	.00001	-4.82750	.07623	299.88000

RUN NO. 481/ 0 RN/L = 5.92

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.390	99.772	-.05830	.02572	-.01237	-.06326	-.01157	.00000	-4.82930	.06533	300.00000
400.650	199.710	-.05924	.02524	-.01186	-.06608	-.01029	.00001	-4.82710	.04225	299.85000
400.320	399.810	-.06316	.02507	-.01071	-.06846	-.00949	.00001	-4.79080	.06104	299.87000

```
                                        AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET        (ATU161)   ( 03 OCT 74  )

                 REFERENCE DATA                                                                     PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                              MACH    =     4.520  PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                              ALPHA   =    -5.900  BETA   =    10.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                              CALPHA  =      .200  CBETA  =    -4.000
SCALE =       .0100                                                                X       =      .000

                              RUN NO.  484/ 0    RN/L =   5.94

      Y         Z         CN        CA        CLM       CY        CYN       CBL      DLTALF    DLTBTA      X
    98.926  -101.650   -.03669    .02574   -.00296    .02771    .00035    .00001    .19831  -3.83640  -.26472
   102.050    -2.365   -.06467    .02798   -.00038    .01185    .00511    .00002    .27484  -3.94980   .09847
   100.340   100.050   -.06897    .02800   -.00383   -.00274    .00595    .00003    .19209  -3.91880   .00162
   100.380   200.050   -.06689    .02532   -.00708   -.01476    .00037    .00002    .18673  -3.92410  -.01729
   101.140   402.050   -.05245    .02432   -.00747   -.03436   -.00295    .00001    .09209  -3.96210  -.04227

                              RUN NO.  483/ 0    RN/L =   5.94

      Y         Z         CN        CA        CLM       CY        CYN       CBL      DLTALF    DLTBTA      X
   200.490  -100.120   -.03619    .02826   -.00207    .01831   -.00992   -.00001    .16683  -3.93460   .07409
   200.060     -.364   -.05189    .02861    .00228    .00858   -.00841    .00000    .21070  -3.92890  -.06312
   199.650   100.260   -.06234    .02986    .00447   -.00495   -.00629    .00001    .20335  -3.93220  -.16724
   199.680   201.310   -.05628    .02561   -.00068   -.01917   -.00449    .00001    .10241  -3.93890  -.08382
   198.080   399.790   -.04574    .02374   -.00377   -.03122   -.00466    .00001    .13700  -3.88000  -.23415

                              RUN NO.  482/ 0    RN/L =   5.94

      Y         Z         CN        CA        CLM       CY        CYN       CBL      DLTALF    DLTBTA      X
   400.880  -100.360   -.03032    .02543   -.00418   -.00842   -.01724   -.00001    .19847  -3.93180  -.02017
   399.100     -.479   -.02826    .02609   -.00495   -.00980   -.01746   -.00002    .19258  -3.82060  -.19491
   399.720    99.801   -.02666    .02286   -.00585   -.02001   -.01242   -.00001    .18692  -3.86730  -.03743
   400.970   199.940   -.02631    .02295   -.00611   -.02481   -.00976   -.00000    .18052  -3.93210   .01062
   400.010   400.360   -.02887    .02254   -.00563   -.02760   -.00987   -.00000    .16167  -3.91610   .11728
```

AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET (ATU162) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = -5.900 BETA = 10.800
DALPHA = .200 DBETA = -4.000
X = 300.000

RUN NO. 485/ 0 RN/L = 5.93

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.590	-100.390	-.04178	.03182	-.00538	.02675	.01557	.00001	.18437	-3.94000	299.88000
100.570	-.486	-.05748	.03260	-.01017	.01155	.01240	.00002	.20144	-3.93150	299.91000
100.730	99.853	-.06249	.03348	-.01117	.00085	.00814	.00002	.19352	-3.93710	299.88000
97.238	200.700	-.06388	.03311	-.01293	-.01099	.00591	.00002	.15106	-3.83720	299.72000
101.190	399.640	-.05415	.02476	-.01050	-.03185	-.00208	.00002	.17606	-3.95870	299.94000

RUN NO. 486/ 0 RN/L = 5.94

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
201.230	-101.240	-.03892	.02588	-.00373	.01135	-.00081	.00001	.20706	-3.93260	299.93000
201.970	-.431	-.04845	.02609	-.00403	.00359	-.00001	.00001	.16237	-3.96800	300.11000
202.370	100.040	-.05929	.02687	-.00153	-.00383	-.00156	.00002	.19117	-3.97330	300.12000
203.060	199.560	-.06082	.02760	-.00095	-.01280	-.00272	.00002	.23021	-3.98880	300.08000
200.470	400.050	-.04978	.02454	-.00482	-.03112	-.00393	.00001	.17310	-3.92780	300.02000

RUN NO. 487/ 0 RN/L = 5.94

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.240	-100.250	-.03456	.02575	-.00270	-.00564	-.01421	-.00001	.18670	-3.93250	299.87000
399.890	-.342	-.03408	.02523	-.00242	-.00714	-.01498	-.00001	.19254	-3.90460	299.83000
399.060	99.485	-.03637	.02650	-.00074	-.00987	-.01501	-.00001	.20231	-3.92360	299.90000
400.620	199.940	-.03456	.02563	-.00155	-.01524	-.01342	-.00001	.15769	-3.95530	299.94000
401.290	400.710	-.03165	.02309	-.00459	-.02718	-.00887	-.00000	.12965	-4.00650	300.05000

```
                                 AEDC/VA528(IA87)-O1ET181-R/H SRB SEPAR.FROM O/ET               (ATU163)    ( 03 OCT 74  )

          REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.8000 IN. XS                                   MACH   =     4.320  PTOTL  =    91.800
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                                  ALPHA  =    -5.900  BETA   =    10.000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                                   DALPHA =     5.200  DBETA  =    -4.000
SCALE =       .0100                                                                     X      =   300.000

                          RUN NO.  490/ 0    RN/L =   5.94

     Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA       X
  100.560    -99.787    -.00521     .03143     .00332     .00255     .01718     .00001    5.18530   -3.92600  300.05000
  100.920      -.139    -.02003     .03373     .00126    -.00894     .01423     .00002    5.20410   -3.91650  300.09000
  100.390     99.844    -.02636     .03408    -.00060    -.01801     .01057     .00002    5.18740   -3.91540  300.00000
  100.330    199.920    -.02476     .03256    -.00468    -.01594     .00695     .00001    5.19380   -3.90980  299.92000
  101.030    401.410    -.01658     .02347    -.00478    -.02566    -.00283     .00001    5.11470   -3.96740  299.94000

                          RUN NO.  489/ 0    RN/L =   5.94

     Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA       X
  200.640   -100.180    -.00449     .02644     .00005     .00835     .00005     .00000    5.18920   -3.92100  300.16000
  199.970       .006    -.01807     .02722     .00334     .00186    -.00037     .00001    5.21780   -3.90200  300.01000
  199.490     99.957    -.02431     .02753     .00468    -.00573    -.00057     .00001    5.19630   -3.91210  300.01000
  198.220    200.730    -.01956     .02564     .00109    -.01112    -.00307     .00000    5.12110   -3.85190  299.75000
  197.980    400.030    -.01286     .02308    -.00172    -.02310    -.00484    -.00000    5.14380   -3.86120  299.84000

                          RUN NO.  488/ 0    RN/L =   5.94

     Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA       X
  400.820    -99.561    -.00835     .02625     .00112     .00466    -.01798    -.00002    5.14250   -3.94000  299.98000
  399.480      -.212    -.01177     .02708     .00351     .00219    -.01809    -.00002    5.18960   -3.86890  299.89000
  399.670     99.315    -.00900     .02587     .00270    -.00577    -.01511    -.00002    5.21420   -3.87690  299.95000
  400.490    199.660    -.00482     .02387     .00041    -.01395    -.01216    -.00001    5.19150   -3.91260  299.99000
  400.340    399.820    -.00498     .02260    -.00015    -.02128    -.01078    -.00001    5.17890   -3.92650  299.86000
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                                   AEDC/VA528(IA87)-O1ET1S1-R/H SRD SEPAR.FROM O/ET            (ATU164)    ( 03 OCT 74  )

              REFERENCE DATA                                                                   PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                          MACH    =      4.520   PTOTL   =     91.200
 LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                         ALPHA   =     -5.900   BETA    =     10.800
 BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                          DALPHA  =      5.200   CBETA   =     -4.000
 SCALE =        .0100                                                           X       =       .000

                              RUN NO.   491/ 0    RN/L =   5.94

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF     DLTBTA       X
   100.260    -99.827    -.00690      .02526      .00484      .00121      .00722      .00001     5.18710   -3.90920    -.02089
   101.460      1.915    -.02082      .02817      .00335     -.00395      .01027      .00001     5.12780   -3.98500    -.11349
   100.350     99.640    -.02420      .02747     -.00057     -.01050      .00647      .00001     5.19790   -3.92280    -.05639
   100.160    199.620    -.02314      .02504     -.00234     -.01895      .00041      .00001     5.19200   -3.92220    -.14046
   100.450    399.790    -.01489      .02280     -.00318     -.02992     -.00302      .00000     5.18350   -3.92880    -.04425

                              RUN NO.   492/ 0    RN/L =   5.93

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF     DLTBTA       X
   200.640    -99.627    -.00708      .02787      .00236      .01331     -.00824     -.00000     5.12690   -3.90510     .02153
   201.070     -1.756    -.01996      .02935      .00716      .00564     -.00624     -.00000     5.26150   -3.90870     .23564
   202.410     99.344    -.01705      .02567      .00266     -.00459     -.00404     -.00000     5.20890   -3.98030     .25598
   202.730    199.890    -.01706      .02519      .00156     -.00978     -.00571     -.00001     5.20160   -3.98320     .16670
   199.900    390.050    -.01191      .02316      .00019     -.02206     -.00646     -.00001     5.25370   -3.86850     .13447

                              RUN NO.   493/ 0    RN/L =   5.93

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF     DLTBTA       X
   400.240   -100.140    -.01039      .02748      .00310      .00114     -.02071     -.00002     5.18890   -3.92350    -.27813
   400.280      -.187    -.00443      .02424      .00033     -.01085     -.01452     -.00001     5.18210   -3.91960    -.03119
   400.970    100.110    -.00361      .02366     -.00034     -.01588     -.01207     -.00001     5.17520   -3.97360     .03288
   400.420    199.690    -.00442      .02328     -.00008     -.01825     -.01162     -.00001     5.17430   -3.94080     .05131
   400.500    399.890    -.00437      .02212     -.00032     -.02271     -.01071     -.00001     5.17120   -3.94360     .08588
```

```
                                        AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET          (ATU165)   ( 03 OCT 74  )

            REFERENCE DATA                                                                         PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                            MACH    =     4.520  PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                           ALPHA   =    -5.900  BETA   =    10.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                            CALPHA  =    -4.800  CBETA  =    -4.000
SCALE =       .0100                                                              X       =      .000

                         RUN NO.  496/ 0    RN/L =   5.96

    Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA       X
 103.680     98.829    -.11932      .02926    -.00890     .02607    -.00153     .00003   -4.78770   -3.99340    .16845
 100.210    200.260    -.12383      .02873    -.00840     .00434    -.00146     .00004   -4.81900   -3.91930    .03452
 101.470    402.670    -.10725      .02777    -.00731    -.02223    -.00648     .00003   -4.90880   -3.95210    .20344

                         RUN NO.  495/ 0    RN/L =   5.96

    Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA       X
 200.750    100.080    -.10148      .03029    -.00107     .00563    -.01311     .00002   -4.83520   -3.93150    .05598
 200.440    199.610    -.10806      .03185     .00157    -.00704    -.00976     .00003   -4.79490   -3.97170   -.19510
 199.070    400.630    -.09500      .02731    -.00394    -.02744    -.00728     .00003   -4.91220   -3.93560   -.06832

                         RUN NO.  494/ 0    RN/L =   5.97

    Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA       X
 399.540     99.714    -.06400      .02699    -.00791    -.02432    -.01369    -.00000   -4.82170   -3.86410   -.07910
 400.520    199.810    -.06314      .02510    -.00818    -.03031    -.01079     .00000   -4.80570   -3.88530   -.00101
 399.810    400.320    -.06370      .02485    -.00880    -.03396    -.00876     .00001   -4.83540   -3.91280    .01569

                                        AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET          (ATU166)   ( 03 OCT 74  )

            REFERENCE DATA                                                                         PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                            MACH    =     4.520  PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                           ALPHA   =    -5.900  BETA   =    10.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                            CALPHA  =    -4.800  CBETA  =    -4.000
SCALE =       .0100                                                              X       =   300.000

                         RUN NO.  497/ 0    RN/L =   5.96

    Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA       X
 101.070     99.211    -.10812      .03440    -.02155     .02781     .00717     .00002   -4.78510   -3.92280  299.92000
  96.467    200.810    -.11547      .03429    -.02075     .00550     .00520     .00003   -4.81890   -3.82050  299.74000
  99.002    399.450    -.11153      .02735    -.01194    -.02314    -.00277     .00003   -4.80690   -3.91490  299.80000

                         RUN NO.  498/ 0    RN/L =   5.96

    Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA       X
 202.890    100.240    -.09802      .02757    -.01909     .00678    -.00505     .00002   -4.83700   -3.97510  300.10000
 203.110    201.960    -.10603      .02759    -.00745    -.00617    -.00585     .00003   -4.89690   -3.97780  300.29000
 200.230    399.990    -.10569      .02912    -.00295    -.02374    -.00670     .00003   -4.82800   -3.92700  299.89000
```

AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET (ATU166) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = -5.900 BETA = 10.800
DALFHA = -4.800 DBETA = -4.000
X = 300.000

RUN NO. 499/ 0 RN/L = 5.96

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.520	100.020	-.07736	.02707	-.00205	-.02380	-.01147	.00001	-4.83850	-3.93600	299.86000
399.990	199.470	-.07852	.02861	-.00070	-.02474	-.01232	.00001	-4.82140	-3.91510	299.78000
401.670	401.190	-.07002	.02510	-.00613	-.03409	-.00805	.00001	-4.89860	-4.00950	300.24000

AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET (ATU167) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALFHA = -5.900 BETA = 10.800
DALFHA = .200 DBETA = -8.000
X = .000

RUN NO. 501/ 0 RN/L = 5.96

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.720	-100.130	-.04658	.02562	-.00133	.06007	-.00539	.00000	.18207	-7.93810	-.06656
200.550	.194	-.05536	.02419	-.00050	.04342	-.00046	.00002	.17279	-7.98660	.00209
199.470	101.200	-.05915	.02457	-.00222	.02597	.00244	.00003	.14906	-7.94280	-.25754
197.950	200.730	-.05672	.02379	-.00468	.01365	.00146	.00002	.14007	-7.86770	-.38620
196.010	398.770	-.04817	.02374	-.00513	-.00630	.00041	.00001	.18252	-7.83170	-.68512

RUN NO. 500/ 0 RN/L = 5.96

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
401.370	-99.375	-.03365	.02341	-.00285	.02312	-.01257	-.00001	.13238	-7.96820	.16699
400.450	.809	-.04218	.02714	.00136	.02509	-.01476	-.00001	.11561	-7.88180	-.11930
399.730	98.519	-.04931	.02902	.00596	.01902	-.01326	-.00001	.26644	-7.81540	-.15681
399.910	199.350	-.03967	.02572	.00033	.00799	-.00843	-.00000	.22044	-7.86740	-.12557
399.960	400.450	-.03655	.02377	-.00208	-.00197	-.00530	.00000	.16193	-7.91460	-.04224

AEDC/VA528(IA87)-O1ET151-R/H SRB SEPAR.FROM O/ET (ATU168) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = -5.900 BETA = 10.800
DALPHA = .200 DBETA = -8.000
X = 300.000

RUN NO. 502/ 0 RN/L = 5.95

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
202.310	-101.770	-.04209	.02410	-.00706	.04577	.00819	.00000	.25047	-7.94960	300.22000
202.400	-.251	-.05236	.02254	-.00911	.03004	.00886	.00001	.17252	-7.95380	300.28000
203.370	101.094	-.05789	.02381	-.00758	.01789	.00842	.00002	.20465	-8.01320	300.34000
200.790	199.900	-.05605	.02322	-.00783	.00892	.00539	.00002	.18663	-7.92500	300.06000
201.510	400.530	-.05064	.02375	-.00690	-.00617	.00199	.00002	.14249	-7.97120	300.21000

RUN NO. 503/ 0 RN/L = 5.96

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.130	-100.190	-.03408	.02548	-.00423	.02583	-.00985	-.00001	.18628	-7.92990	299.81000
400.790	-.868	-.04247	.02841	-.00028	.02493	-.00985	-.00000	.22597	-7.93380	299.95000
400.600	99.240	-.04948	.02627	.00259	.01664	-.00858	.00001	.22383	-7.95270	300.01000
400.050	198.940	-.05364	.02807	.00539	.01030	-.00775	.00001	.21204	-7.93420	299.91000
400.890	401.280	-.04963	.02415	-.00150	-.00097	-.00474	.00001	.08263	-7.97380	300.09000

AEDC/VA528(IA87)-O1ET151-R/H SRB SEPAR.FROM O/ET (ATU169) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = -5.900 BETA = 10.800
DALPHA = 5.200 DBETA = -8.000
X = 300.000

RUN NO. 505/ 0 RN/L = 5.94

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.020	-100.310	-.00590	.02222	-.00010	.02233	.01162	-.00000	5.19120	-7.91530	299.94000
199.540	.638	-.01571	.02390	.00072	.00934	.01314	.00001	5.18250	-7.92290	299.87000
198.600	100.000	-.01766	.02444	-.00081	.00195	.01181	.00001	5.15410	-7.88030	299.58000
200.560	199.710	-.01820	.02365	-.00149	-.00135	.00657	.00001	5.18380	-7.92570	300.02000
200.610	399.730	-.01481	.02283	-.00211	-.00469	.00138	.00000	5.18340	-7.93140	300.03000

```
                                        AEDC/VA528(IA87)-O1ET131-R/H SRB SEPAR.FROM O/ET               (ATU169)    ( 03 OCT 74  )

            REFERENCE DATA                                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                                    MACH   =     4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                                   ALPHA  =    -5.900   BETA   =    10.800
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                                    CALPHA =     5.200   DBETA  =    -8.000
SCALE =       .0100                                                                       X      =   300.000

                              RUN NO.  304/ 0    RN/L =   5.94

     Y           Z           CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
   400.590     -99.375     -.00861     .02730     -.00049     .03383     -.01141     -.00002     5.12530    -7.92880  299.97000
   400.480        .737     -.01340     .02689      .00327     .02691     -.01089     -.00001     5.13170    -7.89460  300.03000
   400.230      98.989     -.01846     .02723      .00660     .01875     -.00891     -.00000     5.23120    -7.89890  300.10000
   400.840     199.520     -.01280     .02515      .00322     .01113     -.00698     -.00001     5.20130    -7.92030  300.14000
   400.690     399.930     -.01205     .02316      .00217     .00193     -.00569     -.00001     5.17670    -7.93140  300.10000

                                        AEDC/VA528(IA87)-O1ET131-R/H SRB SEPAR.FROM O/ET               (ATU170)    ( 03 OCT 74  )

            REFERENCE DATA                                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                                    MACH   =     4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                                   ALPHA  =    -5.900   BETA   =    10.800
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                                    CALPHA =     5.200   DBETA  =    -8.000
SCALE =       .0100                                                                       X      =      .000

                              RUN NO.  306/ 0    RN/L =   5.93

     Y           Z           CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
   201.505    -101.250     -.01030     .02359      .00382     .02535      .00565      .00001     5.23450    -7.90210     .17896
   203.030      -1.380     -.01558     .02409      .00298     .01127      .00808      .00001     5.24980    -7.99890     .38011
   203.090      98.532     -.01675     .02368      .00057     .00575      .00596      .00001     5.20280    -7.99750     .32193
   200.419     199.040     -.01796     .02387      .00016     .00125      .00357      .00001     5.18510    -7.97270    -.03697
   199.690     399.420     -.01325     .02260     -.00161     -.00405     -.00014      .00000     5.19640    -7.[illegible]140     .02001

                              RUN NO.  307/ 0    RN/L =   5.95

     Y           Z           CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
   400.990    -100.200     -.01129     .02460      .00350     .03538     -.01840     -.00002     5.19210    -7.93660    -.12896
   400.910       -.231     -.01520     .02770      .00609     .02478     -.01383     -.00001     5.19500    -7.92410     .09852
   402.020     100.760     -.01114     .02555      .00301     .01587     -.00967     -.00001     5.14390    -8.01390     .19263
   400.870     199.940     -.01107     .02380      .00222     .00815     -.00729     -.00001     5.16200    -7.97340     .12403
   401.210     399.323     -.01159     .02327      .00276     .00142     -.00698     -.00001     5.18[illegible]    -7.92720     .01931
```

```
                              AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET          (ATU171)   ( 03 OCT 74  )

          REFERENCE DATA                                                                     PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                          MACH   =     4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                         ALPHA  =    -5.900   BETA   =    10.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                          DALPHA =    -4.800   DBETA  =    -8.000
SCALE =       .0100                                                            X      =      .000

                   RUN NO.  509/ 0    RN/L =    5.95

    Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA       X
 200.590     99.882    -.11260     .02709    -.00309    .05124    -.00608    .00004   -4.81530   -7.92640    -.13107
 199.490    200.490    -.11007     .02775    -.00470    .03106    -.00181    .00004   -4.84950   -7.93360    -.23352
 200.810    399.700    -.09847     .02706    -.00577    .00093    -.00210    .00004   -4.81480   -7.92970    -.10060

                   RUN NO.  508/ 0    RN/L =    5.95

    Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA       X
 400.800    101.020    -.08669     .02776     .00158    .01571    -.01297    .00002   -4.89150   -7.92400     .12093
 400.190    199.960    -.09393     .03164     .00642    .01408    -.01313    .00003   -4.83350   -7.92430    -.10251
 399.860    400.480    -.07718     .02637    -.00312   -.00154    -.00691    .00002   -4.82910   -7.91110     .04503

                              AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FRC  O/ET          (ATU172)   ( 03 OCT 74  )

          REFERENCE DATA                                                                     PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                          MACH   =     4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                         ALPHA  =    -5.900   BETA   =    10.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                          DALPHA =    -4.800   DBETA  =    -8.000
SCALE =       .0100                                                            X      =   300.000

                   RUN NO.  510/ 0    RN/L =    5.95

    Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA       X
 202.810    100.220    -.10289     .02448    -.01527    .03896     .00481    .00002   -4.80820   -7.96120  300.31000
 200.770    200.080    -.10275     .02527    -.01465    .02315     .00451    .00003   -4.81410   -7.92930  300.08000
 202.520    401.030    -.10181     .02601    -.00860    .00671     .00026    .00004   -4.88070   -8.00270  300.30000

                   RUN NO.  511/ 0    RN/L =    5.95

    Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA       X
 400.700    100.040    -.08649     .02765    -.00219    .01953    -.01088    .00002   -4.83580   -7.93860  300.01000
 400.760    199.160    -.08987     .02662     .00020    .01259    -.00935    .00003   -4.80310   -7.96030  299.83000
 400.180    399.320    -.08961     .02799     .00141    .00299    -.00763    .00003   -4.80290   -7.94480  300.02000
```

AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET (ATU173) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = -5.900 BETA = 10.800
DALPHA = .200 DBETA = .000
X = .000

RUN NO. 513/ 0 RN/L = 5.96

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-398.560	-100.460	-.03849	.02401	-.00378	-.07790	-.01436	.00000	.19743	.03983	.11729
-399.010	-.749	-.03888	.02244	-.00464	-.06979	-.01616	-.00000	.21031	.04818	.07201
-399.210	99.920	-.03668	.02193	-.00665	-.06194	-.01771	-.00001	.17761	.09441	.00339
-399.570	199.760	-.03614	.02192	-.00682	-.06144	-.01643	-.00000	.18412	.12400	.03847
-398.950	400.350	-.03527	.02249	-.00721	-.06371	-.01361	-.00000	.16240	.07629	.27384

RUN NO. 514/ 0 RN/L = 5.96

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-198.470	-99.980	-.03231	.02337	-.00730	-.07315	-.02708	-.00002	.16715	.06203	.00577
-197.000	1.087	-.03864	.02644	-.00815	-.05827	-.02613	-.00002	.11787	.02710	-.06157
-196.890	100.160	-.03491	.02714	-.00942	-.05036	-.02409	-.00002	.14784	-.00764	.09180
-197.070	199.290	-.03238	.02618	-.00961	-.05248	-.02113	-.00001	.17450	-.02038	.09330
-198.840	399.700	-.02993	.02236	-.01061	-.05952	-.01682	-.00001	.17891	.06786	.07905

RUN NO. 515/ 0 RN/L = 5.96

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-98.632	-100.100	-.03452	.02658	-.00896	-.07002	-.02530	-.00002	.15748	.04161	-.12954
-102.110	.086	-.03640	.02357	-.01017	-.04102	-.02063	-.00002	.15662	.15118	.16700
-96.776	99.687	-.02661	.02321	-.00987	-.02520	-.01819	-.00001	.16120	.00705	.09032
-99.927	199.290	-.02439	.02763	-.01009	-.04061	-.01919	-.00001	.18562	.11692	-.48840
-100.340	400.600	-.02617	.02176	-.01330	-.05889	-.01841	-.00001	.12911	.10762	-.11455

RUN NO. 516/ 0 RN/L = 5.96

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-37.477	-100.690	-.03944	.02375	-.00882	-.06928	-.02008	-.00001	.18437	-.02691	-.18999
-38.982	.035	-.03185	.01678	-.01111	-.02925	-.01205	-.00001	.13760	.07011	.17497
-38.776	99.956	-.01794	.01677	-.00808	-.01046	-.01002	-.00001	.14657	.06261	.06806
-37.954	199.620	-.01432	.02287	-.00810	-.02829	-.01349	-.00001	.15755	.02927	.17578
-38.498	399.800	-.02987	.02538	-.01473	-.05969	-.01947	-.00001	.16560	.05744	.00669

```
                         AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET          (ATU174)    ( 03 OCT 74 )

              REFERENCE DATA                                                             PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                       MACH   =     4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                       ALPHA  =    -5.900   BETA   =    10.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                       DALPHA =      .200   DBETA  =      .000
SCALE =       .0100                                                         X      =   300.000

                         RUN NO.  520/ 0    RN/L =   5.96

     Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA     X
  -398.920   -100.110   -.03380    .02119    -.00686   -.07160   -.02300    -.00002    .17587     .06929  300.03000
  -397.820       .210   -.03548    .02360    -.00749   -.06604   -.02298    -.00002    .16282     .05025  300.03000
  -396.910    100.080   -.03674    .02494    -.00765   -.06252   -.02084    -.00001    .17357     .00218  300.09000
  -397.490    199.720   -.03625    .02426    -.00761   -.06059   -.01870    -.00001    .17958     .01220  300.22000
  -397.290    399.910   -.03374    .02233    -.00873   -.06143   -.01556    -.00000    .16217    -.00634  300.24000

                         RUN NO.  519/ 0    RN/L =   5.96

     Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA     X
  -198.620   -100.100   -.03345    .02270    -.01089   -.04960   -.02024    -.00002    .17446     .05236  299.99000
  -200.180      1.320   -.03116    .01895    -.01082   -.03076   -.01497    -.00001    .12945     .11345  300.11000
  -198.260    100.570   -.02479    .01895    -.00871   -.02460   -.01335    -.00001    .15160     .06584  300.06000
  -197.810    199.910   -.02028    .02230    -.00801   -.03376   -.01245    -.00000    .16747     .06094  300.48000
  -201.240    401.430   -.02827    .02785    -.01212   -.05665   -.01952    -.00001    .11699     .17045  300.32000

                         RUN NO.  518/ 0    RN/L =   5.96

     Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA     X
   -97.133   -100.640   -.03433    .01484    -.01171   -.04199   -.01516    -.00001    .19289     .01662  300.16000
   -98.946      -.263   -.03001    .01251    -.01051   -.01915   -.00885    -.00001    .17467     .07147  300.03000
   -97.448     97.304   -.01613    .01278    -.00734   -.01088   -.00777    -.00000    .24677     .02316  299.94000
   -99.897    198.800   -.00948    .01611    -.00647   -.02160   -.00789    -.00000    .20085     .08264  300.15000
   -98.028    399.440   -.01741    .02571    -.01012   -.04783   -.01584    -.00001    .18408     .03915  300.06000

                         RUN NO.  517/ 0    RN/L =   5.96

     Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA     X
   -39.326   -100.210   -.03618    .01291    -.01295   -.04516   -.01600    -.00001    .17311     .07245  300.05000
   -38.727      -.219   -.02568    .01276    -.01285   -.01905   -.00832    -.00001    .15892     .05509  300.21000
   -38.761     99.851   -.01096    .01245    -.00764   -.00508   -.00460    -.00000    .16062     .06324  300.14000
   -38.840    199.730   -.00403    .01429    -.00620   -.01650   -.00769    -.00001    .16667     .06160  300.12000
   -39.668    400.290   -.01125    .02259    -.00802   -.04684   -.01282    -.00001    .15610     .09088  300.05000
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                                   AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET              (ATU175)    ( 03 OCT 74  )

                 REFERENCE DATA                                                                      PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                               MACH   =     4.520   PTOTL  =      91.200
 LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                               ALPHA  =    -5.900   BETA   =      10.800
 BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                               DALPHA =     5.200   DBETA  =        .000
 SCALE =       .0100                                                                 X      =   300.000

                        RUN NO.   521/ 0     RN/L =    5.96

     Y         Z          CN          CA         CLM         CY         CYN         CBL        DLTALF      DLTBTA      X
  -399.100  -100.520    -.00671      .02187      .00042    -.06221    -.02224    -.00002    5.19440      .08210  300.18000
  -399.450     -.485    -.00718      .02436     -.00013    -.06081    -.02167    -.00002    5.19630      .09403  300.01000
  -399.470    99.381    -.00728      .02453     -.00096    -.05888    -.02080    -.00001    5.19550      .11054  300.11000
  -399.840   199.570    -.00583      .02299     -.00221    -.05867    -.01884    -.00001    5.19720      .12968  300.13000
  -398.540   399.940    -.00394      .02224     -.00313    -.06015    -.01592    -.00001    5.17570      .06335  300.01000

                        RUN NO.   522/ 0     RN/L =    5.96

     Y         Z          CN          CA         CLM         CY         CYN         CBL        DLTALF      DLTBTA      X
  -199.590  -100.320    -.00880      .02178     -.00441    -.03561    -.02005    -.00002    5.18320      .09380  300.14000
  -198.840     -.159    -.00388      .01999     -.00459    -.02718    -.01308    -.00001    5.17860      .07124  300.25000
  -197.780    98.758     .00028      .02104     -.00309    -.03186    -.00963    -.00001    5.20560     -.00406  300.18000
  -200.260   198.950     .00130      .02373     -.00131    -.03902    -.01081    -.00001    5.20990      .10844  300.21000
  -198.330   399.700    -.00403      .02771     -.00504    -.05942    -.01896    -.00001    5.18380      .05352  300.09000

                        RUN NO.   523/ 0     RN/L =    5.96

     Y         Z          CN          CA         CLM         CY         CYN         CBL        DLTALF      DLTBTA      X
   -98.432  -100.150    -.01419      .01526     -.00701    -.02776    -.01295    -.00001    5.17280      .05404  300.01000
   -99.582     1.438    -.00353      .01354     -.00576    -.01226    -.00837    -.00000    5.12540      .09711  299.90000
   -98.342   101.390     .00625      .01508     -.00394    -.01865    -.00675    -.00001    5.10040      .07202  299.97000
   -99.181   199.890     .00793      .01700     -.00031    -.02845    -.00556    -.00001    5.17040      .07638  300.14000
   -99.177   399.840    -.00187      .02603     -.00200    -.05639    -.01383    -.00001    5.17750      .07378  300.18000

                        RUN NO.   524/ 0     RN/L =    5.95

     Y         Z          CN          CA         CLM         CY         CYN         CBL        DLTALF      DLTBTA      X
   -39.380   -99.670    -.01383      .01307     -.00896    -.02922    -.01350    -.00001    5.13740      .08346  300.07000
   -39.062     -.130    -.00180      .01374     -.00807    -.01120    -.00734    -.00001    5.16960      .07346  300.18000
   -38.972    99.784     .00629      .01356     -.00187    -.00847    -.00597    -.00001    5.16620      .06732  300.14000
   -39.698   198.510     .00895      .01526      .00059    -.02658    -.00542    -.00001    5.22000      .06792  300.49000
   -38.859   399.770     .00006      .02446      .00004    -.05554    -.01104    -.00000    5.17820      .06077  300.09000
```

```
DATE 20 MAY 75                              IA87 TABULATED SOURCE DATA                                        PAGE  401

                                   AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET                (ATU178)   ( 03 OCT 74  )

                 REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                              MACH   =     4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                             ALPHA  =    -5.900   BETA   =     10.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                              DALPHA =     5.200   CBETA  =       .000
SCALE =        .0100                                                               X      =      .000

                          RUN NO.  528/ 0    RN/L =   5.97

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
  -398.890   -100.150    -.00807      .02142      .00121    -.06319     -.01818     -.00001     5.18150     .07263     .13344
  -398.420       .217    -.00674      .02154     -.00026    -.05871     -.01829     -.00001     5.15840     .06114     .02086
  -397.660     99.971    -.00631      .02175     -.00081    -.05856     -.01661     -.00001     5.16740     .02447     .04613
  -397.800    199.700    -.00627      .02247     -.00093    -.06040     -.01489     -.00001     5.17600     .02570     .16537
  -398.840    400.390    -.00324      .02090     -.00355    -.05927     -.01514     -.00001     5.14170     .07043     .06117

                          RUN NO.  527/ 0    RN/L =   5.96

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
  -199.950   -101.390    -.00515      .02430      .00115    -.05955     -.02744     -.00003     5.22090     .11011     .20046
  -200.410      -.896    -.00676      .02773     -.00101    -.05397     -.02525     -.00002     5.19770     .12419    -.00767
  -199.910     99.855    -.00643      .02754     -.00245    -.05254     -.02288     -.00002     5.18010     .11472     .00575
  -200.860    199.890    -.00460      .02449     -.00359    -.05395     -.02113     -.00002     5.17570     .16323     .04067
  -198.000    399..40    -.00467      .02215     -.00408    -.06089     -.01637     -.0000[illegible]     5.19460     .04776     .21031

                          RUN NO.  526/ 0    RN/L =   5.97

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
  -100.960   -100.540    -.01191      .02612     -.00092    -.04895     -.02681     -.00003     5.19280     .15528     .36563
   -99.440      -.091    -.00666      .02405     -.00408    -.02808     -.01979     -.00002     5.14820     .08417     .10496
   -98.808     99.795    -.00214      .02571     -.00257    -.03538     -.01538     -.00001     5.15790     .05662     .01930
  -101.360    199.760     .00051      .02772     -.00341    -.04751     -.01833     -.00002     5.15310     .14026     .11862
   -97.745    400.020    -.00756      .02225     -.00457    -.06348     -.0168[illegible]     -.00001     5.16600    -.00101     .38985

                          RUN NO.  525/ 0    RN/L =   5.97

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
   -37.595   -100.010    -.01372      .02185     -.00450    -.03977     -.02166     -.00002     5.14300     .00790    -.00925
   -40.849       .816    -.00378      .01760     -.00654    -.01415     -.01105     -.00001     5.09900     .14250    -.25763
   -39.222     99.805     .00387      .01905     -.00248    -.01861     -.00804     -.00001     5.15700     .07186     .07514
   -39.510    200.060     .00360      .02394     -.00092    -.03723     -.01116     -.00001     5.14910     .08921     .05656
   -38.723    399.720    -.01033      .02462     -.00690    -.06677     -.01799     -.00001     5.16740     .06401    -.02774
```

```
                                   AEDC/VA528(IA87)-O1ET151-L/H SRB SEPAR.FROM O/ET            (ATU177)    ( 03 OCT 74  )

                  REFERENCE DATA                                                                     PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                                MACH   =     4.520   PTOTL  =    91.200
 LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                                ALPHA  =    -5.900   BETA   =    10.800
 BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                                DALPHA =    -4.800   DBETA  =      .000
 SCALE =       .0100                                                                  X      =      .000

                               RUN NO.  529/ 0    RN/L =   5.95

     Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA       X
  -399.360    99.411    -.07628     .02553    -.00987    -.07809    -.01440    -.00000   -4.80660     .04537    -.16296
  -400.020   200.170    -.07258     .02374    -.01191    -.06904    -.01647    -.00000   -4.84530     .12576     .08588
  -399.220   400.350    -.07111     .02388    -.01154    -.06812    -.01406     .00000   -4.84010     .07864     .32723

                               RUN NO.  530/ 0    RN/L =   5.95

     Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA       X
  -198.430    99.681    -.07175     .02717    -.01639    -.05817    -.02407    -.00002   -4.83610     .04956    -.09947
  -197.180   199.000    -.06534     .02602    -.01619    -.05180    -.02282    -.00002   -4.82080     .00597    -.02570
  -198.680   399.870    -.06156     .02334    -.01561    -.06024    -.01808    -.00001   -4.82980     .06710     .10192

                               RUN NO.  531/ 0    RN/L =   5.95

     Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA       X
   -97.611    99.748    -.06029     .02365    -.01666    -.03587    -.01718    -.00001   -4.83000    -.01603     .06902
  -100.050   200.070    -.05136     .02575    -.01750    -.03181    -.02111    -.00002   -4.85760     .13414    -.64523
   -99.503   400.650    -.05442     .02329    -.01844    -.05615    -.01933    -.00001   -4.87980     .08692    -.08188

                               RUN NO.  532/ 0    RN/L =   5.96

     Y          Z          CN         CA        CLM        CY        CYN        CBL       DLTALF     DLTBTA       X
   -38.541   100.160    -.04960     .01691    -.01318    -.02350    -.00908    -.00000   -4.86490     .06052     .19597
   -39.859   200.650    -.04020     .02075    -.01331    -.01885    -.01500    -.00001   -4.90120     .15383     .13071
   -38.550   399.740    -.04927     .02640    -.02231    -.05498    -.02111    -.00002   -4.84230   [illegible]   .10238
```

```
                         AEDC/VA528(IA87)-O1ET151-L/H SRB SEPAR.FROM O/ET            (ATU178)    ( 03 OCT 74  )

          REFERENCE DATA                                                            PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                   MACH   =     4.520   PTOTL  =    91.200
 LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                   ALPHA  =    -5.900   BETA   =    10.800
 BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                   DALPHA =    -4.800   DBETA  =      .000
 SCALE =       .0100                                                     X      =   300.000

                    RUN NO.  536/ 0    RN/L =   5.97

     Y         Z         CN        CA        CLM       CY        CYN       CBL       DLTALF     DLTBTA     X
  -398.440    99.907   -.07198    .02524   -.01450   -.07054   -.02197   -.00001   -4.82890    .05829  300.03000
  -396.940   199.440   -.07119    .02525   -.01358   -.06841   -.01891   -.00001   -4.80820   -.01124  300.10000
  -398.970   399.880   -.06947    .02491   -.01322   -.06796   -.01535   -.00000   -4.82330    .07290  300.09000

                    RUN NO.  535/ 0    RN/L =   5.96

     Y         Z         CN        CA        CLM       CY        CYN       CBL       DLTALF     DLTBTA     X
  -198.350   100.870   -.05383    .01951   -.01560   -.02937   -.01306   -.00001   -4.86580    .02580  300.07000
  -199.270   200.120   -.04982    .02144   -.01410   -.02739   -.01511   -.00001   -4.84300    .08309  300.19000
  -198.780   399.720   -.05612    .02817   -.01813   -.05145   -.02031   -.00001   -4.82220    .06065  300.13000

                    RUN NO.  534/ 0    RN/L =   5.96

     Y         Z         CN        CA        CLM       CY        CYN       CBL       DLTALF     DLTBTA     X
  -100.490   100.580   -.04553    .01264   -.01249   -.01400   -.00797   -.00001   -4.83850     12517  300.24000
   -98.487   197.960   -.03365    .01381   -.01063   -.01005   -.00944   -.00001   -4.78500    .07313  299.91000
   -98.303   399.620   -.04046    .02559   -.01549   -.04375   -.01622   -.00001   -4.81990    .04259  300.00000

                    RUN NO.  533/ 0    RN/L =   5.96

     Y         Z         CN        CA        CLM       CY        CYN       CBL       DLTALF     DLTBTA     X
   -38.021   101.720   -.03511    .01168   -.01363   -.00509   -.00457   -.00001   -4.90710    .01306  300.14000
   -38.674   200.150   -.02539    .01343   -.00979   -.00676   -.00709   -.00000   -4.84830    .06289  300.12000
   -39.883   400.470   -.02969    .02325   -.01336   -.04181   -.01304   -.00001   -4.85450    .09829  300.21000
```

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET (ATU179) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 100.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = -5.900 BETA = 10.800
DALPHA = .200 DBETA = 4.000
X = .000

RUN NO. 537/ 0 RN/L = 5.97

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-399.760	-100.170	-.03883	.02292	-.00495	-.10424	-.02349	-.00001	.18282	4.09140	.13381
-339.860	-.340	-.04239	.02435	-.00441	-.09623	-.02298	-.00001	.19132	4.09780	.05521
-399.070	99.630	-.04130	.02501	-.00518	-.09064	-.02219	-.00001	.19949	4.07920	.10949
-399.930	199.630	-.03741	.02435	-.00680	-.08865	-.02166	-.00001	.19239	4.13470	.19911
-399.100	400.320	-.03512	.02417	-.00790	-.09382	-.01326	-.00000	.16240	4.07330	.15492

RUN NO. 538/ 0 RN/L = 5.97

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-199.170	-100.170	-.03898	.02475	-.00632	-.09887	-.03394	-.00003	.16850	4.05690	-.08052
-197.280	1.257	-.04023	.02600	-.00899	-.07339	-.03376	-.00004	.08753	4.03630	-.38369
-196.090	100.200	-.03344	.02617	-.01038	-.06032	-.03163	-.00003	.13059	3.97250	-.04255
-199.620	199.830	-.02860	.02656	-.01056	-.06940	-.02784	-.00002	.16064	4.06840	-.08390
-200.080	399.750	-.02762	.02369	-.01216	-.08961	-.02104	-.00001	.17433	4.08220	-.05389

AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET (ATU180) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = -5.900 BETA = 10.800
DALPHA = .200 DBETA = 4.000
X = 300.000

RUN NO. 540/ 0 RN/L = 5.95

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-398.040	-100.120	-.03449	.02189	-.00778	-.09312	-.03291	-.00003	.18021	4.04830	300.04000
-397.430	.349	-.03495	.02376	-.00898	-.08451	-.03206	-.00003	.15065	4.02740	299.98000
-398.970	99.770	-.03631	.02460	-.00868	-.08033	-.02959	-.00002	.17740	4.07220	300.07000
-397.480	199.630	-.03487	.02490	-.00883	-.08093	-.02607	-.00002	.18153	3.98950	299.94000
-399.200	399.820	-.03406	.02477	-.00879	-.09131	-.01998	-.00001	.17751	4.07610	300.21000

```
                                  AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET          (ATU180)    ( 03 OCT 74  )

            REFERENCE DATA                                                                PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                         MACH    =      4.520   PTOTL   =     91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                        ALPHA   =     -5.900   BETA    =     10.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                         DALPHA  =       .200   DBETA   =      4.000
SCALE =       .0100                                                           X       =    300.000

                           RUN NO.  539/ 0    RN/L =   5.96

       Y           Z          CN          CA         CLM         CY         CYN         CBL        DLTALF      DLTBTA       X
   -198.580   -100.170    -.03852      .02250     -.01088     -.06582     -.02610     -.00002      .17193     4.03880  299.85000
   -201.530      1.578    -.03714      .01872     -.01005     -.04222     -.01992     -.00002      .12599     4.13060  300.12000
   -197.930    100.580    -.02510      .01869     -.00866     -.03335     -.01809     -.00001      .15551     4.03510  293.82000
   -200.520    200.090    -.01618      .02199     -.00903     -.04788     -.01792     -.00001      .15854     4.10550  300.14000
   -200.510    400.770    -.01998      .02837     -.01332     -.08115     -.02402     -.00002      .14111     4.10710  300.19000

                                  AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET          (ATU181)    ( 03 OCT 74  )

            REFERENCE DATA                                                                PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRF  =  1258.5000 IN. XS                         MACH    =      4.520   PTOTL   =     91.200
LREF  =  1290.3000 INCHES   YMRF  =       .0000 IN. YS                        ALPHA   =     -5.900   BETA    =     10.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                         DALPHA  =      5.200   DBETA   =      4.000
SCALE =       .0100                                                           X       =    300.000

                           RUN NO.  541/ 0    RN/L =   5.96

       Y           Z          CN          CA         CLM         CY         CYN         CBL        DLTALF      DLTBTA       X
   -399.800   -100.570    -.00529      .02166     -.00121     -.08402     -.03121     -.00003     5.19970     4.10850  300.17000
   -399.120      -.632    -.00656      .02446     -.00092     -.08047     -.02969     -.00003     5.20970     4.11250  300.33000
   -400.070     99.741    -.00528      .02569     -.00248     -.08144     -.02706     -.00002     5.18480     4.14380  300.16000
   -400.280    199.640    -.00421      .02551     -.00283     -.08625     -.02322     -.00002     5.18760     4.14120  300.15000
   -398.930    399.960    -.00324      .02493     -.00348     -.09120     -.01965     -.00001     5.17440     4.06840  300.08000

                           RUN NO.  542/ 0    RN/L =   5.96

       Y           Z          CN          CA         CLM         CY         CYN         CBL        DLTALF      DLTBTA       X
   -200.590   -100.310    -.01670      .02147     -.00370     -.04965     -.02512     -.00003     5.17630     4.10350  300.17000
   -199.690      -.109    -.00810      .01941     -.00409     -.03680     -.01779     -.00001     5.17280     4.08000  300.19000
   -198.540     98.528     .00500      .02034     -.00446     -.04318     -.01458     -.00001     5.19320     4.00730  300.11000
   -201.060    198.640     .01115      .02341     -.00330     -.05654     -.01513     -.00001     5.21160     4.10730  300.32000
   -198.700    399.710    -.00236      .03012     -.00440     -.09156     -.02118     -.00001     5.18240     4.05250  299.96000
```

```
                                   AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET            (ATU182)   ( 03 OCT 74  )

           REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                             MACH   =     4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                             ALPHA  =    -5.900   BETA   =    10.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                             DALPHA =     5.200   DBETA  =     4.000
SCALE =      .0100                                                                X      =      .000

                         RUN NO.   544/ 0    RN/L =    5.95

     Y          Z          CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -399.380   -100.100   -.01050    .02397     .00198   -.09335    -.02326    -.00002    5.17850    4.08300    .14060
  -397.870       .130   -.00945    .02396     .00070   -.08754    -.02284    -.00002    5.15500    4.04340   -.04296
  -397.290    100.370   -.00636    .02363    -.00124   -.08539    -.02206    -.00002    5.14850    4.03050    .24121
  -398.120    199.920   -.00395    .02345    -.00215   -.08733    -.02041    -.00001    5.16830    4.03080    .14551
  -398.160    400.090   -.00369    .02344    -.00320   -.09182    -.01820    -.00001    5.16210    4.02360    .14933

                         RUN NO.   543/ 0    RN/L =    5.96

     Y          Z          CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -201.520   -101.520   -.01192    .02400     .00159   -.07671    -.03577    -.00004    5.23950    4.13450     36299
  -201.470      -.451   -.00778    .02723    -.00213   -.06542    -.03256    -.00003    5.18140    4.15200   -.01920
  -201.500     99.830   -.00194    .02850    -.00368   -.06937    -.02856    -.00003    5.17900    4.15400   -.17301
  -199.860    199.740    .00137    .02650    -.00557   -.07762    -.02526    -.00002    5.16310    4.06640   -.02328
  -198.600    399.940   -.00546    .02419    -.00404   -.09501    -.01951    -.00001    5.18000    4.03190    .10880

                                   AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET            (ATU183)   ( 03 OCT 74  )

           REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                             MACH   =     4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                             ALPHA  =    -5.900   BETA   =    10.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                             DALPHA =    -4.800   DBETA  =     4.000
SCALE =      .0100                                                                X      =      .000

                         RUN NO.   545/ 0    RN/L =    5.96

     Y          Z          CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -399.870    100.090   -.07882    .02562    -.01084   -.10143    -.02297    -.00001   -4.83600    4.10020    .28973
  -399.530    199.720   -.07801    .02682    -.01059   -.09492    -.02192    -.00001   -4.80480    4.10620    .10619
  -399.070    400.370   -.07148    .02492    -.01274   -.09408    -.01998    -.00001   -4.84140    4.07030    .30855

                         RUN NO.   546/ 0    RN/L =    5.96

     Y          Z          CN         CA        CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -199.200     99.782   -.05819    .02699    -.01803   -.07171    -.03111    -.00003   -4.83950    4.04830   -.28183
  -197.010    199.080   -.05858    .02525    -.01858   -.06122    -.03074    -.00003   -4.84880    4.00770   -.09788
  -199.710    399.840   -.05468    .02309    -.01890   -.07888    -.02510    -.00002   -4.83610    4.07390    .10116
```

```
                                        AEDC/VA528(IA87)-O1ET151-L/H SRB SEPAR.FROM O/ET              (ATU184)    ( 03 OCT 74  )

                    REFERENCE DATA                                                                         PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                                   MACH   =      4.520   PTOTL   =     91.200
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YS                                   ALPHA  =     -5.900   BETA    =     10.800
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                                   DALPHA =     -4.800   DBETA   =      4.000
SCALE =       .0100                                                                      X      =    300.000

                         RUN NO.   546/ 0    RN/L =    5.95

      Y            Z          CN          CA          CLM          CY          CYN         CBL        DLTALF      DLTBTA      X
  -390.720      99.810     -.06867      .02460     -.01707     -.08690     -.03159     -.00003    -4.82110     4.05030  299.63000
  -390.870     199.960     -.06863      .02450     -.01578     -.08293     -.02884     -.00002    -4.82460     4.07070  300.17000
  -390.970     399.950     -.06994      .02539     -.01419     -.09033     -.02214     -.00001    -4.82560     4.07360  300.30000

                         RUN NO.   547/ 0    RN/L =    5.95

      Y            Z          CN          CA          CLM          CY          CYN         CBL        DLTALF      DLTBTA      X
  -190.590     101.080     -.05514      .01895     -.01503     -.03790     -.01790     -.00001    -4.84290     4.00990  299.88000
  -200.250     201.350     -.04391      .02048     -.01498     -.03537     -.02065     -.00002    -4.85920     4.09820  300.25000
  -190.610     399.100     -.04703      .02801     -.01923     -.07116     -.02612     -.00002    -4.82340     4.06960  299.88000

                                        AEDC/VA528(IA87)-O ET151-L/H SRB SEPAR.FROM O/ET              (ATU185)    ( 03 OCT 74  )

                    REFERENCE DATA                                                                         PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                                   MACH   =      4.520   PTOTL   =     91.200
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YS                                   ALPHA  =     -5.900   BETA    =     10.800
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                                   DALPHA =       .200   DBETA   =      8.000
SCALE =       .0100                                                                      X      =       .000

                         RUN NO.   549/ 0    RN/L =    5.95

      Y            Z          CN          CA          CLM          CY          CYN         CBL        DLTALF      DLTBTA      X
  -400.930     -99.920     -.04263      .02205     -.00585     -.12776     -.03437     -.00003      .17950     8.09550     .21491
  -400.080       -.231     -.04483      .02294     -.00516     -.11391     -.03448     -.00003      .20781     8.09590     .17166
  -400.000      99.414     -.04129      .02310     -.00652     -.10544     -.03412     -.00003      .23874     8.14140     .09764
  -398.960     199.620     -.03435      .02404     -.00938     -.10893     -.03063     -.00002      .17649     8.05720    -.10026
  -399.620     400.310     -.03426      .02606     -.00934     -.12544     -.02374     -.00001      .15924     8.07260     .08010

                         RUN NO.   550/ 0    RN/L =    5.95

      Y            Z          CN          CA          CLM          CY          CYN         CBL        DLTALF      DLTBTA      X
  -199.690    -100.100     -.05367      .02809     -.00322     -.13599     -.04098     -.00005      .16259     8.03790    -.26428
  -200.430       -.246     -.04245      .02692     -.00951     -.09388     -.03915     -.00005      .15099     8.07820     .00933
  -195.000     100.240     -.03209      .02561     -.01131     -.07141     -.03821     -.00004      .10712     7.98450    -.37824
  -198.680     199.740     -.02204      .02610     -.01326     -.08221     -.03598     -.00004      .13502     8.00010     .09174
  -200.200     399.750     -.02615      .02548     -.01321     -.12422     -.02522     -.00001      .16888     8.08210     .06033
```

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET (ATU186) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = -5.900 BETA = 10.800
CALPHA = .200 DBETA = 8.000
X = 300.000

RUN NO. 552/ 0 RN/L = 5.95

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-398.860	-100.050	-.04150	.02356	-.00646	-.11547	-.04233	-.00005	.17986	8.05680	299.80000
-397.820	.587	-.03898	.02484	-.00931	-.10008	-.04150	-.00005	.12403	8.02830	299.67000
-397.420	99.934	-.03620	.02539	-.01033	-.09345	-.03868	-.00004	.15671	7.98910	299.68000
-399.730	199.900	-.03196	.02560	-.01093	-.10100	-.03383	-.00003	.17678	8.07770	299.99000
-399.500	399.870	-.03256	.02637	-.01039	-.12138	-.02499	-.00001	.17885	8.07690	300.24000

RUN NO. 551/ 0 RN/L = 5.95

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-198.290	-100.230	-.04551	.02179	-.01245	-.08289	-.03342	-.00003	.16954	8.01900	299.64000
-202.250	2.209	-.03783	.01851	-.01181	-.05400	-.02407	-.00002	.10060	8.14740	300.31000
-200.050	99.914	-.02253	.01820	-.00952	-.04585	-.02145	-.00002	.16431	8.07790	300.03000
-200.650	200.130	-.01108	.02114	-.00903	-.05697	-.02431	-.00002	.15453	8.10530	300.29000
-198.850	398.460	-.01868	.03033	-.01223	-.11385	-.02651	-.00001	.20815	8.07430	299.80000

AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET (ATU187) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = -5.900 BETA = 10.800
CALPHA = 5.200 DBETA = 8.000
X = 300.000

RUN NO. 553/ 0 RN/L = 5.95

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-401.070	-100.840	-.01062	.02252	.00078	-.10211	-.04176	-.00005	5.22950	8.15280	300.43000
-400.700	-.439	-.00612	.02581	-.00207	-.09821	-.03819	-.00004	5.19950	8.15370	300.24000
-400.130	99.545	-.00142	.02723	-.00397	-.10201	-.03419	-.00003	5.19510	8.15560	300.31000
-400.500	200.100	.00100	.02709	-.00538	-.11395	-.02890	-.00002	5.16440	8.17130	300.27000
-399.830	399.930	-.00244	.02695	-.00399	-.12731	-.02314	-.00001	5.17450	8.07530	300.04000

```
                                   AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET              (ATU187)    ( 03 OCT 74  )

           REFERENCE DATA                                                                         PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                                MACH    =     4.520   PTOTL   =     91.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                                ALPHA   =    -5.900   BETA    =     10.800
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                                CALPHA  =     5.200   CBETA   =      8.000
SCALE =       .0100                                                                   X       =   300.000

                     RUN NO.   554/ 0     RN/L =    5.95

       Y          Z          CN          CA          CLM          CY          CYN          CBL         DLTALF      DLTBTA      X
    -201.340   -100.300   -.02010     .02194     -.00558     -.06753     -.02981     -.00003     5.16910     8.12380  300.28000
    -200.710      -.233   -.00813     .01962     -.00553     -.05000     -.02113     -.00001     5.17230     8.11270  300.25000
    -199.500     97.490    .00628     .01924     -.00345     -.05037     -.02138     -.00002     5.23530     8.07340  300.14000
    -200.440    198.560    .02010     .02373     -.00380     -.07366     -.01964     -.00001     5.19920     8.06680  300.62000
    -199.090    399.840   -.00206     .03274     -.00378     -.12749     -.02370     -.00002     5.17130     8.05330  299.85000

                                   AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET              (ATU188)    ( 03 OCT 74  )

           REFERENCE DATA                                                                         PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                                MACH    =     4.520   PTOTL   =     91.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                                ALPHA   =    -5.900   BETA    =     10.800
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                                CALPHA  =     5.200   CBETA   =      8.000
SCALE =       .0100                                                                   X       =      .000

                     RUN NO.   556/ 0     RN/L =    5.96

       Y          Z          CN          CA          CLM          CY          CYN          CBL         DLTALF      DLTBTA      X
    -400.110   -100.060   -.01351     .02249      .00246     -.11210     -.03452     -.00004     5.17700     8.08510     .16059
    -397.980       .345   -.00895     .02278     -.00037     -.10417     -.03385     -.00003     5.13280     8.03330    -.08000
    -400.340     95.667   -.00191     .02435     -.00353     -.11075     -.02931     -.00003     5.18550     8.08430     .04867
    -397.720    199.570   -.00054     .02610     -.00351     -.11803     -.02527     -.00002     5.17890     7.98460    -.02414
    -399.350    399.060   -.00368     .02651     -.00337     -.12912     -.02180     -.00001     5.17740     8.02180    -.08569

                     RUN NO.   555/ 0     RN/L =    5.95

       Y          Z          CN          CA          CLM          CY          CYN          CBL         DLTALF      DLTBTA      X
    -203.420   -101.420   -.01623     .02507      .00119     -.10007     -.04228     -.00006     5.21790     8.13230     .53816
    -200.430      -.560   -.00884     .02656     -.00264     -.07478     -.03968     -.00005     5.16930     8.12060    -.13751
    -201.060     99.755    .00235     .02807     -.00435     -.08141     -.03637     -.00004     5.18540     8.16210    -.13465
    -199.700    199.660    .01077     .02721     -.00738     -.09821     -.03167     -.00003     5.15670     8.05630    -.27968
    -200.270    400.210   -.00542     .02725     -.00406     -.13332     -.02298     -.00001     5.16380     8.07010     .05065
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                                   AEDC/VA528(IA87)-O1ET1S1-L/M SRB SEPAR.FROM O/ET              (ATU189)    ( 03 OCT 74  )

              REFERENCE DATA                                                                     PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1256.5000 IN. XS                                 MACH   =     4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                                ALPHA  =    -5.900   BETA   =     10.800
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                                 DALPHA =    -4.800   DBETA  =      8.000
SCALE =       .0100                                                                    X      =      .000

                          RUN NO.  557/ 0    RN/L =   5.98

         Y          Z          CN          CA         CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
     -400.000    100.040    -.07998     .02423     -.01283     -.11763     -.03448     -.00004    -4.80270     8.10160     .09816
     -398.590    199.890    -.07519     .02413     -.01360     -.10837     -.03409     -.00004    -4.83040     8.04890    -.11152
     -399.480    400.250    -.07034     .02690     -.01451     -.12238     -.03702     -.00002    -4.83630     8.06570    -.07780

                          RUN NO.  558/ 0    RN/L =   5.98

         Y          Z          CN          CA         CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
     -201.570    101.000    -.06992     .02727     -.01747     -.09193     -.03663     -.00004    -4.94080     8.12020    -.97773
     -197.450    199.100    -.05577     .02478     -.01842     -.07705     -.03785     -.00005    -4.86470     8.03530    -.25564
     -200.270    399.900    -.04658     .02353     -.02147     -.10551     -.03235     -.00003    -4.84070     8.07890    -.14679

                                   AEDC/VA528(IA87)-O1ET1S1-L/M SRB SEPAR.FROM O/ET              (ATU190)    ( 03 OCT 74  )

              REFERENCE DATA                                                                     PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1256.5000 IN. XS                                 MACH   =     4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                                ALPHA  =    -5.900   BETA   =     10.800
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                                 DALPHA =    -4.800   DBETA  =      8.000
SCALE =       .0100                                                                    X      =   300.000

                          RUN NO.  560/ 0    RN/L =   5.98

         Y          Z          CN          CA         CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
     -398.760     99.712    -.06805     .02544     -.01877     -.10141     -.04065     -.00005    -4.82340     8.03720   299.27000
     -397.430    199.200    -.06560     .02486     -.01786     -.09654     -.03833     -.00004    -4.80460     7.99880   299.67000
     -399.540    399.870    -.06492     .02520     -.01673     -.11326     -.03021     -.00002    -4.82650     8.07350   300.08000

                          RUN NO.  559/ 0    RN/L =   5.97

         Y          Z          CN          CA         CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
     -198.090    101.570    -.05015     .01887     -.01664     -.04764     -.02151     -.00002    -4.87320     7.98590   299.79000
     -200.340    200.420    -.03857     .02011     -.01519     -.04966     -.02481     -.00002    -4.86000     8.10230   300.30000
     -197.620    398.450    -.03467     .02039     -.02173     -.09005     -.03192     -.00003    -4.80840     8.02130   299.78000
```

AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET (ATU191) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = 10.200 BETA = 11.000
DALPHA = .000 DBETA = .000
X = .000

RUN NO. 564/ 0 RN/L = 5.99

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
10.025	-99.799	.07383	.03945	.02898	-.02251	.00556	-.00003	.12095	-.12741	-.12136
10.655	-.405	.06715	.04105	.02589	.00058	.00610	-.00003	.12695	-.14258	.06146
11.025	99.178	.05581	.03843	.00986	-.01030	.00849	-.00002	.11446	-.12458	.00177
10.979	199.120	.02845	.03328	.00266	-.02158	.00290	-.00001	.11184	-.12127	.51427
10.716	399.830	.04561	.02796	.01058	-.03738	-.01374	-.00003	.08537	-.10212	.23061

RUN NO. 563/ 0 RN/L = 5.98

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.450	-99.988	.06418	.03313	.02165	-.02560	-.00608	-.00002	.11546	-.12720	-.14297
100.990	-.092	.06177	.03275	.01859	-.02740	-.00195	-.00003	.12081	-.15860	-.05610
100.200	99.650	.04309	.02857	.01202	-.02599	-.00400	-.00001	.09934	-.10856	.38740
100.620	199.630	.02904	.02766	.00991	-.03916	-.00673	-.00002	.09045	-.10769	.52200
100.750	400.090	.04777	.02759	.01325	-.04807	-.01432	-.00003	.08261	-.08272	.34167

RUN NO. 562/ 0 RN/L = 5.98

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
201.280	-100.320	.05298	.02852	.01320	-.03792	-.01302	-.00002	.11545	-.14285	.53829
200.250	.300	.04572	.02780	.01320	-.04524	-.01123	-.00002	.07702	-.15102	.37620
200.110	100.790	.03989	.02514	.01210	-.05365	-.00945	-.00003	.07590	-.11747	.30995
199.170	198.970	.03987	.02729	.01435	-.05672	-.01046	-.00003	.14029	-.05588	.27642
198.900	399.230	.05689	.02643	.01200	-.05943	-.01249	-.00003	.11703	-.02448	.32434

RUN NO. 561/ 0 RN/L = 6.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.480	-100.470	.05842	.02556	.01256	-.06418	-.00984	-.00003	.12516	-.11707	.41179
401.040	-.357	.06023	.02478	.01148	-.06545	-.00951	-.00003	.11980	-.13098	.43089
400.620	99.439	.06137	.02504	.01081	-.06530	-.00997	-.00003	.12351	-.12157	.42429
400.540	199.320	.06289	.02513	.01009	-.06564	-.01024	-.00003	.11103	-.10517	.44135
400.570	399.780	.06463	.02448	.00889	-.06646	-.00932	-.00003	.09448	-.09764	.52144

```
                                AEDC/VA528(IA87)-O1ET131-R/H SRB SEPAR.FROM O/ET              (ATU192)    ( 03 OCT 74  )

                 REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                                  MACH   =      4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                                 ALPHA  =     10.200   BETA   =     11.000
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                                  DALPHA =       .000   DBETA  =       .000
SCALE =        .0100                                                                    X      =    300.000

                         RUN NO.  565/ 0     RN/L =   5.99

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   10.764   -100.280     .05871     .03038     .01788    -.04806    -.00013    -.00003     .13351    -.15011  299.89000
   10.734     -.001      .06591     .03368     .02116    -.02926     .00459    -.00003     .11486    -.13590  299.93000
   10.069    100.380     .05366     .03690     .01439    -.02413     .00106    -.00002     .08610    -.10868  299.82000
    8.741    199.120     .03426     .03721     .00369    -.02644     .00197    -.00002     .11383    -.04554  300.05000
   11.702    400.080     .04293     .02824     .00969    -.03403    -.01256    -.00002     .07007    -.14447  299.92000

                         RUN NO.  566/ 0     RN/L =   5.99

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  103.720   -101.160     .07605     .03737     .01709    -.01767    -.00061    -.00003     .15034    -.21113  299.84000
  101.530      1.331     .05362     .03891     .01984    -.01977     .00298    -.00002     .10259    -.18260  299.86000
  100.420     99.635     .03728     .03724     .01610    -.02920     .00563    -.00002     .10950    -.11441  300.07000
  101.300    199.440     .02778     .02947     .00867    -.03304    -.00211    -.00001     .10499    -.12069  300.15000
  100.490    399.820     .04585     .02793     .01307    -.04579    -.01409    -.00003     .09601    -.11837  299.85000

                         RUN NO.  567/ 0     RN/L =   5.99

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  201.580   -100.880     .05774     .02933     .01304    -.03231    -.00767    -.00002     .12410    -.14322  300.13000
  202.450     -1.113     .04139     .02961     .01500    -.04251    -.00622    -.00001     .11345    -.18824  299.91000
  202.160     99.371     .02790     .02855     .01652    -.05025    -.00777    -.00002     .12820    -.17669  299.92000
  200.590    199.860     .03554     .02664     .01388    -.05457    -.00945    -.00003     .09873    -.11609  300.00000
  198.810    399.220     .05454     .02673     .01236    -.05731    -.01268    -.00003     .10370    -.09663  299.87000

                         RUN NO.  568/ 0     RN/L =   5.97

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  400.650   -100.160     .05461     .02549     .01307    -.06509    -.00877    -.00003     .09839    -.11653  299.92000
  399.960      -.560     .05259     .02633     .01454    -.06354    -.01026    -.00003     .12233    -.08543  299.99000
  401.170    100.360     .05847     .02504     .01175    -.06507    -.00968    -.00003     .06339    -.13039  300.08000
  399.900    199.900     .06100     .02527     .01080    -.06523    -.01030    -.00003     .08757    -.08582  299.99000
  400.720    400.210     .06442     .02464     .00881    -.06682    -.00935    -.00003     .06208    -.13056  299.95000
```

```
                                      AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET            (ATU193)    ( 03 OCT 74  )

              REFERENCE DATA                                                                           PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                                    MACH   =     4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                                    ALPHA  =    10.200   BETA   =     11.000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                                    DALPHA =     5.100   DBETA  =       .000
SCALE =       .0100                                                                      X      =   300.000

                              RUN NO.   572/ 0    RN/L =    5.97

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA     X
   8.694     -99.975     .11286      .03475      .02816     -.04097      .00131     -.00005     5.08500    -.08597  300.05000
  12.671        .874     .11620      .03700      .02668     -.01779      .00241     -.00004     5.07810    -.19597  299.69000
  10.990      99.142     .09707      .03843      .01864     -.03623      .00235     -.00003     5.12550    -.13023  300.20000
  10.447     199.320     .07614      .03984      .01103     -.04225      .00327     -.00003     5.10530    -.10949  300.02000
  10.706     399.770     .08278      .02986      .01568     -.05991     -.01067     -.00004     5.11050    -.11794  299.92000

                              RUN NO.   571/ 0    RN/L =    5.96

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA     X
 100.680    -100.120     .10623      .04184      .03156     -.03028      .00367     -.00004     5.13470    -.15236  299.81000
 100.190        .283     .09711      .04123      .02895     -.03834      .00815     -.00004     5.10100    -.12391  299.77000
 100.980      99.819     .09372      .03612      .01692     -.04540      .00487     -.00003     5.11060    -.13677  300.03000
 100.880     199.720     .07302      .03087      .01177     -.06575     -.00157     -.00003     5.09220    -.11923  300.12000
 100.750     400.230     .09077      .02908      .01637     -.06732     -.01047     -.00004     5.10370    -.11323  299.85000

                              RUN NO.   570/ 0    RN/L =    5.96

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA     X
 200.790    -100.160     .09915      .03173      .02088     -.05582     -.00360     -.00003     5.13450    -.14328  300.09000
 199.320       1.992     .09169      .03080      .01711     -.05726     -.00564     -.00003     5.03710    -.06880  299.92000
 196.700     102.090     .08734      .02804      .01255     -.07036     -.00893     -.00004     5.02290    -.00315  299.77000
 200.340     198.720     .08659      .02914      .01557     -.07677     -.00789     -.00004     5.16930    -.11785  300.12000
 199.860     398.390     .09979      .02861      .01519     -.07218     -.01000     -.00004     5.12880    -.06743  300.09000

                              RUN NO.   569/ 0    RN/L =    5.96

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA     X
 400.900    -100.380     .09844      .02826      .01599     -.07396     -.00802     -.00004     5.12190    -.13092  300.04000
 400.830      -.283      .10168      .02774      .01469     -.07236     -.00931     -.00004     5.12160    -.11582  300.05000
 401.650      99.528     .10430      .02769      .01375     -.07310     -.00926     -.00004     5.12020    -.12267  300.14000
 400.630     199.730     .10591      .02748      .01282     -.07449     -.00902     -.00004     5.09600    -.09645  300.05000
 401.040     400.030     .10651      .02727      .01232     -.07504     -.00858     -.00004     5.09230    -.11698  300.08000
```

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET (ATU194) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = 10.200 BETA = 11.000
DALPHA = 5.100 CBETA = .000
X = .000

RUN NO. 573/ 0 RN/L = 5.97

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
10.521	-99.797	.12695	.04292	.03872	.00166	.00470	-.00005	5.13450	-.17479	.26219
10.927	.057	.11741	.04095	.02865	-.00590	.01182	-.00004	5.12310	-.14194	.33017
9.795	100.310	.09522	.04052	.01659	-.02186	.01056	-.00003	5.07340	-.08250	.25598
11.369	199.580	.06725	.03371	.00680	-.04524	.00156	-.00002	5.08960	-.13622	.60970
9.911	399.350	.08525	.02960	.01615	-.06028	-.01138	-.00004	5.11020	-.07980	.44911

RUN NO. 574/ 0 RN/L = 5.97

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
99.624	-99.999	.11647	.03478	.02719	-.02064	-.00599	-.00003	5.13020	-.11784	.40301
100.170	-.789	.11131	.03248	.01864	-.03485	-.00058	-.00003	5.13670	-.13287	.54325
100.680	99.536	.09397	.02950	.01061	-.04464	-.00349	-.00003	5.10840	-.11768	.54962
101.080	199.550	.07406	.02932	.01311	-.07015	-.00649	-.00004	5.09730	-.11481	.43960
100.860	399.760	.09295	.02891	.01591	-.06759	-.01080	-.00004	5.08180	-.10072	.38132

RUN NO. 575/ 0 RN/L = 5.97

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
202.150	-101.870	.10984	.02959	.01249	-.05053	-.01220	-.00003	5.18890	-.15764	.82555
202.020	-.172	.09840	.02777	.01155	-.06332	-.01072	-.00003	5.09280	-.16017	.50723
201.200	100.380	.09199	.02808	.01362	-.07300	-.00968	-.00004	5.05740	-.12525	.54180
201.860	200.110	.08836	.02879	.01637	-.07560	-.00857	-.00004	5.06880	-.17141	.70662
200.680	399.330	.10178	.02821	.01438	-.07181	-.00991	-.00004	5.09120	-.10930	.49970

RUN NO. 576/ 0 RN/L = 5.96

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
397.860	-100.580	.10426	.02763	.01436	-.07301	-.00949	-.00004	5.15910	-.03424	.30997
400.250	-.079	.10492	.02766	.01363	-.07337	-.00930	-.00004	5.10220	-.11612	.22788
400.490	99.823	.10570	.02748	.01320	-.07396	-.00907	-.00004	5.11370	-.13008	.30400
400.370	199.920	.10656	.02713	.01270	-.07512	-.00889	-.00004	5.11990	-.12766	.36204
400.430	399.660	.10718	.02734	.01232	-.07493	-.00853	-.00004	5.10780	-.11555	.47619

```
                                        AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET              (ATU195)    ( 03 OCT 74  )

                 REFERENCE DATA                                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                                  MACH    =     4.520   PTOTL   =    91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                                  ALPHA   =    10.200   BETA    =    11.000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                                  DALPHA  =    -4.900   DBETA   =      .000
SCALE =      .0100                                                                     X       =      .000

                             RUN NO.   580/ 0    RN/L =    5.98

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
    9.420      99.514      .00831      .04074      .01163     -.01656      .00991     -.00001    -4.89200     -.07645     -.19096
   10.742     199.550     -.00029      .03433     -.00109     -.01608      .00537     -.00001    -4.90000     -.13045     -.27397
   11.348     399.920      .01249      .02699      .00447     -.02814     -.01123     -.00002    -4.91400     -.12017      .00258

                             RUN NO.   579/ 0    RN/L =    5.98

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
  101.060     100.030      .00029      .03132      .01381     -.01223     -.00491     -.00000    -4.90170     -.13039      .00240
  100.220     199.920      .00355      .02940      .00892     -.01479     -.00941     -.00001    -4.90850     -.10321     -.12234
  102.460     400.510      .02031      .02685      .00628     -.03078     -.01606     -.00002    -4.94050     -.14619     -.07697

                             RUN NO.   578/ 0    RN/L =    5.97

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
  203.710     100.160     -.00221      .02937      .01420     -.02029     -.01585     -.00001    -4.86560     -.19634     -.01724
  198.190     200.550      .01097      .02652      .00944     -.02827     -.01506     -.00001    -4.95710     -.06732     -.42138
  197.390     399.880      .02444      .02589      .00685     -.04356     -.01639     -.00002    -4.90910     -.01068     -.11583

                             RUN NO.   577/ 0    RN/L =    5.97

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
  400.910      99.575      .02652      .02377      .00753     -.05497     -.01256     -.00002    -4.88280     -.12270      .37916
  399.880     199.140      .02777      .02409      .00686     -.05646     -.01254     -.00002    -4.88380     -.07514      .28238
  399.980     399.660      .03053      .02297      .00503     -.06102     -.01025     -.00003    -4.90920     -.08980      .65437
```

```
                                    AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET           (ATU196)    ( 03 OCT 74  )

                REFERENCE DATA                                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =   1258.5000 IN. XS                               MACH   =      4.520   PTOTL   =     91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                               ALPHA  =     10.200   BETA    =     11.000
BREF  =  1290.3000 INCHES   ZMRP  =    400.0000 IN. ZS                               DALPHA =     -4.900   DBETA   =       .000
SCALE =        .0100                                                                 X      =    300.000

                            RUN NO.   581/ 0    RN/L =    5.98

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
   10.657    100.180     .01261      .03552      .00871     -.03750      .00660     -.00001    -4.90820     -.11734  299.96000
    9.249    199.440    -.00272      .03877      .00290     -.03171      .00566     -.00001    -4.88640     -.06680  299.86000
   11.010    400.510     .01156      .02678      .00236     -.03176     -.00893     -.00002    -4.94180     -.14814  300.07000

                            RUN NO.   582/ 0    RN/L =    5.98

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
  101.030    101.220     .00121      .03569      .00783     -.00842      .00222     -.00000    -4.92370     -.05557  299.83000
  100.430    199.670    -.00645      .03282      .00773     -.01170     -.00282     -.00000    -4.89740     -.10618  299.94000
  101.130    399.890     .02011      .02704      .00561     -.02788     -.01513     -.00002    -4.90130     -.12274  299.91000

                            RUN NO.   583/ 0    RN/L =    5.97

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
  200.860     99.764     .00457      .02856      .00814     -.01104     -.01418     -.00001    -4.89190     -.12776  299.99000
  202.970    199.690    -.00266      .03109      .01424     -.01528     -.01768     -.00001    -4.84120     -.15164  299.79000
  198.800    398.900     .02436      .02610      .00680     -.04072     -.01649     -.00002    -4.87120     -.04569  300.06000

                            RUN NO.   584/ 0    RN/L =    5.98

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
  400.490     99.950     .02097      .02614      .00980     -.04680     -.01565     -.00002    -4.90450     -.11878  299.77000
  400.500    200.480     .02654      .02420      .00720     -.05410     -.01273     -.00002    -4.93580     -.14795  299.89000
  400.970    400.180     .03018      .02292      .00519     -.05989     -.01045     -.00002    -4.94150     -.14951  300.03000
```

```
                        AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET        (ATU197)   ( 03 OCT 74  )

              REFERENCE DATA                                                            PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                    MACH   =     4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                    ALPHA  =    10.200   BETA   =    11.000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                    DALPHA =      .100   DBETA  =    -4.100
SCALE =       .0100                                                      X      =      .000

                         RUN NO.  587/ 0    RN/L =   5.97

    Y          Z         CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA      X
 100.580    -99.882    .06172    .03157    .02370    .01292    .00564   -.00002    .11701   -4.13710   -.10329
 100.430      -.244    .06573    .03238    .02079    .00305    .01305   -.00004    .13399   -4.15670   -.14401
 100.980     99.860    .06363    .02796    .01034    .00324    .00469   -.00003    .10127   -4.14580   -.09503
 100.650    199.670    .03843    .02752    .00729   -.00918   -.00098   -.00001    .09467   -4.10790   -.02797
 101.060    400.780    .03181    .02718    .01546   -.02461   -.00887   -.00002    .05855   -4.10560    .01441

                         RUN NO.  586/ 0    RN/L =   5.97

    Y          Z         CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA      X
 200.630   -100.230    .06072    .02988    .01448    .00184   -.01161   -.00001    .13177   -4.14100    .03288
 200.240      -.132    .05511    .02969    .01602   -.01531   -.00403   -.00002    .12801   -4.12880   -.15561
 199.030    102.750    .04925    .02630    .01048   -.01439   -.00661   -.00001   -.00526   -4.04410   -.32298
 198.820    200.380    .03438    .02604    .01261   -.02297   -.00733   -.00001    .09996   -4.05300   -.21365
 200.250    399.810    .04297    .02573    .01536   -.03174   -.00852   -.00002    .08419   -4.09700    .30461

                         RUN NO.  585/ 0    RN/L =   5.97

    Y          Z         CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA      X
 399.580    -99.935    .05238    .02511    .01305   -.02838   -.01038   -.00002    .09592   -4.06110   -.03991
 400.480      -.646    .05056    .02347    .01409   -.03610   -.00681   -.00002    .13334   -4.10770    .37723
 400.780     99.686    .05389    .02362    .01224   -.03878   -.00588   -.00002    .11139   -4.12540    .34331
 401.180    199.130    .05466    .02372    .01231   -.03865   -.00620   -.00002    .12886   -4.13250    .67428
 400.240    399.630    .05921    .02283    .00974   -.03818   -.00836   -.00002    .09820   -4.09010    .54973
```

```
                              AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET              (ATU198)   ( 03 OCT 74  )

            REFERENCE DATA                                                                           PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                                   MACH    =     4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                                  ALPHA   =    10.200   BETA   =     11.000
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                                   DALPHA  =      .100   DBETA  =     -4.100
SCALE =       .0100                                                                      X       =   300.000

                         RUN NO.  588/ 0    RN/L =   5.98

    Y          Z          CN        CA        CLM       CY        CYN       CBL        DLTALF    DLTBTA      X
 100.970    -98.921     .06405    .03517    .01961    .00834    .00982    -.00002    .04964   -4.18630  299.78000
 101.030      -.311     .05899    .03670    .01954   -.00584    .01582    -.00003    .11687   -4.13640  299.98000
 100.840     99.648     .04917    .03618    .01480   -.00500    .01604    -.00003    .11618   -4.13380  300.10000
 100.710    199.290     .04002    .02925    .00520   -.00749    .00547    -.00001    .11000   -4.11500  300.05000
 100.490    399.830     .02811    .02767    .01499   -.02382   -.00826    -.00001    .10208   -4.11890  299.73000

                         RUN NO.  589/ 0    RN/L =   5.97

    Y          Z          CN        CA        CLM       CY        CYN       CBL        DLTALF    DLTBTA      X
 201.090   -100.690     .06545    .02773    .01213    .00868   -.00342    -.00002    .13457   -4.12670  300.02000
 202.490     -1.436     .05539    .02855    .01317   -.00602   -.00076    -.00001    .13913   -4.15260  300.16000
 201.060     99.803     .04411    .02876    .01352   -.01838   -.00005    -.00001    .11338   -4.12750  299.93000
 200.390    199.830     .03397    .02577    .01132   -.01965   -.00613    -.00001    .09527   -4.11250  300.00000
 199.740    398.290     .04059    .02614    .01558   -.03151   -.00834    -.00002    .14071   -4.08680  299.94000

                         RUN NO.  590/ 0    RN/L =   5.97

    Y          Z          CN        CA        CLM       CY        CYN       CBL        DLTALF    DLTBTA      X
 400.570   -100.010     .05321    .02601    .01074   -.02020   -.01253    -.00002    .09495   -4.11430  299.83000
 401.430     -1.454     .04390    .02542    .01610   -.03137   -.00886    -.00002    .17463   -4.18280  300.13000
 400.570     99.900     .04702    .02390    .01516   -.03675   -.00698    -.00002    .09459   -4.14460  300.01000
 400.670    200.250     .05216    .02408    .01285   -.03878   -.00616    -.00002    .07712   -4.11830  300.05000
 400.460    400.080     .05804    .02333    .01022   -.03807   -.00682    -.00003    .05310   -4.11430  300.03000
```

```
                                          AEDC/VA528(IA87)-O1ET131-R/H SRB SEPAR.FROM O/ET              (ATU199)    ( 03 OCT 74  )

               REFERENCE DATA                                                                               PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                                     MACH    =     4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                                    ALPHA   =    10.200   BETA   =     11.000
BREF  =  1290.3000 INCHES   ZMRP  =    400.0000 IN. ZS                                    DALPHA  =     5.100   CBETA  =     -4.100
SCALE =       .0100                                                                       X       =   300.000

                              RUN NO.   593/ 0    RN/L =   5.97

     Y          Z          CN          CA          CLM        CY          CYN         CBL        DLTALF      DLTBTA     X
  100.850   -100.130     .11877      .03883      .03009    -.01099      .01590     -.00006     5.14340    -4.16230  299.95000
  100.760       .233     .10129      .04036      .02843     .00997      .01358     -.00004     5.11080    -4.13310  299.87000
  100.760     99.760     .09461      .03663      .01827    -.00055      .01053     -.00003     5.11670    -4.14330  299.98000
  101.070    199.730     .07715      .03118      .01177    -.02296      .00326     -.00003     5.09090    -4.12990  300.03000
  100.590    400.540     .07923      .02793      .01781    -.04518     -.00516     -.00004     5.08740    -4.12290  299.86000

                              RUN NO.   592/ 0    RN/L =   5.96

     Y          Z          CN          CA          CLM        CY          CYN         CBL        DLTALF      DLTBTA     X
  201.180   -100.420     .11078      .03108      .01984    -.01513      .00202     -.00003     5.14370    -4.17010  300.03000
  198.790       .869     .09492      .03125      .02153    -.00582     -.00313     -.00002     5.12720    -4.01700  299.77000
  200.610     99.660     .09212      .02798      .01320    -.02701     -.00419     -.00003     5.10800    -4.11400  300.03000
  197.660    200.440     .08133      .02732      .01446    -.04469     -.00571     -.00004     5.11260    -4.02750  299.78000
  200.610    397.520     .09025      .02743      .01703    -.04457     -.00553     -.00004     5.17640    -4.11220  300.17000

                              RUN NO.   591/ 0    RN/L =   5.97

     Y          Z          CN          CA          CLM        CY          CYN         CBL        DLTALF      DLTBTA     X
  400.290   -100.110     .09230      .02738      .01607    -.04612     -.00525     -.00003     5.10090    -4.08460  299.96000
  400.340      -.294     .09289      .02636      .01640    -.04880     -.00392     -.00004     5.11480    -4.11580  299.91000
  401.050     99.691     .09598      .02643      .01530    -.04702     -.00433     -.00004     5.10750    -4.13810  300.05000
  400.550    199.490     .09795      .02657      .01476    -.04521     -.00549     -.00004     5.13100    -4.09770  300.05000
  400.960    399.940     .10144      .02588      .01291    -.04448     -.00559     -.00004     5.09850    -4.11320  299.99000
```

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA528(IA87)-O1ET1S1-R/M SRB SEPAR.FROM O/ET (ATU209) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 FTOTL = 91.200
ALPHA = 10.200 BETA = 11.000
DALPHA = 5.100 DBETA = -4.100
X = .000

RUN NO. 594/ 0 RN/L = 5.97

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.170	-100.620	.12106	.03410	.03028	.02130	.00404	-.00004	5.14350	-4.03710	.58720
100.510	-.656	.11537	.03269	.02087	.01817	.00756	-.00003	5.13140	-4.13560	.51798
100.080	99.468	.09526	.02993	.01473	-.00278	.00214	-.00002	5.10380	-4.09300	.49482
100.630	199.410	.07468	.02823	.01155	-.03308	-.00257	-.00003	5.09740	-4.09460	.46984
100.990	399.840	.08209	.02798	.01819	-.04248	-.00592	-.00004	5.08140	-4.10550	.47578

RUN NO. 595/ 0 RN/L = 5.97

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.550	-100.320	.10779	.03124	.01915	-.00301	-.00966	-.00002	5.14330	-4.15400	.37574
200.450	-.280	.10425	.02852	.01373	-.01646	-.00643	-.00002	5.11990	-4.13620	.39903
201.850	100.620	.08983	.02746	.01238	-.02937	-.00833	-.00002	5.04660	-4.11220	.55468
200.770	200.470	.08276	.02723	.01619	-.04790	-.00509	-.00004	5.04390	-4.14430	.46277
200.620	399.520	.09170	.02724	.01631	-.04432	-.00574	-.00004	5.08160	-4.09730	.53559

RUN NO. 596/ 0 RN/L = 5.97

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
398.140	-97.930	.09400	.02661	.01616	-.04455	-.00561	-.00004	5.05300	-4.02830	-.30735
400.660	-.106	.09567	.02633	.01503	-.04610	-.00475	-.00004	5.09520	-4.12850	.41155
400.220	99.744	.09745	.02645	.01494	-.04585	-.00505	-.00004	5.11560	-4.11590	.28022
400.390	199.785	.09833	.02638	.01456	-.04452	-.00605	-.00004	5.11060	-4.11200	.41239
400.200	399.900	.10190	.02590	.01286	-.04451	-.00563	-.00004	5.09470	-4.10890	.28355

```
                                   AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET                (ATU201)    ( 03 OCT 74  )

             REFERENCE DATA                                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                                    MACH   =     4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YS                                    ALPHA  =    10.200   BETA   =    11.000
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                                    CALPHA =    -4.900   CBETA  =    -4.100
SCALE =       .0100                                                                       X      =      .000

                         RUN NO.  599/ 0    RN/L =   5.97

      Y          Z          CN          CA          CLM          CY          CYN          CBL          DLTALF        DLTBTA        X
   100.820    100.110     .01552      .02982      .01036     -.00702      .01168      -.00001      -4.90050      -4.13500      .02626
   100.660    199.870     .00953      .02639      .00506     -.00599      .00432      -.00001      -4.91070      -4.11140      .09655
   100.640    399.730     .00119      .02659      .00797     -.00727     -.00884      -.00001      -4.91460      -4.10180     -.15589

                         RUN NO.  598/ 0    RN/L =   5.97

      Y          Z          CN          CA          CLM          CY          CYN          CBL          DLTALF        DLTBTA        X
   200.440     99.911     .00202      .03077      .01478      .00726     -.00980       .00001      -4.89530      -4.11620     -.07121
   199.600    201.440     .00434      .02800      .01031      .00132     -.00882       .00000      -4.97490      -4.09890      .00387
   200.170    399.930     .00817      .02654      .01052     -.00986     -.01343      -.00001      -4.91450      -4.10450     -.11335

                         RUN NO.  597/ 0    RN/L =   5.97

      Y          Z          CN          CA          CLM          CY          CYN          CBL          DLTALF        DLTBTA        X
   399.580     99.103     .01346      .02496      .01217     -.01696     -.01364      -.00001      -4.84420      -4.05700     -.26259
   400.580    199.390     .02011      .02362      .00870     -.02422     -.01049      -.00001      -4.88660      -4.09830     -.14761
   399.710    399.660     .02368      .02249      .00696     -.02958     -.00894      -.00002      -4.90110      -4.07280     -.00659

                                   AEDC/VA528(IA87.-O1ET1S1-R/H SRB SEPAR.FROM O/ET                (ATU202)    ( 03 OCT 74  )

             REFERENCE DATA                                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                                    MACH   =     4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YS                                    ALPHA  =    10.200   BETA   =    11.000
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                                    CALPHA =    -4.900   CBETA  =    -4.100
SCALE =       .0100                                                                       X      =   300.000

                         RUN NO.  600/ 0    RN/L =   5.97

      Y          Z          CN          CA          CLM          CY          CYN          CBL          DLTALF        DLTBTA        X
   101.940    102.260     .00890      .03477      .00645     -.00640      .01539      -.00000      -4.96550      -4.18440   300.9[illegible]00
   199.690    199.870    -.00034      .03212      .00474     -.00870      .01216      -.00001      -4.90150      -4.12800   300.[illegible]
   199.680    400.000     .00142      .02647      .00592     -.00821     -.00658      -.00001      -4.90890      -4.12060   299.84[illegible]

                         RUN NO.  601/ 0    RN/L =   5.97

      Y          Z          CN          CA          CLM          CY          CYN          CBL          DLTALF        DLTBTA        X
   201.270    199.710     .00681      .02827      .00724      .01195     -.00663       .00000      -4.96290      -4.12620   300.07000
   200.500    199.910    -.00280      .03013      .01210      .00065     -.00621       .00001      -4.89990      -4.10870   299.95000
   200.430    399.950     .00639      .02678      .01028     -.00773     -.01310      -.00001      -4.90890      -4.11110   300.02000
```

```
                                       AEDC/VA528(IA87)-O1ET181-R/M SRB SEPAR.FROM O/ET            (ATU202)   ( 03 OCT 74  )

                 REFERENCE DATA                                                                      PARAMETRIC DATA

SREF   =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                                  MACH    =     4.520   PTOTL  =     91.200
LREF   =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                                  ALPHA   =    10.200   BETA   =     11.000
BREF   =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                                  CALPHA  =    -4.900   DBETA  =     -4.100
SCALE  =       .0100                                                                    X       =   300.000

                          RUN NO.  602/ 0    RN/L =   5.97

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
   400.640     98.875     .01030      .02744      .01223     -.00541     -.01743     -.00001    -4.90380    -4.11690  299.83000
   400.800    198.570     .01080      .02544      .01300     -.01569     -.01391     -.00001    -4.88610    -4.15590  299.94000
   400.930    400.680     .02198      .02290      .00757     -.02744     -.00944     -.00002    -4.98210    -4.18120  300.03000

                                       AEDC/VA528(IA87)-O1ET181-R/M SRB SEPAR.FROM O/ET            (ATU203)   ( 03 OCT 74  )

                 REFERENCE DATA                                                                      PARAMETRIC DATA

SREF   =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                                  MACH    =     4.520   PTOTL  =     91.200
LREF   =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                                  ALPHA   =    10.200   BETA   =     11.000
BREF   =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                                  CALPHA  =      .100   DBETA  =     -8.100
SCALE  =       .0100                                                                    X       =      .000

                          RUN NO.  604/ 0    RN/L =   5.97

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
   201.020   -100.120     .06022      .02733      .01681      .03362     -.00045     -.00002      .12501    -8.14210    -.06430
   200.720      -.070     .06737      .02651      .01494      .01628      .00707     -.00004      .12503    -8.13940     .00327
   200.940     99.498     .07012      .02583      .00770      .02244      .00068     -.00004      .11803    -8.13500     .12100
   200.680    199.730     .05119      .02671      .00853      .01401     -.00431     -.00002      .09992    -8.11500    -.12140
   200.590    399.860     .03544      .02561      .01631     -.01072     -.00356     -.00002      .08394    -8.09870    -.24620

                          RUN NO.  603/ 0    RN/L =   5.97

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA      X
   400.810   -100.140     .05491      .02748      .01096      .02321     -.01621     -.00002      .10661    -8.12110    -.06559
   400.340     -1.055     .05100      .02576      .01276      .00539     -.00731     -.00001      .15705    -8.10130    -.13555
   400.000    100.300     .05509      .02325      .00965     -.00542     -.00573     -.00002      .06685    -8.09210    -.15349
   401.400    199.800     .05005      .02343      .01259     -.01127     -.00397     -.00002      .09652    -8.12260     .03341
   399.830    399.630     .05246      .02285      .01184     -.01430     -.00310     -.00002      .10104    -8.07940     .35515
```

```
                                AEDC/VA520(IA87)-O1ET151-R/H SRB SEPAR.FROM O/ET        (ATU204)   ( 03 OCT 74  )

          REFERENCE DATA                                                               PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                      MACH    =     4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                     ALPHA   =    10.200   BETA   =    11.000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                      DALPHA  =      .100   DBETA  =    -8.100
SCALE =       .0100                                                        X       =   300.000

                      RUN NO.  605/ 0    RN/L =   5.98

     Y         Z          CN        CA        CLM       CY        CYN       CBL       DLTALF     DLTBTA      X
  202.190   -100.270    .06413    .02725    .01426    .03979    .00880   -.00002    .15206   -8.10980  300.24000
  200.980     -.221     .06995    .02688    .01299    .00657    .01459   -.00004    .13217   -8.14880  299.94000
  200.790     99.878    .05514    .02659    .01320    .01654    .00810   -.00003    .11187   -8.12950  299.92000
  200.690    199.720    .05413    .02538    .00706    .01263   -.00069   -.00005    .09782   -8.11820  299.96000
  200.760    399.500    .03266    .02577    .01631   -.01022   -.00341   -.00001    .10042   -8.10610  299.88000

                      RUN NO.  606/ 0    RN/L =   5.97

     Y         Z          CN        CA        CLM       CY        CYN       CBL       DLTALF     DLTBTA      X
  401.110   -100.180    .06252    .02801    .00614    .03198   -.01541   -.00002    .09614   -8.11570  300.02000
  400.590     -.148     .05000    .02726    .01221    .01032   -.01026   -.00001    .10046   -8.11900  300.00000
  400.360     99.847    .04676    .02610    .01374   -.00413   -.00567   -.00001    .10272   -8.11170  299.97000
  401.110    200.110    .04913    .02347    .01241   -.00981   -.00425   -.00002    .08628   -8.13320  299.98000
  400.740    399.520    .05137    .02304    .01224   -.01444   -.00275   -.00002    .08801   -8.14360  300.06000


                                AEDC/VA520(IA87)-O1ET151-R/H SRB SEPAR.FROM O/ET        (ATU205)   ( 03 OCT 74  )

          REFERENCE DATA                                                               PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                      MACH    =     4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                     ALPHA   =    10.200   BETA   =    11.000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                      DALPHA  =     5.100   DBETA  =    -8.100
SCALE =       .0100                                                        X       =   300.000

                      RUN NO.  608/ 0    RN/L =   5.96

     Y         Z          CN        CA        CLM       CY        CYN       CBL       DLTALF     DLTBTA      X
  201.580   -100.590    .11641    .03013    .02209    .01856    .01345   -.00006   5.17000   -8.20190  300.05000
  200.690     -.247     .10361    .02939    .02097    .03340    .00638   -.00004   5.12290   -8.14380  299.93000
  200.120     99.326    .09682    .02847    .01488    .01918    .00013   -.00002   5.11660   -8.11420  300.00000
  200.590    199.610    .08658    .02764    .01320   -.00332   -.00258   -.00003   5.10550   -8.13670  300.04000
  199.340    397.790    .08673    .02627    .01685   -.02506    .00043   -.00004   5.17650   -8.12070  299.98000
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                    AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET            (ATU205)    ( 03 OCT 74  )

           REFERENCE DATA                                                                 PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                         MACH   =     4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                        ALPHA  =    10.200   BETA   =    11.000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                         DALPHA =     5.100   CBETA  =    -8.100
SCALE =       .0100                                                           X      =   300.000

                    RUN NO.  607/ 0    RN/L =   5.97

    Y          Z          CN        CA        CLM       CY        CYN       CBL       DLTALF     DLTBTA       X
  400.900   -100.420    .09951    .02873    .01311   -.00368   -.00546   -.00003   5.10320   -8.10620   300.00000
  400.470     -.033     .09664    .02747    .01351   -.01052   -.00476   -.00003   5.09190   -8.07070   299.98000
  400.440     99.770    .09353    .02577    .01488   -.01997   -.00189   -.00004   5.09700   -8.09250   299 88000
  401.630    199.640    .09415    .02590    .01503   -.02174   -.00046   -.00004   5.12960   -8.13350   300.12000
  400.640    399.900    .09742    .02502    .01363   -.01757   -.00238   -.00004   5.09710   -8.11010   300.11000

                    AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET            (ATU205 )   ( 03 OCT 74  )

           REFERENCE DATA                                                                 PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                         MACH   =     4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                        ALPHA  =    10.200   BETA   =    11.000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                         DALPHA =     5.100   CBETA  =    -8.100
SCALE =       .0100                                                           X      =      .000

                    RUN NO.  609/ 0    RN/L =   5.97

    Y          Z          CN        CA        CLM       CY        CYN       CBL       DLTALF     DLTBTA       X
  200.990   -100.240    .11370    .02922    .02119    .03301    .00222   -.00004   5.13840   -8.16170     .38036
  200.780     -.456     .11060    .02869    .01549    .03554   -.00214   -.00003   5.13960   -8.15320     .49179
  200.760     99.644    .09468    .02873    .01399    .01499   -.00344   -.00002   5.11210   -8.12510     .45188
  200.440    201.030    .08319    .02708    .01416   -.00861   -.00453   -.00003   5.01300   -8.07030     .44755
  200.560    399.850    .08790    .02628    .01674   -.02392    .00008   -.00004   5.09360   -8.10870     .47041

                    RUN NO.  610/ 0    RN/L =   5.97

    Y          Z          CN        CA        CLM       CY        CYN       CBL       DLTALF     DLTBTA       X
  400.600   -100.420    .10195    .02771    .01184   -.00469   -.00606   -.00004   5.11790   -8.13260     .57360
  400.270     -.181     .09764    .02631    .01281   -.01059   -.00529   -.00004   5.11980   -8.12360     .43330
  400.980     99.223    .09342    .02584    .01545   -.01988   -.00127   -.00004   5.15410   -8.18910     .43407
  400.330    199.620    .09455    .02564    .01516   -.02118   -.00088   -.00004   5.11330   -8.13290     .28612
  399.590    399.880    .09829    .02496    .01330   -.01790   -.00238   -.00004   5.10300   -8.06850     .29873
```

```
                         AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET             (ATU207)   ( 03 OCT 74  )

              REFERENCE DATA                                                             PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                            MACH   =      4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                            ALPHA  =     10.200   BETA   =     11.000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                            DALPHA =     -4.900   DBETA  =     -8.100
SCALE =       .0100                                                               X      =       .000

                      RUN NO.  612/ 0    RN/L =   5.97

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  199.850     99.949     .00953     .02630     .01224     .01243     .00054    -.00000   -4.88730   -8.11320    -.31315
  197.810    202.270     .01472     .02558     .00524     .01304     .00465    -.00002   -5.00510   -7.99790    -.29660
  200.850    399.890     .00150     .02627     .00935     .01453    -.00856     .00000   -4.91260   -8.10660    -.13429

                      RUN NO.  611/ 0    RN/L =   5.97

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  400.630     99.986     .00236     .03061     .01568     .02864    -.01796     .00001   -4.89900   -8.11680    -.13111
  401.060    200.400     .01803     .02354     .00709     .01010    -.01048    -.00000   -4.95670   -8.08070     .04904
  400.030    399.850     .01331     .02314     .01006    -.00195    -.00740    -.00001   -4.91050   -8.08200    -.01378

                         AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET             (ATU208)   ( 03 OCT 74  )

              REFERENCE DATA                                                             PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                            MACH   =      4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                            ALPHA  =     10.200   BETA   =     11.000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                            DALPHA =     -4.900   DBETA  =     -8.100
SCALE =       .0100                                                               X      =    300.000

                      RUN NO.  613/ 0    RN/L =   5.98

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  201.540     99.260     .01551     .02575     .00744     .01202     .00964    -.00000   -4.87670   -8.13460  299.99000
  200.750    199.910     .01169     .02708     .00717     .00483     .00986    -.00001   -4.89780   -8.11960  299.94000
  201.700    399.890     .00384     .02596     .00734     .01471    -.00704     .00000   -4.91890   -8.13850  300.24000

                      RUN NO.  614/ 0    RN/L =   5.97

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  400.870     99.858     .01121     .02816     .00914     .03474    -.01772    -.00001   -4.90230   -8.12840  300.02000
  400.210    200.050    -.00038     .02998     .01577     .02172    -.01489     .00001   -4.90770   -8.10100  299.83000
  400.470    399.780     .01280     .02354     .01022    -.00107    -.00777    -.00001   -4.90710   -8.10740  299.91000
```

AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET (ATU209) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = 10.200 BETA = 11.000
DALPHA = .100 DBETA = -.100
X = .000

RUN NO. 616/ 0 RN/L = 5.97

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-397.920	-100.610	.07206	.02578	.01186	-.07610	-.01308	-.00004	.11380	-.15689	-.00795
-398.050	-.561	.07122	.02473	.01118	-.07999	-.01446	-.00004	.11690	-.13911	.13901
-399.320	99.066	.07134	.02478	.01031	-.08230	-.01494	-.00004	.13161	-.07344	.18126
-398.410	199.830	.06905	.02527	.00927	-.08644	-.01241	-.00003	.10032	-.12154	.08821
-399.160	399.550	.06469	.02666	.00814	-.08478	-.00514	-.00003	.09556	-.10054	.23033

RUN NO. 618/ 0 RN/L = 5.98

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-201.650	-101.290	.05968	.02981	.01754	-.06624	-.01736	-.00005	.17116	.00273	-.28338
-198.540	-.228	.06290	.03149	.01686	-.06768	-.02150	-.00005	.08790	-.11231	-.09240
-201.530	101.100	.06551	.03022	.01287	-.08487	-.02440	-.00005	.01603	-.00901	.19176
-198.920	199.640	.06456	.02630	.00805	-.10010	-.02080	-.00004	.09375	-.10223	.06782
-199.410	399.640	.05828	.02617	.00844	-.09126	-.00948	-.00004	.10642	-.10247	.07330

RUN NO. 619/ 0 RN/L = 5.98

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-99.051	-99.950	.04104	.02521	.01374	-.04683	-.01192	-.00003	.09139	-.09943	-.01893
-100.790	-.625	.05721	.02454	.01239	-.03954	-.01261	-.00003	.09304	-.02809	-.01183
-99.074	99.543	.06223	.02992	.01456	-.06241	-.01931	-.00004	.07635	-.05507	.17513
-97.790	199.930	.05873	.03362	.00918	-.09708	-.02454	-.00005	.08046	-.11858	-.22482
-100.000	400.760	.05209	.02619	.00773	-.09366	-.01221	-.00004	.06405	-.04800	.09289

RUN NO. 620/ 0 RN/L = 6.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-49.419	-100.560	.02684	.02044	.01031	-.03137	-.00839	-.00002	.08183	-.07013	-.11421
-47.226	-.498	.04699	.01935	.00932	-.02622	-.00617	-.00002	.04704	-.13699	.04913
-47.708	100.310	.05800	.02346	.01305	-.05105	-.01355	-.00003	.04756	-.11921	.02491
-47.565	199.990	.05662	.03266	.00871	-.09360	-.02266	-.00005	.06078	-.12085	.01814
-48.925	399.600	.05012	.02612	.00709	-.09381	-.01361	-.00004	.09367	-.09811	.31516

```
                                   AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET           (ATU210)    ( 03 OCT 74  )

                 REFERENCE DATA                                                                   PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                               MACH    =     4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                               ALPHA   =    10.200   BETA   =     11.000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                               DALPHA  =      .100   DBETA  =      -.100
SCALE =       .0100                                                                 X       =   300.000

                          RUN NO.   624/ 0    RN/L =    5.99

     Y          Z          CN         CA        CLM       CY        CYN       CBL        DLTALF     DLTBTA      X
  -398.470   -100.300    .07310     .02913    .01325   -.07394   -.01832   -.00005     .10155    -.12440  299.90000
  -399.720       .201    .07409     .02949    .01187   -.08344   -.01800   -.00005     .08253    -.10230  300.08000
  -399.150    100.280    .06851     .02784    .01183   -.09240   -.01696   -.00005     .08698    -.12125  300.08000
  -398.560    200.780    .06618     .02517    .00950   -.09317   -.01683   -.00004     .04054    -.11414  300.04000
  -398.630    399.590    .06331     .02641    .00860   -.08748   -.00838   -.00004     .09702    -.11139  300.15000

                          RUN NO.   623/ 0    RN/L =    5.99

     Y          Z          CN         CA        CLM       CY        CYN       CBL        DLTALF     DLTBTA      X
  -197.170    -98.839    .04873     .01998    .00929   -.03627   -.00832   -.00002     .05559    -.16142  300.12000
  -199.000      -.367    .06245     .02188    .00951   -.04198   -.00977   -.00002     .09745    -.09926  300.13000
  -198.220     99.724    .06709     .02624    .01164   -.06237   -.01211   -.00003     .09648    -.10507  300.33000
  -200.680    197.790    .08713     .03227    .01069   -.09189   -.01888   -.00005     .17763    -.03469  300.04000
  -198.690    399.760    .05398     .02652    .00823   -.09422   -.01498   -.00004     .09905    -.11214  300.11000

                          RUN NO.   622/ 0    RN/L =    5.99

     Y          Z          CN         CA        CLM       CY        CYN       CBL        DLTALF     DLTBTA      X
   -96.803   -100.980    .03070     .01321    .00689   -.02593   -.00559   -.00002     .12207    -.17726  300.39000
   -97.926     -2.095    .05636     .01632    .00510   -.02646   -.00399   -.00002     .10046    -.12595  299.99000
  -102.860     97.793    .06349     .01986    .00875   -.04727   -.00686   -.00003     .16379     .01989  300.09000
   -98.197    199.900    .06388     .02565    .01115   -.07262   -.01228   -.00004     .07774    -.11690  300.08000
   -99.033    399.790    .04098     .02997    .00528   -.09903   -.01876   -.00004     .09535    -.11086  299.87000

                          RUN NO.   621/ 0    RN/L =    5.99

     Y          Z          CN         CA        CLM       CY        CYN       CBL        DLTALF     DLTBTA      X
   -50.419    -98.976    .02441     .01352    .00578   -.02301   -.00686   -.00001     .07740    -.03144  300.00000
   -48.804      -.397    .04660     .01545    .00343   -.02183   -.00444   -.00002     .07809    -.08915  300.20000
   -49.179     99.613    .06069     .01782    .00846   -.03779   -.00753   -.00002     .08125    -.08853  300.17000
   -48.662    199.670    .06177     .02223    .01051   -.06983   -.01206   -.00003     .08213    -.09509  300.22000
   -48.707    399.680    .03602     .03219    .00433   -.09994   -.01998   -.00004     .09261    -.11686  299.98000
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                              AEDC/VA528(IA87)-O1ET131-L/H SRB SEPAR.FROM O/ET             (ATU211)   ( 03 OCT 74  )

             REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                          MACH   =     4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                          ALPHA  =    10.200   BETA   =     11.000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                          DALPHA =     5.100   DBETA  =      -.100
SCALE =       .0100                                                            X      =   300.000

                         RUN NO.  625/ 0    RN/L =   5.99

     Y          Z          CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA     X
  -398.830   -100.430    .11815    .03293    .01696   -.09150   -.01612   -.00005   5.10000   -.11556  300.08000
  -397.440     -1.341    .11681    .03240    .01800   -.09618   -.01918   -.00006   5.16890   -.16068  300.15000
  -400.590     98.270    .11792    .02961    .01482   -.10477   -.02003   -.00005   5.16760   -.00495  300.34000
  -398.590    199.740    .11053    .02895    .01306   -.10859   -.01444   -.00005   5.10380   -.11594  299.89000
  -398.380    399.840    .10442    .02913    .01247   -.09057   -.00454   -.00005   5.08990   -.11993  300.21000

                         RUN NO.  626/ 0    RN/L =   6.01

     Y          Z          CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA     X
  -199.450   -100.800    .09571    .02375    .01183   -.04286   -.00697   -.00003   5.11450   -.07986  300.23000
  -200.260     -1.596    .10435    .02693    .01322   -.06097   -.00687   -.00004   5.14250   -.07411  300.23000
  -201.000     98.034    .11295    .03076    .01559   -.08463   -.00801   -.00005   5.16150   -.03874  300.29000
  -197.690    199.470    .11147    .03644    .01611   -.10771   -.02033   -.00006   5.10450   -.14729  299.91000
  -198.820    399.340    .09758    .02914    .01181   -.09876   -.01200   -.00005   5.10540   -.10747  300.36000

                         RUN NO.  627/ 0    RN/L =   6.01

     Y          Z          CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA     X
   -98.478   -100.380    .07782    .01825    .00570   -.02622   -.00005   -.00002   5.08330   -.09684  300.13000
   -98.682      -.426    .09256    .01964    .00858   -.04082   -.00274   -.00003   5.08170   -.09744  299.99000
   -98.785     99.563    .10147    .02311    .01161   -.06630   -.00506   -.00004   5.08360   -.09501  300.16000
   -99.452    199.680    .10908    .03034    .01493   -.09306   -.00940   -.00005   5.09190   -.08167  300.04000
  -101.650    401.650    .08923    .03153    .00904   -.10189   -.01710   -.00005   5.04260    .00722  299.96000

                         RUN NO.  628/ 0    RN/L =   6.00

     Y          Z          CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA     X
   -49.359    -98.342    .06502    .01827    .00306   -.02065   -.00100   -.00002   5.00660   -.03404  299.78000
   -48.690      -.265    .08236    .01872    .00779   -.03357   -.00067   -.00002   5.08120   -.08821  300.01000
   -47.802     99.810    .09365    .02090    .01143   -.06383   -.00483   -.00003   5.08330   -.10960  300.26000
   -53.044    197.660    .10546    .02816    .01395   -.09226   -.00752   -.00005   5.15960    .01784  300.37000
   -48.779    399.840    .08474    .03399    .00743   -.10094   -.01935   -.00005   5.09740   -.11439  299.99000
```

```
                                 AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET            (ATU212)    ( 03 OCT 74  )

               REFERENCE DATA                                                                       PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                          MACH   =    4.520   PTOTL  =    91.200
 LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                          ALPHA  =   10.200   BETA   =    11.000
 BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                          DALPHA =    5.100   DBETA  =     -.100
 SCALE =       .0100                                                             X      =     .000

                         RUN NO.  632/ 0    RN/L =   6.03

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
   -398.630   -100.400     .11590     .02756     .01631    -.08413    -.01552    -.00005    5.10570    -.11992     .12488
   -399.690       .216     .11647     .02783     .01480    -.09210    -.01502    -.00005    5.07670    -.10746    -.18576
   -397.970    100.370     .11509     .02828     .01318    -.10000    -.01161    -.00005    5.06680    -.17700    -.07045
   -398.950    199.550     .11102     .02888     .01284    -.10303    -.00728    -.00005    5.10410    -.11320     .11129
   -399.000    399.450     .10351     .02931     .01318    -.08246    -.00456    -.00005    5.09630    -.10794     .53926

                         RUN NO.  631/ 0    RN/L =   6.02

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
   -198.730   -100.190     .10386     .03321     .02229    -.06775    -.01935    -.00005    5.08740    -.09629     .10067
   -199.540      -.200     .11346     .03346     .01931    -.08372    -.02197    -.00006    5.08760    -.08541    -.14306
   -200.810     97.338     .11562     .03368     .01579    -.10614    -.02341    -.00006    5.16650    -.00013    -.01603
   -199.320    199.880     .10529     .02952     .01317    -.11704    -.01967    -.00006    5.09950    -.09261    -.22486
   -197.120    398.420     .10360     .02894     .01200    -.09129    -.00510    -.00005    5.14490    -.18101     .56001

                         RUN NO.  630/ 0    RN/L =   6.01

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
    -97.987    -99.663     .08803     .02765     .01594    -.03281    -.01250    -.00003    5.05090    -.10971    -.03713
   -100.140     -1.027     .09866     .03003     .01772    -.05504    -.01048    -.00004    5.10660    -.08273     .19666
    -98.548    100.010     .10962     .03395     .01790    -.08717    -.01697    -.00006    5.06270    -.09997    -.04457
    -98.664    199.530     .09993     .03693     .01334    -.11852    -.02478    -.00007    5.08420    -.09911     .40384
    -99.311    399.390     .09833     .02893     .01075    -.09413    -.00759    -.00005    5.10690    -.09594     .70223

                         RUN NO.  629/ 0    RN/L =   6.01

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
    -47.204    -99.970     .06905     .02298     .01117    -.01672    -.00698    -.00002    5.07590    -.08704    -.19987
    -49.154      -.793     .09035     .02201     .01179    -.03965    -.00474    -.00003    5.08300    -.06552     .10182
    -49.891     98.762     .10450     .02928     .01637    -.07767    -.00889    -.00004    5.10400    -.03109     .21089
    -47.381    199.990     .09794     .03712     .01372    -.11200    -.02246    -.00006    5.06310    -.13122     .26903
    -49.006    399.540     .09652     .02900     .01018    -.09429    -.00893    -.00005    5.09850    -.10697     .58783
```

```
                         AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET            (ATU213)    ( 03 OCT 74  )

              REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                         MACH   =      4.520  PTOTL   =     91.200
LREF  =  1290.3000 INCHES   YMRP  =        .0000 IN. YS                       ALPHA  =     10.200  BETA    =     11.000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                         CALPHA =     -4.900  CBETA   =      -.100
SCALE =       .0100                                                           X      =       .000

                        RUN NO.   633/ 0    RN/L =   6.03

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -398.410     99.584     .03612     .02297     .00546    -.07325    -.01498    -.00003   -4.88280    -.13099    -.09317
  -400.600    198.800     .03420     .02315     .00508    -.07582    -.01520    -.00003   -4.85890    -.00617    -.01645
  -399.110    399.450     .03071     .02429     .00346    -.07867    -.00982    -.00003   -4.90310    -.09986     .23530

                        RUN NO.   634/ 0    RN/L =   6.02

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -198.170     99.632     .02452     .02983     .00982    -.07332    -.02206    -.00004   -4.90710    -.12557    -.06978
  -198.970    202.250     .02744     .02495     .00387    -.08497    -.02179    -.00004   -5.02260    -.11689     .48222
  -198.430    399.660     .02480     .02415     .00248    -.08434    -.01439    -.00003   -4.90700    -.11440     .24816

                        RUN NO.   635/ 0    RN/L =   6.01

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   -98.943     99.400     .02702     .02646     .00952    -.05076    -.01705    -.00003   -4.90080    -.07960     .06504
   -97.949    199.950     .02272     .03113     .00687    -.07469    -.02531    -.00004   -4.93110    -.11640    -.00967
  -100.540    401.460     .01326     .02414     .00176    -.09213    -.01507    -.00003   -4.94700    -.07338     .10609

                        RUN NO.   636/ 0    RN/L =   6.02

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   -49.142     99.659     .02103     .02110     .00889    -.03939    -.01157    -.00002   -4.93310    -.06204     .09065
   -46.697    199.790     .02053     .02904     .00822    -.06571    -.02504    -.00004   -4.94130    -.13867     .09939
   -48.751    399.710     .01040     .02487     .00128    -.09445    -.01509    -.00003   -4.91790    -.09821     .14958
```

AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET (ATU214) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = 10.200 BETA = 11.000
DALPHA = -4.900 DBETA = -.100
X = 300.000

RUN NO. 640/ 0 RN/L = 6.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-398.720	99.843	.03336	.02580	.00600	-.07915	-.01867	-.00004	-4.89910	-.11491	299.99000
-398.640	199.800	.02974	.02474	.00539	-.08803	-.01423	-.00004	-4.90830	-.11287	300.15000
-396.610	400.480	.02929	.02429	.00347	-.07895	-.01314	-.00003	-4.95030	-.16840	300.24000

RUN NO. 639/ 0 RN/L = 6.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	CLTALF	DLTBTA	X
-199.670	99.774	.03351	.02303	.00665	-.04690	-.01311	-.00003	-4.90330	-.08600	300.09000
-199.560	200.010	.02912	.02877	.00658	-.07084	-.01945	-.00004	-4.91340	-.08531	300.10000
-198.280	399.740	.01934	.02437	.00142	-.08891	-.01805	-.00003	-4.89940	-.12078	300.26000

RUN NO. 638/ 0 RN/L = 6.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	CLTBTA	X
-99.429	99.661	.03136	.01710	.00405	-.03410	-.00775	-.00002	-4.90880	-.08508	300.18000
-98.736	199.910	.03074	.02353	.00701	-.05332	-.01226	-.00003	-4.91840	-.10499	300.07000
-98.762	399.940	.01206	.02987	-.00253	-.09209	-.02131	-.00004	-4.90810	-.11853	300.01000

RUN NO. 637/ 0 RN/L = 6.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-48.589	99.631	.03386	.01517	.00327	-.02718	-.00697	-.00002	-4.92070	-.09824	300.19000
-48.984	199.880	.03081	.02065	.00693	-.05244	-.01152	-.00002	-4.92160	-.08602	300.28000
-49.001	399.790	.00664	.03133	-.00369	-.09355	-.02180	-.00004	-4.91230	-.11053	299.92000

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA528(IA87)-O1ET151-L/H SRB SEPAR.FROM O/ET (ATU215) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 91.200
ALPHA = 10.200 BETA = 11.000
DALPHA = .100 DBETA = 3.900
X = .000

RUN NO. 641/ 0 RN/L = 6.02

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-397.840	-101.210	.07199	.02745	.01351	-.10180	-.01985	-.00005	.15913	3.86610	-.10468
-398.600	-.119	.07876	.02693	.00934	-.11109	-.01936	-.00005	.09232	3.88970	-.07271
-398.960	99.050	.07454	.02784	.01039	-.11925	-.01815	-.00005	.14929	3.88260	-.14225
-398.100	199.840	.07321	.02755	.00867	-.12344	-.01750	-.00005	.10365	3.86770	-.09737
-399.190	399.670	.06523	.02916	.00915	-.12734	-.00766	-.00005	.09704	3.89920	.26680

RUN NO. 642/ 0 RN/L = 6.04

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-198.120	-100.080	.04683	.02919	.02056	-.07848	-.02474	-.00005	.07157	3.88430	.00433
-198.940	-.108	.06134	.03064	.01680	-.08021	-.02910	-.00005	.07075	3.91290	-.12039
-202.250	100.950	.07160	.03144	.01121	-.10300	-.03193	-.00006	-.00149	4.00720	.41806
-198.460	199.590	.06949	.02895	.00675	-.13209	-.02769	-.00006	.08369	3.90530	.11799
-199.290	399.630	.05542	.02877	.00892	-.13455	-.01245	-.00005	.10159	3.89990	.32314

RUN NO. 643/ 0 RN/L = 6.05

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-100.420	-99.334	.02176	.02417	.01776	-.06516	-.01735	-.00004	.07438	3.92690	-.03630
-100.590	-.617	.04669	.02488	.01637	-.05182	-.01810	-.00004	.07575	3.98420	.14346
-99.895	99.626	.06345	.02881	.01562	-.07837	-.02666	-.00005	.05231	3.96540	.02308
-98.627	199.890	.06323	.03460	.00793	-.12615	-.03125	-.00006	.06837	3.89360	-.35060
-101.120	401.250	.04671	.02856	.00777	-.13586	-.01566	-.00005	.05044	3.97180	.06355

```
                                  AEDC/VA528(IA87)-O1ET151-L/H SRB SEPAR.FROM O/ET              (ATU216)    ( 03 OCT 74  )

              REFERENCE DATA                                                                         PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.0000 IN. XO                                   MACH    =     4.520   PTOTL   =     91.200
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                                   ALPHA   =    10.200   BETA    =     11.000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                                   DALPHA  =      .100   DBETA   =      3.900
SCALE =       .0100                                                                     X       =   300.000

                              RUN NO.  646/ 0    RN/L =   6.03

      Y          Z          CN         CA         CLM        CY         CYN        CBL         DLTALF      DLTBTA       X
  -397.970   -100.100     .07260     .02954     .01389    -.09223    -.02688    -.00006      .10672     3.85820   299.87000
  -400.210       .181     .07693     .02991     .01166    -.10698    -.02646    -.00005      .08136     3.90520   300.18000
  -398.880    100.690     .07535     .02982     .00958    -.12407    -.02258    -.00006      .06565     3.83180   300.03000
  -399.250    200.220     .07134     .02790     .00892    -.12851    -.02206    -.00005      .06565     3.88870   300.06000
  -398.970    399.720     .06354     .02895     .00883    -.13063    -.01128    -.00005      .09670     3.89650   300.23000

                              RUN NO.  645/ 0    RN/L =   6.04

      Y          Z          CN         CA         CLM        CY         CYN        CBL         DLTALF      DLTBTA       X
  -198.360    -98.723     .03980     .01879     .01145    -.04788    -.01342    -.00003      .06491     3.86860   300.06000
  -199.950      -.446     .06209     .02204     .00977    -.04982    -.01426    -.00003      .09501     3.92430   300.07000
  -199.970     99.742     .07374     .02718     .01091    -.07955    -.01682    -.00003      .09232     3.93280   300.15000
  -198.430    199.890     .07356     .03326     .01023    -.11647    -.02507    -.00005      .08473     3.88610   299.97000
  -198.800    399.770     .05051     .02926     .00711    -.14007    -.01815    -.00005      .09912     3.88380   300.18000

                              RUN NO.  644/ 0    RN/L =   6.05

      Y          Z          CN         CA         CLM        CY         CYN        CBL         DLTALF      DLTBTA       X
   -99.983   -100.250     .01334     .01218     .00808    -.04474    -.00935    -.00002      .08039     3.91170   299.90000
   -98.475     -3.716     .04721     .01472     .00749    -.03391    -.00985    -.00002      .13370     3.92490   299.87000
  -102.500     97.540     .06615     .02017     .00945    -.06165    -.01048    -.00003      .14938     3.98640   300.36000
   -98.988    200.030     .06977     .02641     .01038    -.09969    -.01732    -.00004      .06937     3.89850   299.90000
   -99.680    399.790     .03916     .03390     .00444    -.14268    -.02279    -.00005      .09291     3.89840   299.92000
```

```
                                 AEDC/VA528(IA87)-O1ET151-L/H SRB SEPAR.FROM O/ET              (ATU217)   ( 03 OCT 74  )

              REFERENCE DATA                                                                          PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                                   MACH    =     4.520   PTOTL   =     91.200
 LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                                   ALPHA   =    10.200   BETA    =     11.000
 BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                                   DALPHA  =     5.100   DBETA   =      3.900
 SCALE =       .0100                                                                       X       =   300.000

                             RUN NO.  647/ 0    RN/L =    6.03

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
   -397.050   -100.530    .12054     .03352     .01738    -.11451    -.02314    -.00006    5.11940    3.85520  299.96000
   -398.350      -.276    .12260     .03491     .01640    -.12997    -.02248    -.00006    5.11200    3.87800  300.20000
   -399.920     98.189    .12285     .03232     .01494    -.13833    -.02522    -.00006    5.18210    3.96520  300.31000
   -398.610    199.860    .11822     .03141     .01207    -.14730    -.02037    -.00005    5.10510    3.88040  299.87000
   -397.850    399.870    .10617     .03191     .01326    -.13299    -.00866    -.00005    5.09620    3.87310  300.19000

                             RUN NO.  648/ 0    RN/L =    6.03

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
   -199.850   -101.140    .09091     .02407     .01223    -.04929    -.01187    -.00003    5.11740    3.95890  300.44000
   -200.930     -2.170    .10491     .02644     .01382    -.08111    -.00904    -.00004    5.15850    3.90810  300.41000
   -198.870     99.765    .11621     .03193     .01550    -.11195    -.01212    -.00005    5.08760    3.89210  299.96000
   -197.290    199.550    .11794     .03911     .01671    -.14384    -.02193    -.00007    5.10720    3.83640  299.84000
   -198.900    399.430    .09469     .03107     .01170    -.13894    -.01756    -.00006    5.10560    3.89210  300.25000

                             RUN NO.  649/ 0    RN/L =    6.01

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
    -98.201    -96.535    .05964     .01602     .00713    -.03237    -.00659    -.00002    4.96540    3.93680  299.56000
    -99.534      -.605    .09051     .02034     .00929    -.05594    -.00296    -.00003    5.07810    3.91740  300.07000
    -99.991     99.498    .10551     .02318     .01156    -.09191    -.00759    -.00003    5.08110    3.92690  300.79000
   -100.160    199.550    .11199     .03248     .01498    -.12957    -.01126    -.00006    5.08360    3.93450  300.20000
    -99.352    399.760    .08720     .03402     .00784    -.13918    -.02316    -.00006    5.09580    3.88980  299.94000
```

```
DATE 29 MAY 75                                  IA87 TABULATED SOURCE DATA                                              PAGE  435

                                   AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET                  (ATU218)    ( 03 OCT 74  )

            REFERENCE DATA                                                                              PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =   1258.5000 IN. XS                               MACH    =      4.520   PTOTL   =     91.200
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                               ALPHA   =     10.200   BETA    =     11.000
BREF  =  1290.3000 INCHES    ZMRP  =    400.0000 IN. ZS                               DALPHA  =      5.100   DBETA   =      3.900
SCALE =        .0100                                                                  X       =       .000

                        RUN NO.   652/ 0     RN/L =    6.01

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
  -398.790   -100.400     .12157      .03007      .01539     -.11705     -.01872     -.00006     5.10700     3.88680     .12094
  -399.300      -.356     .12100      .03021      .01548     -.12480     -.01965     -.00006     5.10690     3.91310     .35531
  -398.950    100.650     .12125      .03029      .01286     -.13494     -.01818     -.00006     5.06590     3.86780     .09308
  -398.750    199.430     .11663      .03142      .01232     -.14459     -.01271     -.00006     5.10820     3.88470     .64605
  -399.360    399.790     .10683      .03270      .01343     -.12491     -.00597     -.00006     5.08900     3.89780     .61806

                        RUN NO.   651/ 0     RN/L =    6.02

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
  -195.100   -100.010     .10135      .03214      .02187     -.07281     -.02728     -.00005     5.08870     3.85090    -.05176
  -198.360      -.366     .11279      .03535      .01927     -.10049     -.02644     -.00006     5.08040     3.91370     .26384
  -198.510     99.733     .11920      .03615      .01540     -.13581     -.02691     -.00007     5.07740     3.90490     .62151
  -198.490    199.760     .11072      .03288      .01204     -.15729     -.02501     -.00007     5.06680     3.90350     .28180
  -198.380    399.580     .10188      .03169      .01210     -.13121     -.00951     -.00006     5.10660     3.88080     .74401

                        RUN NO.   650/ 0     RN/L =    6.01

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
   -98.311    -99.220     .06821      .02649      .02094     -.04069     -.01776     -.00004     5.01470     3.88940    -.41911
  -102.120       .093     .09852      .02774      .01663     -.06588     -.01723     -.00004     5.00860     3.99760     .76606
   -97.859    100.060     .11327      .03511      .01780     -.11518     -.01905     -.00006     5.04710     3.89430     .29586
   -98.511    199.630     .10499      .03992      .01309     -.15533     -.02789     -.00008     5.07080     3.90710     .28273
  -100.200    399.490     .09819      .03147      .01063     -.13222     -.01295     -.00006     5.10000     3.91420     .72527
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                         AEDC/VA528(IA87)-O1ET151-L/H SRB SEPAR.FROM O/ET              (ATU219)   ( 03 OCT 74  )

           REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                       MACH   =      4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                       ALPHA  =     10.200   BETA   =     11.000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                       CALPHA =     -4.900   CBETA  =      3.900
SCALE =       .0100                                                          X      =       .000

                       RUN NO.  653/ 0    RN/L =   6.02

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   -399.450     99.403     .03816     .02565     .00560    -.10502    -.02010    -.00004   -4.87570   3.93060   -.07427
   -400.493    198.990     .03563     .02671     .00491    -.11539    -.01677    -.00004   -4.84540   3.94980    .15291
   -398.710    399.540     .03147     .02675     .00351    -.11760    -.01327    -.00004   -4.90050   3.89220    .29276

                       RUN NO.  654/ 0    RN/L =   6.01

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   -197.910     99.943     .03064     .02906     .00887    -.08259    -.03084    -.00006   -4.92400   3.89560   -.01378
   -200.310    202.330     .03125     .02548     .00374    -.10147    -.03238    -.00005   -5.02230   3.93760    .60136
   -199.430    399.680     .02020     .02728     .00334    -.12701    -.01663    -.00004   -4.89940   3.90350    .26705

                       RUN NO.  655/ 0    RN/L =   6.01

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   -100.870     99.536     .02538     .02613     .01018    -.06242    -.02510    -.00004   -4.94670   4.00070    .07889
    -99.048    199.680     .02441     .03062     .00700    -.09559    -.03506    -.00005   -4.97820   3.93150   -.37182
   -102.470    402.620     .00916     .02706     .00644    -.13619    -.01794    -.00004   -5.00770   3.97290    .00578

                         AEDC/VA528(IA87)-O1ET151-L/H SRB SEPAR.FROM O/ET              (ATU220)   ( 03 OCT 74  )

           REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                       MACH   =      4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                       ALPHA  =     10.200   BETA   =     11.000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                       CALPHA =     -4.900   CBETA  =      3.900
SCALE =       .0100                                                          X      =    300.000

                       RUN NO.  656/ 0    RN/L =   6.03

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   -398.520     99.793     .03776     .02647     .00542    -.10075    -.02776    -.00005   -4.89110   3.86960  299.84000
   -398.900    199.790     .03583     .02509     .00338    -.11688    -.02192    -.00004   -4.90080   3.88560  300.21000
   -399.470    399.660     .02918     .02663     .00314    -.11890    -.01693    -.00004   -4.90670   3.89890  300.04000

                       RUN NO.  657/ 0    RN/L =   6.03

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   -199.800     99.794     .03648     .02311     .00702    -.05778    -.01835    -.00003   -4.90690   3.92890  300.16000
   -199.970    200.140     .03543     .03020     .00597    -.08891    -.02606    -.00005   -4.91900   3.91830  300.07000
   -199.190    399.910     .01702     .02741    -.00033    -.13152    -.02249    -.00005   -4.90740   3.88950  300.05000
```

```
                                        AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET                (ATU220)   ( 03 OCT 74  )

              REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                                   MACH   =     4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YS                                   ALPHA  =    10.200   BETA   =     11.000
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                                   DALPHA =    -4.900   DBETA  =      3.900
SCALE =      .0100                                                                       X      =   300.000

                          RUN NO.  656/ 0    RN/L =   6.03

    Y          Z         CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
 -99.211     99.658    .03510     .01544     .00567    -.04159    -.01283    -.00002   -4.92840    3.91160  300.04000
 -98.765    199.970    .03714     .02314     .00645    -.07295    -.01796    -.00003   -4.92620    3.89370  299.89000
 -99.277    399.060    .00930     .03198    -.00434    -.13179    -.02740    -.00005   -4.91500    3.88750  299.85000

                                        AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET                (ATU221)   ( 03 OCT 74  )

              REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                                   MACH   =     4.520   PTOTL  =     91.200
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YS                                   ALPHA  =    10.200   BETA   =     11.000
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                                   DALPHA =      .100   DBETA  =      8.000
SCALE =      .0100                                                                       X      =      .000

                          RUN NO.  659/ 0    RN/L =   6.02

    Y          Z         CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
-399.890   -100.110    .06624     .02799     .01744    -.12029    -.02893    -.00006     .09519    7.88900    -.17555
-399.760     -1.025    .08241     .02689     .01086    -.12762    -.03170    -.00005     .14077    7.96110    -.25013
-400.570     99.603    .08429     .02859     .00817    -.15048    -.02614    -.00005     .10002    7.96370    -.17536
-398.110    199.890    .07731     .03112     .00911    -.16580    -.02127    -.00005     .10366    7.85530    -.19675
-399.210    399.780    .06644     .03244     .00946    -.17528    -.01043    -.00005     .09812    7.89330     .22897

                          RUN NO.  660/ 0    RN/L =   6.02

    Y          Z         CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
-202.790    -99.421    .02725     .02944     .02478    -.10555    -.03024    -.00007     .12971    8.02040   -1.02150
-200.110     -1.458    .05662     .03053     .01933    -.09112    -.03542    -.00007     .01033    8.04720    -.05302
-199.540     99.742    .07355     .03227     .01276    -.11966    -.03958    -.00007     .05879    7.93090    -.26228
-198.730    199.650    .07526     .03112     .00622    -.16534    -.03451    -.00006     .07270    7.91570     .27991
-200.510    399.550    .03315     .03220     .00885    -.18350    -.01566    -.00005     .09952    7.91750     .87169
```

INAL PAGE IS
OOR QUALITY

```
                                  AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET          (ATU222)    ( 03 OCT 74  )

                REFERENCE DATA                                                                    PARAMETRIC DATA

SREF   =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                              MACH    =     4.520   PTOTL   =    91.200
LREF   =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                              ALPHA   =    10.200   BETA    =    11.000
BREF   =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                              DALPHA  =      .100   DBETA   =     8.000
SCALE  =       .0100                                                                X       =   300.000

                         RUN NO.  662/ 0    RN/L =   6.02

       Y          Z         CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA    X
   -398.040    -99.919     .06550     .02971     .01621    -.10601    -.03557    -.00007     .09848    7.83750  299.50000
   -401.380       .081     .08219     .03096     .01126    -.12211    -.03626    -.00006     .05304    7.94050  300.18000
   -399.590    100.590     .08070     .03153     .00950    -.15101    -.03109    -.00006     .07268    7.82340  300.20000
   -398.860    200.250     .07816     .03067     .00844    -.16609    -.02705    -.00006     .07398    7.82390  300.00000
   -399.790    399.600     .06613     .03245     .00767    -.17896    -.01488    -.00005     .09529    7.90240  300.02000

                         RUN NO.  661/ 0    RN/L =   6.02

       Y          Z         CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA    X
   -199.830    -97.072     .02596     .01833     .01223    -.06398    -.01718    -.00003     .01989    7.87010  300.01000
   -199.900      -.386     .05493     .02032     .01273    -.05653    -.01911    -.00003     .08075    7.92890  300.03000
   -200.430     99.680     .08032     .02779     .01051    -.09742    -.02057    -.00003     .08252    7.95470  300.27000
   -199.640    200.060     .07971     .03579     .01107    -.14795    -.03022    -.00006     .06913    7.91900  299.99000
   -199.140    399.730     .05051     .03260     .00522    -.19052    -.02163    -.00006     .09671    7.87800  299.91000

                                  AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET          (ATU223)    ( 03 OCT 74  )

                REFERENCE DATA                                                                    PARAMETRIC DATA

SREF   =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                              MACH    =     4.520   PTOTL   =    91.200
LREF   =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                              ALPHA   =    10.200   BETA    =    11.000
BREF   =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                              DALPHA  =     5.100   DBETA   =     8.000
SCALE  =       .0100                                                                X       =   300.000

                         RUN NO.  663/ 0    RN/L =   6.00

       Y          Z         CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA    X
   -397.820   -100.090     .12382     .03416     .01749    -.13218    -.03093    -.00005    5.10030    7.86720  299.80000
   -397.090      -.735     .12530     .03613     .01767    -.15737    -.02818    -.00006    5.13620    7.83930  299.74000
   -399.160     98.325     .12801     .03639     .01565    -.17715    -.02778    -.00007    5.19200    7.89360  299.95000
   -398.950    199.880     .12524     .03401     .01216    -.19031    -.02574    -.00006    5.11350    7.87450  299.76000
   -398.600    399.940     .10343     .03438     .01517    -.18026    -.01239    -.00005    5.09410    7.87450  300.06000
```

```
                                 AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET            (ATU223)    ( 03 OCT 74  )

              REFERENCE DATA                                                                 PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                          MACH    =     4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YS                          ALPHA   =    10.200   BETA   =    11.000
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                          DALPHA  =     5.100   DBETA  =     8.000
SCALE =       .0100                                                             X       =   300.000

                       RUN NO.  664/ 0    RN/L =   6.00

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -200.590   -101.030    .07205     .02117     .01535    -.05451    -.01579    -.00003    5.10420    7.96420  300.48000
  -201.970     -2.631    .11064     .02755     .01237    -.09554    -.01110    -.00003    5.11590    7.90600  300.56000
  -199.230     99.937    .11956     .03275     .01597    -.13979    -.01608    -.00005    5.07620    7.90040  299.68000
  -198.470    199.740    .12398     .04196     .01751    -.18601    -.02508    -.00008    5.09720    7.86480  299.53000
  -199.590    399.580    .09101     .03329     .01196    -.18483    -.02242    -.00007    5.10320    7.89980  300.40000

                                 AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET            (ATU224)    ( 03 OCT 74  )

              REFERENCE DATA                                                                 PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                          MACH    =     4.520   PTOTL  =    91.200
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YS                          ALPHA   =    10.200   BETA   =    11.000
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                          DALPHA  =     5.100   DBETA  =     8.000
SCALE =       .0100                                                             X       =      .000

                       RUN NO.  666/ 0    RN/L =   6.02

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -398.660   -100.500    .12427     .02938     .01677    -.13655    -.02871    -.00006    5.10190    7.88620     .73346
  -399.480       .172    .12754     .03187     .01477    -.15963    -.02408    -.00005    5.07800    7.84150     .56908
  -399.660     99.856    .12573     .03319     .01445    -.17579    -.02252    -.00007    5.09880    7.88790     .81332
  -398.610    200.800    .12262     .03393     .01176    -.18843    -.01866    -.00006    5.05410    7.82810     .43904
  -399.660    399.470    .10877     .03492     .01477    -.17065    -.00919    -.00006    5.10430    7.90570     .69190

                       RUN NO.  665/ 0    RN/L =   6.00

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -196.350   -101.000    .08329     .03090     .02716    -.07962    -.03392    -.00007    5.13230    7.87410    -.01316
  -195.000     -1.418    .11527     .03496     .01900    -.11051    -.03327    -.00006    5.11230    7.89840    -.41537
  -199.310     99.726    .12378     .03849     .01567    -.16747    -.03013    -.00007    5.06470    7.92990     .46845
  -198.900    199.770    .11614     .03679     .01195    -.20198    -.02956    -.00008    5.07590    7.91790     .15464
  -199.420    399.470    .10034     .03364     .01375    -.17398    -.01483    -.00006    5.10780    7.89700     .71882
```

```
                                       AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET              (ATU225)    ( 03 OCT 74  )

              REFERENCE DATA                                                                         PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                               MACH   =      4.520   PTOTL  =     91.200
 LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                               ALPHA  =     10.200   BETA   =     11.000
 BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                               DALPHA =     -4.900   DBETA  =      8.000
 SCALE =       .0100                                                                 X      =       .000

                          RUN NO.   667/ 0    RN/L =    6.03

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -398.760     98.358     .03974     .02631     .00726    -.12250    -.03183    -.00006    -4.82570    7.92950   -.16887
   -399.370    199.940     .04384     .02626     .00251    -.14084    -.02744    -.00005    -4.89460    7.87170   -.17835
   -399.990    399.660     .03228     .02946     .00304    -.16257    -.01697    -.00005    -4.90080    7.90220   -.10168

                          RUN NO.   668/ 0    RN/L =    6.03

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -199.240     99.958     .02524     .02933     .01094    -.10406    -.03849    -.00007    -4.94060    7.92020   -.35579
   -202.420    202.080     .03196     .02676     .00488    -.12633    -.04194    -.00007    -5.04900    8.01870    .83988
   -200.810    399.450     .02129     .02992     .00107    -.17533    -.02009    -.00005    -4.90860    7.92930    .14585

                                       AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET              (ATU226)    ( 03 OCT 74  )

              REFERENCE DATA                                                                         PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                               MACH   =      4.520   PTOTL  =     91.200
 LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                               ALPHA  =     10.200   BETA   =     11.000
 BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                               DALPHA =     -4.900   DBETA  =      8.000
 SCALE =       .0100                                                                 X      =    300.000

                          RUN NO.   670/ 0    RN/L =    6.03

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -399.070     99.850     .04369     .02765     .00455    -.11808    -.03842    -.00006    -4.89510    7.85840  299.44000
   -399.090    199.800     .04144     .02613     .00249    -.14356    -.03104    -.00006    -4.89720    7.87460  300.08000
   -400.250    399.690     .03119     .02955     .00195    -.16368    -.02104    -.00005    -4.90890    7.90870  300.14000

                          RUN NO.   669/ 0    RN/L =    6.03

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -200.920     99.693     .03362     .02228     .00945    -.07183    -.02430    -.00004    -4.91360    7.96180  300.21000
   -200.350    200.190     .04755     .03095     .00422    -.10678    -.03334    -.00005    -4.93790    7.94590  300.16000
   -198.880    399.890     .01986     .02951    -.00318    -.17533    -.02863    -.00006    -4.90420    7.87240  299.81000
```

```
                               AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET            (ATU227)    ( 03 OCT 74  )

              REFERENCE DATA                                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                              MACH   =     4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                              ALPHA  =    10.000   BETA   =    15.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                              CALPHA =      .200   CBETA  =     -.100
SCALE =      .0100                                                                 X      =      .000

                         RUN NO.  674/ 0    RN/L =   4.05

      Y          Z         CN         CA        CLM        CY        CYN       CBL       DLTALF     DLTBTA      X
   10.516   -100.090    .07926     .04408     .03312    -.05038    .00453   -.00003    .17210    -.11799   -.04654
   10.588      -.336    .06998     .04693     .02753    -.02457    .00672   -.00003    .15399    -.12306    .51064
   10.093     99.264    .03911     .04194     .00993    -.03885    .00839   -.00002    .14861    -.10520    .41133
   10.393    199.460    .02878     .03493     .00318    -.04643   -.00448   -.00002    .14184    -.09656    .46342
   10.593    399.790    .06988     .03000     .00668    -.07542   -.01858   -.00003    .13385    -.10648    .42953

                         RUN NO.  673/ 0    RN/L =   4.05

      Y          Z         CN         CA        CLM        CY        CYN       CBL       DLTALF     DLTBTA      X
  100.220   -100.840    .05748     .03331     .01620    -.05047   -.01287   -.00002    .16833    -.10353    .60358
  102.170     -1.847    .03190     .03493     .01953    -.05472   -.00900   -.00002    .20501    -.17033    .58882
  100.610     99.641    .02083     .03260     .01575    -.06963   -.00869   -.00003    .13793    -.11382    .40383
  100.720    199.690    .03354     .03284     .01239    -.06715   -.01508   -.00003    .13296    -.10600    .62067
  101.020    399.820    .06349     .03030     .00987    -.08526   -.01970   -.00003    .12338    -.08446    .59824

                         RUN NO.  672/ 0    RN/L =   4.05

      Y          Z         CN         CA        CLM        CY        CYN       CBL       DLTALF     DLTBTA      X
  200.590    -99.423    .03632     .03150     .01600    -.08222   -.01954   -.00003    .15794    -.12635    .45729
  200.550     -1.285    .02428     .03263     .02218    -.09411   -.01456   -.00003    .21624    -.17367    .25167
  200.200     99.934    .03025     .03081     .02001    -.09125   -.01573   -.00004    .14835    -.08719    .44240
  200.450    199.960    .04760     .03057     .01452    -.08805   -.01721   -.00003    .10733    -.08314    .52434
  200.170    400.010    .06619     .02895     .00989    -.09949   -.01661   -.00003    .12418    -.08301    .63207

                         RUN NO.  671/ 0    RN/L =   4.05

      Y          Z         CN         CA        CLM        CY        CYN       CBL       DLTALF     DLTBTA      X
  401.430   -100.370    .06512     .02846     .01164    -.10084   -.01520   -.00004    .18058    -.15352    .52078
  400.650      -.596    .06677     .02775     .01070    -.10082   -.01602   -.00004    .18939    -.11255    .54529
  400.650     99.651    .07027     .02646     .00872    -.10655   -.01347   -.00004    .16495    -.11959    .50460
  400.350    199.460    .07105     .02725     .00827    -.10832   -.01285   -.00004    .14411    -.11790    .48630
  400.240    399.640    .07051     .02748     .00810    -.10819   -.01256   -.00004    .14345    -.10043    .53804
```

```
DATE 20 MAY 75                        IA87 TABULATED SOURCE DATA                                         PAGE  442

                              AEDC/VA528(IA87)-O1ET151-R/H SRB SEPAR.FROM O/ET              (ATU228)    ( 03 OCT 74  )

            REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                               MACH   =     4.520  PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                               ALPHA  =    10.000  BETA   =    15.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                               DALPHA =      .200  CBETA  =     -.100
SCALE =       .0100                                                                 X      =   300.000

                       RUN NO.  675/ 0   RN/L =   4.05

     Y          Z         CN        CA        CLM        CY        CYN       CBL       DLTALF    DLTBTA       X
   10.651   -100.150    .06962    .04024    .02286   -.07034   -.00120   -.00003    .17821   -.13919  299.85000
   10.871      -.021    .06680    .04305    .02287   -.05504    .00609   -.00003    .15928   -.12837  300.13000
   10.764    100.040    .03568    .04485    .01341   -.04712    .00416   -.00002    .13710   -.10925  300.16000
   10.896    199.810    .02517    .03868    .00000   -.04274    .00057   -.00002    .12756   -.11540  300.22000
   10.897    399.690    .07089    .03044    .00612   -.07296   -.01825   -.00003    .13923   -.11740  300.02000

                       RUN NO.  676/ 0   RN/L =   4.05

     Y          Z         CN        CA        CLM        CY        CYN       CBL       DLTALF    DLTBTA       X
  101.810    -97.234    .05924    .03891    .01531   -.05221   -.00228   -.00001    .07011   -.14139  299.98000
  100.680      1.030    .03966    .03935    .01642   -.05514    .00078   -.00001    .12694   -.14252  299.75000
   98.954    101.590    .01117    .03735    .01681   -.06389   -.00128   -.00002    .11069   -.03544  300.01000
  100.760    199.680    .02726    .03347    .01366   -.06569   -.01260   -.00003    .13964   -.10881  300.09000
  100.770    399.700    .06271    .03071    .00990   -.08254   -.02010   -.00003    .15028   -.11688  299.94000

                       RUN NO.  677/ 0   RN/L =   4.05

     Y          Z         CN        CA        CLM        CY        CYN       CBL       DLTALF    DLTBTA       X
  201.360    -99.570    .03554    .03241    .01069   -.07161   -.01744   -.00002    .12910   -.15236  300.18000
  201.270       .948    .02231    .03227    .01646   -.08253   -.01635   -.00002    .09569   -.14107  300.29000
  201.490    100.010    .01761    .03340    .02267   -.08780   -.01542   -.00003    .15769   -.17343  300.06000
  201.320    199.300    .03556    .03305    .01977   -.08250   -.01920   -.00004    .20441   -.11239  300.07000
  200.970    399.460    .06541    .02940    .01011   -.09704   -.01717   -.00004    .15488   -.13856  300.21000

                       RUN NO.  678/ 0   RN/L =   4.05

     Y          Z         CN        CA        CLM        CY        CYN       CBL       DLTALF    DLTBTA       X
  398.520   -102.250    .05844    .02915    .01383   -.09925   -.01510   -.00003    .23560   -.05264  299.77000
  399.510      -.065    .06172    .02976    .01245   -.09348   -.01879   -.00003    .14885   -.07258  299.85000
  400.990     99.853    .06516    .02827    .01110   -.09853   -.01703   -.00003    .15418   -.14996  300.09000
  401.290    200.200    .07028    .02633    .00845   -.10678   -.01307   -.00003    .13448   -.16697  300.06000
  400.570    399.810    .07047    .02768    .00803   -.10856   -.01256   -.00003    .13932   -.12302  299.99000
```

AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET (ATU229) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = 10.000 BETA = 15.800
CALPHA = 5.200 CBETA = -.100
X = 300.000

RUN NO. 682/ 0 RN/L = 4.04

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
10.914	-100.200	.12814	.04475	.03670	-.05454	.00242	-.00005	5.19320	-.14511	300.01000
10.245	2.491	.11698	.04542	.03050	-.04440	.00394	-.00004	5.06180	-.12441	299.46000
10.612	99.184	.08825	.04498	.01577	-.06676	.00457	-.00003	5.15890	-.11304	300.07000
11.002	199.530	.06470	.03911	.00642	-.07462	.00012	-.00003	5.14250	-.11774	300.12000
11.066	399.790	.09877	.03238	.01439	-.09322	-.01710	-.00004	5.15430	-.12197	299.99000

RUN NO. 681/ 0 RN/L = 4.04

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
101.890	-102.580	.10272	.04469	.02909	-.07080	.00070	-.00003	5.26210	-.15583	300.47000
101.060	-.338	.08617	.04126	.02531	-.08045	.00236	-.00004	5.16890	-.13387	300.09000
101.010	99.678	.06860	.03523	.01512	-.10128	-.00295	-.00004	5.14560	-.11545	300.11000
100.570	199.760	.07159	.03320	.01509	-.10569	-.01075	-.00004	5.13070	-.10201	299.99000
101.260	399.640	.10221	.03187	.01549	-.10458	-.01645	-.00004	5.16650	-.10055	300.22000

RUN NO. 680/ 0 RN/L = 4.05

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.370	-100.270	.07109	.03414	.02077	-.10787	-.01196	-.00004	5.18860	-.13140	299.94000
199.410	-.665	.06700	.03461	.02388	-.11791	-.01119	-.00005	5.20360	-.09408	299.84000
200.060	100.030	.07743	.03344	.02047	-.11616	-.01236	-.00005	5.13770	-.09174	299.89000
199.860	199.810	.08915	.03247	.01798	-.10903	-.01431	-.00004	5.14690	-.07379	299.84000
200.380	399.310	.10951	.03027	.01342	-.11391	-.01375	-.00004	5.14080	-.10821	300.03000

RUN NO. 679/ 0 RN/L = 4.05

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
401.220	-100.410	.10075	.03124	.01749	-.11032	-.01410	-.00004	5.18230	-.14326	300.10000
400.410	-.618	.10675	.03052	.01541	-.10972	-.01582	-.00004	5.19410	-.09103	300.68000
400.320	99.408	.11239	.02872	.01260	-.11602	-.01309	-.00004	5.17270	-.11193	300.51000
400.930	199.770	.11330	.02952	.01180	-.11776	-.01236	-.00004	5.15950	-.11521	300.57000
400.360	399.810	.11336	.02999	.01192	-.11812	-.01240	-.00004	5.15240	-.10878	300.50000

AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET (ATU230) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = 10.000 BETA = 15.800
DALPHA = 5.200 DBETA = -.100
X = .000

RUN NO. 683/ 0 RN/L = 4.04

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
10.735	-100.110	.14102	.04760	.04122	-.01169	.00114	-.00005	5.18690	-.15075	.34776
10.463	.049	.11912	.04579	.03008	-.03609	.01062	-.00003	5.14390	-.10839	.48071
10.285	99.754	.08959	.04160	.01079	-.06182	.00692	-.00003	5.13660	-.09352	.42879
11.398	199.700	.06067	.03612	.00773	-.07946	-.00554	-.00003	5.12700	-.12783	.54791
10.259	399.570	.10043	.03216	.01441	-.09506	-.01723	-.00004	5.11280	-.10202	.45659

RUN NO. 684/ 0 RN/L = 4.04

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.690	-100.220	.10530	.03621	.02463	-.06650	-.01075	-.00003	5.17630	-.13001	.62900
100.430	-.366	.09396	.03325	.01496	-.07767	-.00611	-.00003	5.15430	-.11397	.41782
100.340	99.626	.07448	.03221	.01229	-.10613	-.00889	-.00004	5.13450	-.10320	.41791
99.537	198.850	.07381	.03263	.01517	-.10564	-.01195	-.00005	5.18290	-.04301	.43739
99.579	398.170	.10483	.03183	.01461	-.10555	-.01659	-.00004	5.18440	-.02860	.72923

RUN NO. 685/ 0 RN/L = 4.04

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
201.390	-100.390	.09500	.03202	.01850	-.09808	-.01912	-.00004	5.18010	-.12995	.72782
200.400	-.525	.08819	.03180	.01749	-.11041	-.01608	-.00005	5.15920	-.09029	.69553
201.250	100.300	.08638	.03158	.01732	-.11645	-.01170	-.00005	5.12710	-.16615	.47629
200.880	199.100	.09107	.03215	.01814	-.10950	-.01452	-.00005	5.15700	-.11685	.53695
200.830	399.810	.11909	.02994	.01273	-.11482	-.01316	-.00004	5.12120	-.13612	.31628

RUN NO. 686/ 0 RN/L = 4.04

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.960	-100.670	.10921	.02993	.01446	-.11212	-.01447	-.00004	5.20290	-.14200	.48988
400.350	.079	.11235	.02863	.01253	-.11580	-.01306	-.00004	5.15130	-.12910	.37520
400.470	99.796	.11341	.02943	.01210	-.11743	-.01252	-.00004	5.15710	-.11679	.53250
400.170	199.610	.11348	.02980	.01198	-.11844	-.01250	-.00004	5.16140	-.11198	.38802
400.530	399.820	.11363	.02995	.01178	-.11811	-.01224	-.00004	5.16310	-.10435	.59339

AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET (ATU231) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = 10.000 BETA = 15.800
DALPHA = -4.900 CBETA = -.100
X = .000

RUN NO. 690/ 0 RN/L = 4.04

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
10.111	-.042	.00824	.04446	.01985	-.02795	.00508	-.00002	-4.88260	-.09526	-.16390
10.589	99.549	-.01010	.04553	.01245	-.02857	.01002	-.00001	-4.85230	-.11708	.18417
10.636	199.810	-.00849	.03697	.00317	-.03894	-.00039	-.00002	-4.87100	-.11486	-.15843
10.802	399.980	.03613	.02874	.00248	-.06242	-.01823	-.00003	-4.87040	-.10874	-.18461

RUN NO. 689/ 0 RN/L = 4.04

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.860	.614	-.00817	.03137	.01285	-.01840	-.01748	.00000	-4.87920	-.09171	.08688
101.280	99.919	-.00999	.03535	.01554	-.03117	-.01343	-.00001	-4.85580	-.12533	.10658
99.987	199.920	.00761	.03513	.01091	-.05387	-.01941	-.00002	-4.86880	-.09615	-.16102
100.940	399.910	.03987	.02837	.00168	-.07153	-.02061	-.00003	-4.89160	- 11483	.40851

RUN NO. 688/ 0 RN/L = 4.04

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
201.900	.794	.00154	.03057	.01006	-.05310	-.02379	-.00002	-4.86190	-.13998	.08418
200.070	98.759	-.00082	.03391	.01490	-.05050	-.02491	-.00003	-4.79090	-.08915	-.20722
199.080	199.530	.01287	.03319	.01276	-.05350	-.02732	-.00003	-4.85150	-.05190	.27267
200.200	401.090	.03406	.02852	.00391	-.08310	-.02023	-.00003	-4.92670	-.14342	.43366

RUN NO. 687/ 0 RN/L = 4.04

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.430	-.368	.03199	.02790	.00624	-.08758	-.01913	-.00003	-4.83120	-.11386	.44867
400.140	99.546	.03273	.02651	.00565	-.09297	-.01706	-.00004	-4.82970	-.09422	.47367
400.750	199.330	.03434	.02523	.00474	-.09977	-.01406	-.00004	-4.85920	-.11908	.55261
399.750	399.720	.03407	.02586	.00416	-.10142	-.01307	-.00004	-4.86110	-.09553	.53892

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA528(IA87)-O1ET1S1-R/M SRB SEPAR.FROM O/ET (ATU232) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = 10.000 BETA = 15.800
CALPHA = -4.900 CBETA = -.100
X = 300.000

RUN NO. 691/ 0 RN/L = 4.04

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
10.770	.167	.00897	.04056	.01228	-.04162	.00033	-.00001	-4.86060	-.12479	299.86000
12.247	96.912	-.00559	.04279	.00742	-.05139	.00860	-.00001	-4.77220	-.17696	299.97000
9.680	200.050	-.02427	.04157	.00104	-.05607	.00727	-.00002	-4.87420	-.08792	299.95000
11.263	399.840	.03424	.02897	.00269	-.06144	-.01683	-.00003	-4.85550	-.13354	300.04000

RUN NO. 692/ 0 RN/L = 4.03

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
101.440	2.300	.00686	.03596	.00357	-.01080	-.00436	.00001	-4.95940	-.08780	300.12000
99.018	100.130	-.00507	.03559	.00581	-.02249	-.00466	-.00000	-4.84920	-.05731	299.80000
99.956	199.850	.00378	.03371	.00911	-.03859	-.01258	-.00002	-4.86150	-.08130	299.78000
100.740	399.900	.04208	.02869	.00104	-.07041	-.02017	-.00003	-4.85720	-.11030	299.92000

RUN NO. 693/ 0 RN/L = 4.03

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	CLTBTA	X
201.380	.781	.01122	.03204	.00296	-.04478	-.01916	-.00002	-4.89670	-.17374	300.12000
200.690	99.830	.00657	.03290	.00823	-.04757	-.02044	-.00002	-4.85240	-.11885	300.10000
202.080	199.500	.01395	.03287	.01046	-.04852	-.02626	-.00003	-4.83060	-.09261	300.08000
199.380	399.500	.03491	.02861	.00392	-.08175	-.02071	-.00003	-4.83060	-.07437	299.97000

RUN NO. 694/ 0 RN/L = 4.03

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	CLTBTA	X
400.580	-.087	.03149	.02888	.00629	-.07830	-.02169	-.00003	-4.84570	-.12249	299.91000
400.100	100.050	.03423	.02803	.00487	-.08371	-.02106	-.00003	-4.85360	-.12471	299.90000
400.700	199.960	.03292	.02670	.00545	-.09125	-.01794	-.00003	-4.83570	-.15110	299.94000
401.310	400.010	.03429	.02593	.00432	-.10152	-.01325	-.00003	-4.86610	-.17047	299.98000

AEDC/VA528(IA87)-O1ET151-R/H SRB SEPAR.FROM O/ET (ATU233) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = 10.000 BETA = 15.800
DALPHA = .200 DBETA = -4.100
X = .000

RUN NO. 697/ 0 RN/L = 4.03

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
99.491	-100.480	.06030	.03266	.02262	-.02156	-.00014	-.00002	.23734	-4.07870	-.00388
100.520	-.040	.06506	.03294	.01856	-.01688	.00332	-.00003	.16350	-4.12860	-.09412
100.580	99.801	.04477	.03141	.00914	-.02743	.00144	-.00002	.14095	-4.11110	.08849
100.850	199.670	.02492	.03125	.00895	-.03429	-.00721	-.00001	.13486	-4.10590	-.05929
101.150	400.120	.04581	.02940	.01333	-.04718	-.01657	-.00003	.11921	-4.10850	.58008

RUN NO. 696/ 0 RN/L = 4.03

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
201.880	-98.554	.04341	.03035	.01138	-.01883	-.02223	.00000	.09347	-4.11120	.07669
200.490	-.222	.03136	.03230	.01680	-.03650	-.01480	-.00002	.17650	-4.12040	-.11463
200.840	99.981	.01880	.03079	.01966	-.05105	-.01050	-.00002	.17208	-4.13820	-.05985
199.280	199.790	.02957	.03025	.01668	-.05271	-.01347	-.00002	.12823	-4.04440	.36790
199.130	399.340	.05263	.02851	.01349	-.05887	-.01577	-.00003	.14479	-4.03880	.40821

RUN NO. 695/ 0 RN/L = 4.03

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
401.460	-99.879	.05053	.02762	.01525	-.05772	-.01585	-.00002	.14541	-4.14950	.65771
399.990	-1.069	.04621	.02861	.01822	-.06109	-.01564	-.00002	.21976	-4.08640	.49826
400.920	99.382	.05818	.02437	.01236	-.06995	-.01129	-.00003	.17799	-4.13250	.58873
400.420	199.310	.06152	.02587	.01063	-.07057	-.01139	-.00003	.15385	-4.10990	.55901
399.600	399.650	.06476	.02517	.00870	-.07222	-.00990	-.00003	.14021	-4.09190	.55331

```
                              AEDC/VA528(IA87)-O1ET151-R/H SRB SEPAR.FROM O/ET        (ATU234)   ( 03 OCT 74  )

            REFERENCE DATA                                                              PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                       MACH   =     4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                       ALPHA  =    10.000   BETA   =    15.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                       DALPHA =      .200   DBETA  =    -4.100
SCALE =       .0100                                                         X      =   300.000

                         RUN NO.  698/ 0    RN/L =   4.03

     Y          Z          CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA      X
  100.790   -100.300    .07318    .03751    .01990   -.01614    .00812   -.00002    .18364   -4.13290  300.11000
  100.910      1.357    .06158    .03761    .01748   -.03379    .01477   -.00002    .10522   -4.18450  299.92000
   98.646    102.710    .03466    .03751    .01341   -.03622    .01106   -.00002    .06302   -4.01850  299.77000
  100.210    199.670    .02372    .03116    .00928   -.03660   -.00279   -.00002    .13858   -4.10310  299.94000
  100.780    399.750    .04291    .02984    .01371   -.04486   -.01677   -.00003    .15067   -4.11830  299.97000

                         RUN NO.  699/ 0    RN/L =   4.03

     Y          Z          CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA      X
  202.350   -100.040    .05940    .02977    .00379   -.01686   -.01241   -.00001    .13595   -4.17180  300.20000
  201.120       .579    .03138    .02989    .01117   -.03610   -.01163    .00000    .09004   -4.11650  300.07000
  202.290    100.310    .01310    .03087    .01923   -.05139   -.00856   -.00002    .12997   -4.17160  300.31000
  200.700    199.730    .02117    .03107    .01960   -.05469   -.01099   -.00002    .14527   -4.15920  300.08000
  199.710    399.160    .04992    .02919    .01436   -.05668   -.01632   -.00003    .16858   -4.09660  300.05000

                         RUN NO.  700/ 0    RN/L =   4.03

     Y          Z          CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA      X
  400.890   -100.100    .04662    .02937    .01513   -.04559   -.01862   -.00002    .15171   -4.12480  299.92000
  400.140      -.724    .04179    .03020    .01814   -.04833   -.01990   -.00003    .19271   -4.10150  300.11000
  400.540     99.592    .04436    .02973    .01865   -.05749   -.01724   -.00003    .17588   -4.15160  300.01000
  401.100    200.510    .05563    .02578    .01341   -.06710   -.01286   -.00003    .11726   -4.16790  300.00000
  401.290    400.300    .06436    .02531    .00865   -.07295   -.01038   -.00003    .09494   -4.15810  300.09000
```

```
                                     AEDC/VA528(IA87)-O1ET151-R/H SRB SEPAR.FROM O/ET          (ATU235)   ( 03 OCT 74  )

              REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2000.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                            MACH    =      4.520   PTOTL   =     60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                            ALPHA   =     10.000   BETA    =     15.000
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                            DALPHA  =      5.200   DBETA   =     -4.100
SCALE =       .0100                                                              X       =    300.000

                         RUN NO.   703/ 0    RN/L =    4.03

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   100.710   -100.100     .12205     .04052     .03053    -.03846     .01302    -.00004    5.18570   -4.13860  300.04000
   100.920      -.248     .10600     .04165     .02569    -.02542     .01109    -.00003    5.17420   -4.13890  300.04000
   100.710     99.646     .08194     .03496     .01354    -.04176     .00302    -.00002    5.15170   -4.13150  299.98000
   101.100    199.620     .06079     .03141     .01402    -.07681    -.00373    -.00003    5.13680   -4.11690  300.23000
   100.770    399.820     .08627     .03087     .01840    -.06859    -.01303    -.00003    5.16200   -4.10440  300.09000

                         RUN NO.   702/ 0    RN/L =    4.03

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   201.030   -100.430     .09618     .03385     .01352    -.06158    -.00575    -.00002    5.18930   -4.14650  300.19000
   199.390       .094     .06943     .03365     .01953    -.06783    -.00836    -.00003    5.19830   -4.05870  299.99000
   199.450     99.911     .07129     .03104     .01877    -.08235    -.00769    -.00004    5.15290   -4.09420  299.91000
   200.700    199.610     .07585     .03076     .01878    -.08659    -.00678    -.00004    5.16410   -4.11090  300.14000
   199.910    398.730     .09768     .02948     .01619    -.07683    -.01158    -.00003    5.15860   -4.04870  300.08000

                         RUN NO.   701/ 0    RN/L =    4.03

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   401.400    -99.782     .08658     .02975     .01989    -.08059    -.00818    -.00004    5.14540   -4.16420  299.97000
   400.800      -.807     .08774     .03081     .02123    -.07567    -.01174    -.00004    5.21890   -4.11590  300.12000
   401.020     99.199     .09923     .02800     .01635    -.07775    -.01142    -.00004    5.19280   -4.11280  300.13000
   400.750    199.760     .10575     .02767     .01297    -.08086    -.01001    -.00004    5.16910   -4.10020  300.18000
   400.830    399.820     .10707     .02802     .01234    -.08190    -.00940    -.00004    5.15160   -4.11450  300.09000
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                                   AEDC/VA528(IA87)-O1ET151-R/H SRB SEPAR.FROM O/ET          (ATU236)   ( 03 OCT 74  )

           REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                         MACH   =    4.520  PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                        ALPHA  =   10.000  BETA   =    15.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                         DALPHA =    5.200  DBETA  =    -4.100
SCALE =       .0100                                                           X      =     .000

                         RUN NO.   704/ 0    RN/L =   4.03

     Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  100.320  -100.190     .12614     .03449     .02717    -.00353    -.00181    -.00003    5.18720   -4.14050    .42664
   99.995     -.423     .11630     .03419     .01593    -.01719     .00104    -.00002    5.16340   -4.11150    .50975
  100.000    99.470     .07267     .03182     .01296    -.04942    -.00271    -.00003    5.14270   -4.09420    .50559
   97.295   199.800     .05956     .03135     .01483    -.07480    -.00670    -.00004    5.15290   -3.98170    .18982
  101.010   399.550     .08973     .03064     .01783    -.06869    -.01318    -.00003    5.13690   -4.11010    .58150

                         RUN NO.   705/ 0    RN/L =   4.03

     Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  202.250  -101.060     .09096     .03468     .01749    -.03857    -.01844    -.00002    5.20960   -4.12990    .84628
  200.030     -.644     .07852     .03053     .01753    -.06210    -.01412    -.00003    5.16640   -4.09790    .58275
  200.370   100.390     .08347     .02963     .01608    -.08111    -.00908    -.00004    5.10760   -4.10850    .32233
  200.900   199.710     .07760     .03032     .01913    -.08358    -.00778    -.00004    5.13270   -4.16700    .49678
  200.370   399.700     .09949     .02926     .01539    -.07627    -.01138    -.00004    5.11710   -4.11310    .48947

                         RUN NO.   706/ 0    RN/L =   4.02

     Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  399.950  -100.900     .09248     .02982     .01954    -.07808    -.01063    -.00004    5.23190   -4.15910    .47313
  400.010      .303     .09979     .02735     .01590    -.07814    -.01108    -.00004    5.13780   -4.10720    .26023
  400.270   100.080     .10410     .02812     .01368    -.07907    -.01020    -.00003    5.14030   -4.11450    .26392
  400.640   199.670     .10615     .02782     .01286    -.08160    -.00998    -.00003    5.15460   -4.12210    .48500
  400.560   399.890     .10694     .02795     .01211    -.08150    -.00928    -.00004    5.15910   -4.10800    .43344
```

```
                                      AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET          (ATU237)    ( 03 OCT 74  )

          REFERENCE DATA                                                                       PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1250.9000 IN. XS                          MACH   =      4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                          ALPHA  =     10.000   BETA   =    15.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                          DALPHA =     -4.900   DBETA  =    -4.100
SCALE =       .0100                                                             X      =       .000

                        RUN NO.  709/ 0    RN/L =   4.03

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF     DLTBTA        X
  100.370     -.771      .00319      .03309      .01432      .00246     -.00516      .00000    -4.80300   -4.02980     .06980
  100.540    99.841     -.00120      .03224      .01213     -.02081      .00412     -.00000    -4.84970   -4.11850    -.09412
  100.700   199.770     -.01011      .03331      .01229     -.02665     -.00044     -.00001    -4.86330   -4.10510    -.00073
  102.220   400.150      .01243      .02923      .00827     -.03194     -.01679     -.00003    -4.87500   -4.16880     .02010

                        RUN NO.  708/ 0    RN/L =   4.03

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF     DLTBTA        X
  203.230     1.593     -.00143      .03053      .00796      .01370     -.02648     -.00000    -4.90000   -4.14980     .11433
  201.000    98.357     -.01154      .03319      .01574     -.00560     -.01952     -.00000    -4.79520   -4.17770    -.21926
  199.050   199.150     -.00832      .03530      .01810     -.01711     -.01968     -.00001    -4.81960   -4.07290    -.40359
  198.670   400.990      .02083      .02804      .00774     -.03946     -.02028     -.00003    -4.93310   -4.04270    -.00708

                        RUN NO.  707/ 0    RN/L =   4.03

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF     DLTBTA        X
  400.830      .267      .02278      .02788      .00832     -.03841     -.02270     -.00002    -4.83430   -4.13150    -.03876
  399.800    99.336      .01777      .02760      .01150     -.04400     -.02168     -.00002    -4.80540   -4.04790    -.19820
  400.290   199.140      .02549      .02389      .00767     -.05873     -.01476     -.00002    -4.84020   -4.07980    -.11194
  399.290   399.720      .03047      .02311      .00477     -.06657     -.01085     -.00003    -4.86320   -4.08710     .25696

                                      AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET          (ATU238)    ( 03 OCT 74  )

          REFERENCE DATA                                                                       PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1250.9000 IN. XS                          MACH   =      4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                          ALPHA  =     10.000   BETA   =    15.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                          DALPHA =     -4.900   DBETA  =    -4.100
SCALE =       .0100                                                             X      =    300.000

                        RUN NO.  710/ 0    RN/L =   4.03

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF     DLTBTA        X
  100.840     -.414      .00205      .03662      .00964      .00050      .00859      .00000    -4.84120   -4.12270  300.01000
   96.925   101.410     -.00522      .03518      .01112     -.01345      .00936      .00001    -4.91400   -4.07380  299.97000
  100.210   199.730     -.01512      .03294      .00903     -.02893      .00367     -.00000    -4.85600   -4.09710  299.92000
  100.360   399.940      .01399      .02833      .00657     -.03471     -.01300     -.00002    -4.85580   -4.10950  299.83000
```

```
                              AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET              (ATU238)   ( 03 OCT 74  )

            REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                               MACH   =     4.520  PTOTL  =   60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                               ALPHA  =    10.000  BETA   =   15.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                               DALPHA =    -4.900  DBETA  =   -4.100
SCALE =      .0100                                                                  X      =   300.000

                          RUN NO.  711/ 0    RN/L =   4.03

     Y         Z         CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA      X
  201.090     -.207     .01528     .02957   -.00098     .00593   -.01318   -.00001   -4.83800   -4.13270  300.06000
  202.470   101.540   -.00623     .03166    .00712     .00282   -.01665   -.00000   -4.94630   -4.16220  300.37000
  200.690   199.840   -.01051     .03244    .01520    -.01445   -.01748   -.00001   -4.86020   -4.10980  300.05000
  197.720   399.130    .02062     .02855    .00790    -.03764   -.02045   -.00003   -4.82560   -3.99080  299.80000

                          RUN NO.  712/ 0    RN/L =   4.03

     Y         Z         CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA      X
  399.190     -.035     .02473     .03034    .00643    -.02587   -.02545   -.00003   -4.84310   -4.11500  299.64000
  399.910    99.409     .01897     .02975    .00988    -.03015   -.02630   -.00003   -4.80300   -4.10510  299.82000
  400.500   199.710     .01795     .02791    .01115    -.04048   -.02288   -.00002   -4.82890   -4.15180  299.82000
  400.380   399.770     .03002     .02355    .00503    -.06639   -.01146   -.00002   -4.86160   -4.10350  300.13000

                              AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET              (ATU239)   ( 03 OCT 74  )

            REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                               MACH   =     4.520  PTOTL  =   60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                               ALPHA  =    10.000  BETA   =   15.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                               DALPHA =      .200  DBETA  =   -8.100
SCALE =      .0100                                                                  X      =      .000

                          RUN NO.  714/ 0    RN/L =   4.02

     Y         Z         CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA      X
  200.570  -100.160     .05937     .03038    .01264     .00405   -.00574   -.00002     .17014   -8.12390   -.02075
  201.760     -.318     .06281     .02997    .01136    -.00583    .00004   -.00004     .14481   -8.19940    .07334
  197.960   101.760     .05143     .02842    .00722    -.00805   -.00536   -.00003     .08985   -8.00670   -.37866
  198.180   199.910     .02710     .02951    .01271    -.01569   -.00943   -.00002     .16719   -8.01730   -.41426
  200.470   399.860     .03480     .02838    .01816    -.03001   -.01147   -.00002     .12949   -8.10080   -.10025

                          RUN NO.  713/ 0    RN/L =   4.03

     Y         Z         CN         CA        CLM        CY        CYN        CBL      DLTALF     DLTBTA      X
  399.480   -99.097     .04359     .02861    .01539    -.00569   -.02357   -.00002     .10881   -8.02630   -.21925
  400.280     -.959     .03222     .02797    .02233    -.02855   -.01372   -.00002     .22300   -8.07680   -.06668
  400.670    99.528     .04533     .02389    .01616    -.04024   -.00828   -.00002     .17441   -8.12310   -.01592
  401.010   198.920     .04970     .02490    .01431    -.04135   -.00811   -.00002     .17365   -8.13020    .61302
  399.960   399.570     .05867     .02348    .00984    -.04344   -.00763   -.00002     .14420   -8.58470    .50855
```

```
                                  AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET               (ATU240)   ( 03 OCT 74  )

            REFERENCE DATA                                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                                  MACH   =     4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                                  ALPHA  =    10.000   BETA   =    15.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                                  DALPHA =      .200   CBETA  =    -8.100
SCALE =       .0100                                                                    X      =   300.000

                       RUN NO.  715/ 0    RN/L =   4.03

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   202.140   -100.330     .06754     .02815     .00759     .01934    -.00061    -.00002     .18309   -8.11410  300.24000
   202.640      -.953     .06420     .02921     .00839    -.01749     .00552    -.00002     .18069   -8.18870  300.37000
   200.700     99.864     .05100     .03008     .00921    -.01992     .00284    -.00003     .15668   -8.12010  300.03000
   200.950    199.730     .02948     .02829     .01066    -.01809    -.00590    -.00002     .13710   -8.11210  300.04000
   200.800    399.550     .03214     .02891     .01862    -.02943    -.01154    -.00002     .15183   -8.10770  300.11000

                       RUN NO.  716/ 0    RN/L =   4.03

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   400.920   -100.130     .04698     .02954     .01134     .00587    -.02277    -.00003     .16336   -8.12300  299.91000
   400.550     -1.191     .03194     .02854     .01888    -.01247    -.01884    -.00001     .23446   -8.15220  299.95000
   400.680     99.833     .02886     .02885     .02300    -.03106    -.01258    -.00001     .17110   -8.12150  300.03000
   400.830    200.100     .03819     .02694     .01973    -.03954    -.00878    -.00002     .14097   -8.15950  300.01000
   400.340    400.930     .05733     .02390     .01024    -.04230    -.00782    -.00003     .05962   -8.12850  299.92000

                                  AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET               (ATU241)   ( 03 OCT 74  )

            REFERENCE DATA                                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                                  MACH   =     4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                                  ALPHA  =    10.000   BETA   =    15.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                                  DALPHA =     5.200   CBETA  =    -8.100
SCALE =       .0100                                                                    X      =   300.000

                       RUN NO.  718/ 0    RN/L =   4.02

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   201.010   -100.550     .11630     .03148     .01672    -.02250     .00554    -.00005    5.20970   -8.15250  300.24000
   199.300      1.411     .09889     .03313     .01560    -.01456     .00059    -.00003    5.13340   -8.04300  299.72000
   200.610     99.586     .08004     .03045     .01332    -.02656    -.00780    -.00002    5.15980   -8.11290  300.09000
   199.390    199.370     .07050     .02901     .01743    -.05661    -.00363    -.00004    5.18640   -8.11180  299.84000
   200.220    397.990     .08520     .02896     .01930    -.04886    -.00695    -.00004    5.20610   -8.06550  300.11000
```

```
                         AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET            (ATU241)   ( 03 OCT 74  )

           REFERENCE DATA                                                         PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                   MACH   =     4.520   PTOTL  =     60.400
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                  ALPHA  =    10.000   BETA   =     15.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                   CALPHA =     5.200   CBETA  =     -8.100
SCALE =       .0100                                                     X      =   300.000

                         RUN NO.  717/ 0    RN/L =   4.01

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  399.970    -99.635     .07925     .02888     .01949    -.04613    -.00804    -.00003    5.13250   -8.06300  299.90000
  401.050      -.411     .08107     .02864     .02135    -.05687    -.00334    -.00004    5.18820   -8.13090  300.21000
  400.860     99.215     .08837     .02770     .01897    -.05451    -.00427    -.00004    5.19650   -8.14500  300.14000
  400.910    199.470     .09613     .02714     .01542    -.05044    -.00629    -.00004    5.18880   -8.11030  300.21000
  400.880    399.850     .10133     .02636     .01280    -.04988    -.00642    -.00004    5.15010   -8.11650  300.12000

                         AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET            (ATU242)   ( 03 OCT 74  )

           REFERENCE DATA                                                         PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                   MACH   =     4.520   PTOTL  =     60.400
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                  ALPHA  =    10.000   BETA   =     15.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                   CALPHA =     5.200   CBETA  =     -8.100
SCALE =       .0100                                                     X      =      .000

                         RUN NO.  719/ 0    RN/L =   4.02

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  200.670   -100.300     .11590     .03261     .01622     .00742    -.00897    -.00003    5.19610   -8.14410     .58690
  200.410      -.445     .10544     .03184     .01034     .00098    -.00970    -.00002    5.16850   -8.12690     .37603
  201.130    100.370     .07510     .02987     .01531    -.02784    -.01029    -.00002    5.10410   -8.08040     .58519
  201.130    200.430     .07159     .02865     .01837    -.05557    -.00424    -.00004    5.09580   -8.15850     .48945
  200.180    399.830     .08690     .02878     .01871    -.04824    -.00703    -.00004    5.13380   -8.10410     .41997

                         RUN NO.  720/ 0    RN/L =   4.02

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  395.870    -99.501     .08412     .02767     .02044    -.05367    -.00499    -.00004    5.20740   -8.03540    -.32822
  400.050       .089     .09010     .02652     .01783    -.05288    -.00509    -.00004    5.15500   -8.11510     .41452
  399.800    100.020     .09439     .02714     .01595    -.05351    -.00511    -.00004    5.14110   -8.10010     .37513
  399.920    199.580     .09662     .02703     .01536    -.05063    -.00671    -.00004    5.15740   -8.09210     .46289
  400.250    400.070     .10178     .02640     .01263    -.05022    -.00640    -.00004    5.14610   -8.09560     .40340
```

```
                                    AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET          (ATU243)    ( 03 OCT 74  )

              REFERENCE DATA                                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                             MACH   =     4.520  PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                             ALPHA  =    10.000  BETA   =    15.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                             DALPHA =    -4.900  DBETA  =    -8.100
SCALE =       .0100                                                               X      =      .000

                         RUN NO.   722/ 0    RN/L =   4.02

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
  200.740      -.093     -.00010     .02978      .01024      .04252     -.01311     -.00000    -4.86160    -8.10860    -.06038
  200.510     99.844      .00535     .03010      .01017      .00246     -.00089      .00001    -4.84120    -8.11190    -.12215
  199.290    200.500      .00007     .02956      .00920     -.00228     -.00165     -.00000    -4.87060    -8.07890    -.25270
  201.000    399.870     -.00048     .02882      .01277     -.00880     -.01476     -.00001    -4.86710    -8.11030    -.08690

                         RUN NO.   721/ 0    RN/L =   4.01

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
  401.190      -.359      .01459     .02938      .00861      .02029     -.03098     -.00003    -4.83160    -8.13340     .14778
  400.300    100.020     -.01187     .03418      .02280      .01459     -.03115     -.00001    -4.84730    -8.11510    -.15582
  399.770    198.450      .00519     .02702      .01636     -.01415     -.01844     -.00001    -4.78780    -8.04420    -.18781
  400.430    399.780      .02154     .02354      .00771     -.03093     -.01119     -.00002    -4.86070    -8.09010     .08059

                                    AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET          (ATU244)    ( 03 OCT 74  )

              REFERENCE DATA                                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                             MACH   =     4.520  PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                             ALPHA  =    10.000  BETA   =    15.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                             DALPHA =    -4.900  DBETA  =    -8.100
SCALE =       .0100                                                               X      =   300.000

                         RUN NO.   723/ 0    RN/L =   4.02

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
  203.250      -.141      .01575     .02772      .00109      .03256     -.00199     -.00001    -4.86530    -8.16310   300.59000
  202.040    100.240      .00520     .02904      .00474      .00742     -.00058      .00000    -4.89540    -8.13360   300.30000
  200.600    199.880     -.00579     .03087      .00970     -.00612      .00020      .00000    -4.86010    -8.10510   300.09000
  201.010    399.940      .00129     .02771      .01067     -.01028     -.01263     -.00001    -4.86680    -8.13330   300.08000

                         RUN NO.   724/ 0    RN/L =   4.02

     Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF      DLTBTA       X
  400.460      -.114      .01707     .02945      .00535      .01707     -.02357     -.00004    -4.83910    -8.12100   299.84000
  399.400     98.786      .00033     .02952      .01402      .01547     -.02725     -.00001    -4.75560    -8.06780   299.64000
  400.390    198.680     -.01037     .03189      .02184      .00515     -.02604      .00000    -4.76340    -8.12740   299.89000
  400.210    399.840      .02036     .02407      .00836     -.02952     -.01210     -.00002    -4.85870    -8.10500   299.91000
```

```
                                              AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET          (ATU245)   ( 03 OCT 74  )

                    REFERENCE DATA                                                                           PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                                   MACH   =      4.520   PTOTL   =     60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                                   ALPHA  =     10.000   BETA    =     15.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                                   CALPHA =      5.200   CBETA   =      3.900
SCALE =       .0100                                                                     X      =       .000

                            RUN NO.   728/ 0    RN/L -    4.01

      Y          Z            CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
    11.222    -100.280      .13483     .04932     .03799    -.08065    -.00636    -.00006    5.18100    3.85040    .50771
    10.477       -.501      .12615     .04586     .02422    -.09566     .00141    -.00005    5.14750    3.89170    .61087
    10.240      99.325      .08492     .04171     .00887    -.11300     .00043    -.00005    5.14730    3.90020    .36250
    10.417     199.620      .08141     .03679     .00898    -.11741    -.01197    -.00005    5.13490    3.90100    .54580
    10.641     399.640      .11245     .03394     .01380    -.13863    -.02007    -.00006    5.13770    3.89330    .50908

                            RUN NO.   727/ 0    RN/L =    4.02

      Y          Z            CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   101.650    -101.240      .10767     .03522     .01403    -.11772    -.01915    -.00005    5.22290    3.86940    .88393
   102.650      -1.018      .09611     .03339     .01163    -.13475    -.01507    -.00006    5.14650    3.81570    .76994
   100.850     100.810      .08608     .03361     .01207    -.14388    -.01503    -.00006    5.07660    3.85120    .32047
   100.780     200.240      .09126     .03451     .01505    -.13692    -.01797    -.00006    5.10880    3.87730    .04336
   100.300     399.360      .11320     .03290     .01399    -.15125    -.01783    -.00006    5.14890    3.91670    .59405

                            RUN NO.   726/ 0    RN/L =    4.02

      Y          Z            CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   200.600     -99.880      .09891     .03416     .01706    -.14599    -.02014    -.00007    5.17160    3.84360    .43780
   199.590       -.047      .09839     .03330     .01617    -.14902    -.01910    -.00007    5.15690    3.89080    .21431
   200.170      99.355      .10179     .03396     .01626    -.14719    -.01812    -.00007    5.16470    3.88950    .36845
   199.570     199.340      .10820     .03393     .01559    -.14690    -.01926    -.00006    5.15850    3.93240    .43214
   201.330     400.250      .11817     .03206     .01206    -.15617    -.01598    -.00006    5.13490    3.87250    .54091

                            RUN NO.   725/ 0    RN/L =    4.02

      Y          Z            CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   300.710    -100.520      .11352     .03298     .01496    -.14504    -.02059    -.00006    5.20660    3.88260    .71284
   300.880       -.466      .11619     .03163     .01345    -.15090    -.01802    -.00006    5.17680    3.86280    .60558
   301.050      99.711      .11710     .03203     .01295    -.15406    -.01689    -.00006    5.16060    3.86240    .50175
   300.360     199.180      .11818     .03199     .01259    -.15701    -.01644    -.00006    5.13620    3.87780    .54468
   299.470     399.860      .11824     .03222     .01176    -.15732    -.01571    -.00006    5.12970    3.91740    .30533
```

```
                                 AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET            (ATU246)    ( 03 OCT 74  )

              REFERENCE DATA                                                                     PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                           MACH    =     4.520   PTOTL  =     60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                           ALPHA   =    10.000   BETA   =     15.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                           DALPHA  =     5.200   DBETA  =      3.900
SCALE =        .0100                                                            X       =   300.000

                         RUN NO.  729/ 0    RN/L =   4.02

      Y         Z         CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA    X
   10.657  -102.430    .11909    .04889    .03561   -.09394   -.01150   -.00007   5.26340   3.91680  300.47000
    9.572      .133    .10760    .04891    .03100   -.11025   -.00419   -.00006   5.15050   3.89870  299.60000
   10.591    99.924    .08994    .04658    .01634   -.11644   -.00303   -.00005   5.13650   3.89620  300.08000
   11.109   199.740    .08149    .03970    .00748   -.11479   -.00788   -.00005   5.13380   3.88340  300.28000
   10.665   399.600    .10987    .03410    .01416   -.13715   -.01970   -.00006   5.14730   3.88390  300.44000

                         RUN NO.  730/ 0    RN/L =   4.02

      Y         Z         CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA    X
  100.890  -100.260    .09306    .04228    .02765   -.11205   -.00842   -.00005   5.18020   3.86160  300.23000
   99.500     1.913    .07742    .04128    .02359   -.12622   -.00687   -.00005   5.08240   3.89800  300.28000
  100.470    99.588    .07825    .03658    .01436   -.13904   -.01276   -.00006   5.15170   3.89100  300.46000
   98.839   198.950    .08994    .03512    .01453   -.13794   -.01699   -.00006   5.17090   3.97730  300.65000
   99.226   398.110    .11229    .03343    .01439   -.14858   -.01873   -.00006   5.19600   3.93670  300.84000

                         RUN NO.  731/ 0    RN/L =   4.02

      Y         Z         CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA    X
  201.200  -100.180    .08083    .03559    .02129   -.14406   -.01864   -.00007   5.18080   3.81590  300.39000
  200.860     -.626    .08200    .03598    .02170   -.14333   -.02051   -.00006   5.20650   3.86950  300.77000
  200.350    99.689    .09517    .03476    .01762   -.14324   -.01975   -.00006   5.15600   3.88270  300.54000
  200.730   199.760    .10523    .03420    .01585   -.14621   -.01903   -.00006   5.16400   3.90730  300.57000
  200.660   399.780    .11763    .03208    .01244   -.15575   -.01636   -.00006   5.13850   3.86490  300.51000

                         RUN NO.  732/ 0    RN/L =   4.02

      Y         Z         CN        CA        CLM       CY        CYN       CBL       DLTALF    DLTBTA    X
  299.540   399.880    .11808    .03229    .01193   -.15741   -.01587   -.00006   5.11960   3.90900  300.33000
```

```
                                         AEDC/VA528(IA87)-O1ET131-L/H SRB SEPAR.FROM O/ET            (ATU247)    ( 03 OCT 74  )

                REFERENCE DATA                                                                         PARAMETRIC DATA

SREF  =  2690.3000 SQ.FT.   XMRP  =  1258.5000 IN. XS                                    MACH   =      4.520   PTOTL  =     60.400
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                                   ALPHA  =     10.000   BETA   =     15.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                                    DALPHA =       .200   DBETA  =      -.100
SCALE =      .0100                                                                       X      =       .000

                          RUN NO.  734/ 0    RN/L =   4.01

       Y          Z          CN          CA         CLM        CY         CYN        CBL         DLTALF     DLTBTA       X
   -397.870   -100.360     .07631      .02646      .01093    -.09600    -.02268    -.00004      .15610    -.11608     .17675
   -397.890      -.378     .07927      .02773      .01001    -.11001    -.02072    -.00004      .15604    -.13609     .10956
   -398.270     99.183     .07613      .02803      .01022    -.12076    -.02067    -.00004      .17794    -.12720     .29249
   -398.350    199.770     .07463      .02793      .00864    -.12686    -.02053    -.00004      .15086    -.12454     .21421
   -398.800    399.660     .06474      .02940      .00894    -.13640    -.00904    -.00004      .14931    -.10988     .30990

                          RUN NO.  735/ 0    RN/L =   4.00

       Y          Z          CN          CA         CLM        CY         CYN        CBL         DLTALF     DLTBTA       X
   -299.350   -100.520     .06509      .02805      .01500    -.08637    -.02446    -.00005      .18779    -.10291    -.14242
   -300.420      -.132     .07476      .02886      .01206    -.09632    -.02692    -.00004      .13153    -.06085     .14395
   -299.440    100.200     .07796      .02841      .00947    -.11889    -.02461    -.00005      .12193    -.11802     .23096
   -299.690    200.370     .07263      .02797      .00817    -.13120    -.02397    -.00005      .12251    -.10229     .11115
   -299.000    399.730     .06114      .02944      .00836    -.14089    -.01156    -.00004      .14517    -.10983     .18268

                          RUN NO.  736/ 0    RN/L =   4.01

       Y          Z          CN          CA         CLM        CY         CYN        CBL         DLTALF     DLTBTA       X
   -197.500    -99.635     .05050      .02826      .01588    -.06629    -.02151    -.00004      .13403    -.16821     .15566
   -198.450      -.224     .06805      .03006      .01380    -.07088    -.02431    -.00004      .14907    -.11203     .34910
   -199.010     99.853     .07486      .03390      .01182    -.10386    -.02696    -.00005      .14575    -.10574     .14964
   -198.720    199.750     .07133      .03320      .00721    -.13343    -.02998    -.00005      .15055    -.11828     .16058
   -198.820    399.550     .05460      .02961      .00770    -.14505    -.01460    -.00004      .14794    -.11024     .44014

                          RUN NO.  737/ 0    RN/L =   4.01

       Y          Z          CN          CA         CLM        CY         CYN        CBL         DLTALF     DLTBTA       X
    -98.623   -100.300     .02530      .02033      .01179    -.04031    -.01366    -.00002      .13315    -.10739     .25435
    -97.465      -.853     .05895      .02089      .00682    -.03289    -.01182    -.00002      .11499    -.15090     .22482
   -100.040     98.022     .07264      .02703      .01166    -.07342    -.01534    -.00003      .20160     .01186     .22914
    -97.778    199.680     .06975      .03530      .00889    -.12154    -.02687    -.00005      .13097    -.12971     .27267
    -98.054    399.700     .04503      .02959      .00611    -.14757    -.01771    -.00004      .13750    -.10982     .25724
```

AEDC/VA528(IA87)-O1ET151-L/H SRB SEPAR.FROM O/ET (ATU248) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = 10.000 BETA = 15.800
CALPHA = .200 CBETA = -.100
X = 300.000

RUN NO. 741/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-397.850	-100.260	.07126	.02949	.01326	-.07911	-.02580	-.00004	.15184	-.14036	300.21000
-399.910	-.349	.07793	.03217	.01200	-.09996	-.02380	-.00005	.14527	-.11235	300.12000
-400.660	100.250	.07678	.03427	.01006	-.12323	-.02395	-.00005	.12733	-.07588	300.09000
-400.380	200.220	.07125	.03233	.00891	-.13322	-.02613	-.00005	.12387	-.06406	300.12000
-399.080	399.610	.06196	.02965	.00780	-.14042	-.01435	-.00005	.14349	-.10912	300.16000

RUN NO. 740/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-297.700	-99.571	.05671	.02297	.01091	-.05533	-.01764	-.00003	.14145	-.12204	300.42000
-295.960	.536	.07306	.02560	.00934	-.07057	-.01576	-.00003	.11769	-.18586	300.12000
-298.900	99.723	.07674	.03019	.01153	-.10051	-.01688	-.00004	.15322	-.10517	300.31000
-299.470	197.620	.07468	.03614	.00993	-.12951	-.02438	-.00005	.22891	-.05222	300.20000
-298.910	399.670	.05711	.02984	.00593	-.14697	-.01823	-.00005	.13997	-.11169	300.26000

RUN NO. 739/ 0 RN/L = 4.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-200.180	-102.070	.03977	.01579	.00912	-.04113	-.01135	-.00003	.20971	-.06460	300.35000
-197.620	-1.276	.06609	.01892	.00606	-.04882	-.00787	-.00002	.14537	-.16401	300.30000
-201.840	98.520	.07272	.02372	.00909	-.08163	-.00913	-.00003	.18679	-.04075	300.25000
-198.000	199.750	.07519	.02966	.01042	-.11238	-.01584	-.00004	.14317	-.13104	300.31000
-198.820	399.570	.04759	.03273	.00372	-.15251	-.02259	-.00005	.14306	-.11487	300.12000

RUN NO. 738/ 0 RN/L = 4.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-98.594	-98.014	.01985	.01311	.00586	-.02671	-.00723	-.00002	.08108	-.11754	300.18000
-97.148	.894	.05357	.01428	.00601	-.02708	-.00774	-.00001	.09611	-.12473	299.97000
-98.708	99.697	.07133	.01882	.00699	-.06506	-.00633	-.00002	.13760	-.10797	300.31000
-98.898	199.760	.07128	.02451	.00985	-.10052	-.01166	-.00004	.13976	-.10292	300.37000
-98.569	399.780	.03750	.03679	.00160	-.15475	-.02535	-.00005	.13762	-.11957	300.12000

ORIGINAL PAGE IS
OF POOR QUALITY

```
                                AEDC/VA528(IA87)-O1ET1S1-L/M SRB SEPAR.FROM O/ET            (ATU249)   ( 03 OCT 74  )

               REFERENCE DATA                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                   MACH   =     4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                  ALPHA  =    10.000   BETA   =    15.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                   DALPHA =     5.200   DBETA  =     -.100
SCALE =      .0100                                                      X      =   300.000

                         RUN NO.  742/ 0    RN/L =   4.01

        Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
    -398.840    -99.881     .11651     .03441     .01726    -.10485    -.01861    -.00005    5.14040    -.16311  300.33000
    -398.700     -.256      .12092     .03713     .01787    -.12268    -.01925    -.00006    5.15990    -.11249  300.22000
    -397.410     98.457     .12203     .03758     .01623    -.13588    -.02573    -.00006    5.20780    -.15460  300.23000
    -398.750    199.660     .11915     .03494     .01218    -.15507    -.02627    -.00006    5.14880    -.11890  300.08000
    -398.000    399.650     .10165     .03205     .01346    -.14779    -.01085    -.00005    5.14890    -.12885  300.43000

                         RUN NO   743/ 0    RN/L =   4.01

        Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
    -298.980   -100.540     .10517     .02759     .01222    -.07955    -.01114    -.00003    5.15510    -.10602  300.38000
    -299.590     -1.351     .11127     .03007     .01475    -.10110    -.00934    -.00004    5.18880    -.11125  300.34000
    -298.700     99.795     .12031     .03658     .01738    -.12218    -.01417    -.00006    5.15170    -.12587  300.04000
    -298.450    199.750     .11884     .03950     .01423    -.14946    -.02672    -.00006    5.14980    -.12653  300.13000
    -298.930    399.470     .09525     .03164     .01283    -.15191    -.01562    -.00005    5.15500    -.10943  300.34000

                         RUN NO.  744/ 0    RN/L =   4.01

        Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
    -197.080    -98.848     .08984     .02054     .00682    -.04963    -.00588    -.00002    5.08640    -.11566  300.06000
    -198.660     -.376      .09841     .02311     .01036    -.08190    -.00215    -.00003    5.15190    -.11261  300.25000
    -198.930     99.541     .11129     .02704     .01282    -.10541    -.00595    -.00004    5.14800    -.10763  300.22000
    -198.550    199.690     .11875     .03534     .01629    -.13465    -.01430    -.00005    5.15220    -.11233  300.27000
    -200.960    400.850     .08720     .03325     .01018    -.15443    -.02185    -.00006    5.10320    -.01397  300.04000

                         RUN NO.  745. 0    RN/L =   4.00

        Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
     -96.497    -98.223     .06641     .01732     .00346    -.02632    -.00292    -.00002    5.05860    -.14721  299.73000
     -98.156     -.274      .09319     .01942     .00711    -.06236     .00019    -.00002    5.14010    -.11398  300.41000
    -101.920     98.447     .10451     .02226     .00968    -.09458    -.00350    -.00004    5.18810    -.01898  300.57000
    -102.420    198.260     .11269     .02938     .01332    -.12993    -.00799    -.00005    5.19810     .00373  300.51000
     -99.017    399.690     .08128     .03740     .00622    -.15381    -.02678    -.00006    5.14520    -.10678  300.16000
```

AEDC/VA52C(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET (ATU250) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = 10.000 BETA = 15.800
CALPHA = 5.200 CBETA = -.100
X = .000

RUN NO. 749/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-398.310	-100.450	.11929	.03045	.01622	-.11559	-.01951	-.00005	5.14840	-.14148	.25839
-400.550	-.484	.12123	.03014	.01627	-.12443	-.02227	-.00005	5.15880	-.05575	.18210
-399.190	100.370	.12222	.03068	.01349	-.13717	-.02157	-.00005	5.12300	-.11220	.21726
-398.960	199.580	.11811	.03162	.01182	-.15057	-.01634	-.00005	5.15420	-.11045	.20367
-398.720	399.640	.10577	.03224	.01351	-.13754	-.00637	-.00006	5.15100	-.11265	.27347

RUN NO. 748/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-297.260	-99.863	.11415	.03110	.01714	-.10124	-.02256	-.00005	5.14550	-.15663	.05359
-296.640	-.599	.11936	.03292	.01726	-.11942	-.02359	-.00006	5.17750	-.18360	.21356
-298.890	98.411	.12262	.03160	.01533	-.13916	-.02567	-.00006	5.20840	-.08892	.25012
-298.440	199.560	.11723	.03178	.01185	-.15494	-.02215	-.00005	5.15580	-.12370	.18479
-297.340	398.970	.10410	.03219	.01338	-.14102	-.00855	-.00006	5.17340	-.17129	.27727

RUN NO. 747/ 0 RN/L = 4.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-197.740	-100.260	.10327	.03223	.01764	-.07469	-.01997	-.00004	5.14050	-.13262	.35044
-200.100	-1.202	.11227	.03534	.01867	-.10072	-.01892	-.00005	5.18160	-.08558	.32710
-198.320	99.644	.11940	.03780	.01641	-.12942	-.02521	-.00006	5.15160	-.12343	.22840
-201.090	201.480	.11251	.03685	.01178	-.16179	-.02845	-.00007	5.07610	-.04126	.34136
-198.820	399.670	.09794	.03195	.01232	-.14437	-.01170	-.00006	5.14860	-.10955	.34593

RUN NO. 746/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-98.426	-99.035	.08315	.02435	.00813	-.03640	-.01135	-.00002	5.07650	-.05244	-.02420
-98.515	-.626	.09797	.02493	.01115	-.06432	-.00566	-.00003	5.14080	-.10191	.38928
-99.516	99.410	.11425	.03134	.01596	-.10608	-.00995	-.00005	5.14170	-.07569	.26261
-98.495	199.870	.11076	.04023	.01312	-.15371	-.02632	-.00007	5.13600	-.11333	-.04052
-98.917	399.460	.09352	.03186	.01061	-.14464	-.01556	-.00006	5.15360	-.11434	.77929

ORIGINAL PAGE IS
OF POOR QUALITY

```
                                      AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET            (ATU251)    ( 03 OCT 74  )

            REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                                   MACH    =     4.520   PTOTL  =     60.400
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                                  ALPHA   =    10.000   BETA   =     15.800
BREF  =  1290.3000 INCHES    ZMRP  =    400.0000 IN. ZS                                  CALPHA  =    -4.900   CBETA  =      -.100
SCALE =       .0100                                                                      X       =      .000

                      RUN NO.   750/ 0     RN/L =    4.01

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
    -98.476    199.720     .03402     .03072     .00790    -.08764    -.02875    -.00005   -4.86440    -.10375     .42598
    -98.676    399.740     .01299     .02721    -.00166    -.13985    -.02168    -.00004   -4.86400    -.11009     .38008

                                      AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET            (ATU252)    ( 03 OCT 74  )

            REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                                   MACH    =     4.520   PTOTL  =     60.400
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                                  ALPHA   =    10.000   BETA   =     15.800
BREF  =  1290.3000 INCHES    ZMRP  =    400.0000 IN. ZS                                  CALPHA  =    -4.900   CBETA  =      -.100
SCALE =       .0100                                                                      X       =   300.000

                      RUN NO.   754/ 0     RN/L =    4.01

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
   -398.500     99.751     .04086     .03050     .00547    -.09813    -.02815    -.00004   -4.84910    -.12690  300.19000
   -399.300    200.560     .03696     .03048     .00354    -.11560    -.02604    -.00005   -4.88280    -.12159  300.35000
   -398.920    399.770     .02789     .02686     .00215    -.12589    -.01974    -.00004   -4.85410    -.11043  300.20000

                      RUN NO.   753/ 0     RN/L =    4.00

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
   -298.520     99.682     .04401     .02682     .00593    -.07134    -.02203    -.00003   -4.85080    -.11117  300.47000
   -299.040    199.900     .03942     .03130     .00453    -.10342    -.02719    -.00004   -4.85560    -.10821  300.17000
   -297.200    398.820     .02354     .02682     .00002    -.13193    -.02298    -.00004   -4.81980    -.17972  300.14000

                      RUN NO.   752/ 0     RN/L =    4.01

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
   -200.480     99.921     .04061     .01948     .00564    -.05150    -.01413    -.00003   -4.86070    -.05898  300.47000
   -198.340    199.870     .04445     .02682     .00487    -.08503    -.01841    -.00003   -4.85410    -.12863  300.06000
   -198.690    399.830     .01718     .03196    -.00232    -.13624    -.02673    -.00005   -4.85560    -.11837  300.12000

                      RUN NO.   751/ 0     RN/L =    4.01

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
    -98.871     99.748     .03775     .01374     .00622    -.03296    -.01053    -.00002   -4.86600    -.10691  300.17000
    -99.517    199.850     .04470     .02075     .00492    -.07095    -.01392    -.00002   -4.86240    -.08967  300.22000
   -100.920    400.910     .01039     .03503    -.00553    -.14050    -.02916    -.00005   -4.91270    -.00009  300.48000
```

AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET (ATU253) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = 10.000 BETA = 15.800
DALPHA = .200 DBETA = 3.900
X = .000

RUN NO. 755/ 0 RN/L = 4.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-397.520	-100.680	.06940	.02766	.01538	-.11532	-.03023	-.00006	.19114	3.84570	.17254
-398.020	-.483	.08359	.02709	.01031	-.12763	-.03114	-.00005	.16412	3.90030	.30996
-397.940	99.227	.08322	.02956	.00920	-.15056	-.02702	-.00005	.17158	3.87340	.21472
-397.470	199.730	.07978	.03054	.00831	-.16522	-.02585	-.00006	.14887	3.85920	.56910
-398.470	399.650	.06672	.03301	.00811	-.18544	-.01271	-.00006	.14870	3.88660	.56301

RUN NO. 756/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-298.680	-100.020	.05678	.02734	.01747	-.09994	-.03286	-.00006	.14956	3.90320	.16662
-300.380	-.380	.07465	.02889	.01389	-.10390	-.03777	-.00005	.13833	3.96270	.42092
-300.050	100.480	.08392	.02938	.00900	-.14183	-.03293	-.00005	.10636	3.86790	.25338
-298.110	200.370	.07954	.03120	.00746	-.17085	-.02748	-.00006	.11724	3.84710	.33816
-298.990	398.640	.06204	.03307	.00767	-.19083	-.01503	-.00006	.14954	3.88930	.23931

RUN NO. 757/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-199.020	-100.190	.03234	.02787	.02024	-.07421	-.02788	-.00005	.14037	3.89390	.24734
-199.030	-.103	.06753	.02952	.01447	-.07328	-.03212	-.00004	.14005	3.90570	.37652
-198.370	99.895	.08142	.03371	.01148	-.11669	-.03308	-.00005	.13722	3.88930	.41562
-198.320	199.840	.07897	.03601	.00614	-.16768	-.03425	-.00006	.14321	3.87670	.09300
-200.110	400.460	.05282	.03316	.00709	-.19688	-.01751	-.00006	.12458	3.93360	.25683

RUN NO. 758/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-99.398	-100.480	.00707	.01999	.01355	-.06223	-.01525	-.00003	.12463	3.91480	.19710
-97.154	-1.978	.04047	.01915	.01322	-.03717	-.01546	-.00003	.13662	3.87960	-.03536
-98.892	100.010	.07514	.02682	.01189	-.08288	-.01988	-.00004	.10305	3.90010	.07920
-98.873	199.930	.07762	.03623	.00834	-.15484	-.03244	-.00006	.10686	3.89270	-.04592
-99.957	399.770	.03825	.03332	.00660	-.19805	-.02047	-.00006	.13531	3.90770	-.03988

AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET (ATU254) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1259.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = 10.000 BETA = 15.800
DALPHA = .200 DBETA = 3.900
X = 300.000

RUN NO. 762/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-397.700	-100.210	.06661	.02928	.01503	-.09093	-.03270	-.00005	.15461	3.85310	300.35000
-399.800	-.427	.08357	.03259	.01138	-.11479	-.03113	-.00005	.13501	3.89330	300.46000
-400.520	100.030	.08203	.03579	.01082	-.14946	-.02922	-.00006	.14322	3.90490	300.51000
-400.940	200.640	.07839	.03574	.00804	-.17027	-.03033	-.00006	.11109	3.93670	300.30000
-398.860	399.630	.06698	.03303	.00583	-.18979	-.01849	-.00005	.14670	3.88930	300.26000

RUN NO. 761/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-297.500	-83.279	.04866	.02223	.01261	-.06764	-.02277	-.00004	.13924	3.84780	300.23000
-295.290	.655	.07529	.02481	.00974	-.07416	-.02401	-.00003	.12560	3.83670	300.07000
-299.200	98.634	.08432	.03185	.01066	-.12425	-.02134	-.00004	.15314	3.90370	300.41000
-298.840	198.940	.08085	.03801	.01017	-.16247	-.02838	-.00006	.14494	3.88790	300.33000
-297.320	398.250	.08016	.03333	.00424	-.19678	-.02247	-.00006	.19465	3.81540	299.87000

RUN NO. 760/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-201.290	-102.200	.02408	.01480	.01034	-.05067	-.01493	-.00002	.21097	3.97000	300.79000
-198.720	-2.300	.05816	.01597	.01000	-.04470	-.01443	-.00002	.18791	3.87740	300.11000
-203.260	99.009	.08098	.02369	.00796	-.09802	-.01324	-.00003	.15286	3.95980	300.29000
-199.290	199.850	.08008	.03219	.01111	-.14751	-.01746	-.00005	.13996	3.88540	300.02000
-198.350	399.750	.04806	.03708	.00151	-.20496	-.02678	-.00006	.14565	3.87470	300.28000

RUN NO. 759/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-99.814	-97.284	.00748	.01270	.00594	-.03475	-.00833	-.00001	.04584	3.89680	299.96000
-96.360	1.666	.03672	.01268	.00951	-.03156	-.00906	-.00002	.07720	3.85760	299.80000
-99.025	99.776	.06969	.01850	.00970	-.07776	-.00796	-.00002	.13204	3.69670	300.24000
-99.170	199.760	.07778	.02500	.00973	-.13018	-.01528	-.00004	.13263	3.90370	300.33000
-99.215	399.740	.03460	.04113	.00050	-.20712	-.02881	-.00006	.14090	3.88750	300.01000

AEDC/VA528(IA87)-01ET131-L/H SRB SEPAR.FROM O/ET (ATU255) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3600 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 80.400
ALPHA = 10.000 BETA = 15.800
DALPHA = 5.200 DBETA = 3.900
X = 300.000

RUN NO. 763/ 0 RN/L = 4.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-300.890	-99.509	.11983	.03476	.01819	-.12350	-.02447	-.00005	5.12050	3.85230	300.00000
-300.500	-.364	.12154	.03771	.01895	-.15083	-.02334	-.00006	5.15770	3.88320	300.46000
-300.010	99.710	.12568	.04061	.01671	-.17233	-.02789	-.00007	5.15720	3.88900	300.33000
-300.490	199.830	.12583	.03833	.01247	-.19470	-.03092	-.00007	5.16040	3.87550	300.10000
-300.990	399.800	.09973	.03546	.01410	-.19980	-.01381	-.00008	5.14910	3.88660	300.15000

RUN NO. 764/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-299.020	-100.340	.10699	.02694	.01119	-.08075	-.01912	-.00003	5.14870	3.89560	300.19000
-300.040	-1.708	.11436	.03205	.01461	-.12709	-.01144	-.00005	5.20010	3.84250	300.43000
-298.490	99.737	.12397	.03609	.01725	-.15414	-.01683	-.00006	5.15240	3.87570	300.22000
-298.330	199.660	.12580	.04270	.01538	-.19088	-.02852	-.00008	5.15910	3.86950	300.12000
-298.000	399.590	.09132	.03567	.01306	-.20437	-.01874	-.00006	5.14840	3.86690	300.50000

RUN NO. 765/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-197.290	-98.482	.07684	.01838	.00883	-.04624	-.01171	-.00002	5.08420	3.91690	299.82000
-199.380	-.263	.10873	.02336	.00856	-.09918	-.00457	-.00002	5.14730	3.89610	300.17000
-199.290	99.900	.11420	.02857	.01342	-.13770	-.00730	-.00005	5.15080	3.89380	300.24000
-199.670	199.740	.12399	.03729	.01655	-.17716	-.01552	-.00008	5.15060	3.90590	300.21000
-201.580	400.920	.08132	.03648	.01048	-.20476	-.02591	-.00008	5.10570	3.99850	300.17000

RUN NO. 766/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-98.747	-100.240	.03995	.01904	.00737	-.03240	-.00314	-.00002	5.12690	3.89740	300.33000
-99.171	-.230	.09173	.01995	.00819	-.06803	.00080	-.00003	5.13260	3.90360	300.15000
-103.920	99.342	.10873	.02379	.01003	-.12184	-.00463	-.00004	5.18360	4.01990	301.06000
-99.291	199.840	.11658	.03182	.01344	-.17143	-.00897	-.00006	5.12680	3.89120	299.99000
-99.229	399.860	.07748	.04046	.00528	-.19937	-.03140	-.00007	5.14470	3.89160	300.09000

```
                              AEDC/VA528(IA87)-O1ET181-L/H SRB SEPAR.FROM O/ET              (ATU256)    ( 03 OCT 74  )

            REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                          MACH   =     4.520  PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                         ALPHA  =    10.000  BETA   =    15.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                          DALPHA =     5.200  DBETA  =     3.900
SCALE =       .0100                                                            X      =      .000

                          RUN NO.  770/ 0    RN/L =   4.01

      Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -398.220  -100.470     .12172     .02989     .01678    -.13698    -.02726    -.00006    5.14500    3.82300    .58668
  -399.850     -.489     .12569     .03213     .01650    -.15766    -.02586    -.00006    5.15880    3.89580    .39334
  -400.450   100.110     .12825     .03262     .01406    -.17370    -.02706    -.00006    5.13030    3.93000    .34916
  -398.510   200.510     .12437     .03423     .01146    -.19306    -.02220    -.00006    5.11470    3.83840    .21327
  -399.230   399.670     .10399     .03504     .01531    -.18498    -.00961    -.00007    5.14700    3.89100    .66656

                          RUN NO.  769/ 0    RN/L =   4.01

      Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -297.710   -99.915     .11322     .03008     .01850    -.10648    -.03392    -.00005    5.14300    3.91560    .07345
  -296.280     -.406     .12151     .03413     .01772    -.14344    -.02819    -.00006    5.17070    3.82470   -.01644
  -297.230    98.506     .12677     .03516     .01596    -.17518    -.02872    -.00007    5.21880    3.85710    .33686
  -298.190   199.690     .12387     .03438     .01170    -.19772    -.02738    -.00006    5.15360    3.87170    .23057
  -297.400   398.780     .10015     .03458     .01558    -.18771    -.01274    -.00006    5.18090    3.81790    .62942

                          RUN NO.  768/ 0    RN/L =   4.01

      Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  -198.240  -100.060     .09651     .03023     .01813    -.06804    -.02944    -.00004    5.12530    3.87920    .04435
  -200.170    -1.291     .11526     .03481     .01739    -.11678    -.02278    -.00005    5.15930    3.86670    .58867
  -203.300    99.522     .12514     .04034     .01588    -.16457    -.02611    -.00007    5.14360    4.01030   1.25330
  -198.400   199.650     .11864     .04064     .01160    -.20353    -.03191    -.00008    5.13710    3.87900    .70605
  -198.830   399.420     .09419     .03437     .01401    -.18864    -.01687    -.00007    5.15320    3.89250   1.05810

                          RUN NO.  767/ 0    RN/L =   4.00

      Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   -99.173   -98.932     .04988     .02168     .01422    -.03565    -.01606    -.00003    5.11490    3.98560   -.04425
   -99.300     -.676     .09932     .02537     .01034    -.07113    -.00750    -.00003    5.12800    3.92120    .67431
  -100.110    99.186     .11859     .03281     .01583    -.13782    -.01088    -.00004    5.13190    3.94110    .81537
   -99.079   199.890     .11586     .04344     .01383    -.19782    -.02834    -.00008    5.12630    3.89930    .35438
   -99.278   399.470     .09063     .03423     .01110    -.18742    -.02067    -.00007    5.14810    3.88930    .59965
```

```
                                         AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET              (ATU257)    ( 03 OCT 74  )

              REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                                  MACH    =     4.520   PTOTL  =     60.400
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YS                                  ALPHA   =    10.000   BETA   =     15.800
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                                  DALPHA  =    -4.900   DBETA  =      3.900
SCALE =        .0100                                                                    X       =      .000

                              RUN NO.   771/ 0    RN/L =    4.00

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF      DLTBTA      X
  -398.420     98.995     .04474     .02613     .00554    -.12180    -.03292    -.00005    -4.81090    3.91100    .10406
  -399.480    199.080     .04629     .02744     .00209    -.14441    -.02840    -.00005    -4.82600    3.96550    .16493
  -399.390    399.670     .03373     .02961     .00207    -.16739    -.02022    -.00005    -4.85510    3.89970    .17085

                              RUN NO.   772/ 0    RN/L =    4.01

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF      DLTBTA      X
  -299.680     99.593     .03680     .02671     .00865    -.10658    -.03827    -.00006    -4.81760    3.93870    .07064
  -299.890    201.070     .04686     .02478     .00133    -.13261    -.03606    -.00005    -4.92230    3.89110    .51605
  -298.550    399.720     .03028     .02968     .00098    -.17150    -.02253    -.00005    -4.85690    3.88420    .40506

                              RUN NO.   773/ 0    RN/L =    4.01

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF      DLTBTA      X
  -199.800     99.923     .03582     .02986     .00929    -.08471    -.03597    -.00005    -4.86810    3.90580    .03909
  -199.240    199.980     .04465     .03113     .00142    -.12316    -.04106    -.00005    -4.86360    3.88730    .05714
  -200.730    400.630     .02276     .03084    -.00028    -.18052    -.02339    -.00005    -4.88390    3.92240    .13787

                              RUN NO.   774/ 0    RN/L =    4.01

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF      DLTBTA      X
   -99.863     99.553     .02907     .02201     .01148    -.05688    -.02231    -.00003    -4.87910    3.93680    .15733
   -99.028    200.010     .04145     .03105     .00596    -.10704    -.03774    -.00005    -4.90330    3.89710   -.24695
   -99.479    399.820     .01320     .03035    -.00353    -.16708    -.02622    -.00005    -4.86640    3.90380    .01689
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                                   AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET            (ATU258)    ( 03 OCT 74  )

              REFERENCE DATA                                                                     PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                               MACH   =      4.520   PTOTL  =     60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                               ALPHA  =     10.000   BETA   =     15.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                               DALPHA =     -4.900   DBETA  =      3.900
SCALE =       .0100                                                                 X      =    300.000

                           RUN NO.  778/ 0    RN/L =   4.01

       Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF      DLTBTA      X
   -398.310     99.805     .04835     .03093     .00522    -.11264    -.03649    -.00005   -4.85380    3.86780  300.25000
   -399.920    201.060     .04275     .03191     .00167    -.14588    -.03332    -.00005   -4.90550    3.88030  300.67000
   -398.910    399.750     .03196     .02986     .00015    -.16959    -.02460    -.00005   -4.85690    3.88770  300.30000

                           RUN NO.  777/ 0    RN/L =   4.01

       Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF      DLTBTA      X
   -298.770     99.748     .04781     .02690     .00654    -.07971    -.03038    -.00004   -4.85060    3.88810  300.41000
   -298.900    200.030     .04975     .03325     .00314    -.12734    -.03376    -.00005   -4.85730    3.89030  300.27000
   -298.400    399.780     .02864     .03010    -.00163    -.17674    -.02807    -.00005   -4.85610    3.88020  300.47000

                           RUN NO.  776/ 0    RN/L =   4.00

       Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF      DLTBTA      X
   -201.820     99.615     .04095     .01847     .00782    -.05733    -.01954    -.00003   -4.85320    3.98020  300.46000
   -199.190    199.860     .05369     .02719     .00392    -.10309    -.02508    -.00003   -4.85690    3.87590  299.96500
   -199.560    399.830     .01939     .03474    -.00533    -.18358    -.03235    -.00006   -4.86010    3.89030  299.94000

                           RUN NO.  775/ 0    RN/L =   4.02

       Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF      DLTBTA      X
    -99.644     99.743     .02945     .01337     .00918    -.04646    -.01326    -.00002   -4.87100    3.90320  300.09000
    -99.771    199.980     .04796     .02054     .00634    -.08888    -.01846    -.00003   -4.87330    3.92240  300.30000
    -99.665    399.370     .01199     .03800    -.00752    -.18622    -.03489    -.00006   -4.84730    3.90050  300.12000
```

```
                                AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET             (ATU259)    ( 03 OCT 74  )

               REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                              MACH    =     4.520   PTOTL  =     60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                              ALPHA   =    10.000   BETA   =     15.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                              CALPHA  =      .200   DBETA  :      7.900
SCALE =       .0100                                                                X       =      .000

                          RUN NO.  779/ 0    RN/L =   4.00

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -398.900   -100.170     .06107     .02587     .01870    -.12989    -.04006    -.00007     .15181    7.88310     .11532
  -398.150     -.891      .08264     .02619     .01332    -.13667    -.04429    -.00006     .19693    7.92420    -.00351
  -399.370     99.348     .09067     .02927     .00870    -.17736    -.03682    -.00006     .17268    7.94380     .08714
  -399.360    199.940     .08584     .03389     .00791    -.21068    -.02929    -.00006     .15311    7.88290    -.13782
  -399.300    399.730     .06895     .03670     .00742    -.24049    -.01627    -.00006     .14801    7.89000     .23505

                          RUN NO.  780/ 0    RN/L =   4.01

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -299.000    -99.774     .04077     .02873     .02224    -.11096    -.04092    -.00007     .15483    7.88540    -.29373
  -300.990     -.554      .06821     .02845     .01707    -.10913    -.04682    -.00007     .11836    7.98530     .32787
  -301.620    100.630     .09124     .03040     .00878    -.15991    -.04193    -.00006     .08235    7.89150     .39869
  -300.960    200.460     .08634     .03193     .00710    -.20753    -.03555    -.00007     .11322    7.87170     .28186
  -300.710    399.680     .06205     .03708     .00696    -.24828    -.01834    -.00007     .14793    7.91150     .36881

                          RUN NO.  781/ 0    RN/L =   4.01

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -198.860    -98.339     .01545     .02793     .02245    -.09548    -.03153    -.00005     .10231    7.85400    -.04762
  -199.410     -.259      .05192     .02838     .01995    -.08724    -.03506    -.00006     .11961    7.91850     .17311
  -139.850     99.824     .08490     .03526     .01220    -.13018    -.03977    -.00006     .11559    7.92000     .06990
  -199.410    199.880     .08681     .03744     .00619    -.19888    -.04062    -.00007     .12546    7.89720     .30661
  -201.470    400.560     .04968     .03740     .00692    -.25483    -.02048    -.00007     .12610    7.94350     .48078
```

```
                                   AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET             (ATUE60)   ( 03 OCT 74  )

           REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                                  MACH   =     4.520   PTOTL  =     60.400
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                                 ALPHA  =    10.000   BETA   =     15.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                                  CALPHA =      .200   CBETA  =      7.900
SCALE =        .0100                                                                   X      =   300.000

                        RUN NO.   784/ 0    RN/L =   4.01

     Y          Z          CN          CA          CLM         CY          CYN         CBL         DLTALF     DLTBTA      X
  -398.770   -100.100    .05755      .02915      .01708     -.10550     -.03954     -.00006      .15196    7.86320  299.95000
  -401.480      -.680    .08734      .03214      .01154     -.12251     -.04191     -.00005      .13024    7.95300  300.31000
  -401.120    100.070    .08986      .03747      .00948     -.17737     -.03518     -.00006      .13113    7.86800  300.54000
  -401.790    200.170    .08396      .03805      .00884     -.20987     -.03513     -.00008      .12934    7.94010  300.49000
  -399.700    399.580    .06903      .03675      .00517     -.24478     -.02289     -.00006      .14467    7.89870  300.11000

                        RUN NO.   783/ 0    RN/L =   4.01

     Y          Z          CN          CA          CLM         CY          CYN         CBL         DLTALF     DLTBTA      X
  -298.340    -98.475    .03644      .02251      .01514     -.07798     -.02780     -.00004      .11167    7.83760  299.94000
  -295.280       .299    .06819      .02405      .01388     -.07853     -.03105     -.00004      .16129    7.81850  299.35000
  -300.295     99.727    .09478      .03244      .00889     -.14326     -.02893     -.00004      .15293    7.91730  300.21000
  -299.880    199.920    .08576      .04121      .01130     -.20413     -.03154     -.00007      .14294    7.90080  300.05000
  -298.770    399.640    .06225      .03744      .00362     -.25455     -.02645     -.00007      .14721    7.87940  300.31000

                        RUN NO.   782/ 0    RN/L =   4.01

     Y          Z          CN          CA          CLM         CY          CYN         CBL         DLTALF     DLTBTA      X
  -200.220   -100.430    .01308      .01481      .00987     -.06341     -.01725     -.00002      .14164    7.92610  300.18000
  -199.680      -.140    .04609      .01557      .01399     -.05508     -.01631     -.00003      .13045    7.90400  300.10000
  -199.110     99.869    .08789      .02342      .00868     -.10765     -.01935     -.00003      .12899    7.88300  300.04000
  -199.060    199.840    .08802      .03502      .01111     -.18205     -.02276     -.00006      .13909    7.87740  299.95000
  -199.270    399.810    .04754      .04152      .00077     -.26432     -.03035     -.00007      .14039    7.88760  299.87000
```

```
                                  AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET          (ATJ261)    ( 03 OCT 74  )

              REFERENCE DATA                                                                 PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                         MACH   =      4.520   PTOTL   =    60.400
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YS                         ALPHA  =     10.000   BETA    =    15.800
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                         DALPHA        5.200   DBETA   =     7.900
SCALE =       .0100                                                            X      =    300.000

                              RUN NO.  785/ 0    RN/L =   4.00

      Y           Z          CN          CA         CLM         CY         CYN         CBL        DLTALF      DLTBTA       X
  -397.850     -99.360     .12419      .03401      .01501     -.12911     -.03518     -.00004     5.12120     7.92740  299.91000
  -399.340       -.312     .12670      .03928      .01766     -.18105     -.02644     -.00006     5.15600     7.89390  300.28000
  -399.400      99.741     .13000      .04221      .01722     -.20860     -.03107     -.00007     5.15270     7.89000  300.12000
  -398.820     199.850     .13239      .04197      .01305     -.24094     -.03449     -.00007     5.15710     7.87450  300.15000
  -398.930     399.790     .09816      .03925      .01387     -.25716     -.01742     -.00007     5.14730     7.87860  300.23000

                              RUN NO.  786/ 0    RN/L =   4.00

      Y           Z          CN          CA         CLM         CY         CYN         CBL        DLTALF      DLTBTA       X
  -299.820    -100.370     .09479      .02588      .01509     -.07938     -.02719     -.00004     5.14620     7.91120  300.20000
  -299.360       -.227     .12472      .03319      .01153     -.15066     -.01472     -.00004     5.15280     7.88980  300.28000
  -298.810      99.871     .12588      .03824      .01863     -.19079     -.01953     -.00007     5.15140     7.86980  300.04000
  -298.750     199.650     .13170      .04627      .01662     -.24017     -.03009     -.00009     5.15680     7.87320  300.07000
  -298.520     403.440     .08740      .03933      .01276     -.25914     -.02255     -.00007     5.03390     7.81120  299.82000

                              RUN NO.  787/ 0    RN/L =   4.01

      Y           Z          CN          CA         CLM         CY         CYN         CBL        DLTALF      DLTBTA       X
  -197.820     -98.105     .05516      .01644      .01330     -.05548     -.01357     -.00003     5.09950     7.92040  299.56000
  -199.130       -.242     .11311      .02375      .00807     -.10262     -.00765     -.00002     5.13590     7.90130  300.34000
  -199.730      99.591     .11910      .03105      .01373     -.17172     -.00866     -.00005     5.15140     7.90680  300.24000
  -200.330     199.670     .12907      .04027      .01714     -.22554     -.01704     -.00007     5.14860     7.92330  300.21000
  -201.730     401.220     .07560      .04066      .00964     -.25714     -.03044     -.00007     5.09160     8.00550  300.32000
```

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA528(IA87)-O1ET151-L/H SRB SEPAR.FROM O/ET (ATU262) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = 10.000 BETA = 15.800
DALPHA = 5.200 DBETA = 7.900
X = .000

RUN NO. 790/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-400.380	-100.200	.12333	.02855	.01750	-.14885	-.04005	-.00006	5.11740	7.87630	.99586
-399.530	-.505	.13002	.03243	.01645	-.18822	-.03205	-.00007	5.15150	7.82560	.81531
-399.620	99.674	.13216	.03630	.01544	-.21839	-.02876	-.00008	5.14770	7.87660	.95681
-400.320	200.460	.13118	.03704	.01158	-.24190	-.02747	-.00007	5.10020	7.90520	.84838
-398.360	399.520	.10020	.03772	.01817	-.23643	-.01357	-.00007	5.17250	7.88320	1.01210

RUN NO. 789/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-298.170	-100.530	.09957	.02922	.02340	-.10577	-.04452	-.00006	5.17580	7.96280	.43299
-296.300	-.058	.12865	.03532	.01604	-.16530	-.03397	-.00005	5.12370	7.84250	.12299
-297.310	98.850	.13191	.03781	.01624	-.21268	-.03220	-.00007	5.19480	7.85060	.30840
-299.120	199.710	.12808	.03792	.01326	-.24728	-.03087	-.00007	5.15310	7.88320	.46346
-297.710	398.660	.09405	.03717	.01719	-.23570	-.01814	-.00007	5.19270	7.81780	.60628

RUN NO. 788/ 0 RN/L = 4.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-198.540	-100.130	.06827	.02876	.02583	-.07680	-.03351	-.00005	5.10420	7.88030	.15063
-201.650	-.795	.11798	.03621	.01626	-.12451	-.02862	-.00005	5.08030	7.91070	.83812
-204.630	99.110	.13090	.04156	.01576	-.19621	-.02901	-.00007	5.13100	8.01600	1.43890
-199.360	199.680	.12429	.04462	.01301	-.25291	-.03372	-.00009	5.14220	7.89660	.49810
-199.180	399.470	.09002	.03692	.01447	-.23400	-.02249	-.00008	5.14950	7.89120	.87605

```
                              AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET          (ATU263)   ( 03 OCT 74  )

            REFERENCE DATA                                                                   PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                            MACH   =     4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                            ALPHA  =    10.000   BETA   =    15.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                            DALPHA =    -4.900   DBETA  =     7.900
SCALE =      .0100                                                               X      =      .000

                        RUN NO.  791/ 0    RN/L =   4.01

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
  -397.880     98.458     .04304     .02551     .00923    -.13596    -.04453    -.00006   -4.76330    7.88180    -.13566
  -399.390    199.910     .05286     .02653     .00156    -.16630    -.04068    -.00006   -4.84990    7.87860     .04795
  -399.240    399.720     .03714     .03259     .00090    -.21655    -.02515    -.00006   -4.85240    7.88530     .16735

                        RUN NO.  792/ 0    RN/L =   4.01

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
  -299.070    100.090     .03655     .02657     .01007    -.11408    -.04805    -.00007   -4.85600    7.91180    -.14483
  -302.420    200.990     .05206     .02442     .00219    -.14892    -.04880    -.00006   -4.92220    7.95550     .58558
  -299.750    399.780     .03067     .03399     .00070    -.22627    -.02565    -.00006   -4.85810    7.90020     .19191

                        RUN NO.  793/ 0    RN/L =   4.01

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
  -199.520     99.824     .02862     .03031     .01309    -.10356    -.03944    -.00006   -4.88420    7.91930     .19210
  -199.280    200.080     .04320     .03343     .00508    -.14106    -.04878    -.00007   -4.89110    7.89720    -.09005
  -200.930    401.190     .02462     .03363    -.00221    -.23450    -.02817    -.00006   -4.90150    7.93750     .25691

                              AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET          (ATU264)   ( 03 OCT 74  )

            REFERENCE DATA                                                                   PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                            MACH   =     4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                            ALPHA  =    10.000   BETA   =    15.800
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                            DALPHA =    -4.900   DBETA  =     7.900
SCALE =      .0100                                                               X      =   300.000

                        RUN NO.  796/ 0    RN/L =   4.00

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
  -398.820     99.898     .05248     .03133     .00529    -.12250    -.04700    -.00006   -4.85530    7.86770  299.97000
  -401.210    201.070     .05255     .03347     .00034    -.17161    -.04187    -.00006   -4.91910    7.88200  300.57000
  -399.980    399.820     .03587     .03308    -.00083    -.21982    -.02984    -.00006   -4.85650    7.90300  300.92000

                        RUN NO.  795/ 0    RN/L =   4.01

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA       X
  -299.860     99.838     .04498     .02659     .00990    -.09003    -.03675    -.00005   -4.85260    7.91020  300.34000
  -299.320    200.110     .05949     .03324     .00212    -.14468    -.04343    -.00005   -4.86190    7.89500  300.15000
  -299.840    399.850     .03119     .03332    -.00209    -.22766    -.03368    -.00007   -4.85350    7.89660  300.94000
```

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET (ATU264) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = 10.000 BETA = 15.800
DALPHA = -4.900 DBETA = 7.900
X = 300.000

RUN NO. 794/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-199.860	99.795	.03464	.01793	.01161	-.06667	-.02250	-.00003	-4.86370	7.91780	300.36000
-198.970	200.060	.05858	.02631	.00573	-.11535	-.03454	-.00004	-4.86880	7.87240	299.89000
-199.200	399.930	.02112	.03856	-.00554	-.23680	-.03758	-.00007	-4.85750	7.88870	299.94000

AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET (ATU265) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = 10.000 BETA = 15.800
DALPHA = -4.900 DBETA = -.100
X = .000

RUN NO. 797/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-398.710	98.612	.04251	.02568	.00403	-.10529	-.02168	-.00003	-4.84740	-.10192	.15812
-399.010	199.100	.03762	.02650	.00449	-.11570	-.01949	-.00003	-4.82520	-.07613	.23142
-398.810	399.620	.03195	.02661	.00325	-.12257	-.01545	-.00003	-4.85620	-.11473	.43482

RUN NO. 798/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-299.710	99.346	.03626	.02623	.00759	-.09480	-.02784	-.00004	-4.81350	-.04747	.13147
-299.090	200.870	.03973	.02509	.00251	-.11256	-.02479	-.00004	-4.90890	-.13516	.32251
-298.900	399.690	.02873	.02673	.00260	-.12563	-.01819	-.00003	-4.85260	-.11274	.23873

RUN NO. 799/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-199.180	99.908	.03205	.02993	.00942	-.08009	-.02889	-.00004	-4.85800	-.10448	.25989
-197.730	199.800	.03747	.03046	.00259	-.10533	-.03223	-.00004	-4.85060	-.13505	.44517
-200.130	400.630	.02194	.02672	.00119	-.13201	-.02030	-.00004	-4.88200	-.06969	.21500

RUN NO. 800/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-99.816	99.637	.03378	.02325	.00848	-.05088	-.01581	-.00003	-4.85730	-.07951	.14445
-97.951	199.690	.03377	.03096	.00708	-.08892	-.02876	-.00004	-4.86590	-.13126	.08076
-98.973	399.700	.01332	.02719	-.00153	-.13964	-.02163	-.00004	-4.85980	-.10533	.20635

```
                                   AEDC/VA528(IA87)-O1ET151-R/H SRB SEPAR.FROM O/ET          (ATU266)   ( 03 OCT 74  )

            REFERENCE DATA                                                                     PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                          MACH    =     4.520   PTOTL   =     60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                          ALPHA   =     -.500   BETA    =     15.700
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                          CALPHA  =      .200   CBETA   =       .000
SCALE =      .0100                                                             X       =      .000

                     RUN NO.  804/ 0    RN/L =   4.01

    Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA      X
  10.586   -100.200    -.00739     .04134     .01423    -.02303     .00316     .00000     .21936    -.00180     .15511
  11.619      2.653    -.03527     .04379     .01153    -.03230     .00969    -.00000     .12814    -.08891    -.07493
  10.956     99.707    -.05254     .04250     .00107    -.04682     .00501    -.00001     .21294    -.01541     .18693
  11.461    199.450    -.04088     .03526    -.00652    -.06179    -.00430    -.00001     .23157    -.02067     .22763
  10.366    399.900    -.01424     .02682     .00160    -.08795    -.01134    -.00002     .23455    -.00193    -.01435

                     RUN NO.  803/ 0    RN/L =   4.03

    Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA      X
  99.494    -99.363    -.02129     .03254     .00470    -.02216    -.01735     .00000     .17046     .04760     .18325
 102.080      -.746    -.02237     .03537     .00777    -.02364    -.01271    -.00001     .24469    -.04801     .22515
 102.080     99.389    -.01157     .03179     .00286    -.03585    -.01350    -.00002     .24313    -.03175     .22003

                     RUN NO.  802/ 0    RN/L =   4.03

    Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA      X
 202.770    -99.998    -.01433     .02963     .00164    -.04771    -.02387    -.00001     .22181    -.03275     .22419
 200.240      -.619    -.00950     .03179     .00295    -.04485    -.02418    -.00003     .24758     .02092    -.04666
 199.870    100.040     .00574     .02996    -.00127    -.05515    -.02239    -.00003     .18889    -.00127     .04387
 200.640    200.390     .01190     .02719    -.00405    -.07296    -.01794    -.00002     .19795    -.04121     .20803
 199.600    399.990     .00700     .02594    -.00337    -.09140    -.01542    -.00003     .22184    -.00327     .10617

                     RUN NO.  801/ 0    RN/L =   4.03

    Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA      X
 400.550    -99.990     .00127     .02618    -.00127    -.08936    -.01822    -.00003     .21422    -.00174     .08004
 399.880      -.286    -.00066     .02598    -.00016    -.09233    -.01711    -.00003     .22568     .01938    -.05479
 399.950     99.643    -.00040     .02588    -.00034    -.09562    -.01539    -.00003     .21760     .01610    -.09967
 400.230    200.000    -.00081     .02552    -.00032    -.09732    -.01435    -.00002     .22519     .01626     .04132
 400.280    400.030    -.00088     .02514    -.00018    -.09943    -.01330    -.00003     .21991     .00777     .25133
```

AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET (ATU267) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = -.500 BETA = 15.700
DALPHA = .200 DBETA = .000
X = 300.000

RUN NO. 805/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
12.231	-102.560	-.01732	.03875	.00669	-.03177	.00347	.00001	.30696	-.04752	300.12000
10.327	-.047	-.03814	.03838	.00335	-.05097	.00370	.00000	.21591	.00105	300.02000
11.811	98.035	-.05959	.04027	.00312	-.06500	.00072	-.00000	.26893	-.07971	299.97000
9.417	199.630	-.05688	.04062	-.00251	-.06651	-.00397	-.00001	.21679	.02556	299.88000
10.562	401.260	-.01898	.02755	-.00301	-.08518	-.01154	-.00002	.16929	.00339	300.06000

RUN NO. 806/ 0 RN/L = 4.02

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
99.683	-99.678	-.01106	.03613	.00359	-.01032	-.00429	.00001	.18107	.09811	300.18000
100.940	1.183	-.02315	.03600	.00229	-.02131	.00066	-.00000	.17419	-.04505	299.95000
98.603	100.170	-.03601	.03736	.00487	-.04067	.00036	-.00001	.22944	.04889	300.00000
99.988	199.620	-.01663	.03254	.00019	-.05340	-.00856	-.00002	.21710	.01022	299.95000
100.520	399.900	.00403	.02597	-.00026	-.08165	-.01438	-.00002	.22521	-.00568	300.00000

RUN NO. 807/ 0 RN/L = 4.02

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.280	-99.529	-.01219	.03174	-.00062	-.03899	-.02059	-.00001	.18984	.01753	300.18000
201.840	.274	-.00974	.03137	.00123	-.04399	-.01795	-.00002	.20452	-.04868	300.23000
201.440	99.601	.00008	.03049	.00078	-.04969	-.01992	-.00002	.23428	-.01548	300.19000
201.720	199.760	.01105	.02811	-.00276	-.06622	-.01919	-.00002	.23643	.00855	300.30000
199.550	400.380	.00822	.02594	-.00314	-.08961	-.01561	-.00002	.19219	.02695	300.28000

RUN NO. 808/ 0 RN/L = 4.02

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
398.840	-100.530	.00716	.02732	-.00357	-.08216	-.02066	-.00003	.22899	.09050	299.97000
400.820	-.092	.00373	.02669	-.00237	-.08618	-.01899	-.00002	.23986	-.02729	300.10000
401.030	99.783	.00048	.02638	-.00084	-.08977	-.01735	-.00002	.23935	-.02784	300.12000
400.610	199.850	-.00045	.02573	-.00047	-.09512	-.01508	-.00002	.21450	-.03329	300.00000
400.870	399.700	-.00090	.02494	-.00008	-.09835	-.01323	-.00002	.21702	-.03010	300.20000

AEDC/VA528(IA87)-O1ET151-R/H SRB SEPAR.FROM O/ET (ATU268) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = -.500 BETA = 15.700
DALFHA = 5.200 DBETA = .000
X = 300.000

RUN NO. 812/ 0 RN/L = 4.02

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
10.370	-100.090	.01983	.03965	.01630	-.06286	.00345	-.00000	5.21780	.00293	300.16000
10.009	2.067	.00075	.03948	.01303	-.05810	.00208	-.00001	5.13520	.03954	299.94000
10.858	96.766	-.00228	.03848	.00602	-.06145	-.00326	-.00002	5.21050	-.01316	300.17000
8.961	201.620	.00580	.03844	-.00284	-.06481	-.00716	-.00002	5.12780	.06474	299.90000
7.557	397.050	.02958	.02694	.00077	-.07910	-.01090	-.00002	5.29360	.10281	300.30000

RUN NO. 811/ 0 RN/L = 4.02

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.290	-101.030	.01200	.03592	.01266	-.04822	-.00206	.00001	5.23150	-.00283	300.24000
102.130	-1.877	-.00101	.03867	.01323	-.04222	-.00108	-.00000	5.28720	-.07681	300.46000
100.550	99.004	.00261	.03576	.00608	-.03811	-.00483	-.00001	5.21260	-.00605	300.16000
100.550	199.880	.01971	.03054	.00024	-.05228	-.00926	-.00002	5.21100	-.00671	300.17000
101.620	399.860	.03637	.02680	.00211	-.08130	-.01516	-.00002	5.20910	-.04130	300.20000

RUN NO. 810/ 0 RN/L = 4.02

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
203.060	-99.067	-.00355	.03130	.00879	-.05899	-.01912	-.00001	5.21110	-.07501	300.00000
200.740	-.806	-.00702	.03233	.01221	-.06051	-.01853	-.00002	5.26150	-.00475	300.21000
200.340	99.752	.00432	.03205	.01039	-.06035	-.01990	-.00002	5.21660	.01606	300.31000
200.050	199.800	.02236	.02918	.00537	-.06885	-.01876	-.00002	5.18380	-.00831	300.02000
199.300	399.630	.03092	.02698	.00361	-.08825	-.01692	-.00002	5.19860	-.00193	300.17000

RUN NO. 809/ 0 RN/L = 4.02

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.220	-100.070	.02729	.02793	.00578	-.08641	-.01988	-.00002	5.22010	.01556	300.06000
399.520	-.395	.02687	.02739	.00595	-.09111	-.01846	-.00002	5.23200	.04381	300.03000
400.300	99.835	.03013	.02614	.00452	-.09741	-.01504	-.00002	5.22100	.01394	300.12000
400.100	199.730	.03038	.02606	.00426	-.09924	-.01408	-.00002	5.21970	.00883	300.03000
400.450	399.830	.03059	.02552	.00406	-.10097	-.01325	-.00002	5.21710	-.00258	300.10000

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET (ATU269) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRF = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 FTOTL = 60.400
ALPHA = -.500 BETA = 15.700
CALPHA = 5.200 CBETA = .000
X = .000

RUN NO. 813/ 0 RN/L = 4.02

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
10.936	-99.935	.02488	.04234	.02559	-.04742	.00611	-.00001	5.21040	-.01043	.09776
10.486	.204	.00934	.04368	.01528	-.04024	.00660	-.00002	5.19790	.00020	.01065
10.666	99.837	.00680	.03941	-.00093	-.04529	.00403	-.00002	5.21170	-.00272	.30622
10.390	200.030	.00714	.03315	-.00464	-.05763	-.00184	-.00002	5.20260	-.01250	.07990
9.788	399.900	.03213	.02646	.00347	-.08067	-.01358	-.00002	5.25550	.03473	.26319

RUN NO. 814/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.610	-100.080	.00034	.03238	.01579	-.05785	-.00791	-.00001	5.20500	-.00688	.04335
101.170	1.089	-.00513	.03315	.01265	-.04432	-.00894	-.00001	5.16250	.00419	-.09678
99.557	101.050	.00678	.03070	.00520	-.04754	-.01084	-.00002	5.13300	.04327	.01590
99.428	199.530	.02524	.02849	.00183	-.05896	-.01273	-.00002	5.19990	.04354	.34894
97.162	399.010	.03578	.02678	.00249	-.08540	-.01631	-.00002	5.24020	.10270	.26549

RUN NO. 815/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.810	-100.210	-.00939	.03125	.01536	-.07060	-.01921	-.00002	5.22190	-.02535	.13669
200.430	-.700	-.00280	.03128	.01366	-.06633	-.01971	-.00003	5.25520	-.00365	.32076
200.670	99.757	.01499	.02927	.00735	-.06813	-.01868	-.00002	5.21560	-.01478	.08940
201.260	199.820	.02534	.02837	.00504	-.07415	-.01884	-.00002	5.22430	-.00232	.29207
200.500	399.670	.03127	.02673	.00369	-.09128	-.01600	-.00002	5.23790	.00454	.25351

RUN NO. 816/ 0 RN/L = 4.02

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
399.190	-99.893	.02797	.02625	.00524	-.09529	-.01643	-.00002	5.17900	.03102	.00162
400.600	-.136	.02973	.02621	.00460	-.09763	-.01491	-.00002	5.21550	-.01672	.05532
400.540	99.903	.03953	.02617	.00428	-.09852	-.01425	-.00002	5.22500	-.00934	.08600
400.820	199.940	.03993	.02572	.00400	-.09982	-.01344	-.00002	5.22250	-.01694	.15382
400.490	399.670	.03957	.02554	.00403	-.10058	-.01315	-.00002	5.21920	-.01282	.04679

```
                                 AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET          (ATU270)   ( 03 OCT 74  )

           REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1250.5000 IN. XS                          MACH   =     4.520  PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                          ALPHA  =     -.500  BETA   =    15.700
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                          DALPHA =    -4.800  DBETA  =      .000
SCALE =      .0100                                                             X      =      .000

                          RUN NO.  820/ 0    RN/L =   4.01

    Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  10.420    100.080    -.10188     .04442    -.00443    -.03544     .00402     .00001   -4.80670    -.00734     .12031
  11.359    199.830    -.11648     .04096    -.00307    -.05582    -.00142     .00000   -4.78530    -.01694     .20371
  10.506    399.630    -.07278     .03058    -.00001    -.08751    -.01375    -.00002   -4.75590    -.00748    -.13989

                          RUN NO.  819/ 0    RN/L =   4.01

    Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  99.679     99.875    -.05326     .03460     .00380    -.04684    -.00998    -.00002   -4.80060     .00870    -.10111
 102.700    199.140    -.06041     .03534     .00683    -.05237    -.01726    -.00003   -4.72080    -.03368     .08433
 100.750    399.270    -.05911     .02761    -.00075    -.08962    -.01453    -.00003   -4.71480    -.00169    -.02925

                          RUN NO.  818/ 0    RN/L =   4.01

    Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
 200.730     99.211    -.01609     .03010    -.00594    -.06592    -.02069    -.00003   -4.77060     .00801    -.16055
 200.120    200.320    -.01940     .02717    -.00588    -.07598    -.02009    -.00002   -4.78480     .00841     .18181
 200.740    400.540    -.02289     .02608    -.00757    -.09925    -.01325    -.00002   -4.80360    -.06913     .02303

                          RUN NO.  817/ 0    RN/L =   4.00

    Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
 400.200     99.784    -.03010     .02615    -.00539    -.09749    -.01570    -.00002   -4.78370     .01406     .05893
 400.490    200.080    -.03131     .02604    -.00495    -.10000    -.01440    -.00002   -4.77900     .01903     .11891
 400.280    400.030    -.03252     .02564    -.00425    -.10218    -.01305    -.00002   -4.77920     .00813     .30085
```

AEDC/VA528(IA87)-OIET151-R/H SRB SEPAR.FROM O/ET (ATU271) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = -.500 BETA = 15.700
DALPHA = -4.800 DBETA = .000
X = 300.000

RUN NO. 821/ 0 RN/L = 4.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
11.049	98.847	-.10709	.03855	-.00964	-.04367	-.00368	.00001	-4.78020	-.02385	299.83000
10.084	199.890	-.11794	.04184	-.00945	-.06035	-.00316	.00001	-4.77940	.01107	300.07000
10.810	401.530	-.08527	.03032	-.00427	-.08795	-.01090	-.00001	-4.83100	-.02888	300.13000

RUN NO. 822/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.710	99.989	-.07306	.03642	-.00363	-.04803	-.00055	-.00000	-4.79500	-.00203	300.29000
97.842	199.080	-.08572	.03645	.00330	-.06238	-.00575	-.00001	-4.71990	.10226	300.14000
100.420	399.750	-.05133	.02860	.00108	-.08408	-.01493	-.00002	-4.77150	-.00494	299.96000

RUN NO. 823/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
202.250	100.130	-.02313	.03044	-.00355	-.06224	-.01637	-.00003	-4.81680	-.07737	300.01000
201.230	198.990	-.02643	.03089	-.00152	-.06732	-.02102	-.00003	-4.71380	.05443	300.09000
199.820	400.040	-.02195	.02554	-.00717	-.09845	-.01349	-.00000	-4.82840	-.00220	300.05000

RUN NO. 824/ 0 RN/L = 4.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
398.690	101.090	-.02559	.02639	-.00769	-.09607	-.01564	-.00001	-4.84090	.03984	300.35000
400.750	199.650	-.02952	.02621	-.00579	-.09590	-.01568	-.00001	-4.76900	-.01131	300.26000
400.850	399.580	-.03241	.02559	-.00433	-.10111	-.01305	-.00001	-4.78130	-.04306	300.11000

```
                         AEDC/VA528(IA87)-O1ET131-R/H SRB SEPAR.FROM O/ET         (ATU272)   ( 03 OCT 74  )

           REFERENCE DATA                                                            PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                     MACH   =      4.520   PTOTL  =     60.400
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                    ALPHA  =      -.500   BETA   =     15.700
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                     DALPHA =       .200   DBETA  =     -4.000
SCALE =        .0100                                                      X      =       .000

                     RUN NO.  827/ 0    RN/L =   4.01

     Y         Z         CN         CA         CLM        CY        CYN        CBL        DLTALF    DLTBTA      X
   99.435   -100.440   -.00332     .03015     .00421     .00469   -.00330     .00001     .21109   -3.91350    .08086
  102.840     -1.470   -.02807     .03195     .00879    -.00969    .00426     .00001     .26366   -4.06950    .38118
  101.020     99.767   -.03864     .03139     .00659    -.02365    .00244     .00001     .21683   -4.00770    .16890
  100.710    199.980   -.03152     .02843     .00154    -.03335   -.00414    -.00000     .21906   -4.00380    .12650
  101.600    400.010   -.01115     .02581     .00163    -.05088   -.01033    -.00002     .23991   -4.06490    .05803

                     RUN NO.  826/ 0    RN/L =   4.01

     Y         Z         CN         CA         CLM        CY        CYN        CBL        DLTALF    DLTBTA      X
  200.890   -100.100   -.01111     .03134     .00072     .01372   -.02300    -.00001     .20970   -4.00940    .05736
  201.190     -1.272   -.02206     .03264     .00758     .00390   -.01933    -.00000     .27362   -4.03410    .16642
  200.280     99.755   -.02091     .03167     .00835    -.00888   -.01692    -.00001     .22632   -4.01170    .04817
  199.710    200.770   -.00799     .02748     .00222    -.02407   -.01577    -.00002     .16772   -3.99140   -.05991
  198.680    400.130    .00152     .02417    -.00134    -.05002   -.01442    -.00002     .19241   -3.97270   -.12293

                     RUN NO.  825/ 0    RN/L =   4.01

     Y         Z         CN         CA         CLM        CY        CYN        CBL        DLTALF    DLTBTA      X
  401.040    -99.943   -.00098     .02578    -.00026    -.03889   -.02195    -.00002     .21629   -4.02490    .14439
  399.950      -.377   -.00295     .02660     .00086    -.04037   -.02225    -.00002     .23247   -3.94090    .07576
  400.840     99.567   -.00025     .02382    -.00037    -.05131   -.01669    -.00001     .22837   -3.98630    .16238
  400.270    200.200    .00079     .02400    -.00109    -.05606   -.01473    -.00001     .21648   -3.96720    .04158
  400.480    400.060   -.00095     .02277    -.00017    -.06239   -.01190    -.00001     .22096   -3.98950    .30616
```

```
                                   AEDC/VA528(IA87)-01ET1S1-R/M SRB SEPAR.FROM O/ET              (ATU273)    ( 03 OCT 74  )

             REFERENCE DATA                                                                            PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                                   MACH   =      4.520  PTOTL   =      60.400
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                                  ALPHA  =      -.500  BETA    =      15.700
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                                   DALPHA =       .200  DBETA   =      -4.000
SCALE =       .0100                                                                     X      =    300.000

                         RUN NO.  828/ 0    RN/L =    4.00

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
    101.060   -100.360    -.00148     .03409     .00448     .01006     .01226     .00001     .23054   -4.01190  300.14000
     99.084      2.503    -.02971     .03568     .00202    -.00966     .01198     .00002     .13814   -3.96250  300.01000
     98.777    101.090    -.04518     .03664     .00142    -.02457     .00993     .00002     .19519   -3.93200  300.08000
    100.290    199.830    -.04025     .03241    -.00017    -.03612     .00329     .00001     .21444   -4.00150  300.00000
    100.570    399.860    -.01508     .02652     .00133    -.05008    -.00920    -.00002     .23022   -4.00410  300.00000

                         RUN NO.  829/ 0    RN/L =    4.01

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
    201.420   -100.250    -.00971     .02955    -.00036     .00698    -.00997     .00000     .19860   -4.03130  300.17000
    201.880       .681    -.02028     .02934     .00233     .00138    -.01033     .00000     .15828   -4.04100  300.22000
    201.940    100.080    -.02852     .02982     .00772    -.01139    -.01123    -.00000     .21205   -4.03670  300.19000
    203.810    199.380    -.01917     .02898     .00624    -.02341    -.01217    -.00001     .28211   -4.08500  300.47000
    198.940    399.480     .00101     .02439    -.00100    -.04661    -.01434    -.00002     .21814   -3.92590  299.93000

                         RUN NO.  830/ 0    RN/L =    4.01

       Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
    400.970   -100.060    -.00055     .02808     .00007    -.02949    -.02387    -.00003     .22953   -4.01600  300.19000
    400.470       .067    -.00177     .02684     .00000    -.03434    -.02285    -.00002     .22793   -4.01530  300.05000
    400.370     99.829    -.00292     .02646     .00072    -.03908    -.02161    -.00002     .23414   -4.01430  300.10000
    401.410    200.030    -.00005     .02405    -.00066    -.05098    -.01638    -.00002     .20495   -4.07330  300.19000
    401.130    399.810    -.00090     .02321    -.00027    -.06047    -.01262    -.00001     .21509   -4.05300  300.16000
```

```
                          AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET          (ATU274)   ( 03 OCT 74  )

            REFERENCE DATA                                                                 PARAMETRIC DATA

BREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                       MACH   =     4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                       ALPHA  =     -.500   BETA   =    15.700
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                       DALPHA =     5.200   DBETA  =    -4.000
SCALE =       .0100                                                         X      =   300.000

                         RUN NO.  833/ 0    RN/L =   4.00

    Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
 100.670   -101.820    .03289     .03399     .01271    -.02831     .01109     .00000    5.26870   -4.00970  300.35000
 102.400     -2.651    .00714     .03708     .01311    -.02713     .01159     .00001    5.30720   -4.09030  300.61000
 100.910     99.921   -.00349     .03542     .00668    -.02343     .00752     .00000    5.21470   -4.01350  300.34000
 100.820    199.880   -.00066     .03056     .00210    -.02378    -.00126    -.00001    5.20960   -4.00760  300.12000
 102.310    400.420    .02148     .02517     .00323    -.03938    -.01223    -.00002    5.19540   -4.06560  300.13000

                         RUN NO.  832/ 0    RN/L =   4.01

    Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
 200.250   -100.220    .01523     .02915     .00408    -.01570    -.01093     .00001    5.22130   -3.99930  300.10000
 200.490      -.475   -.00113     .03025     .00999    -.02205    -.01027     .00001    5.26670   -3.99870  300.18000
 200.960     99.973   -.00577     .03083     .01137    -.02567    -.01080    -.00000    5.23270   -3.99850  300.30000
 199.260    199.810    .00525     .02870     .00786    -.02972    -.01369    -.00001    5.19070   -3.95210  300.15000
 198.120    399.280    .02402     .02544     .00474    -.04822    -.01548    -.00002    5.20560   -3.94270  300.05000

                         RUN NO.  831/ 0    RN/L =   4.01

    Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA     X
 399.850   -100.000    .01271     .02839     .01017    -.03743    -.02263    -.00002    5.21740   -3.97230  299.90000
 399.810      -.451    .01269     .02806     .01088    -.04403    -.02094    -.00002    5.23570   -3.94750  300.16000
 400.170     99.599    .01903     .02569     .00850    -.05378    -.01626    -.00002    5.24310   -3.96860  300.16000
 400.410    199.750    .02390     .02474     .00601    -.05947    -.01390    -.00002    5.22980   -3.97470  300.16000
 400.720    399.870    .02696     .02311     .00475    -.06511    -.01126    -.00002    5.21770   -4.00740  300.24000
```

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET (ATU275) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 FTOTL = 60.400
ALPHA = -.500 BETA = 15.700
CALPHA = 5.200 CBETA = -4.000
X = .000

RUN NO. 834/ 0 RN/L = 4.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
100.380	-100.080	.02165	.03075	.01467	-.02832	.00358	-.00001	5.21760	-3.99980	.03968
100.870	1.713	.00743	.03061	.01149	-.02693	.00399	-.00000	5.14990	-4.00530	.01528
99.328	101.790	-.00104	.02935	.00597	-.02569	-.00008	-.00001	5.13290	-3.92510	.00520
100.390	199.740	.00329	.02803	.00417	-.02892	-.00701	-.00001	5.21570	-4.00330	.03493
100.680	399.790	.02465	.02522	.00355	-.04412	-.01393	-.00002	5.22720	-4.00480	.08802

RUN NO. 835/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.050	-100.010	.00200	.03004	.01043	-.02183	-.01594	.00000	5.19140	-3.98500	.05166
201.010	-.862	-.00597	.03117	.01334	-.02393	-.01334	-.00000	5.25000	-4.01770	.28946
201.950	99.862	.00272	.02909	.00874	-.02856	-.01304	-.00001	5.21180	-4.04940	.36546
202.120	200.170	.01086	.02782	.00730	-.03383	-.01485	-.00002	5.22220	-4.04840	.27851
199.660	399.300	.02484	.02522	.00500	-.05097	-.01552	-.00002	5.24300	-3.96670	.10377

RUN NO. 836/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
400.380	-100.090	.01371	.02738	.01093	-.04844	-.01944	-.00002	5.22180	-4.00120	.02768
401.660	.178	.02040	.02436	.00772	-.05709	-.01459	-.00002	5.19900	-4.06050	.18078
400.740	100.140	.02311	.02488	.00642	-.05855	-.01411	-.00002	5.21780	-4.00770	.24036
400.400	199.990	.02473	.02459	.00564	-.05979	-.01363	-.00002	5.21580	-4.00420	.00483
401.030	399.730	.02724	.02297	.00453	-.06564	-.01084	-.00002	5.20110	-4.04350	.17107

```
                           AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET              (ATU276)   ( 03 OCT 74  )

          REFERENCE DATA                                                                 PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                        MACH    =      4.520   PTOTL  =     60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                        ALPHA   =      -.500   BETA   =     15.700
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                        CALPHA  =     -4.800   DBETA  =     -4.000
SCALE =       .0100                                                          X       =       .000

                    RUN NO.  839/ 0    RN/L =   4.00

     Y          Z         CN         CA         CLM        CY         CYN        CBL      DLTALF    DLTBTA      X
  101.710     99.526   -.09011     .03172     .00599    -.00372    -.00443     .00002   -4.78490  -4.04280    .01040
  100.970    200.000   -.09477     .03213     .00606    -.02451    -.00440     .00002   -4.78450  -4.00990    .24480
  101.570    400.830   -.06668     .02918     .00314    -.05414    -.01051     .00000   -4.76560  -4.04990    .15371

                    RUN NO.  838/ 0    RN/L =   4.01

     Y          Z         CN         CA         CLM        CY         CYN        CBL      DLTALF    DLTBTA      X
  200.870    100.070   -.05265     .03205     .00733    -.01174    -.01818    -.00001   -4.80160  -4.00960    .09461
  199.830    199.460   -.06212     .03342     .01157    -.02434    -.01895    -.00001   -4.74910  -3.97250    .12495
  200.820    399.850   -.03698     .02663    -.00094    -.05640    -.01313    -.00001   -4.77370  -4.00430    .08970

                    RUN NO.  837/ 0    RN/L =   4.01

     Y          Z         CN         CA         CLM        CY         CYN        CBL      DLTALF    DLTBTA      X
  399.820     99.739   -.02299     .02518    -.00752    -.05266    -.01757    -.00002   -4.78400  -3.95550   -.02532
  400.190    200.190   -.02443     .02269    -.00717    -.06113    -.01371    -.00002   -4.78830  -3.97340    .06747
  399.820    400.050   -.02796     .02365    -.00539    -.06519    -.01178    -.00001   -4.77890  -3.98370    .08511

                           AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET              (ATU277)   ( 03 OCT 74  )

          REFERENCE DATA                                                                 PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                        MACH    =      4.520   PTOTL  =     60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                        ALPHA   =      -.500   BETA   =     15.700
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                        CALPHA  =     -4.800   DBETA  =     -4.000
SCALE =       .0100                                                          X       =    300.000

                    RUN NO.  840/ 0    RN/L =   4.01

     Y          Z         CN         CA         CLM        CY         CYN        CBL      DLTALF    DLTBTA      X
  100.740     99.808   -.09055     .03493    -.00815    -.01130     .00555     .00002   -4.78170  -4.01070  300.10000
   97.435    199.490   -.09900     .03331    -.00351    -.03219     .00141     .00003   -4.73280  -3.89920  299.89000
  100.610    399.820   -.06931     .02802    -.00035    -.05971    -.00772     .00001   -4.77260  -4.00790  300.00000

                    RUN NO.  841/ 0    RN/L =   4.01

     Y          Z         CN         CA         CLM        CY         CYN        CBL      DLTALF    DLTBTA      X
  201.930    100.940   -.06370     .02918     .00334    -.01790    -.00946    -.00000   -4.85620  -4.03970  300.21000
  203.520    199.980   -.07097     .03077     .00951    -.03330    -.01068     .00000   -4.73010  -4.09020  300.39000
  193.160    397.450   -.04548     .02840     .00268    -.05200    -.01386    -.00001   -4.70080  -3.92170  299.83000
```

```
                                    AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET               (ATU277)   ( 03 OCT 74  )

                                                                                                 PARAMETRIC DATA
             REFERENCE DATA
                                                                                  MACH    =      4.520   PTOTL   =     60.400
SREF   =  2690.0000 SQ.FT.    XMRP   =  1258.5000 IN. XS                          ALPHA   =      -.500   BETA    =     15.700
LREF   =  1290.3000 INCHES    YMRP   =      .0000 IN. YS                          DALPHA  =     -4.800   DBETA   =     -4.000
BREF   =  1290.3000 INCHES    ZMRP   =   400.0000 IN. ZS                          X       =    300.000
SCALE  =       .0100

                       RUN NO.   842/ 0    RN/L =   4.01

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  400.660     99.847    -.02348     .02518    -.00713    -.04739    -.01826    -.00002   -4.77810   -4.00710  299.97000
  400.690    199.830    -.02606     .02531    -.00600    -.05165    -.01731    -.00001   -4.77660   -4.01810  300.06000
  401.530    399.750    -.02693     .02332    -.00597    -.06407    -.01164    -.00001   -4.79550   -4.08160  300.22000

                                    AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET               (ATU278)   ( 03 OCT 74  )

                                                                                                 PARAMETRIC DATA
             REFERENCE DATA
                                                                                  MACH    =      4.520   PTOTL   =     60.400
SREF   =  2690.0000 SQ.FT.    XMRP   =  1258.5000 IN. XS                          ALPHA   =      -.500   BETA    =     15.700
LREF   =  1290.3000 INCHES    YMRP   =      .0000 IN. YS                          DALPHA  =       .200   DBETA   =     -8.000
BREF   =  1290.3000 INCHES    ZMRP   =   400.0000 IN. ZS                          X       =       .000
SCALE  =       .0100

                       RUN NO.   844/ 0    RN/L =   4.01

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  200.340   -100.280    -.00378     .02750     .00171     .04323    -.00920    -.00001     .22684   -8.00680     .02384
  201.140      -.336    -.02396     .02884     .00718     .01415    -.00107     .00002     .25208   -8.07500     .11731
  199.980    100.750    -.03152     .02819     .00642    -.00194     .00070     .00001     .20422   -8.00070     .00935
  198.440    200.200    -.02923     .02715     .00469    -.00777    -.00347     .00000     .20581   -7.92070    -.24557
  200.820    399.860    -.01848     .02535     .00444    -.01930    -.00961    -.00001     .231[illegible]0   -8.00650     .16036

                       RUN NO.   843/ 0    RN/L =   4.01

     Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  401.120    -99.261    -.00596     .02695     .00062     .01903    -.02850    -.00003     .17293   -8.03260     .14910
  399.950       .178    -.01616     .03036     .00650     .01788    -.02961    -.00003     .21061   -7.95550    -.02736
  399.220     98.797    -.01618     .03045     .00769     .00444    -.02500    -.00003     .27864   -7.90440    -.06976
  400.270    199.870    -.00474     .02484     .00144    -.01367    -.01669    -.00002     .23704   -7.94980     .09649
  400.710    400.080    -.00210     .02239     .00036    -.02635    -.01202    -.00001     .21790   -7.99400     .18044
```

AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET (ATU279) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = -.500 BETA = 15.700
DALPHA = .200 DBETA = -8.000
X = 300.000

RUN NO. 845/ 0 RN/L = 4.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
202.610	-100.990	-.00722	.02649	-.00022	.03437	.00327	-.00001	.24790	-8.05100	300.46000
202.540	.181	-.02098	.02552	-.00015	.01386	.00324	.00000	.18529	-8.04260	300.40000
202.270	99.912	-.03137	.02809	.00383	-.00245	.00298	.00002	.21777	-8.04550	300.30000
200.790	199.910	-.03142	.02753	.00365	-.01369	.00119	.00001	.21542	-8.00690	300.32000
200.920	399.880	-.02167	.02610	.00482	-.01778	-.00847	-.00001	.22800	-8.01900	300.19000

RUN NO. 846/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
401.040	-100.160	-.00824	.02874	.00085	.01823	-.02261	-.00002	.23097	-8.01420	300.22000
400.010	-.604	-.01415	.02965	.00416	.02076	-.02593	-.00002	.26397	-7.96470	300.14000
399.580	99.263	-.02185	.03004	.00804	.01533	-.02659	-.00001	.27292	-7.98410	299.89000
400.380	199.780	-.01710	.02959	.00752	.00099	-.02231	-.00001	.21357	-8.04840	299.99000
400.730	399.870	-.00282	.02271	.00051	-.02535	-.01232	-.00001	.21375	-8.00360	300.16000

AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET (ATU280) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = -.500 BETA = 15.700
DALPHA = 5.200 DBETA = -8.000
X = 300.000

RUN NO. 848/ 0 RN/L = 4.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
200.600	-100.250	.03739	.02590	.00315	-.00182	.00422	-.00001	5.23130	-8.00200	300.23000
200.010	.263	.01756	.02819	.00686	-.00983	.00476	-.00000	5.24140	-7.99280	300.09000
199.130	100.750	.00604	.02772	.00679	-.01040	.00136	-.00000	5.20340	-7.94510	299.89000
198.720	200.010	.00221	.02716	.00615	-.00849	-.00441	-.00000	5.20690	-7.91730	299.78000
200.650	399.730	.00858	.02520	.00743	-.01793	-.01042	-.00002	5.22230	-8.00570	300.20000

ORIGINAL PAGE IS
OF POOR QUALITY

```
                                     AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET              (ATU280)    ( 03 OCT 74  )

            REFERENCE DATA                                                                              PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                                      MACH    =     4.520   PTOTL   =     60.400
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                                     ALPHA   =     -.500   BETA    =     15.700
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                                      CALPHA  =     5.200   DBETA   =     -8.000
SCALE =       .0100                                                                         X       =   300.000

                          RUN NO.  947/ 0    RN/L =   4.00

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF     DLTBTA       X
   400.530    -99.577     .00471      .03025      .01027      .00964     -.02410     -.00002     5.18980   -7.97530  300.08000
   400.230       .197     .00043      .02954      .01368     -.00082     -.02175     -.00001     5.19420   -7.95580  300.01000
   399.900     99.056     .00009      .02921      .01564     -.01320     -.01730     -.00001     5.28400   -7.94290  300.06000
   400.595    199.590     .01346      .02519      .00901     -.02366     -.01290     -.00002     5.23920   -7.97790  300.32000
   400.790    399.790     .02002      .02303      .00675     -.03211     -.01052     -.00002     5.21880   -8.00500  300.25000

                                     AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET              (ATU281)    ( 03 OCT 74  )

            REFERENCE DATA                                                                              PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                                      MACH    =     4.520   PTOTL   =     60.400
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                                     ALPHA   =     -.500   BETA    =     15.700
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                                      CALPHA  =     5.200   DBETA   =     -8.000
SCALE =       .0100                                                                         X       =      .000

                          RUN NO.  849/ 0    RN/L =   4.01

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF     DLTBTA       X
   201.320   -101.190     .02808      .02797      .00679     -.00462      .00128     -.00001     5.25550   -8.01900     .41459
   202.800      -.975     .01496      .02809      .00686     -.00512      .00113     -.00001     5.23490   -8.09360     .63247
   201.770     99.516     .00603      .02729      .00648     -.00477     -.00344     -.00000     5.21630   -8.05700     .29673
   201.010    199.790     .00117      .02679      .00677     -.00853     -.00643     -.00001     5.21070   -8.00870     .22288
   200.350    399.630     .01100      .02598      .00782     -.02021     -.01143     -.00002     5.23330   -7.98520     .19624

                          RUN NO.  850/ 0    RN/L =   4.01

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF     DLTBTA       X
   400.190   -100.100     .00220      .02955      .01430     -.00019     -.02366     -.00001     5.22420   -7.99600    -.12709
   401.570      -.065     .00632      .02763      .01294     -.01247     -.01744     -.00001     5.21490   -8.07050     .26119
   400.890    100.460     .01354      .02538      .00900     -.02083     -.01379     -.00002     5.19300   -8.04540     .00060
   400.620    200.010     .01611      .02437      .00792     -.02618     -.01204     -.00002     5.21370   -8.02000     .15978
   401.090    399.720     .02103      .02246      .00698     -.03356     -.00957     -.00002     5.19840    8.03810     .35557
```

```
                                   AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET          (ATU282)   ( 03 OCT 74  )

              REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                         MACH   =     4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                         ALPHA  =     -.500   BETA   =    15.700
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                         DALPHA =    -4.800   DBETA  =    -8.000
SCALE =      .0100                                                            X      =      .000

                       RUN NO.  852/ 0    RN/L =   4.00

     Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  200.550   100.030    -.07918     .02948     .00842     .02256    -.00817     .00004   -4.78570   -8.00380     .12576
  199.660   200.200    -.08550     .02988     .00915    -.00625    -.00408     .00005   -4.77770   -8.01470    -.05187
  197.240   399.480    -.06606     .02801     .00553    -.02641    -.00722     .00002   -4.79520   -7.91370    -.44201

                       RUN NO.  851/ 0    RN/L =   4.01

     Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  400.450   100.200    -.03567     .02837    -.00038     .00547    -.02552    -.00002   -4.80480   -7.98080     .04441
  399.960   199.770    -.03918     .02845     .00190    -.00325    -.02323    -.00001   -4.77280   -7.99190    -.14011
  400.600   400.010    -.02657     .02281    -.00491    -.02942    -.01141    -.00001   -4.77670   -7.99850     .21258

                                   AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET          (ATU283)   ( 03 OCT 74  )

              REFERENCE DATA                                                                  PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                         MACH   =     4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                         ALPHA  =     -.500   BETA   =    15.700
BREF  =  1290.3000 INCHES   ZMRF  =   400.0000 IN. ZS                         DALPHA =    -4.800   DBETA  =    -8.000
SCALE =      .0100                                                            X      =   300.000

                       RUN NO.  853/ 0    RN/L =   4.00

     Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  202.350   100.950    -.08108     .02603    -.00132     .01461    -.00187     .00002   -4.83410   -8.03610  300.51000
  204.080   201.090    -.07983     .02742     .00242    -.00240    -.00232     .00003   -4.79580   -8.08940  300.69000
  201.360   400.420    -.06492     .02647     .00248    -.02947    -.00461     .00002   -4.80750   -8.03580  300.31000

                       RUN NO.  854/ 0    RN/L =   4.01

     Y         Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
  400.410    99.950    -.04309     .02837     .00216     .00829    -.02278    -.00001   -4.77650   -8.00890  299.92000
  399.980   199.250    -.04971     .02984     .00587     .00236    -.02313    -.00001   -4.74590   -7.99080  299.94000
  401.150   399.850    -.02856     .02280    -.00391    -.02625    -.01249    -.00001   -4.78720   -8.01280  300.29000
```

AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET (ATU284) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALFHA = -.500 BETA = 15.700
DALPHA = .200 DBETA = .000
X = .000

RUN NO. 856/ 0 RN/L = 4.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-299.010	-100.090	-.00513	.02124	.00110	-.08409	-.02662	-.00002	.21991	.00063	.32948
-298.745	-.216	-.00629	.02343	.00148	-.08054	-.02625	-.00002	.23634	-.00323	.33644
-298.260	99.601	.00058	.02243	-.00063	-.07924	-.02575	-.00003	.24415	-.01722	.22318
-298.490	199.250	.00478	.02292	-.00294	-.08394	-.025[illegible]	-.00002	.23721	.04074	.34687
-298.640	399.900	-.00194	.02382	-.00369	-.10428	-.01968	-.00002	.21851	-.00765	.42202

RUN NO. 857/ 0 RN/L = 4.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-199.490	-99.494	-.01030	.02614	.00089	-.07261	-.03089	-.00003	.20529	.04480	.08568
-197.200	-.218	-.00491	.02682	-.00036	-.06282	-.02805	-.00002	.19566	-.05450	.19172
-198.790	99.527	.00097	.02821	-.00087	-.06622	-.02737	-.00003	.20632	-.01343	.24826
-200.210	200.180	.01207	.02697	-.00482	-.07534	-.02952	-.00003	.18024	.03120	.27468
-197.810	400.800	-.00455	.02433	-.00503	-.10753	-.02139	-.00002	.18808	-.09293	.39556

RUN NO. 858/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-101.340	-99.239	-.01874	.02206	-.00141	-.05547	-.02323	-.00003	.19706	.07527	.50915
-98.255	.842	-.00813	.02088	-.00130	-.03387	-.01866	-.00001	.17997	-.01327	.26690
-99.190	99.881	.00703	.02219	-.00167	-.04117	-.01820	-.00002	.19642	.00566	.16231
-98.198	199.930	.01681	.02637	-.00313	-.06338	-.02160	-.00002	.20180	-.01512	.38396
-100.090	400.850	-.00831	.02486	-.00753	-.11403	-.02289	-.00002	.17662	.02847	.31139

```
                                   AEDC/VA528(IA87)-O1ET151-L/H SRB SEPAR.FROM O/ET           (ATU285)    ( 03 OCT 74  )

          REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                              MACH   =     4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                              ALPHA  =     -.500   BETA   =    15.700
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                              DALPHA =      .200   DBETA  =      .000
SCALE =       .0100                                                                X      =   300.000

                         RUN NO.  861/ 0    RN/L =    4.00

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -298.010   -100.150    -.00610     .02225    -.00115    -.06181    -.02557    -.00002     .22078    -.02716  300.41000
  -297.350     -.132     -.00110     .02331    -.00216    -.05788    -.02183    -.00002     .21393    -.06926  300.31000
  -298.500     99.374     .00405     .02483    -.00169    -.06280    -.01036    -.00002     .23136    -.03478  300.24000
  -300.170    199.790     .00986     .02603    -.00256    -.07016    -.02315    -.00003     .21198     .05820  300.40000
  -301.780    401.320     .00033     .02758    -.00576    -.10253    -.02536    -.00002     .15521     .07549  300.39000

                         RUN NO.  860/ 0    RN/L =    4.01

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -199.930    -99.434    -.01334     .01642    -.00258    -.04668    -.01739    -.00002     .20305     .03138  300.39000
  -199.110       .769    -.00310     .01680    -.00253    -.03737    -.01540    -.00001     .20021     .01971  300.20000
  -197.670    100.710     .00958     .01823    -.00261    -.04177    -.01321    -.00002     .19308    -.02695  300.26000
  -198.870    199.930     .02008     .02123    -.00198    -.05594    -.01291    -.00001     .21352     .00436  300.44000
  -200.400    400.450    -.00175     .03112    -.00503    -.10458    -.02457    -.00002     .18972     .05884  300.26000

                         RUN NO.  859/ 0    RN/L =    4.01

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -98.272   -100.250    -.01808     .01201    -.00572    -.03596    -.01346    -.00001     .21651    -.01110  300.41000
   -96.470     -1.700    -.00815     .01309    -.00241    -.02058    -.00923    -.00001     .25285    -.08342  300.18000
   -99.211     98.371     .01353     .01404    -.00206    -.02268    -.01084    -.00001     .24245     .02014  300.29000
   -99.395    196.660     .02723     .01663    -.00071    -.04927    -.00763    -.00001     .25195    -.03204  300.30000
   -98.528    399.830     .00078     .02915    -.00328    -.10120    -.02098    -.00002     .21735    -.02065  300.13000
```

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA528(IA87)-O1ET151-L/H SRB SEPAR.FROM O/ET (ATU286) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = -.500 BETA = 15.700
DALPHA = 5.200 DBETA = .000
X = 300.000

RUN NO. 862/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-300.020	-99.874	.02380	.02486	.00376	-.06472	-.02307	-.00002	5.20730	.05373	300.46000
-298.360	.040	.02973	.02571	.00342	-.06353	-.01894	-.00002	5.20990	-.01116	300.40000
-298.640	100.250	.03610	.02645	.00308	-.06866	-.01840	-.00002	5.20260	-.06968	300.35000
-299.070	199.750	.03711	.02867	.00428	-.08573	-.02043	-.00002	5.21550	.00342	300.38000
-299.100	399.800	.02755	.02887	.00130	-.11318	-.02412	-.00003	5.21860	-.00251	300.22000

RUN NO. 863/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-198.690	-100.215	.01160	.01796	.00221	-.04143	-.01741	-.00001	5.21070	-.00524	300.29000
-197.460	-.393	.02761	.01816	.00106	-.04144	-.01343	-.00002	5.21790	-.07049	300.29000
-198.470	98.714	.04046	.01999	.00190	-.05410	-.00900	-.00001	5.24130	-.05404	300.31000
-201.190	199.000	.04004	.02269	.00452	-.07272	-.01159	-.00002	5.24670	.06629	300.38000
-198.430	399.690	.02404	.03234	.00095	-.11600	-.02459	-.00003	5.21450	-.01977	300.31000

RUN NO. 864/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-100.280	-98.887	.00256	.01235	-.00046	-.02792	-.01275	-.00001	5.18040	.05454	300.30000
-97.653	1.633	.02331	.01505	-.00067	-.02015	-.00812	-.00001	5.13730	.07948	300.21000
-97.043	100.720	.03738	.01778	.00285	-.04714	-.00390	-.00001	5.16620	-.06654	299.98000
-99.742	199.760	.03688	.01823	.00551	-.06800	-.00694	-.00001	5.21160	.01106	300.21000
-97.647	398.870	.02570	.03126	.00496	-.11271	-.02093	-.00003	5.25390	-.06759	300.25000

```
                         AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET           (ATU287)    ( 03 OCT 74  )

           REFERENCE DATA                                                            PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                    MACH   =     4.520  PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                   ALPHA  =     -.500  BETA   =    15.700
BREF  =  1290.3000 INCHES   ZMRP  =   450.0000 IN. ZS                    CALPHA =     5.200  CBETA  =        .00
SCALE =       .0100                                                      X      =      .000

                      RUN NO.  867/ 0    RN/L =   4.00

     Y         Z         CN        CA        CLM       CY        CYN       CBL      DLTALF    DLTBTA     X
 -297.230  -100.860   .02318    .02353    .00763   -.08410   -.02535   -.00003   5.23590   -.07104   .70866
 -298.320      .055   .03054    .02387    .00489   -.08076   -.02583   -.00003   5.19500   -.00902   .28696
 -298.690    98.730   .03402    .02304    .00386   -.08674   -.02457   -.00003   5.21120   -.01729   .26081
 -298.460   199.900   .03383    .02485    .00312   -.09934   -.02214   -.00003   5.20450   -.02919   .45232
 -238.300   400.310   .02774    .02471    .00199   -.11219   -.01836   -.00002   5.19110   -.04904   .15367

                      RUN NO.  866/ 0    RN/L =   4.01

     Y         Z         CN        CA        CLM       CY        CYN       CBL      DLTALF    DLTBTA     X
 -199.550  -100.130   .02049    .02734    .00662   -.06978   -.02909   -.00003   5.21530    .01720   .40379
 -198.220      .074   .02646    .02815    .00525   -.06552   -.02705   -.00003   5.20050    .00295   .30554
 -197.670    99.506   .03395    .02914    .00446   -.07621   -.02500   -.00003   5.22270   -.03793   .07378
 -199.790   198.790   .03615    .02908    .00268   -.09575   -.02625   -.00003   5.25270    .06248   .15250
 -197.700   398.690   .02367    .02572    .00126   -.11756   -.02014   -.00002   5.24650    .04972   .32746

                      RUN NO.  865/ 0    RN/L =   4.01

     Y         Z         CN        CA        CLM       CY        CYN       CBL      DLTALF    DLTBTA     X
  -98.298   -99.901   .00772    .02214    .00428   -.03995   -.02334   -.00002   5.18830   -.03312   .13374
  -99.206     -.243   .02219    .02229    .00279   -.03860   -.01723   -.00002   5.19370    .00585   .19998
  -98.114    98.708   .03819    .02429    .00311   -.05801   -.01273   -.00002   5.22450   -.05973   .54727
  -98.450   199.820   .03787    .02828    .00480   -.08293   -.02124   -.00003   5.20330   -.01806   .28015
 -100.860   402.640   .03796    .02586   -.00107   -.12386   -.02222   -.00002   5.10790    .02779   .56306
```

ORIGINAL PAGE IS
OF POOR QUALITY

AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET (ATU288) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = -.500 BETA = 15.700
CALPHA = -4.800 CBETA = .000
X = .000

RUN NO. 868/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-298.360	99.913	-.03319	.02287	-.00545	-.08120	-.02663	-.00002	-4.77520	-.01193	.37492
-298.690	199.070	-.02878	.02322	-.00643	-.08019	-.02634	-.00002	-4.73670	.01360	.12329
-298.340	399.890	-.02601	.02365	-.01028	-.09418	-.02341	-.00002	-4.78000	-.00957	.43479

RUN NO. 869/ 0 RN/L = 4.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-198.840	100.130	-.02849	.02592	-.00694	-.06239	-.02907	-.00002	-4.80500	.02377	.05490
-198.770	199.900	-.02480	.02824	-.00788	-.06979	-.02891	-.00003	-4.80180	-.01337	.35099
-199.120	400.940	-.02183	.02259	-.01355	-.09242	-.02604	-.00002	-4.85350	-.02637	.52162

RUN NO. 870/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-98.608	99.919	-.02047	.02029	-.00658	-.03465	-.01778	-.00001	-4.80280	-.00865	.33277
-98.835	199.830	-.01487	.02510	-.00750	-.05225	-.02298	-.00002	-4.79710	.00297	.29009
-99.503	400.970	-.02485	.02395	-.01632	-.09589	-.02802	-.00002	-4.82530	.02520	.32054

AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET (ATU289) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = -.500 BETA = 15.700
CALPHA = -4.800 CBETA = .000
X = 300.000

RUN NO. 873/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-298.790	99.839	-.02534	.02256	-.00780	-.05629	-.02358	-.00002	-4.78100	-.01631	300.00000
-298.530	199.650	-.02154	.02519	-.00816	-.06477	-.02336	-.00002	-4.78530	-.00895	300.45000
-302.060	- 401.120	-.02165	.02751	-.01316	-.09163	-.02757	-.00003	-4.84540	.10027	300.40000

RUN NO. 872/ 0 RN/L = 4.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-198.100	100.800	-.02129	.01672	-.00646	-.03551	-.01564	-.00001	-4.80360	-.02136	300.35000
-198.980	199.970	-.00818	.01978	-.00639	-.04456	-.01551	-.00001	-4.79990	.00488	300.39000
-200.920	400.950	-.01894	.02861	-.01333	-.08696	-.02795	-.00003	-4.83130	.09038	300.44000

```
                                  AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET          (ATU289)    ( 03 OCT 74  )

              REFERENCE DATA                                                                 PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                           MACH    =      4.520   PTOTL   =     60.400
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YS                           ALPHA   =      -.500   BETA    =     15.700
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                           DALPHA  =     -4.800   DBETA   =       .000
SCALE =       .0100                                                              X       =    300.000

                        RUN NO.  871/ 0    RN/L =   4.01

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF      DLTBTA      X
   -99.809    100.010    -.01358     .01338    -.00499    -.02066    -.00931    -.00001   -4.79830      .01360  300.14000
  -100.210    198.660    -.00068     .01393    -.00321    -.03042    -.01132    -.00001   -4.75170      .02466  300.09000
   -98.440    399.700    -.01355     .02759    -.00978    -.08725    -.02124    -.00002   -4.78280     -.02250  300.17000

                                  AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET          (ATU290)    ( 03 OCT 74  )

              REFERENCE DATA                                                                 PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                           MACH    =      4.520   PTOTL   =     60.400
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YS                           ALPHA   =      -.500   BETA    =     15.700
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                           DALPHA  =       .200   DBETA   =      4.000
SCALE =       .0100                                                              X       =       .000

                        RUN NO.  874/ 0    RN/L =   4.01

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF      DLTBTA      X
  -299.050   -100.070    -.01117     .02044     .00238    -.10214    -.03583    -.00004     .23325     4.00020     .36529
  -299.060       .130    -.00609     .02329     .00099    -.09465    -.03538    -.00003     .22388     4.00650     .34622
  -298.200     99.438     .00229     .02432    -.00043    -.09508    -.03410    -.00004     .25649     3.98550     .26536
  -298.780    199.280     .01401     .02367    -.00522    -.10609    -.03294    -.00003     .23523     4.05340     .15123
  -299.290    399.890     .00161     .02694    -.00484    -.14185    -.02526    -.00003     .21872     4.00200     .26405

                        RUN NO.  875/ 0    RN/L =   4.01

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF      DLTBTA      X
  -199.660    -98.995    -.01937     .02714     .00111    -.09289    -.03578    -.00004     .18255     4.00110    -.23342
  -197.600      -.617    -.00963     .02701     .00018    -.07076    -.03459    -.00003     .19924     3.96550    -.12580
  -199.730     99.002     .00528     .02784    -.00058    -.07585    -.03400    -.00004     .20832     3.99760     .13598
  -200.850    200.520     .01809     .02811    -.00564    -.09548    -.03481    -.00004     .16228     4.02530     .24468
  -199.560    400.930    -.00236     .02760    -.00570    -.14708    -.02549    -.00003     .18192     3.91790     .40116

                        RUN NO.  876/ 0    RN/L =   4.01

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF      DLTBTA      X
   -99.547   -100.130    -.03202     .02185    -.00132    -.07951    -.02667    -.00003     .19497     3.99250    -.09866
   -98.852      1.231    -.01242     .02010    -.00134    -.04630    -.02110    -.00002     .14791     3.97140     .09607
   -99.338     99.849     .00573     .02116     .00106    -.04480    -.02269    -.00003     .18701     4.00050     .20782
   -99.343    199.970     .02581     .02716    -.00222    -.08304    -.02518    -.00002     .19605     3.99790     .08279
  -100.510    401.070    -.00826     .02865    -.00829    -.15528    -.02752    -.00003     .17223     4.03730     .25007
```

```
                         AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET          (ATU291)   ( 03 OCT 74  )

          REFERENCE DATA                                                                 PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                         MACH   =     4.520   PTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                        ALPHA  =     -.500   BETA   =    15.700
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                         DALPHA =      .200   CBETA  =     4.000
SCALE =        .0100                                                          X      =   300.000

                           RUN NO.  879/ 0    RN/L =   4.01

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
  -299.140   -100.140    -.01011     .02250    -.00145    -.07776    -.03120    -.00003     .22228    3.98530  300.05000
  -298.030      -.391    -.00389     .02313    -.00188    -.06753    -.02848    -.00003     .22262    3.94520  299.92000
  -298.110     99.187     .00789     .02473    -.00249    -.07208    -.02650    -.00003     .22617    3.95940  300.38000
  -300.690    199.340     .02035     .02753    -.00351    -.09177    -.02631    -.00003     .22224    4.02420  300.29000
  -298.710    399.880     .00038     .03136    -.00605    -.14067    -.02863    -.00003     .21534    3.98490  300.13000

                           RUN NO.  878/ 0    RN/L =   4.01

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
  -201.260    -98.946    -.01817     .01652    -.00364    -.06072    -.02163    -.00002     .18222    4.04930  300.38000
  -199.470      1.233    -.00914     .01540    -.00118    -.04278    -.01969    -.00002     .17781    4.00770  300.27000
  -197.210    100.780     .00991     .01658    -.00071    -.04370    -.01851    -.00002     .19883    3.96790  300.11000
  -199.420    199.850     .02837     .02127    -.00190    -.07216    -.01693    -.00002     .21432    4.00280  300.25000
  -200.960    400.420     .00189     .03393    -.00543    -.14241    -.02823    -.00003     .18579    4.06830  300.15000

                           RUN NO.  877/ 0    RN/L =   4.01

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
   -99.556   -100.210    -.02660     .01218    -.00707    -.05105    -.01779    -.00002     .21858    4.00130  300.01000
   -99.263      -.069    -.00890     .01238    -.00366    -.02473    -.01034    -.00001     .20757    4.00120  300.18000
  -100.630     97.731     .01072     .01424    -.00007    -.03449    -.01147    -.00001     .27303    4.03660  300.24000
  -100.740    198.280     .03393     .01703     .00041    -.06843    -.00860    -.00001     .25104    3.98520  300.35000
   -98.951    399.760     .00268     .03202    -.00293    -.14132    -.02392    -.00003     .21938    3.97540  299.95000
```

```
                                   AEDC/VA528(IA87)-O1ET131-L/H SRB SEPAR.FROM O/ET            (ATU292)   ( 03 OCT 74  )

                  REFERENCE DATA                                                                       PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                                 MACH   =     4.520  PTOTL  =     60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                                 ALPHA  =     -.500  BETA   =     15.700
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                                 DALPHA =     5.200  DBETA  =      4.000
SCALE =       .0100                                                                   X      =   300.000

                          RUN NO.  880/ 0    RN/L =   4.01

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -300.900    -99.872    .01832     .02487     .00491    -.07361    -.03104    -.00003    5.22290    4.06690  300.13000
  -299.560       .356    .03118     .02488     .00294    -.07214    -.02654    -.00003    5.20350    4.05210  300.18000
  -296.370    100.430    .04380     .02707     .00199    -.09031    -.02071    -.00002    5.18630    3.92010  300.04000
  -299.470    199.800    .04419     .02992     .00435    -.11531    -.02225    -.00003    5.21500    4.00570  300.22000
  -299.590    399.900    .03033     .03229    -.00052    -.15566    -.02798    -.00003    5.21380    3.99950  299.98000

                          RUN NO.  881/ 0    RN/L =   4.01

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  -198.890   -100.270    .00394     .01663     .00300    -.04950    -.02197    -.00002    5.21550    3.99800  300.30000
  -198.050     -1.424    .02262     .01675     .00317    -.04285    -.01990    -.00002    5.23540    3.95460  300.17000
  -198.630     98.420    .04688     .02080     .00215    -.06982    -.01141    -.00002    5.23600    3.90610  300.21000
  -203.430    199.030    .04347     .02496     .00557    -.10383    -.01198    -.00002    5.25160    4.08300  300.08000
  -198.660    399.710    .02886     .03589     .00053    -.15614    -.02804    -.00004    5.21600    3.97810  300.01000

                          RUN NO.  882/ 0    RN/L =   4.01

     Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
   -99.416   -100.130   -.00031     .01228    -.00305    -.03528    -.01559    -.00001    5.20330    3.99620  300.06000
   -97.122      1.893    .01848     .01407    -.00040    -.02954    -.00533    -.00001    5.12930    3.94390  299.66000
   -96.874    101.000    .04163     .01864     .00206    -.06122    -.00546    -.00001    5.14810    3.94480  299.61000
  -100.450    199.700    .04261     .02033     .00608    -.09846    -.00654    -.00002    5.21320    4.01590  299.97000
   -98.520    398.760    .03091     .03566     .00440    -.15527    -.02393    -.00004    5.26360    3.93840  300.01000
```

AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET (ATU293) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1258.5000 IN. XS
LREF = 1290.3000 INCHES YMRP = .0000 IN. YS
BREF = 1290.3000 INCHES ZMRF = 400.0000 IN. ZS
SCALE = .0100

PARAMETRIC DATA

MACH = 4.520 PTOTL = 60.400
ALPHA = -.500 BETA = 15.700
DALFHA = 5.200 DBETA = 4.000
X = .000

RUN NO. 885/ 0 RN/L = 4.01

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-298.520	-100.850	.02300	.02381	.00708	-.09739	-.03468	-.00004	5.22610	3.96520	.62150
-299.380	-.207	.03251	.02506	.00456	-.09659	-.03417	-.00004	5.19590	3.99750	.07225
-298.220	99.770	.04252	.02563	.00196	-.10938	-.03054	-.00003	5.19760	3.95110	.32746
-299.910	199.790	.03958	.02680	.00213	-.13077	-.02738	-.00003	5.20780	3.98840	.19406
-299.240	400.540	.03050	.02857	.00116	-.15418	-.02279	-.00003	5.19030	3.96290	.24634

RUN NO. 884/ 0 RN/L = 4.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-199.490	-99.415	.01245	.02721	.00778	-.07644	-.03629	-.00004	5.18840	4.00770	.34047
-198.800	-.065	.02647	.02774	.00693	-.06957	-.03438	-.00004	5.21410	4.04010	.26267
-197.260	99.475	.04693	.02989	.00239	-.09500	-.02837	-.00003	5.19750	3.95380	-.26860
-199.480	198.370	.03947	.03188	.00310	-.12704	-.02901	-.00004	5.27050	4.03510	-.14457
-197.690	398.610	.02733	.02898	-.00034	-.16014	-.02452	-.00003	5.24870	3.94720	.13877

RUN NO. 883/ 0 RN/L = 4.00

Y	Z	CN	CA	CLM	CY	CYN	CBL	DLTALF	DLTBTA	X
-99.051	-100.210	.00103	.02244	.00262	-.05419	-.02703	-.00003	5.19220	3.98710	.03950
-99.277	-.195	.01426	.02087	.00423	-.04333	-.02034	-.00002	5.18470	3.98790	.03366
-99.510	98.242	.04951	.02457	.00308	-.07024	-.01480	-.00002	5.21490	3.94750	.27984
-98.589	199.820	.04234	.03159	.00586	-.11671	-.02097	-.00003	5.19700	3.99040	.26166
-99.449	399.690	.02019	.02958	-.00233	-.16861	-.02641	-.00003	5.21260	3.99690	.08279

```
                                    AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEFAR.FROM O/ET             (ATU294)    ( 03 OCT 74  )

                 REFERENCE DATA                                                                    PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                              MACH   =     4.520   PTOTL  =     60.400
 LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                             ALPHA  =     -.500   BETA   =     15.700
 BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                              DALPHA =    -4.800   DBETA  =      4.000
 SCALE =       .0100                                                                 X      =      .000

                           RUN NO.   886/ 0    RN/L =    4.01

      Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA       X
   -299.340   100.280   -.03510     .02261    -.00569    -.09313    -.03624    -.00004   -4.77970   4.01310     .18908
   -296.230   198.660   -.02693     .02396    -.00668    -.09567    -.03475    -.00004   -4.70980   4.01520     .05801
   -298.610   399.860   -.02026     .02485    -.01346    -.12606    -.02979    -.00003   -4.78560   3.99020     .41576

                           RUN NO.   887/ 0    RN/L =    4.00

      Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA       X
   -198.410    99.928   -.03005     .02658    -.00724    -.07270    -.03374    -.00003   -4.80830   3.96840    -.46477
   -200.230   199.480   -.01916     .02809    -.00804    -.08160    -.03565    -.00004   -4.79900   4.02310     .29425
   -200.570   401.550   -.01831     .02406    -.01546    -.12490    -.03238    -.00003   -4.87850   3.98880     .63470

                           RUN NO.   888/ 0    RN/L =    4.00

      Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA       X
    -99.868    99.992   -.02321     .02025    -.00466    -.05149    -.02027    -.00002   -4.81540   4.01240     .16625
    -99.302   199.920   -.00895     .02369    -.00429    -.05875    -.02834    -.00003   -4.81310   4.00150     .30609
   -100.140   401.090   -.02200     .02614    -.01800    -.13031    -.03348    -.00003   -4.83140   4.02280     .19893

                                    AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEFAR.FROM O/ET             (ATU295)    ( 03 OCT 74  )

                 REFERENCE DATA                                                                    PARAMETRIC DATA

 SREF  =  2690.0000 SQ.FT.    XMRF  =  1258.5000 IN. XS                              MACH   =     4.520   PTOTL  =     60.400
 LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                             ALPHA  =     -.500   BETA   =     15.700
 BREF  =  1290.3000 INCHES    ZMRF  =   400.0000 IN. ZS                              DALPHA =    -4.800   DBETA  =      4.000
 SCALE =       .0100                                                                 X      =   300.000

                           RUN NO.   891/ 0    RN/L =    4.00

      Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA       X
   -298.890    99.799   -.02640     .02296    -.00751    -.06607    -.02944    -.00003   -4.78020   3.97470  299.93000
   -300.460   199.410   -.01474     .02534    -.00875    -.07620    -.02988    -.00003   -4.78360   4.02210  300.07000
   -299.210   399.810   -.01703     .02913    -.01487    -.12133    -.03255    -.00003   -4.78240   3.99050  300.10000

                           RUN NO.   890/ 0    RN/L =    4.00

      Y          Z          CN          CA         CLM         CY         CYN        CBL       DLTALF     DLTBTA       X
   -197.870   101.270   -.02179     .01578    -.00564    -.04097    -.01933    -.00001   -4.82170   3.94540  300.18000
   -200.820   200.040   -.00429     .01843    -.00492    -.04911    -.02143    -.00002   -4.79400   4.02790  299.89000
   -201.380   400.880   -.01397     .03186    -.01297    -.12335    -.02942    -.00003   -4.83790   4.08690  300.36000
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                              AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET               (ATU295)    ( 03 OCT 74  )

          REFERENCE DATA                                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                              MACH    =     4.520   PTOTL   =     60.400
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YS                              ALPHA   =     -.500   BETA    =     15.700
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                              DALPHA  =    -4.800   DBETA   =      4.000
SCALE =      .0100                                                                  X       =   300.000

                        RUN NO.   889/ 0    RN/L =   4.01

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
   -99.917     99.986    -.01141     .01283    -.00376    -.02671    -.01072    -.00001   -4.80370    4.01650  300.12000
  -101.900    198.590    -.00101     .01296    -.00105    -.03808    -.01570    -.00002   -4.75110    4.07840  300.09000
   -99.160    393.640    -.01325     .03066    -.00865    -.12360    -.02375    -.00003   -4.78130    3.97920  299.78000

                              AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET               (ATU296)    ( 03 OCT 74  )

          REFERENCE DATA                                                                        PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                              MACH    =     4.520   PTOTL   =     60.400
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YS                              ALPHA   =     -.500   BETA    =     15.700
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                              DALPHA  =      .200   DBETA   =      8.000
SCALE =      .0100                                                                  X       =      .000

                        RUN NO.   892/ 0    RN/L =   3.99

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
  -301.050    -99.919    -.02173     .02353     .00348    -.12390    -.04356    -.00006     .23493    8.01710     .07797
  -300.210       .664    -.00881     .02366     .00066    -.10667    -.04411    -.00005     .19480    8.01770     .25715
  -298.140     99.336     .00225     .02512     .00068    -.10572    -.04302    -.00006     .26569    7.97080    -.14586
  -298.800    199.330     .02264     .02309    -.00659    -.12389    -.04278    -.00004     .22582    8.08620     .02432
  -299.420    400.050     .00179     .03043    -.00461    -.18495    -.02979    -.00004     .21018    7.99690     .13650

                        RUN NO.   893/ 0    RN/L =   4.00

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
  -199.680    -99.266    -.03071     .02681     .00224    -.11283    -.04153    -.00005     .16827    7.98980    -.70385
  -196.080      -.898    -.01144     .02678     .00029    -.08673    -.03774    -.00004     .18258    7.91460    -.46076
  -200.500     98.852     .00390     .02672     .00078    -.08704    -.04043    -.00005     .21242    8.04550     .18502
  -201.120    200.260     .02423     .02833    -.00528    -.11265    -.04173    -.00005     .15245    8.03320     .47453
  -199.240    399.880    -.00203     .03098    -.00541    -.19336    -.02979    -.00004     .21187    7.99590     .17026
```

```
                              AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET              (ATU297)    ( 03 OCT 74  )

             REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                             MACH   =     4.520   PTOTL   =     60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                             ALPHA  =     -.500   BETA    =     15.700
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                             CALPHA =      .200   CBETA   =      8.000
SCALE =       .0100                                                               X      =   300.000

                          RUN NO.  895/ 0    RN/L =   4.00

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF     DLTBTA      X
  -298.760   -100.070    -.01612     .02330     -.00155     -.09379     -.03674     -.00004     .21614    7.96680  299.82000
  -296.790      -.892    -.00819     .02287     -.00062     -.07600     -.03449     -.00003     .23429    7.93030  300.03000
  -299.220     98.929     .00876     .02407     -.00144     -.07754     -.03443     -.00004     .22844    7.99450  300.23000
  -301.150    199.300     .02947     .02819     -.00485     -.10811     -.03327     -.00003     .20504    8.02940  300.43000
  -299.050    399.840     .00309     .03464     -.00558     -.18150     -.03202     -.00004     .21726    7.98770  300.12000

                          RUN NO.  894/ 0    RN/L =   4.00

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF     DLTBTA      X
  -202.740    -98.480    -.02620     .01672     -.00478     -.07384     -.02699     -.00003     .18185    8.10040  300.49000
  -199.775      1.834    -.00586     .01685     -.00334     -.05432     -.02189     -.00002     .14407    8.01480  300.13000
  -197.090    101.260     .00853     .01752      .00024     -.05438     -.02035     -.00002     .18233    7.94600  299.49000
  -200.785    200.040     .03425     .02187     -.00112     -.09011     -.02042     -.00002     .20481    8.03610  300.14000
  -199.090    399.070     .00399     .03718     -.00441     -.18537     -.03129     -.00004     .23455    8.00480  300.02000

                              AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET              (ATU298)    ( 03 OCT 74  )

             REFERENCE DATA                                                                    PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                             MACH   =     4.520   PTOTL   =     60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                             ALPHA  =     -.500   BETA    =     15.700
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                             CALPHA =     5.200   CBETA   =      8.000
SCALE =       .0100                                                               X      =   300.000

                          RUN NO.  896/ 0    RN/L =   4.00

      Y          Z          CN          CA          CLM         CY          CYN         CBL        DLTALF     DLTBTA      X
  -300.650    -99.397     .00958     .02395      .00639     -.08162     -.03732     -.00004    5.20670    8.04620  300.12000
  -310.000       .455     .02726     .02406      .00482     -.07746     -.03437     -.00004    5.22210    8.07760  300.13000
  -294.690    100.630     .05404     .02794      .00062     -.10762     -.02588     -.00002    5.16570    7.95500  299.59000
  -300.220    199.850     .04695     .03333      .00515     -.15175     -.02360     -.00003    5.20940    8.01080  300.20000
  -298.830    399.870     .03461     .03626      .00002     -.19939     -.03213     -.00004    5.21910    7.98560  300.29000
```

```
                                   AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET              (ATU298)    ( 03 OCT 74  )

              REFERENCE DATA                                                                           PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                               MACH   =     4.520   PTOTL   =     60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                               ALPHA  =     -.500   BETA    =     15.700
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                               DALPHA =     5.200   DBETA   =      8.000
SCALE =       .0100                                                                 X      =   300.000

                         RUN NO.   897/ 0    RN/L =    4.00

        Y          Z          CN          CA          CLM        CY          CYN         CBL        DLTALF      DLTBTA      X
    -199.450   -100.280     .00106      .01704      .00045    -.06127     -.02414     -.00002     5.20960     8.00570  300.38000
    -199.760      -.198     .01866      .01896      .01344    -.06112     -.01720     -.00002     5.20400     8.00200  300.13000
    -198.790     97.968     .05012      .02200      .00308    -.08296     -.01252     -.00002     5.24800     7.94430  300.63000
    -203.720    198.840     .04788      .02796      .00629    -.14082     -.01207     -.00003     5.24830     8.08150  300.87000
    -198.940    399.750     .03232      .03967      .00121    -.20324     -.03130     -.00005     5.21360     7.98080  299.89000

                                   AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET              (ATU299)    ( 03 OCT 74  )

              REFERENCE DATA                                                                           PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                               MACH   =     4.520   PTOTL   =     60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                               ALPHA  =     -.500   BETA    =     15.700
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                               DALPHA =     5.200   DBETA   =      8.000
SCALE =       .0100                                                                 X      =      .000

                         RUN NO.   899/ 0    RN/L =    3.99

        Y          Z          CN          CA          CLM        CY          CYN         CBL        DLTALF      DLTBTA      X
    -300.000   -101.130     .01767      .02355      .00793    -.10852     -.04437     -.00005     5.23200     8.02720    1.05110
    -299.350      -.924     .02895      .02568      .00774    -.10407     -.04423     -.00006     5.21670     7.99540     .06126
    -299.730    100.250     .05145      .02561      .00041    -.12771     -.03947     -.00004     5.15310     7.96200     .18396
    -299.970    199.570     .04433      .02919      .00234    -.16633     -.03121     -.00004     5.22320     7.93760     .20076
    -300.640    400.810     .03356      .03200      .00020    -.20305     -.02719     -.00004     5.17160     7.99640     .41621

                         RUN NO.   898/ 0    RN/L =    3.99

        Y          Z          CN          CA          CLM        CY          CYN         CBL        DLTALF      DLTBTA      X
    -199.840    -99.087     .00775      .02707      .00682    -.08955     -.04076     -.00005     5.15550     7.99880     .21836
    -199.580       .200     .02170      .02685      .00779    -.08370     -.03937     -.00005     5.21120     8.04360    -.10676
    -197.280     99.759     .05444      .03027      .00116    -.10812     -.03429     -.00003     5.17490     8.00000    -.51955
    -197.250    198.050     .04403      .03487      .00312    -.16341     -.02989     -.00004     5.26900     7.96810    -.47004
    -199.060    400.610     .02837      .03267     -.00085    -.20999     -.02846     -.00004     5.18120     7.96240     .09078
```

```
                                AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET          (ATU300)   ( 03 OCT 74  )

          REFERENCE DATA                                                                   PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                          MACH   =     4.520   PTOTL   =    60.400
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                         ALPHA  =     -.500   BETA    =    15.700
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                          DALPHA =    -4.800   DBETA   =     8.000
SCALE =       .0100                                                            X      =      .000

                      RUN NO.   900/ 0    RN/L =    4.00

     Y          Z         CN          CA         CLM         CY         CYN         CBL       DLTALF     DLTBTA       X
  -300.020   100.650   -.03500     .02336    -.00672    -.10513    -.04446    -.00005   -4.80910    8.02290     .03738
  -299.900   199.930   -.02420     .02432    -.00673    -.10978    -.04288    -.00005   -4.79210    7.99840    -.05247
  -299.700   399.860   -.01577     .02629    -.01490    -.16049    -.03700    -.00004   -4.78630    8.00050     .03273

                      RUN NO.   901/ 0    RN/L =    3.99

     Y          Z         CN          CA         CLM         CY         CYN         CBL       DLTALF     DLTBTA       X
  -198.030    99.306   -.03052     .02715    -.00602    -.09038    -.03719    -.00004   -4.79600    7.92100   -1.02220
  -200.770   199.450   -.01801     .02736    -.00688    -.09852    -.04177    -.00005   -4.81240    8.05920     .53756
  -199.590   399.820   -.01380     .02555    -.01672    -.16268    -.03816    -.00004   -4.78740    7.99690     .07866

                                AEDC/VA528(IA87)-O1ET1S1-L/H SRB SEPAR.FROM O/ET          (ATU301)   ( 03 OCT 74  )

          REFERENCE DATA                                                                   PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                          MACH   =     4.520   PTOTL   =    60.400
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS                         ALPHA  =     -.500   BETA    =    15.700
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                          DALPHA =    -4.800   DBETA   =     8.000
SCALE =       .0100                                                            X      =   300.000

                      RUN NO.   903/ 0    RN/L =    3.99

     Y          Z         CN          CA         CLM         CY         CYN         CBL       DLTALF     DLTBTA       X
  -298.720    99.795   -.02783     .02353    -.00710    -.07534    -.03559    -.00003   -4.78620    7.97210  300.03000
  -300.580   199.000   -.00999     .02584    -.00831    -.08386    -.03793    -.00004   -4.77580    8.04290  300.24000
  -304.590   401.700   -.01458     .03245    -.01498    -.16216    -.03572    -.00004   -4.88000    8.09350  301.06000

                      RUN NO.   902/ 0    RN/L =    4.00

     Y          Z         CN          CA         CLM         CY         CYN         CBL       DLTALF     DLTBTA       X
  -197.210   101.800   -.01811     .01631    -.00631    -.05681    -.02138    -.00002   -4.85650    7.92300  300.19000
  -200.290   200.030   -.00409     .01893    -.00270    -.06040    -.02493    -.00003   -4.79480    8.02100  300.17000
  -197.530   398.160   -.01072     .03427    -.01213    -.16030    -.03281    -.00004   -4.73150    7.91360  299.79000
```

```
                                          AEDC/VA528(IA87)-O1ET151-R/M SRB SEPAR.FROM O/ET              (ATU302)   ( 03 OCT 74  )

              REFERENCE DATA                                                                            PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                                    MACH   =     4.520   FTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                                    ALPHA  =     -.500   BETA   =    15.700
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                                    CALPHA =      .200   DBETA  =     4.000
SCALE =       .0100                                                                      X      =      .000

                              RUN NO.  906/ 0    RN/L =   4.00

      Y         Z          CN         CA        CLM        CY         CYN        CBL        DLTALF    DLTBTA      X
   10.387   -100.540    -.01473     .04142     .01207    -.06246    -.00561    -.00001     .22286    3.99420    .15459
   12.782      1.379    -.01468     .04566     .00710    -.05072    -.00285    -.00002     .14924    3.93350    .04438
   10.760     99.724    -.01145     .04111    -.00781    -.07513    -.00387    -.00001     .20522    3.98840    .11636
   10.795    199.760    -.01894     .03401    -.00659    -.10354    -.00700    -.00001     .21813    3.99170    .12267
   10.517    399.940     .00043     .02845     .00139    -.12705    -.01588    -.00002     .23543    3.99620   -.00530

                              RUN NO.  905/ 0    RN/L =   4.00

      Y         Z          CN         CA        CLM        CY         CYN        CBL        DLTALF    DLTBTA      X
   99.714    -99.424    -.03106     .03266     .00509    -.07931    -.02061    -.00001     .20088    3.99600    .09044
  100.860      -.205    -.00958     .03496     .00285    -.07460    -.01984    -.00003     .22374    4.01140    .02072
  101.690     99.924     .01098     .03105    -.00192    -.09150    -.01641    -.00001     .19654    3.97460    .02499
  104.070    199.360     .01670     .02985    -.00275    -.11127    -.01542    -.00001     .22912    3.91100    .33333
  100.880    399.940     .01007     .02897    -.00291    -.13097    -.01707    -.00002     .22093    3.97920    .07791

                              RUN NO.  904/ 0    RN/L =   3.99

      Y         Z          CN         CA        CLM        CY         CYN        CBL        DLTALF    DLTBTA      X
  200.850    -99.975    -.00966     .03233     .00177    -.10141    -.02555    -.00003     .22498    3.99090    .31382
  199.540      -.156    -.00182     .03237     .00018    -.10086    -.02557    -.00003     .22165    4.03230   -.17202
  200.860     99.831     .00535     .03063    -.00140    -.11130    -.02203    -.00002     .21114    3.97090    .03375
  200.790    200.240     .00695     .02974    -.00236    -.12120    -.01954    -.00002     .21600    3.97720    .08700
  199.930    399.760     .00064     .02889    -.00076    -.13278    -.01779    -.00002     .22928    3.99360    .01446
```

```
                                 AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET                    (ATU303)    ( 03 OCT 74  )

                  REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                                 MACH   =      4.520   PTOTL   =     60.400
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YS                                 ALPHA  =     -.500    BETA    =     15.700
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                                 DALPHA =      .200    DBETA   =      4.000
SCALE =       .0100                                                                    X      =   300.000

                             RUN NO.  907/ 0    RN/L =   4.00

    Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  10.461   -101.330    -.01681     .04269     .00447    -.05904    -.01123    -.00001     .26323    4.03070  300.25000
  10.263     -.201     -.01811     .04198     .00117    -.07854    -.00528    -.00001     .20774    4.00760  300.15000
  10.263     99.949    -.03102     .04409     .00151    -.08961    -.00952    -.00003     .20419    4.01460  300.13000
   9.759    199.580    -.03220     .04278    -.00747    -.09409    -.01381    -.00002     .21437    4.01430  300.18000
  11.134    400.480    -.00855     .02925     .00065    -.12414    -.01302    -.00002     .21416    3.96100  299.84000

                             RUN NO.  908/ 0    RN/L =   4.00

    Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  99.038    -99.395    -.01894     .03700     .00190    -.06217    -.01467    -.00001     .18502    4.07380  300.15000
 101.260     -.219     -.00826     .03842     .00034    -.06626    -.00912    -.00001     .21764    3.94350  299.71000
  98.525    100.270     .00727     .03564    -.00428    -.08028    -.01172    -.00002     .18657    4.06990  300.20000
  98.043    199.730     .01237     .03165    -.00491    -.10507    -.01261    -.00001     .21542    4.05200  300.15000
 100.260    399.890     .00950     .02884    -.03110    -.13003    -.01668    -.00002     .22797    3.99760  299.92000

                                 AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET                    (ATU304)    ( 03 OCT 74  )

                  REFERENCE DATA                                                                          PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                                 MACH   =      4.520   PTOTL   =     60.400
LREF  =  1290.3000 INCHES    YMRP  =      .0000 IN. YS                                 ALPHA  =     -.500    BETA    =     15.700
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                                 DALPHA =     5.200    DBETA   =      4.000
SCALE =       .0100                                                                    X      =   300.000

                             RUN NO.  910/ 0    RN/L =   3.99

    Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA     X
  11.948   -101.980     .01164     .04440     .01732    -.08709    -.00645    -.00002    5.28120    3.91770  299.92000
   9.061      1.266     .01470     .04403     .01150    -.09078    -.01053    -.00002    5.14410    4.00110  299.84000
  10.461     99.733     .02561     .04029     .00039    -.09239    -.01180    -.00002    5.20590    3.99200  300.04000
  10.060    201.880     .01790     .04030    -.00543    -.10752    -.01045    -.00001    5.13530    3.99150  300.01000
  10.081    399.830     .04047     .02924     .00306    -.12368    -.01450    -.00002    5.22300    4.00180  299.96000
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
                         AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET                 (ATU304)   ( 03 OCT 74 )

        REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1250.5000 IN. XS                               MACH   =     4.520  PTOTL  =     60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                               ALPHA  =     -.500  BETA   =     15.700
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                               DALPHA =     5.200  DBETA  =      4.000
SCALE =       .0100                                                                 X      =   300.000

                    RUN NO.  909/ 0    RN/L =   3.99

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   100.000   -100.740     .00041     .03827     .01307    -.09328    -.00956    -.00001    5.23610    3.98290  300.16000
   102.000     -1.274     .00146     .03943     .01112    -.08369    -.01023    -.00002    5.26930    3.94350  300.34000
   102.120    100.450     .01830     .03620     .00336    -.08650    -.01195    -.00002    5.20210    3.95070  299.89000
   100.180    199.700     .03510     .03198     .00110    -.10417    -.01313    -.00001    5.21110    3.99890  300.01000
   100.380    399.750     .03961     .02958     .00282    -.12648    -.01770    -.00002    5.22190    3.99590  300.08000

                         AEDC/VA528(IA87)-O1ET1S1-R/H SRB SEPAR.FROM O/ET                 (ATU305)   ( 03 OCT 74 )

        REFERENCE DATA                                                                      PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1250.5000 IN. XS                               MACH   =     4.520  PTOTL  =     60.400
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS                               ALPHA  =     -.500  BETA   =     15.700
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS                               DALPHA =     5.200  DBETA  =      4.000
SCALE =       .0100                                                                 X      =      .000

                    RUN NO.  911/ 0    RN/L =   4.00

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
    10.579    -99.977     .01535     .04474     .02598    -.08471    -.00433    -.00003    5.20630    3.99360     .06016
    10.853       .145     .02037     .04415     .01233    -.07129    -.00258    -.00002    5.19340    3.98980     .03263
    10.000     99.882     .02016     .04004    -.00327    -.07946     .00024    -.00001    5.20690    3.99790    -.07776
     9.912    199.810     .02914     .03358    -.00317    -.09880    -.00614    -.00001    5.21010    4.01420    -.01004
     9.660    399.790     .04047     .02922     .00364    -.12608    -.01658    -.00002    5.22800    4.03080     .22211

                    RUN NO.  912/ 0    RN/L =   3.99

      Y          Z          CN         CA         CLM        CY         CYN        CBL       DLTALF     DLTBTA      X
   100.220   -100.130    -.01303     .03427     .01507    -.10764    -.01581    -.00003    5.20790    3.99900    -.01107
   101.390       .583     .00268     .03340     .00846    -.09434    -.01632    -.00002    5.15660    3.99510    -.05103
   101.760    100.010     .02261     .03171     .00325    -.09749    -.01516    -.00002    5.17350    3.97470     .37067
    99.392    199.150     .03828     .03068     .00210    -.10970    -.01619    -.00001    5.22110    4.03200     .26692
    98.306    399.810     .03767     .02962     .00259    -.12928    -.01862    -.00002    5.22250    4.06880     .26371
```

```
                                 AEDC/VA528(IA87)-O1ET1S1-R/M SRB SEPAR.FROM O/ET            (ATU305)   ( 03 OCT 74  )

             REFERENCE DATA                                                                PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                        MACH   =     4.520   PTOTL   =     60.400
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS                       ALPHA  =     -.500   BETA    =     15.700
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS                        DALPHA =     5.200   DBETA   =      4.000
SCALE =       .0100                                                           X      =      .000

                     RUN NO.  913/ 0    RN/L =   4.00

      Y          Z          CN         CA         CLM        CY         CYN        CBL        DLTALF     DLTBTA      X
   200.010    -100.610    .00411     .03338     .01282    -.11502    -.02357    -.00003    5.24720    4.00540    .33336
   200.050      -.328     .01667     .03145     .00822    -.11551    -.02164    -.00003    5.22470    4.00010    .05072
   200.250     99.714     .02707     .03093     .00511    -.11779    -.02047    -.00002    5.20870    4.00070   -.02523
   201.130    199.920     .03266     .03013     .00384    -.12460    -.01964    -.00002    5.21170    4.00220    .07513
   201.340    399.540     .03293     .02905     .00423    -.13649    -.01734    -.00002    5.23750    3.97470    .39025

                                 AEDC/VA528(IA87)-S1-ISOLATED SRB                            (ATU306)   ( 16 APR 75  )

             REFERENCE DATA                                                                PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                        BETA   =      .000   PTOTL   =     60.400
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS
SCALE =       .0100

                     RUN NO.  914/ 0    RN/L =   4.01

                     MACH      ALPHA      CN         CA         CLM        CY         CYN        CBL
                     4.520     19.021    .13602     .02754     .01566     .00067    -.00004    -.00002

                                 AEDC/VA528(IA87)-S1-ISOLATED SRB                            (ATU307)   ( 16 APR 75  )

             REFERENCE DATA                                                                PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.    XMRP  =  1258.5000 IN. XS                        BETA   =      .000   PTOTL   =     60.400
LREF  =  1290.3000 INCHES    YMRP  =       .0000 IN. YS
BREF  =  1290.3000 INCHES    ZMRP  =   400.0000 IN. ZS
SCALE =       .0100

                     RUN NO.  915/ 0    RN/L =   4.01

                     MACH      ALPHA      CN         CA         CLM        CY         CYN        CBL
                     4.520     15.014    .09565     .02449     .01329     .00093    -.00001    -.00002
```

```
                          AEDC/VA528(IA87)-S1-ISOLATED SRB                      (ATU308)   ( 16 APR 75  )

          REFERENCE DATA                                                           PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                    BETA   =      .000  FTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS
SCALE =      .0100

                    RUN NO.  916/ 0    RN/L =   4.01

                   MACH     ALPHA      CN         CA        CLM        CY        CYN       CBL
                   4.520    10.014    .05400     .02158    .01034    .00081    .00003   -.00001

                          AEDC/VA528(IA87)-S1-ISOLATED SRB                      (ATU309)   ( 16 APR 75  )

          REFERENCE DATA                                                           PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                    BETA   =      .000  FTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS
SCALE =      .0100

                    RUN NO.  917/ 0    RN/L =   4.01

                   MACH     ALPHA      CN         CA        CLM        CY        CYN       CBL
                   4.520     5.011    .02195     .01973    .00582    .00055   -.00003   -.00001

                          AEDC/VA528(IA87)-S1-ISOLATED SRB                      (ATU310)   ( 16 APR 75  )

          REFERENCE DATA                                                           PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                    BETA   =      .000  FTOTL  =    60.400
LREF  =  1290.3000 INCHES   YMRP  =       .0000 IN. YS
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS
SCALE =      .0100

                    RUN NO.  918/ 0    RN/L =   4.01

                   MACH     ALPHA      CN         CA        CLM        CY        CYN       CBL
                   4.520      .022    .00042     .01789    .00074    .00061   -.00005   -.00001
```

```
DATE 20 MAY 75                         IA87 TABULATED SOURCE DATA                                   PAGE  509

                               AEDC/VA528(IA87)-S1-ISOLATED SRB                     (ATU311)   ( 16 APR 75  )

             REFERENCE DATA                                                             PARAMETRIC DATA

SREF  =  2690.0000 SQ.FT.   XMRP  =  1258.5000 IN. XS                          BETA   =      .000   PTOTL  =    60.453
LREF  =  1290.3000 INCHES   YMRP  =      .0000 IN. YS
BREF  =  1290.3000 INCHES   ZMRP  =   400.0000 IN. ZS
SCALE =      .0100

                         RUN NO.  919/ 0    RN/L =   4.01

                        MACH      ALPHA      CN         CA        CLM        CY        CYN        CBL
                        4.520     -5.070    -.01916    .01936    -.00481    .00034    -.00006    -.00000
```