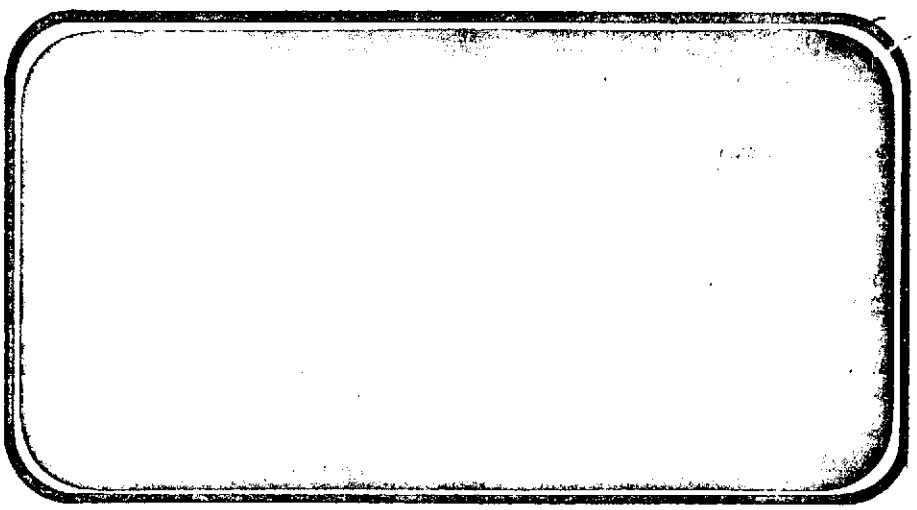
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

CR 134225



SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANagement services

SPACE DIVISION CHRYSLER CORPORATION

February 10, 1974

DMS-DFR-2012

PHASE C

AEROTHERMODYNAMIC

DATA BASE

MONTHLY

DATA FILE CONTENTS REPORT

Prepared under NASA Contract Number NAS9-13247

By

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FOR N. D. Kemp
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1.0 INTRODUCTION

Space Shuttle aerothermodynamic data, collected from an ongoing series of wind tunnel tests, are permanently stored with DMS data management system. In addition, information pertaining to current baseline configuration definition is also maintained in the DMS system. This report presents summary listings of published documentation of SADSAC processed data arranged chronologically and by Shuttle configuration.

The purpose of this report is to provide an up-to-date record of all applicable aerothermodynamic data collected, processed, or summarized in the course of the Space Shuttle program. The various tables or listings are designed to provide survey information to the various Space Shuttle managerial and technical levels. In Table 1.2-1, the various listings of the Shuttle test data information, the list contents, and the purpose are described.

Table 1.2-1 SUMMARY OF DMS DATA BASE RECORDS

Item	Contents	Purpose
Baseline Configurations	List of various shuttle configurations designated as reference or baseline	Current baseline configuration reference
Summary Reports	List of DMS reports presenting results of data analysis or refinements	Index of Shuttle aerothermo design data reports
Data File Report Digest	Compilation of Shuttle tests into operational status and basic configuration groups	Information on tests DMS processed or in process arranged by vehicle
Wind Tunnel Test/DMS	Table of Shuttle tests for which results have been incorporated into DMS data base	Reference of Shuttle test data in DMS data base in chronological order

2.0 DESCRIPTION OF DATA BASE RECORDS

2.1 BASELINE CONFIGURATION DESIGNATIONS

Particular space shuttle configurations designated as baseline or reference configurations are listed in this report. These lists present the baseline configuration descriptions, related test information, DMS 2-character identifier, and associated documentary information.

2.2 SUMMARY DATA REPORTS

Summary data reports are differentiated from data reports in that data reports present basic wind tunnel data as collected. Summary reports generally will contain data germane to a particular design application of the basic aerothermo test data. Summary reports will range from basic data reports of edited or refined data to reports presenting gleanings from basic data reports.

The listing of summary reports will contain DMS generated documents.

2.3 DATA FILE REPORT DIGEST

The data file digest provides a compilation of all information in the SADSAC system into three basic categories:

1) Recently published reports - current month plus previous month

2) Tests in process

3) Published reports

Within each section, the tests are again subdivided into general configuration categories:

1) Booster Data

2) Orbiter Data

3) Booster/Orbiter Data

Information provided on each test is as follows:

1) DMS Report Number

2) NASA Series Number

3) NASA CR Number

4) NASA TM-X Number

5) Dataset 2-Character Descriptor

6) Configuration (specific)

7) Test Number

2.4.1 WIND TUNNEL TEST/SADSAC DATA PROCESSING CHRONOLOGICAL SUMMARY

Space Shuttle related wind tunnel test data incorporated into the DMS data base are listed by DMS report number in the processing summary. The purpose of this summary will be to provide a source collection of test particulars to guide users in the evaluation or categorization of available data. The test data summary will contain the following information.

1) Test Facility

2) Test identification

3) Configurations tested

4) Purpose of test

5) Type of test

6) Model scale

7) Test Mach number range

8) Testing agency

9) Cognizant test/DMS personnel

10) Basic publication numbers

2.4.2 SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

Numerous wind tunnel facilities are being employed in the testing of space shuttle configurations. The purpose of this summary will be to provide users a collection of tests documented, or in process, grouped by facility. This summary will contain the following information:

a) Two-character Test Code

b) Facility

c) Tunnel

d) Test No.

e) NASA Series No.

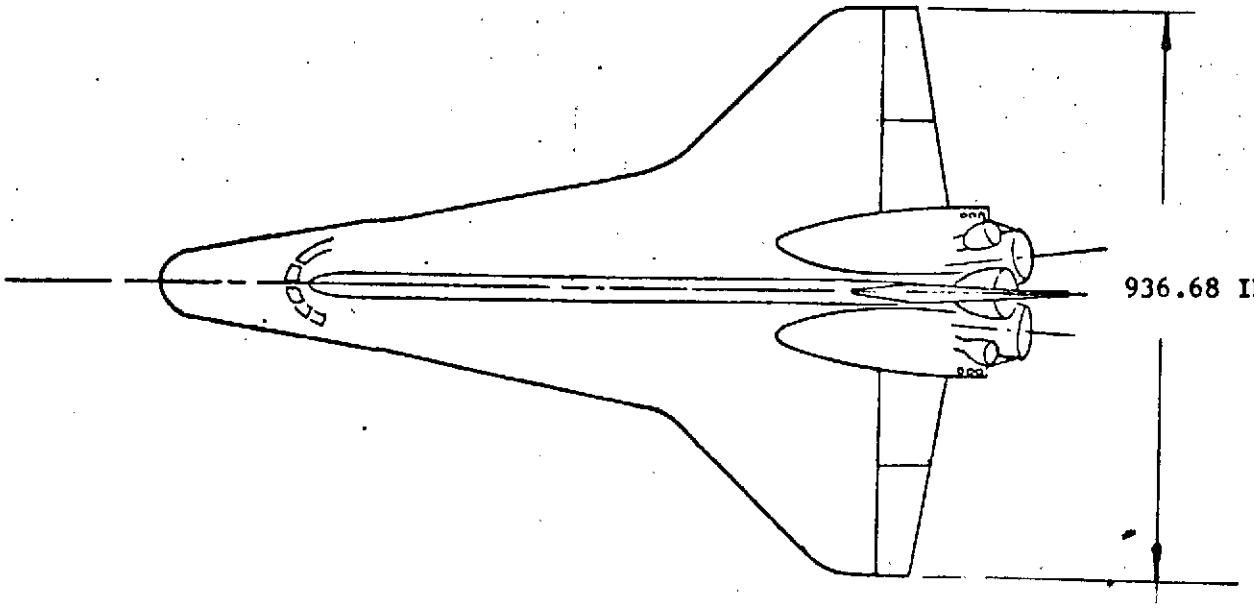
f) DMS Report No.

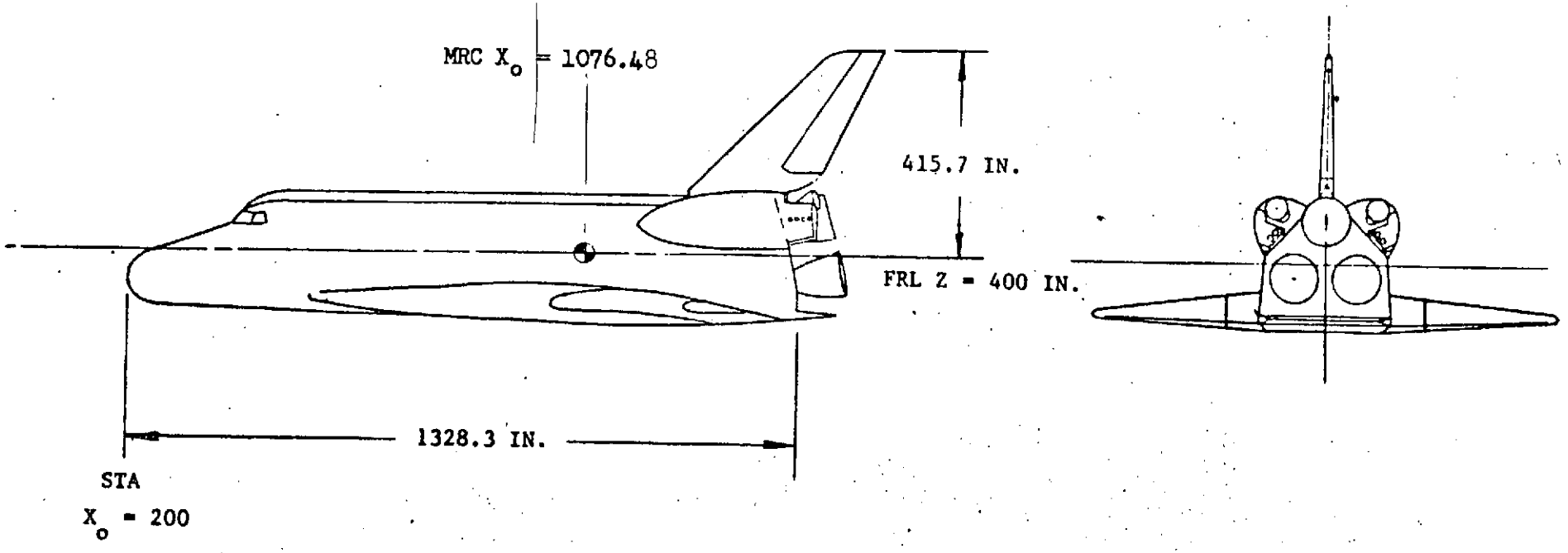
TABLE 2.1-1 BASELINE CONFIGURATION DEFINITIONS

BASELINE CONFIGURATION

DESIGNATIONS

REFERENCE	DIMENSIONS
AREA	S_w = 2690 FT^2
MAC	$\bar{C}$ = 474.8 IN.
C.G.	X = 876.48 IN.
	Z = 400 IN.
SPAN	b_w = 936.68 IN.
LENGTH	L = 1328 IN.





SSV ORBITER 2A CONFIGURATION BASELINE

TABLE 2.2-1 SUMMARY DATA REPORTS LISTING

(NO DATA AVAILABLE AT PRESENT)

TABLE 2.3-1 DATA FILE REPORT DIGEST

INDEX OF RECENT PUBLICATIONS
DECEMBER /JANUARY

ORBITER DATA

OMS OMS-OR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2053 V-01	OA21A 12	8,792		ORBITER 3	NRLAD - LOW SPEED WIND TUNNEL - 705	DP
2061	OA6A	128,789		VL70-000147B (MODEL NO. 49-0)	NRLAD - 7-FOOT TRISONIC WIND TUNNEL - 276	DR
2061	OA6B	128,789		VL70-000139B (MODEL NO. 42-0)	NRLAD - 7-FOOT TRISONIC WIND TUNNEL - 276	DR
2069	MA7	134,074		PRR ORBITER	LARC - UNITARY PLAN WIND TUNNEL - 1031	PM
2082	OA73	128,800		CONFIGURATION 3A ORBITER	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 167	B5
2101	OH42A OH42B OH42C	134,076		B17C7M4F5W103E22V7R5	LARC - MACH 8 VARIABLE-DENSITY HYPERSONIC TUNNEL - 4080/4105 4130/4193	PA

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DECEMBER /JANUARY

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2032 V-04	IA9 OA12	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 707	B-
2032 V-05	IA9 OA12	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 707	B-
2032 V-06	IA9 OA12	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 707	B-
2032 V-07	IA9 OA12	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 707	B-
2032 V-08	IA9 OA12	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 707	B-

INDEX OF RECENT PUBLICATIONS
DECEMBER /JANUARY

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2032 V-09	IA9 OA12	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 707	B-
2032 V-10	IA9 OA12	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 707	B-
2032 V-11	IA9 OA12	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 707	B-
2032 V-12	IA9 OA12	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 707	B-

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BOOSTER DATA

CMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2088	SA2F			142-INCH SOLID ROCKET BOOSTER	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 655	FS

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ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2038	OA16	128,793		NR ORBITER	NRLAD - LOW SPEED WIND TUNNEL - 701	DN
2053 V-02	OA21A 12	8,792		ORBITER 3	NRLAD - LOW SPEED WIND TUNNEL - 705	DP
2057	OA44			ORBITER, MODIFIED 2A,3	LARC - UNITARY PLAN WIND TUNNEL - 1035	PN
2058	OA17			ORBITER NAR VL70-000134B CONFIG.	LARC - LOW-TURBULENCE PRESSURE TUNNEL - 138	PP
2059	OA11B	128,798		ORBITER 2A	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 160	BX
2060	OA58			ORBITER 3,A	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 163	BY
2064	IA36			ORBITER, MODIFIED 2A,3	CAL - 8-FOOT TRANSONIC WIND TUNNEL - T14-053	UF
2068	OA71A	128,797		-89B(2A) ORBITER	NRLAD - LOW SPEED WIND TUNNEL - 708	DS
2071	OA23	128,799		MODEL 49-0	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 168	B6
2071	OA23	128,799		MODEL 32-0	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 168	B6

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ORBITER DATA

DMS DMS-OR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2073	OA70	134,070		MODEL 42-0 OF THE VL70-0001398 SSV ORBITER CONFIGURATION 3	LARC - UNITARY PLAN WIND TUNNEL - 1043	PV
2074	OA57A			-89B SPACE SHUTTLE ORBITER FERRY C ONFIGURATION	NRLAD - LOW SPEED WIND TUNNEL - 709	DT
2077	IA29 OA63				ARC - 6-FOOT BY 6-FOOT SUPERSONIC WIND T UNNEL - 630	EB
2079	LA15			089B-139B(MODIFIED NOSE)	LARC - 20-INCH HYPERSONIC TUNNEL (MACH 6) - 441	PH
2080	OA75B			-89B SPACE SHUTTLE ORBITER FERRY C ONFIGURATION	NRLAD - LOW SPEED WIND TUNNEL - 713	DV
2081	OA69			-140 A/B SPACE SHUTTLE ORBITER	NRLAD - LOW SPEED WIND TUNNEL - 711	DQ
2083	OA20			SSV 140A/B ORBITER	LARC - UNITARY PLAN WIND TUNNEL - 1057	Q2
2084	IA14A			SPACE SHUTTLE PRESSURE LOADS MODEL 47-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 716 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) -	B1
2085	OH10 IH2				ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 171	B9

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ORBITER DATA

DMS DMS-OR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2086	OA71C			-89B ORBITER	ARC - LOW SPEED WIND TUNNEL - 712	DU
2091	LA7B			LO-100 ORBITER	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 657/660	P5
2094	OS1	134,073		BASIC WING AND 11 HZ INBD AND 13.5 HZ OUTBD ELEVON ROTATIONAL FREQ	LARC - 26-INCH TRANSONIC BLOWDOWN TUNNEL - 545	QT
2100	OH3A OH3B	134,075			AEDC - HYPERSONIC WIND TUNNEL (B) - VA289	TM
2102	IA15			OT+L+P1+A1+F	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 175	EG
2116	OA91			B19C7F5J59W107E23V7R5X20 + NACELLE RAKES	NRLAD - TRISONIC WIND TUNNEL - 278	DY
2120	OA106			ORBITER	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 668	QZ
2125	OA88			BODY ALONE (-140A/B)	LARC - 7422	QC
2126	LA25			-139 ORBITER WITH VARIOUS RCS JETS	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 100	PX
2127	LA35			-139 B ORBITER WITH VARIOUS CONTROL DEFLECTIONS	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 102	QU

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ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2130	OA22A			SSV 4 CONFIG MCR 0200	ARC - 11-7160	B3
2131	OA22B			SSV 4 CONFIG MCR 0200	ARC - 97-7160	B4

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INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES, NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2013	IA2	128,762		SHUTTLE ORBITER/TANK SRM (N-040A)	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 616	BJ
2027	IA32FB			ROCKWELL MCR0074 BASELINE ASCENT CONFIGURATION	MSFC - 14-INCH TRISONIC WIND TUNNEL - 567	82
2028	IA31FB			MCR 0074 ORBITER LAUNCH	MSFC - 14-INCH TRISONIC WIND TUNNEL - 570	83
2032 V-13	IA9 OA12	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 707	B-
2032 V-14	IA9 OA12	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 707	B-
2032 V-15	IA9 OA12	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 707	B-
2032 V-16	IA9 OA12	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 707	B-

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INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2032 V-17	IA9 OA12	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 707	B-
2032 V-18	IA9 OA12	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 707	B-
2039	IA6A	134,071		MODEL 2A ORBITER AND EXTERNAL TANK	MSFC - 14-INCH TRISONIC WIND TUNNEL - 571	85
2048	IA12B			2A CONFIGURATION	ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 710	BV
2062	IA13			32-OTS	AEDC - SUPERSONIC WIND TUNNEL (A) - 323	TJ
2077	IA29 OA63			SHUTTLE ORBITER/ET/2 SRM SHUTTLE ORBITER VENT PRESSURE MODE L 36-OTS	ARC - 6-FOOT BY 6-FOOT SUPERSONIC WIND T UNNEL - 630	EB
2085	OH10 IH2			SPACE SHUTTLE INTEGRATED VEHICLE P RESSURE MODEL 26-OTS	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 171	B9
2098	IH15				ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 172	B8

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INTEGRATED VEHICLE DATA

OMS OMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2099	OH4B			22-OT	AEDC - HYPERSONIC WIND TUNNEL (B) - VA352	TK
2100	OH3A OH3B	134,075		ROCKWELL ORBITER/TANK (VL70-000139/ VL78-000041) ROCKWELL ORBITER (VL70-000139)	AEDC - HYPERSONIC WIND TUNNEL (B) - VA289	TH
2123	IA53			LAUNCH CONFIGURATION LAUNCH CONFIGURATION WITH STRUTS	MSFC - 14-INCH TRISONIC WIND TUNNEL - 588	96
2129	IA14B			SSV 4 CONFIG MCR 0200	ARC - 97-716I	B2

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BOOSTER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2012	SA1F	120,090		SRB (PRR)	MSFC - 14-INCH TRISONIC WIND TUNNEL - 554	79
2025	SA3F	128,767		142-INCH DIAMETER SRB WITH AND WIT HOUT STRAKES	MSFC - 14-INCH TRISONIC WIND TUNNEL - 565	80
2051	SA5F	128,774		BOOSTER MSFC MODEL NO.449	MSFC - 14-INCH TRISONIC WIND TUNNEL - 572	86

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OMS OMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2001	MA5	128,750		NR ATP ORBITER	LARC - UNITARY PLAN WIND TUNNEL - 1002	OQ
2002	LA1	128,752		NR PRR ORBITER	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 626	OU
2003	MA2	128,754		NR ATP ORBITER	LARC - 22-INCH HELIUM TUNNEL - 409	OS
2004	MA1	120,082		MSC 040A ORBITER	LTV - 15-FOOT BY 20-FOOT SUBSONIC WIND TUNNEL - S-081	DD
2005	OA1	120,079		NR ATP BASELINE ORBITER	MSFC - 14-INCH TRISONIC WIND TUNNEL - 555	76
2007	OA4	128,760		NR SSV ORBITER	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 147	BI
2008	MA4	128,751		NR ATP ORBITER	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 89	OT
2008 R-01	MA4	128,751		NR ATP ORBITER	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 89	OT
2009	OA3	128,761		SHUTTLE ORBITER OA3	ARC - 6-FOOT BY 6-FOOT SUPERSONIC WIND TUNNEL - 650	BH

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ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2014	OA7	128,753		NR FRR-SSV ORBITER	LARC - UNITARY PLAN WIND TUNNEL - 1007	OV
2016	OA2	120,092		NR ATP ORBITER	NRLAD - LOW SPEED WIND TUNNEL - 689	DF
2017	OA5	123,851		NR ATP ORBITER	NRLAD - LOW SPEED WIND TUNNEL - 690	DG
2019	OA6	128,756		ATP AND PRR ORBITER	NRLAD - LOW SPEED WIND TUNNEL - 694	DI
2020	OA9	128,757		PRR ORBITER	NRLAD - LOW SPEED WIND TUNNEL - 696	DJ
2021 V-01	OA45	128,756		-89A ORBITER	NRLAD - LOW SPEED WIND TUNNEL - 699	DL
2021 V-02	OA45	128,758		-89A	NRLAD - LOW SPEED WIND TUNNEL - 699	DL
2022	OA10	128,759		ROCKWELL INTERNATIONAL -89B ORBITER	NRLAD - LOW SPEED WIND TUNNEL - 698	DK
2023	LA2	128,763		LO-100 ORBITER	LARC - 22-INCH HELIUM TUNNEL - 411	OY
2029	OA47	128,765		2A ORBITER	MSFC - 14-INCH TRISONIC WIND TUNNEL - 568	84

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DMS DMS-DR-	NASA SERIES, NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2030	OA14 128,768	128,768		-89B ROCKWELL INTERNATIONAL SPACE SHUTTLE ORBITER	NRLAD - LOW SPEED WIND TUNNEL - 700	DM
2031	LA3	128,769		LO-100 ORBITER	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 85	OZ
2033	LA4	128,772		LO-100 ORBITER	LARC - UNITARY PLAN WIND TUNNEL - 995 1014	P1
2034	LA22	128,764		DOUBLE DELTA WING ORBITER	LARC - 22-INCH HELIUM TUNNEL - 405	ON
2036	LA5	128,775		LARC LO-100 ORBITER	LARC - 22-INCH HELIUM TUNNEL - 413	P2
2041	LA7	128,781		LARC LO-100 ORBITER (SHIPS)	LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL - 644	P5
2043	LA16	128,770		RSI TILES,ORBITER	LARC - MACH 8 VARIABLE-DENSITY HYPERSONIC TUNNEL - 624	PB
2044	OA11A	128,786		SHUTTLE ORBITER 2A	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 157	BS
2045	OA18	128,779		ROCKWELL SSV ORBITER	NRLAD - LOW SPEED WIND TUNNEL - 704	DO

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ORBITER DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2049	OH40	128,771		NR 2A ORBITER	LARC - MACH 8 VARIABLE-DENSITY HYPERSONIC TUNNEL 3619/3670	OX
2050	OA43	128,790		ROCKWELL SSV 2A ORBITER	ARC - 6-FOOT BY 6-FOOT SUPERSONIC WIND TUNNEL 706	BT
2052	LA10	128,791		LO-100 ORB (SHIPS) (BW2VFB)	LARC - UNITARY PLAN WIND TUNNEL 1015	F8
2053 V-01	OA21A 12	8,792		ORBITER 3	NRLAD - LOW SPEED WIND TUNNEL 705	DP
2054	LA8A LA8B	128,796		NR ORBITER	LARC - UNITARY PLAN WIND TUNNEL 1023/1034	F6
2055 V-01	OA48	128,780		ORBITER 139B	MSFC - 14-INCH TRISONIC WIND TUNNEL 574	87
2055 V-01	OA48	128,780		ORBITER 139	MSFC - 14-INCH TRISONIC WIND TUNNEL 574	87
2055 V-02	OA48	128,780		ORBITER 139B	MSFC - 14-INCH TRISONIC WIND TUNNEL 574	87
2055 V-02	OA48	128,780		ORBITER 139	MSFC - 14-INCH TRISONIC WIND TUNNEL 574	87

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ORBITER DATA

OMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2055 V-03	OA48	128,780		ORBITER 139B	MSFC - 14-INCH TRISONIC WIND TUNNEL - 574	87
2055 V-03	OA48	128,780		ORBITER 139	MSFC - 14-INCH TRISONIC WIND TUNNEL - 574	87
2056	LA9	128,782		NAR 089B-MOD NOSE + OMS	LARC - LOW-TURBULENCE PRESSURE TUNNEL - 130	P7
2056	LA9	128,782		NAR 089B-MOD NOSE	LARC - LOW-TURBULENCE PRESSURE TUNNEL - 130	P7
2061	OA68	128,789		VL70-000147B (MODEL NO. 49-0)	NRLAD - 7-FOOT TRISONIC WIND TUNNEL - 276	DR
2061	OA68	128,789		VL70-000139B (MODEL NO. 42-0)	NRLAD - 7-FOOT TRISONIC WIND TUNNEL - 276	DR
2066	LA11	128,783		SPACE SHUTTLE ORBITER 089B-139	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL - 96	PD
2067	OS2	128,777		0.025 SCALE MODEL OF SPACE SHUTTLE ORBITER (24-0) FIN/RUDDER	LARC - 26-INCH TRANSONIC BLOWDOWN TUNNEL - 544	PZ
2069	MA7	134,074		FRR ORBITER	LARC - UNITARY PLAN WIND TUNNEL - 1031	PM
2082	OA73	128,800		CONFIGURATION 3A ORBITER	ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL - 167	B5

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ORBITER DATA

OMS OMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2101	OH42A OH42B OH42C	134,076		B17C7M4F5W103E22V7R5	LARC - MACH 8 VARIABLE-DENSITY HYPERSONIC TUNNEL 4080/4105 4130/4193	PA

INDEX OF PUBLISHED DATA

INTEGRATED VEHICLE DATA

OMS OMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2006	IA1A	120,088		MSFC/NR PARAMETRIC LAUNCH VEHICLE	MSFC - 14-INCH TRISONIC WIND TUNNEL - 556	77
2010	IA1B	120,060		NR ATP ORBITER/TANK AND SRMS ON AN D OFF	MSFC - 14-INCH TRISONIC WIND TUNNEL - 545	72
2011	MA9F	120,089		NR ATP ORBITER/EXTERNAL TANK AND S RBS	MSFC - 14-INCH TRISONIC WIND TUNNEL - 558	78
2015 V-01	IA4	120,091		NASA SSV ORBITER ON NR ECHT WITH S INGLE BSRM	LTV - HIGH SPEED WIND TUNNEL - 458	DE
2015 V-02	IA4	120,091		NASA SSV ORBITER ON NR ECHT WITH S INGLE BSRM	LTV - HIGH SPEED WIND TUNNEL - 458	DE
2016	IA3	128,755		ATP LAUNCH CONFIGURATION	NRLAD - LOW SPEED WIND TUNNEL - 693	DH
2024	IA7	128,766		040A SPACE SHUTTLE INTEGRATED VEHI CLE	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 686	BL
2026	IA31F	128,778		MCR 0074 BASELINE LAUNCH VEHICLE	MSFC - 14-INCH TRISONIC WIND TUNNEL - 566	81
2032 V-01	IA9 OA12	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNI TARY) - 8-FOOT BY 7-FOOT SUPERSONIC WIND T UNNEL (UNITARY) - 707	B-

INDEX OF PUBLISHED DATA

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2032 V-02	IA9 OA12	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 707	B-
2032 V-03	IA9 OA12	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 707	B-
2032 V-04	IA9 OA12	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 707	B-
2032 V-05	IA9 OA12	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 707	B-
2032 V-06	IA9 OA12	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 707	B-

INDEX OF PUBLISHED DATA

INTEGRATED VEHICLE DATA

OMS OMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA, TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2032 V-07	IA9 OA12	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 707	B-
2032 V-08	IA9 OA12	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 707	B-
2032 V-09	IA9 OA12	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 707	B-
2032 V-10	IA9 OA12	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 707	B-
2032 V-11	IA9 OA12	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 707	B-

INDEX OF PUBLISHED DATA

INTEGRATED VEHICLE DATA

DMS DMS-DR-	NASA SERIES NUMBER	NASA CR NUMBER	NASA TM-X NUMBER	CONFIGURATION	TEST NUMBER	DATASET 2-CHARACTER DESCRIPTOR
2032 V-12	IA9 OA12	128,794		17-OTS	ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) - 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY) - 707	B-
2063	IA37 IA48	128,788		INTEGRATED VEHICLE	MSFC - 14-INCH TRISONIC WIND TUNNEL - 579/580	88
2070	LA23	128,787		JSC 040A ORBITER WITH EHOT AND 2 SRM	LARC - LOW-TURBULENCE PRESSURE TUNNEL - 141	PU

TABLE 2.4.1-1 WIND TUNNEL TEST/SADSAC

DATA PROCESSING SUMMARY

WIND TUNNEL TEST / DMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - UPWT - 1002 /MA5 CR-128,750	AERODYNAMIC STABILITY AND CONTROL CHARACTERISTICS OF A .01925 SCALE MODEL NR ATP ORBITER AT MACH NUMBERS FROM 1.9 TO 4.63	NR ATP ORBITER	AERODYNAMIC STABILITY AND CONTROL OF NR ATP ORBITER CONFIGURATION	FORCE	0.01925 / 1.9 - 4.63	LARC / LARC - UNITARY PLAN WIND TUNNEL	R. FOURNIER, B. SPENCER /LARC J. E. VAUGHN J. L. GLYNN -DMS	DMS-DR-2001 NOV., 1972
LARC - 8TPT - 626 /LA1 CR-128,752	RESULTS OF TRANSONIC AERODYNAMIC CHARACTERISTICS IN THE NASA/LARC 8 FOOT PRESSURE TUNNEL ON A 0.015 SCALE MODEL NR-PRR SPACE SHUTTLE ORBITER	NR PRR ORBITER	TRANSONIC AERODYNAMIC CHARACTERISTICS	FORCE	0.015 / 0.3 - 1.3	LARC / LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL	R. MENNELL, B. SPENCER /NR R. SINGLETON -DMS	DMS-DR-2002 MARCH, 1973
LARC - 22HT - 409 /MA2 CR-128,754	HYPERSONIC AERODYNAMIC CHARACTERISTICS OF NR-ATP ORBITER, ORBITER WITH EXTERNAL TANK, AND ASCENT CONFIGURATION	NR ATP ORBITER	HYPERSONIC AERODYNAMIC CHARACTERISTICS OF NR ATP ORBITER	FORCE	0.0045 / 20.3 -	LARC / LARC - 22-INCH HELIUM TUNNEL	G. C. ASHBY /LARC J. E. VAUGHN -DMS	DMS-DR-2003 APRIL, 1973
LTV - 1520SWT - S-081 /MA1 CR-120,082	LONGITUDINAL AERODYNAMIC CHARACTERISTICS OF LOW ASPECT RATIO WING CONFIGURATIONS IN GROUND EFFECT FOR A MOVING AND STATIONARY GROUND SURFACE	MSC 040A ORBITER	ELEVON EFFECTIVENESS AND ALTERNATE CONFIGURATION GEOMETRIES IN PRESENCE OF GROUND EFFECT	FORCE	0.05 / 0.067-	MSC / LTV - 15-FOOT BY 20-FOOT SUBSONIC WIND TUNNEL	P. ROMERE /MSC J. E. VAUGHN W. M. HALE -DMS	DMS-DR-2004 NOV., 1972

WIND TUNNEL TEST / DMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS COMMENTS
MSFC - 14TWT - 555 OA1 CR-120,070	AERODYNAMIC STABILITY, CONTROL EFFECTIVENESS AND DRAG CHARACTERISTIC OF A SHUTTLE ORBITER CONFIGURATION AT MACH NUMBERS FROM 0.6 TO 4.96	NR_ATP BASELINE ORBITER	AERODYNAMIC STABILITY AND CONTROL EFFECTIVENESS AND DRAG CHARACTERISTICS	FORCE	0.004 / 0.6 - 4.96	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	P. RAMSEY /MSFC V. W. SPARKS J. L. GLYNN	DMS-DR-2005 NOV., 1972
MSFC - 14TWT - 556 IA1A CR-120,088	AERODYNAMIC STABILITY AND CONTROL EFFECTIVENESS OF A PARAMETRIC SHUTTLE LAUNCH CONFIGURATION	MSFC/NR PARAMETRIC LAUNCH VEHICLE	PERFORMANCE, STABILITY AND CONTROL CHARACTERISTICS	FORCE	0.004 / 0.6 - 4.96	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	P. E. RAMSEY /MSF V. W. SPARKS J. L. GLYNN	DMS-DR-2006 DEC., 1972
ARC - 3.5HWT - 147 OA4 CR-128,760	RESULTS OF INVESTIGATIONS ON A 0.04 SCALE MODEL NORTH AMERICAN ROCKWELL SPACE SHUTTLE ORBITER IN THE NASA/ARC 3.5 FOOT HYPERSONIC WIND TUNNEL	NR SSV ORBITER	STATIC STABILITY AND TRIM CAPABILITY, COMPONENT INCREMENTAL EFFECTS	FORCE	0.015 / 7.3 -	ARC / ARC - LAMONT /NR 3.5-FOOT HYPERSONIC WIND TUNNEL	B. CAMERON, C. W. T. L. MULKEY W. R. MORGAN	DMS-DR-2007 MARCH, 1973
LARC - CFHT - 89 MA4 CR-128,751	STATIC STABILITY AND PERFORMANCE CHARACTERISTICS OF THE A.T.P. ORBITER AT M=10.3	NR ATP ORBITER	AERODYNAMIC STABILITY AND PERFORMANCE AT HYPERSONIC MACH NO. OF 10	FORCE	0.0075 / 10.3 -	LARC / RC CONTINUOUS-FLOW HYPERSONIC TUNNEL	T. BLACKSTOCK /LA V. W. SPARKS J. R. ZILER	DMS-DR-2008 JAN., 1973
LARC - CFHT - 89 MA4 CR-128,751	STATIC STABILITY AND PERFORMANCE CHARACTERISTICS OF THE A.T.P. ORBITER AT M=10.3	NR ATP ORBITER	AERODYNAMIC STABILITY AND PERFORMANCE AT HYPERSONIC MACH NO. OF 10	FORCE	0.0075 / 10.3 -	LARC / RC CONTINUOUS-FLOW HYPERSONIC TUNNEL	T. BLACKSTOCK /LA V. W. SPARKS J. R. ZILER	DMS-DR-2008 REVISION 01 MAY, 1973

WIND TUNNEL TEST / DMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE/MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC 66SWT 630 OA3 CR-128,761	AERODYNAMIC CHARACTERISTICS OF THE ROCKWELL INTERNATIONAL ORBITER OA #3 AT MACH NUMBERS FROM 0.6 TO 2.0	SHUTTLE ORBITER ORBITER, EXTERNAL TANK, AND SOLID ROCKET BOOSTER ON A 0.004 SCALE ASCENT CONFIGURATION	GEOMETRIC VARIATION, LONGITUDINAL AND LATERAL-DIRECTIONAL STABILITY EFFECTS	FORCE	.015 / 0.6 - 2.0	ARC / ARC - 6-FOOT BY 6-FOOT SUPERSONIC WIND TUNNEL	4. BROWNSON /ARC - T. FAINE /NR - J. FRICKEN /NSI - DMS	DMS-DR-2009 JUNE, 1973
MSFC 14TWT 545 1A1B CR-120,060	DETERMINATION OF AERODYNAMIC INTERFERENCE BETWEEN THE SPACE SHUTTLE (ATP CONFIGURATION)	NR ATP ORBITER/TANK AND SRMS ON AN ORBITER, EXTERNAL TANK, AND SOLID ROCKET BOOSTER ON A 0.004 SCALE ASCENT CONFIGURATION	AERODYNAMIC CHARACTERISTICS DURING SEPARATION	FORCE	0.004 / 0.60 - 4.96	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	P. RAMSEY / MSFC - R. BUCHHOLZ /LM - E. ALLEN /RI - J. DEHART/NSI - V. W. SPARKS - J. R. ZILER - DMS	DMS-DR-2010 MAY, 1973
MSFC 14TWT 558 MA9F CR-120,089	SPACE SHUTTLE (ATP CONFIGURATION) ABORT STAGING INVESTIGATION	NR ATP ORBITER/EXTERNAL TANK AND SRBS	BASELINE SEPARATION	FORCE	0.004 / 0.9 - 2.0	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	J. RAMPY /NSI - K. BLACKWELL / MSFC - E. ALLEN /RI - I. FOSSLER/MSC - V. W. SPARKS - J. R. ZILER - DMS	DMS-DR-2011 APRIL, 1973
MSFC 14TWT 554 SA1F CR-120,090	AERODYNAMIC CHARACTERISTICS OF A 1/62-INCH DIAMETER SRB (PRR) WITH AND WITHOUT STRAKES	DETERMINE STATIC AERODYNAMIC CHARACTERISTICS OF 162-INCH DIAMETER SRB (PRR) WITH AND WITHOUT STRAKES	FORCE	0.0049 / 0.6 - 3.48	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	JOSH JOHNSON /MSFC - C - W. D. RADFORD/NSI - J. RAMPY /NSI - V. W. SPARKS - J. R. ZILER - DMS	DMS-DR-2012 APRIL, 1973

WIND TUNNEL TEST / DMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - UPWT - 1007 /OA7 CR-128,753	RESULTS OF SUPERSONIC TESTS IN THE NR-PRR SPACE SHUTTLE ORBITER	NR PRR-SSV ORBITER IN THE LARC UNITARY PLAN WIND TUNNEL ON A .015 SCALE MODEL	SUPERSONIC AERODYNAMIC CHARACTERISTICS CONTROL EFFECTIVENESS MODEL COMPONENT EFFECTS WING AREA-THICKNESS SS SURVEYS	FORCE	0.015 / 2.5 - 4.6	LARC / LARC - UNITARY PLAN WIND TUNNEL	B. SPENCER, R. MENNELL /NR J. E. VAUGHN B. J. FRICKEN -DMS	DMS-DR-2014 MARCH, 1973
LTV - HSWT - 458 /IA4 CR-120,091	AERODYNAMIC RESULTS OF SEPARATION TESTS IN THE VOUGHT AERONAUTICS 4FT HSWT ON A .03 SCALE ROCKWELL INTERNATIONAL-ATP SHUTTLE INTEGRATED VEHICLE	NASA SSV ORBITER ON NR ECHT WITH SINGLE BSRM	EFFECTS OF BSRM SEPARATION ON LONGITUDINAL AND LATERAL-DIRECTIONAL STABILITY AND CONTROL CHARACTERISTICS	FORCE	0.0075 / 2.4 - 4.39	LTV / MSC / LTV - HIGH SPEED WIND TUNNEL	P. ROMERE, C. ZIEGLER /MSC J. RILEY, J.S. PRIGGE /ROCKWELL J. E. VAUGHN B. J. FRICKEN -DMS	DMS-DR-2015 VOLUME 01 JULY, 1973
LTV - HSWT - 458 /IA4 CR-120,091	AERODYNAMIC RESULTS OF SEPARATION TESTS ON THE VOUGHT AERONAUTICS 4FT X 4FT HSWT ON A .0075 SCALE ROCKWELL INTERNATIONAL-ATP SHUTTLE INTEGRATED VEHICLE	NASA SSV ORBITER ON NR ECHT WITH SINGLE BSRM	EFFECTS OF BSRM SEPARATION ON LONGITUDINAL AND LATERAL-DIRECTIONAL STABILITY AND CONTROL CHARACTERISTICS	FORCE	0.0075 / 2.4 - 4.39	MSC / LTV - HIGH SPEED WIND TUNNEL	P. ROMERE, C. ZIEGLER /MSC - J. RILEY, J. S. PRIGGE /ROCKWELL J. E. VAUGHN B. J. FRICKEN -DMS	DMS-DR-2015 VOLUME 02 JULY, 1973
NRLAD - LSWT - 669 /OA2 CR-120,092	RESULTS OF INVESTIGATIONS ON A 0.04 .405 SCALE MODEL OF THE NR-SSV ORBITER IN THE NORTH AMERICAN AERONAUTICAL LABORATORY LOW SPEED WIND TUNNEL	NR ATP ORBITER	SUBSONIC AERODYNAMIC CHARACTERISTICS	FORCE	0.0405 / 0.165- 0.26	NR / NRLAD - LOW SPEED WIND TUNNEL	R. MENNELL /NR R. SINGELLTON -DMS	DMS-DR-2016 APRIL, 1973

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
NRLAD LSWT 690 OA5 CR-123,851	- RESULTS OF INVEST - IGATIONS ON A 0.0 /405 SCALE MODEL P RR VERSION OF THE NR-SSV ORBITER IN THE NORTH AMERIC AN AERONAUTICAL L ABORATORY LOW SPE ED WIND TUNNEL	NR ATP ORBITER	SUBSONIC AERODYNA MIC CHARACTERISTI CS	FORCE	0.0405 / 0.165-0.26	NR / NRLAD - LOW SPEED WIND TUNNEL	R. KINGSLAND /NR R. SINGELLTON - DMS	DMS-DR-2017 APRIL, 1973
NRLAD LSWT 693 1A3 CR-128,755	- CROSS WIND LOADS - INVESTIGATION OF /A .01925 SCALE MO DEL OF THE ATP-SS V LAUNCH CONFIGUR ATION	ATP LAUNCH CONFIG URATION	CROSSWIND LOADS	FORCE	0.01925 / 0.069-0.25	NR / NRLAD - LOW SPEED WIND TUNNEL	L.S. KATOW /RI T. L. MULKEY S. W. BROWN - DMS	DMS-DR-2018 JUNE, 1973
NRLAD LSWT 694 OA6 CR-128,756	- LOW SPEED LONGITU - DINAL AND LATERAL STABILITY CHARAC TERISTICS OF A FR FRR SHUTTLE ORBIT ER CONFIGURATION	ATP AND FRR ORBIT	INVESTIGATE CONFI GURATION VARIABLE S TO IMPROVE TOUC HDOWN LIFT CAPABILITIES	FORCE	0.0405 / 0.165-0.26	NR / NRLAD - LOW SPEED WIND TUNNEL	R. B. KINGSLAND/R OCKWELL T. L. MULKEY D. A. SARVER - DMS	DMS-DR-2019 JUNE, 1973
NRLAD LSWT 696 OA9 CR-128,757	- LOW SPEED INVESTI - GATION OF THE FRR /PLANFORM WING BO TH IN AND OUT OF GROUND EFFECT	FRR ORBITER	OPTIMIZE FRR PLAN FORM WING IN AND OUT OF GROUND EFF ECT	FORCE	0.0405 / 0.16 - 0.26	NR / NRLAD - LOW SPEED WIND TUNNEL	R. B. KINGSLAND, L. KATOW /RI D. A. SARVER - DMS	DMS-DR-2020 JUNE, 1973
NRLAD LSWT 699 OA45 CR-128,758	- PRESSURE LOADS AN - D AERODYNAMIC FOR CE INFORMATION FO R THE -89A SPACE SHUTTLE ORBITER C ONFIGURATION	-89A ORBITER	PRESSURE LOADS DA TA IN GROUND EFFE CT	PRESSURE	0.2 - 0.2	NR / NRLAD - LOW SPEED WIND TUNNEL	R. MENNELL /ROCKW ELL H. C. ZIMMERLE - DMS	DMS-DR-2021 VOLUME 01 NOV., 1973

WIND TUNNEL TEST / DMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
NRLAD - LSWT - 699 /OA45 CR-128,758	PRESSURE LOADS AN-89A D AERODYNAMIC FOR CE INFORMATION FO R THE -89A SPACE SHUTTLE ORBITER C ONFIGURATION	PRESSURE LOADS DA TA IN GROUND EFFE CT	PRESSURE	0.2 - 0.2	NR / NRLAD - LOW SPEED WIND TUNNEL	R. MENNELL /ROCKW -DMS H. C. ZIMMERLE -DMS	DMS-DR-2021 VOLUME 02 OCT., 1973
NRLAD - LSWT - 698 /OA10 CR-128,759	AERODYNAMIC CHARA CTERISTICS OF THE IONAL -89B ORBITE R ROCKWELL INTERNA TIONAL -89B SPACE SHUTTLE ORBITER CONFIGURATION	LONGITUDINAL AND LATERAL-DIRECTION AL STABILITY LEVE LS	FORCE	0.0405 / 0.16 - 0.26	NR / NRLAD - LOW SPEED WIND TUNNEL	R. B. KINGSLAND /-DMS RI T. L. MULKEY S. W. BROWN -DMS	DMS-DR-2022 JUNE, 1973
LARC - 22HT - 411 LA2 CR-128,763	STATIC AERODYNAMI C CHARACTERISTICS AND OIL FLOW AND ELECTRON BEAM RESULTS OF A 0.00 5 SCALE MODEL LAN GLEY CONCEPT SPAC E SHUTTLE ORBITER (LO-100) AT A MAC H NUMBER OF 20.3	LO-100 ORBITER DETERMINE HYPERSO NIC PERFORMANCE, STATIC STABILITY AND CONTROL EFFECTIVENESS AND EXAMINE FLOW ABO UT THE LO-100 ORB ITER	FORCE	0.0050 / 20.30- 20.30	LARC / LARC - 22-INCH HELIUM TUNNEL	D. STONE /LARC V. W. SPARKS D. A. SARVER -DMS	DMS-DR-2023 JUNE, 1973
ARC - 11TWT - 686 /IA7 CR-128,766	WIND TUNNEL TEST 040A SPACE SHUTTL E INTEGRATED VEHI CLE A) JET PLUME SPAC E SHUTTLE INTEGRA TED VEHICLE IN TH E ARC 11-FOOT UNI TARY WIND TUNNEL	STABILITY AND CON TROL DATA, WING P RESSURE AND NOZZL E PRESSURE DISTRI BUTIONS	FORCE PRESSURE	0.019 / 0.9 - 1.2	ARC / ARC - NIC WIND TUNNEL (UNITARY)	R. B. HARDIN /RI T. L. MULKEY W. M. HALE -DMS	DMS-DR-2024 AUGUST, 1973
MSFC - 14TWT - 565 SA3F CR-128,767	AERODYNAMIC CHARA CTERISTICS OF A 1 SRB WITH AND WIT H 42-INCH DIAMETER SOLID ROCKET BOOSTER WITH AND WITHOUT STRAKES	42-INCH DIAMETER DETERMINATION OF STATIC AERODYNAMI C FORCES AND MOME NTS WITH COMPONEN T BUILD-UP	FORCE	0.00563 / 0.6 - 3.48	MSFC / MSFC - 14-INCH TRISON IC WIND TUNNEL	JOSH D. JOHNSON /-DMS NASA/MSFC WALTER D. RADFORD /NSI V. W. SPARKS A. T. KAVANAUGH -DMS	DMS-DR-2025 MAY, 1973

WIND TUNNEL TEST / DMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE* MACH RANGE*	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
MSFC - 14TWT - 566 /IA31F CR-128,778	ARCODYNAMIC INVESTIGATIONS ON A 0.04 SCALE MODEL MCR 0074 BASELINE UTTLE LAUNCH VEHICLE AT MACH NO. BETWEEN 0.6 AND 4.96	BASELINE SPACE SHUTTLE LAUNCH VEHICLE	DETERMINE THE EFFECTS OF MODEL PARAMETRIC VARIATIONS ON AERODYNAMIC STATIC STABILITY CHARACTERISTICS OVER A MACH NO. RANGE OF 0.6 TO 4.96	FORCE	0.004 / 0.6 2-.2	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL/NORTHROP	PAUL RAMSEY/MSFC - M. K. ROBERTSON - B. W. MYERS - DMS	DMS-DR-2026 SEPT., 1973
MSFC - 14TWT - 568 /OA47 CR-128,765	RESULTS OF A STATIC STABILITY AND CONTROL EFFECTIVENESS INVESTIGATION OF A 0.004 SCALE 2A ORBITER IN THE MARSHALL SPACE FLIGHT CENTER TRISONIC WIND TUNNEL (MACH= 0.6 - 4.96)	2A ORBITER WITH SYMETRICAL WING ORBITER BUILDUP	DETERMINE STATIC STABILITY AND CONTROL EFFECTIVENESS	FORCE	0.004 / 0.6 - 4.96	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL/ROCKWELL	E.C. ALLEN, T. TUTTLE, T. FOSTER / J. E. VAUGHN - W. R. MORGAN - DMS	DMS-DR-2029 MAY, 1973
NRLAD - LSWT - 700 /OA14 128,768 CR-128,768	AERODYNAMIC CHARACTERISTICS OF VARIOUS AFT-END CONFIGURATIONS OF THE ROCKWELL INTERNATIONAL -89B SPACE SHUTTLE ORBITER	-89B ROCKWELL INTERNATIONAL SPACE SHUTTLE ORBITER AFT-END CONFIGURATION EFFECTS ON LIFT, DRAG AND PITCHING MOMENT	DETERMINE	FORCE	0.0405 / 0.16 -	NR / NRLAD - LOW SPEED WIND TUNNEL	R. B. KINGSLAND / RI T. L. MULKEY W. M. HALE - DMS	DMS-DR-2030 AUGUST, 1973
LARC - CFHT - 85 /LA3 CR-128,769	HYPERSONIC PERFORMANCE, STABILITY AND CONTROL CHARACTERISTICS OF A 0.010 SCALE MODEL OF A LANGLEY CONCEPT SPACE SHUTTLE ORBITER	LO-100 ORBITER ELEVON AND BODY FLAP EFFECTIVENESS	DETERMINE	FORCE	0.010 / 10.3 -	LARC / LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL	PETER T. BERNOT / V. W. SPARKS S. W. BROWN - DMS	DMS-DR-2031 JUNE, 1973

WIND TUNNEL TEST / DMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC 11TWT 87SWT 707 IA9 OA12 CR-128,794	RESULTS OF TESTS OF THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS	TO OBTAIN AERODYNAMIC LOADS ON LAUNCH VEHICLE	FORCE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	H. C. ZIMMERLE - DMS / RI	GILLENS, SPANGLER	DMS-DR-2032 VOLUME 01 NOV., 1973
ARC 11TWT 87SWT 707 IA9 OA12 CR-128,794	RESULTS OF TESTS OF THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS	TO OBTAIN AERODYNAMIC LOADS ON LAUNCH VEHICLE	FORCE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	H. C. ZIMMERLE - DMS / RI	GILLENS, SPANGLER	DMS-DR-2032 VOLUME 02 NOV., 1973
ARC 11TWT 87SWT 707 IA9 OA12 CR-128,794	RESULTS OF TESTS OF THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS	TO OBTAIN AERODYNAMIC LOADS ON LAUNCH VEHICLE	FORCE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	H. C. ZIMMERLE - DMS / RI	GILLENS, SPANGLER	DMS-DR-2032 VOLUME 03 OCT., 1973

WIND TUNNEL TEST / DMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 67SWT - 7D7 - IA9 - OA12 - CR-128,794	RESULTS OF TESTS ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS	17-OTS OA12 AND IA9 IN THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS	TO OBTAIN AERODYNAMIC LOADS ON LAUNCH VEHICLE	PRESSURE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	GILLENS, SPANGLER / H. C. ZIMMERLE	DMS-DR-2032 VOLUME 04 DEC., 1973
ARC - 11TWT - 67SWT - 7D7 - IA9 - OA12 - CR-128,794	RESULTS OF TESTS ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS	17-OTS OA12 AND IA9 IN THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS	TO OBTAIN AERODYNAMIC LOADS ON LAUNCH VEHICLE	PRESSURE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	GILLENS, SPANGLER / H. C. ZIMMERLE	DMS-DR-2032 VOLUME 05 DEC., 1973
ARC - 11TWT - 67SWT - 7D7 - IA9 - OA12 - CR-128,794	RESULTS OF TESTS ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS	17-OTS OA12 AND IA9 IN THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS	TO OBTAIN AERODYNAMIC LOADS ON LAUNCH VEHICLE	PRESSURE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	GILLENS, SPANGLER / H. C. ZIMMERLE	DMS-DR-2032 VOLUME 06 DEC., 1973

WIND TUNNEL TEST / DMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 87SWT - 707 - IA9 - OA12 - CR-128,794	RESULTS OF TESTS ON A 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS	17-OTS	TO OBTAIN AERODYNAMIC LOADS ON LAUNCH VEHICLE	PRESSURE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	GILLENS, SPANGLER H. C. ZIMMERLE DMS-DR-2032 VOLUME 07 DEC., 1973	
ARC - 11TWT - 87SWT - 707 - IA9 - OA12 - CR-128,794	RESULTS OF TESTS ON A 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS	17-OTS	TO OBTAIN AERODYNAMIC LOADS ON LAUNCH VEHICLE	PRESSURE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	GILLENS, SPANGLER H. C. ZIMMERLE DMS-DR-2032 VOLUME 08 DEC., 1973	
ARC - 11TWT - 87SWT - 707 - IA9 - OA12 - CR-128,794	RESULTS OF TESTS ON A 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS	17-OTS	TO OBTAIN AERODYNAMIC LOADS ON LAUNCH VEHICLE	PRESSURE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	GILLENS, SPANGLER H. C. ZIMMERLE DMS-DR-2032 VOLUME 09 JAN., 1974	

WIND TUNNEL TEST [illegible] DMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE *MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC *PUBLICATIONS OR COMMENTS
ARC 11TWT 87SWT 7U7 IA9 OA12 CR-128,794	- *RESULTS OF TESTS *17-OTS - *OA12 AND IA9 IN T* - *HE AMES RESEARCH * /*CENTER UNITARY * *PLAN WIND TUNNELS* *ON AN 0.030-SCAL * *E MODEL OF THE SP* *ACE SHUTTLE * *VEHICLE 2A TO DET* *ERMINE AERODYNAMI* *C LOADS * *	*TO OBTAIN AERODYN* *AMIC LOADS ON LAU* *NCH VEHICLE	*PRESSURE	* 0.030 * 0.6 - *1.4	/ *ARC / *ARC - */RI *11-FOOT TRANSO* *NIC WIND TUNNE* *L (UNITARY) * *8-FOOT BY 7-FO* *OT SUPERSONIC * *WIND TUNNEL (U* *NITARY)	*GILLENS, SPANGLER* *H. C. ZIMMERLE	*DMS-DR-2032 *VOLUME 10 *JAN., 1974 *-DMS
ARC 11TWT 87SWT 7U7 IA9 OA12 CR-128,794	- *RESULTS OF TESTS *17-OTS - *OA12 AND IA9 IN T* - *HE AMES RESEARCH * /*CENTER UNITARY * *PLAN WIND TUNNELS* *ON AN 0.030-SCAL * *E MODEL OF THE SP* *ACE SHUTTLE * *VEHICLE 2A TO DET* *ERMINE AERODYNAMI* *C LOADS * *	*TO OBTAIN AERODYN* *AMIC LOADS ON LAU* *NCH VEHICLE	*PRESSURE	* 0.030 * 0.6 - *1.4	/ *ARC / *ARC - */RI *11-FOOT TRANSO* *NIC WIND TUNNE* *L (UNITARY) * *8-FOOT BY 7-FO* *OT SUPERSONIC * *WIND TUNNEL (U* *NITARY)	*GILLENS, SPANGLER* *H. C. ZIMMERLE	*DMS-DR-2032 *VOLUME 11 *JAN., 1974 *-DMS
ARC 11TWT 87SWT 7U7 IA9 OA12 CR-128,794	- *RESULTS OF TESTS *17-OTS - *OA12 AND IA9 IN T* - *HE AMES RESEARCH * /*CENTER UNITARY * *PLAN WIND TUNNELS* *ON AN 0.030-SCAL * *E MODEL OF THE SP* *ACE SHUTTLE * *VEHICLE 2A TO DET* *ERMINE AERODYNAMI* *C LOADS * *	*TO OBTAIN AERODYN* *AMIC LOADS ON LAU* *NCH VEHICLE	*PRESSURE	* 0.030 * 0.6 - *1.4	/ *ARC / *ARC - */RI *11-FOOT TRANSO* *NIC WIND TUNNE* *L (UNITARY) * *8-FOOT BY 7-FO* *OT SUPERSONIC * *WIND TUNNEL (U* *NITARY)	*GILLENS, SPANGLER* *H. C. ZIMMERLE	*DMS-DR-2032 *VOLUME 12 *JAN., 1974 *-DMS

WIND TUNNEL TEST / DMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC UPWT 995 1014 LA4 CR-128,772	- SUPERSONIC STABILITY AND CONTROL CHARACTERISTICS OF A LANGLEY CONCEPT SPACE SHUTTLE ORBITER AT MACH 1.5 TO 4.63	LO-100 ORBITER	SUPERSONIC STABILITY CHARACTERISTICS	FORCE	0.01 / 1.5 - 4.63	LARC / LARC - UNITARY PLAN WIND TUNNEL	D.R.STONE/LARC,B.SPENCER/NR, R. SINGELLTON -DMS	DMS-CR-2033 JULY, 1973
LARC 22HT 405 LA22 CR-128,764	- AERODYNAMIC AND FLOW VISUALIZATION STUDIES ON A SPACE SHUTTLE CONCEPT WITH A DOUBLE DELTA WING ORBITER AT A MACH NUMBER OF 20.3	DOUBLE DELTA WING ORBITER	LONGITUDINAL AND LATERAL-DIRECTIONAL CHARACTERISTICS, AND CONTROL EFFECTIVENESS AS WELL AS FLOW VISUALIZATION STUDIES	FORCE	0.004 / 20.3 -	LARC / LARC - 22-INCH HELIUM TUNNEL	W.C. WOODS, DAVID R. STONE, JAMES F. ARRINGTON /LARC J. E. VAUGHN S. W. BROWN -DMS	DMS-CR-2034 JULY, 1973
LARC 22HT 413 LA5 CR-128,775	- AERODYNAMIC AND FLOW-VISUALIZATION STUDIES ASSOCIATED WITH VARIATIONS IN THE GEOMETRY OF THE FORWARD PORTION OF IRREGULAR PLANFORM WINGS AT A MACH NUMBER OF 20.3	LARC LO-100 ORBIT	DEFINE THE EFFECTS OF WING-FILLET AND WING LEADING-EDGE SWEEP ANGLES AT HYPERSONIC SPEEDS	FORCE	.0040 / 20.3	LARC / LARC - 22-INCH HELIUM TUNNEL	DAVID R. STONE /NASA LARC D. E. FOUCHER -DMS	DMS-CR-2036 AUGUST, 1973
LARC 6TPT 643 LA6 CR-128,773	- SURFACE ROUGHNESS EFFECTS ON THE TRANSONIC AERODYNAMICS OF THE ROCKWELL INTERNATIONAL B89B-139 ORBITER	NAR 089-B-139 ORB	SURFACE ROUGHNESS EFFECTS ON TRANSONIC AERODYNAMICS	FORCE	0.0188 / .35- 1.2	LARC / LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL	G.M. WARE, B. SPENCER /NCER /LARC W. R. MORGAN B. W. MYERS -DMS	DMS-CR-2040 AUGUST, 1973

WIND TUNNEL TEST / DMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - 6TPT - 644 / LA7 CR-128,781	TRANSONIC AERODYN AMIC CHARACTERIST ICS ASSOCIATED WI TH VARIATIONS IN THE GEOMETRY OF THE FORWARD PORTION OF IRREGULAR PLANFORM WINGS	LARC LO-100 ORBIT ER (SHIPS)	TRANSONIC AERODYN AMIC CHARACTERIST ICS ASSOCIATED WI TH VARIATIONS IN THE GEOMETRY OF THE FORWARD PORTION OF IRREGULAR PLANFORM WINGS	FORCE	0.010 - 0.35 - 1.2	/ LARC - LARC - 8-FOOT TRANSON IC PRESSURE TU NNEL	/ BERNARD SPENCER, J R. /NASA LARC D. E. POUCHER -DMS	DMS-DR-2041 OCT., 1973
LARC - 6VDHT - 624 / LA16 CR-128,770	HEAT TRANSFER DAT A TO CAVITIES BET WEEN SIMULATED RS I TILES AT MACH 8	RSI TILES,ORBITER	HEAT TRANSFER DAT A FOR RSI TILES	HEAT-TRANS	1.00 - 8.0 -	/ LARC - LARC - MACH 8 VARIABL E-DENSITY HYPE RSONIC TUNNEL	/ C. B. JOHNSON /LA RC W. M. HALE -DMS	DMS-DR-2043 JUNE, 1973
ARC - 3.5HWT - 157 / OA11A CR-128,786	RESULTS OF INVEST IGATIONS ON A 0.04 /15-SCALE MODEL 2A CONFIGURATION OF THE ROCKWELL INTERNATIONAL SPACE SHUTTLE ORBITER IN THE NASA/AMES RESEARCH CENTER 3.5 FOOT HYPERSONIC WIND TUNNEL	SHUTTLE ORBITER 2	DETERMINE LONGITU DINAL AND LATERAL -DIRECTIONAL STAB ILITY ESTABLISH TRIM CA FABILITY	FORCE	.015 - 5.27 - 7.32	/ ARC - ARC - 3.5-FOOT HYPER SONIC WIND TUN NEL	/ MORRIS D. MILAM/R OCKWELL JACK A. MELLENTHI N/NASA AMES B. J. FRICKEN -DMS	DMS-DR-2044 OCT., 1973
NRLAD - LSWT - 704 / OA18 CR-128,779	RESULTS OF INVEST IGATIONS (OA18) OF A 0.0405 SCALE MODEL OF THE 2A AND 3 SPACE SHUTTLE ORBITER CONFIGURATIONS IN THE NORTH AMERICAN AERONAUTICAL LABORATORY LOW SPEED WIND TUNNEL AT M = 0.26 AND 0.16	ROCKWELL SSV ORBI	OBTAIN SIX COMPON ENT FORCE DATA AND ELEVON HINGE MOMENT DATA	FORCE	0.0405 - 0.16 - 0.26	/ NR - NRLAD - LOW SPEED WIND TUNNEL	/ D.G.WALSTAD /NR D. E. POUCHER -DMS	DMS-DR-2045 SEPT., 1973

WIND TUNNEL TEST / DMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE* MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - 8TPT - 648 /LA17 CR-128,776	AERODYNAMIC STABILITY AND CONTROL CHARACTERISTICS OF A LANGLEY CONCEPT SPACE SHUTTLE ORBITER (LO-100) AT MACH NUMBERS OF 0.35 TO 1.2	LARC LO-100 ORBITER	TRANSONIC AERODYNAMIC PERFORMANCE, STABILITY AND CONTROL EFFECTIVENESS	FORCE	0.35 - 1.2	LARC / LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL	BERNARD SPENCER, J. R. /NASA LARC D. E. FOUCHER -DMS	DMS-DR-2046 AUGUST, 1973
LARC - 8VDHT - 3619/3670/ OH40 CR-128,771	AERODYNAMIC HEATING OF A SPACE SHUTTLE DOUBLE DELTA WING ORBITER AT MACH NUMBER 8.0	NR 2A ORBITER	DETERMINATION OF HEATING EFFECTS FOR LAMINAR THROUGH TURBULENT FLIGHT REGIMES DURING REENTRY.	FORCE	.006 / 8.0	LARC / LARC - MACH 8 VARIABLE-DENSITY HYPERSONIC TUNNEL	H. GOROWITZ/ROCKW ELL R. WHITE/GAC A. T. KAVANAUGH -DMS	DMS-DR-2049 JULY, 1973
ARC - 66SWT - 706 OA43 CR-128,790	WIND TUNNEL TEST OF THE 0.15-SCALE ROCKWELL INTERNATIONAL SPACE SHUTTLE VEHICLE ORBITER IN THE AMES 6-FOOT SUPERSONIC WIND TUNNEL	ROCKWELL SSV 2A ORBITER	LONGITUDINAL AND LATERAL-DIRECTIONAL CHARACTERISTICS, RUDDER AND ELEVON HINGE MOMENTS	FORCE	0.015 / 0.6 - 2.0	ARC / ARC - 6-FOOT BY 6-FOOT SUPERSONIC WIND TUNNEL	M. D. MILAM, T. J. DZIUBALA /RE K. C. ENDICOTT /ARO M. J. LANFRANCO S. W. BROWN -DMS	DMS-DR-2050 - NOV., 1973
MSFC - 14TWT - 572 SASF CR-128,774	AERODYNAMIC CHARACTERISTICS OF A 1% SCALE MODEL NO.449 42-INCH DIAMETER SOLID ROCKET BOOSTER (CONFIGURATIONS 89B AND 139)	BOOSTER MSFC MODEL	TO OBTAIN FORCE AND MOMENT DATA TO INPUT IN COMPUTER PROGRAM TO DETERMINE THE RATE OF DECELERATION AND THE ATTITUDE OF THE SRB'S DURING FREE-FALL	FORCE	0.00563 / 0.6 - 3.48	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	V. W. SPARKS D. E. FOUCHER -DMS	DMS-DR-2051 AUGUST, 1973

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE* MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - CR-128,791	SUPERSONIC AERODYNAMIC CHARACTERISTICS OF THE FORWARD PORTION OF IRREGULAR PLANFORM WINGS	LO-100 ORB (SHIPS) (BW2VFB)	EFFECTS OF GEOMETRY ON SUPERSONIC AERODYNAMIC CHARACTERISTICS ON PLANFORM WINGS	FORCE	0.01875 / 2.36-4.63	LARC / LARC - UNITARY PLAN WIND TUNNEL	D. R. STONE, B. SPENSER /LARC W. R. MORGAN B. W. MYERS -DMS	DMS-DR-2052 NOV., 1973
NRLAD - LSWT - 705 - OA21A - 12 - CR-8,792	EXPERIMENTAL INVESTIGATIONS OF AN 0.0405 SCALE SPACE SHUTTLE CONFIGURATION 3 ORBITER TO DETERMINE SUBSONIC STABILITY CHARACTERISTICS (OA21)	ORBITER 3	INVESTIGATE THE LONGITUDINAL AND LATERAL-DIRECTIONAL SUBSONIC AERODYNAMIC CHARACTERISTICS OF THE ROCKWELL INTERNATIONAL PROPOSED FRR SPACE SHUTTLE ORBITER	FORCE	0.0405 / NR / NRLAD - LOW SPEED WIND TUNNEL	B. W. CAMERON AND A. J. RITSCHEL / ROCKWELL INTERNATIONAL D. A. SARVER B. W. MYERS -DMS	DMS-DR-2053 VOLUME 01 DEC., 1973
LARC - UPWT - 1023/1034/ LA8A - LA8B - CR-128,796	SURFACE ROUGHNESS EFFECTSON THE SUPERSONIC AERODYNAMICS OF THE ROCKWELL INTERNATIONAL 0898-139 ORBITER	NR ORBITER		FORCE	0.188 / LARC / LARC - UNITARY PLAN WIND TUNNEL	G.M. WARE , BERNARD SPENCER JR. /LARC J. E. VAUGHN B. W. MYERS -DMS	DMS-DR-2054 NOV., 1973
MSFC - 14TWT - 574 - OA48 - CR-128,780	STATIC STABILITY AND CONTROL EFFECTIVENESS OF MODELS 12-0 AND 34-0 OF THE VEHICLE 3 CONFIGURATIONS	ORBITER 139 ORBITER 139B	TO DETERMINE THE STATIC STABILITY AND CONTROL EFFECTIVENESS OF MODELS 12-0 AND 34-0	FORCE	0.004 / .6 - 4.96	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	E.C. ALLEN/ROCKWELL TERRY TUTTLE/ROCKWELL W. R. MORGAN B. J. FRICKEN -DMS	DMS-DR-2055 VOLUME 01 SEPT., 1973

WIND TUNNEL TEST / DMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
MSFC - 14TWT - 574 OA48 CR-128,780	STATIC STABILITY AND CONTROL EFFECTIVENESS OF MODEL 5 12-0 AND 34-0 OF THE VEHICLE 3 CONFIGURATIONS	ORBITER 139 ORBITER 139B	TO DETERMINE THE STATIC STABILITY AND CONTROL EFFECTIVENESS OF MODEL 12-0 AND 34-0	FORCE	0.004 / .6 - 4.96	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	E.C. ALLEN/ROCKWELL W. R. MORGAN B. J. FRICKEN -DMS	DMS-DR-2055 VOLUME 02 SEPT., 1973
MSFC - 14TWT - 574 OA48 CR-128,780	STATIC STABILITY AND CONTROL EFFECTIVENESS OF MODEL 5 12-0 AND 34-0 OF THE VEHICLE 3 CONFIGURATIONS	ORBITER 139 ORBITER 139B	TO DETERMINE THE STATIC STABILITY AND CONTROL EFFECTIVENESS OF MODEL 12-0 AND 34-0	FORCE	0.004 / .6 - 4.96	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	E.C. ALLEN/ROCKWELL W. R. MORGAN B. J. FRICKEN -DMS	DMS-DR-2055 VOLUME 03 NOV., 1973
LARC - LTPT - 130 LA9 CR-128,782	SURFACE ROUGHNESS EFFECTS ON THE SUBSONIC AERODYNAMICS OF THE ROCKWELL INTERNATIONAL 0 089B-139 ORBITER	NAR 089B-MOD NOSE EFFECTS ON TRANS ONIC AERODYNAMICS	SURFACE ROUGHNESS EFFECTS ON TRANSONIC AERODYNAMICS	FORCE	0.01875 /	LARC / LARC - LOW-TURBULENCE PRESSURE TUNNEL	G. M. WARE AND BERNARD SPENCER, JR./LARC M. D. MILAM/ROCKWELL J. E. VAUGHN B. W. MYERS -DMS	DMS-DR-2056 NOV., 1973
NRLAD - 7TWT - 276 OA68 CR-128,789	SUBSONIC, TRANSONIC, AND SUPERSONIC STABILITY AND CONTROL CHARACTERISTICS OF THE -14 7B SPACE SHUTTLE ORBITER	VL70-000139B (MOD NO. 42-0) VL70-000147B (MOD NO. 49-0)	STABILITY AND CONTROL CHARACTERISTICS	FORCE	0.015 / .6 - 3.0	NR / NRLAD - 7-FOOT TRISONIC WIND TUNNEL	R. C. MENNELL /RI DMS -DMS	DMS-DR-2061 DEC., 1973

WIND TUNNEL TEST / DMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
MSFC - 14TWT - 579/580 1A37 1A48 CR-128,788	RESULTS OF TESTS IN THE MSFC 14X14 /14-INCH TRISONIC WIND TUNNEL ON A .004 SCALE MODEL OF THE ROCKWELL INTERNATIONAL SPACE SHUTTLE VEHICLE 3, (INTEGRATED CONFIGURATION)	INTEGRATED VEHICL	STATIC STABILITY, INTERFERENCE EFF ECTS	FORCE	0.004 / 0.6 - 4.96	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	E. C. ALLEN, T. H. VAUGHN, A. T. KAVANAUGH -DMS	DMS-DR-2063 AMILTON /ROCKWELL NOV., 1973
LARC - CFHT - 96 LA11 CR-128,783	HYPERSONIC PERFORMANCE, STABILITY AND CONTROL CHARACTERISTICS OF A .0075 SCALE MODEL OF THE ROCKWELL INTERNATIONAL 089-139 ORBITER CONFIGURATION	SPACE SHUTTLE ORB ITER 089B-139	TO DETERMINE HYPERSONIC AERODYNAMIC CHARACTERISTICS OF SHUTTLE ORBITER	FORCE	0.0075 / 10.3 -	LARC / LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL	R.W.POWELL/NASA LARC ARC T.A.BLACKSTOCK/NASA J. E. VAUGHN B. J. FRICKEN -DMS	DMS-DR-2066 NOV., 1973
LARC - 26TBT - 544 OS2 CR-128,777	FLUTTER TESTS (OS#2) OF THE SHUTTLE ORBITER FIN/RUDDER (24-0)	(OS#0.025 SCALE MODEL OF SPACE SHUTTLE ORBITER MODEL 24-0	ACQUISITION OF EXPERIMENTAL FLUTTER BOUNDARY DATA IN THE TRANSONIC FLIGHT REGION TO SUPPORT ANALYTICAL FLUTTER PREDICTIONS	FORCE	0.025 / 0.6 - 1.3	LARC / LARC - 26-INCH TRANSONIC BLOWDOWN TUNNEL	J. W. FOUST/ROCKW ELL A. T. KAVANAUGH -DMS	DMS-DR-2067 AUGUST, 1973

WIND TUNNEL TEST / DMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE/MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - UPWT - 1031 MAY CR-134,074	EFFECTS OF REACTION CONTROL SYSTEM JET-FLOW FIELD INTERACTIONS ON A 0.015 SCALE MODEL SPACE SHUTTLE ORBITER AERODYNAMIC CHARACTERISTICS	PRR ORBITER	INTERFERENCE STUDY AT SUPERSONIC SPEEDS TO DETERMINE CONTROL AMPLIFICATION FACTORS RESULTING FROM JET INTERACTION BETWEEN THE RCS PLUMES AND THE EXTERNAL FLOW OVER THE VEHICLE	FORCE	0.015 / 2.5 - 4.0	LARC / LARC - UNITARY PLAN WIND TUNNEL	J.R.RAUSCH/ROCKWELL INTERNATIONAL / J. E. VAUGHN, A. T. KAVANAUGH, DMS	DMS-CR-2069 JAN., 1974
LARC - LTPT - 141 LA23 CR-128,787	EFFECT OF GASEOUS AND SOLID SIMULATED JET PLUMES ON AN 040A SPACE SHUTTLE LAUNCH CONFIGURATION AT MACH NUMBERS FROM 1.6 TO 2.2	JSC 040A ORBITER WITH EHOT AND 2 SRM	DETERMINE EFFECT OF PLUME-INDUCED FLOW SEPARATION AND ASPIRATION EFFECTS DUE TO OPERATION OF BOTH THE ORBITER AND THE SOLID ROCKET MOTORS	FORCE	0.019 / 1.6 - 2.2	LARC / LARC - LOW-TURBULENCE PRESSURE TUNNEL	J. B. DODS, JR., J. J. BROWNSON, D. L. KASSNER / ARC, K. L. BLACKWELL / MSFC, V. W. SPARKS, A. T. KAVANAUGH, DMS	DMS-DR-2070 OCT., 1973
MSFC - 14TWT - 573 IA31FC CR-134,072	MISALIGNMENT STUDIES ON SPACE SHUTTLE INTEGRATED VEHICLE	PRR BASELINE LAUNCH CONFIGURATION MCR 0074 BASELINE MODEL ELEMENTS	EFFECTS OF MODEL ELEMENT MISALIGNMENT ON TEST RESULTS	FORCE	0.9 - 1.46	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	F. RAMSEY /MSFC, T. MCMEANS, T. DAVIS / NSI, V. W. SPARKS, A. T. KAVANAUGH, DMS	DMS-DR-2072 JAN., 1974
ARC - 3.5HWT - 169 IA10 CR-128,795	WIND TUNNEL TEST OF THE 0.010-SCALE SPACE SHUTTLE INTEGRATED VEHICLE IN THE NASA-AMES 3.5-FOOT HYPERSONIC WIND TUNNEL (IA10)		EVALUATE BASIC HYPERSONIC STABILITY CHARACTERISTICS OF FIRST AND SECOND STAGE AND TO DEFINE ORBITER PLUME EFFECTS ON AERO CHARACTERISTICS USING SOLID PLUMES	FORCE	0.010 /	ARC / ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	F. F. FITZGERALD, M. T. PETROZZI/ ROCKWELL INTERNATIONAL, J. W. CLEARY, J. A. MELLENTHIN/ NASA/AMES RESEARCH CENTER, B. W. MYERS, DMS	DMS-DR-2078 JAN., 1974

WIND TUNNEL TEST / DMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 3.5HWT - 167 /OA73 CR-128,800	EFFECTS OF REACTION CONTROL SYSTEM ON ORBITER JET SIMULATION ON THE STABILITY AND CONTROL CHARACTERISTICS OF A 0.015-SCALE SPACE SHUTTLE ORBITER MODEL IN THE AMES RESEARCH CENTER 3.5-FOOT HYPERSONIC WIND TUNNEL	CONFIGURATION 3A ORBITER	ASCERTAIN THE EFFECTS OF RCS JET FLOW FIELD INTERACTIONS WITH THE LOCAL FLOW FIELD ON THE HYPERSONIC AERODYNAMIC AND STABILITY AND CONTROL CHARACTERISTICS OF THE ORBITER DURING RE-ENTRY.	FORCE	0.015 / 10.29-	ARC / ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	T.J. DZIUBALA /RO CKWELL J. MARROQUIN /RO CKWELL M. M. MANN -DMS	DMS-DR-2082 DEC., 1973
LARC - 8VCHT - 4080/4105/ 4130/4193/ OH42A OH42B OH42C CR-134,076		B17C7M4F5W103E22V 7R5 B17C7M4F5W104E22V 7R5 B17C7M4F5W106E22V 7R5H16 B17C7M4F5W106E22V 7R5H17	DETERMINE THE EFFECTS OF VARIOUS WING/UNDERBODY CONFIGURATIONS ON THE AERODYNAMIC HEATING RATES AND BOUNDARY LAYER TRANSITION DURING SIMULATED ENTRY CONDITIONS		0.00593/ 8.0 - 8.0	LARC / LARC - MACH 8 VARIABLE-DENSITY HYPERSONIC TUNNEL	R. JONES, T. CREE L, P. LAWING/NASA M. QUAN, W. DYE, J. CUMMINGS, H. GROWITZ, C. CRAIG, G. RICH/RI D. A. SARVER G. G. MCDONALD -DMS	DMS-DR-2101 JAN., 1974

WORK IN PROCESS

WIND TUNNEL TEST / CMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST CMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 97SWT - 616 /IA2 CR-128,762	EFFECT OF GASEOUS AND SOLID SIMULATED JET PLUMES ON SPACE SHUTTLE LAUNCH CONFIGURATION AT MACH NUMBERS FROM 1.6 TO 2.2	SHUTTLE ORBITER/TANK SRM (N-040A)	PLUME EFFECTS ON STABILITY AND CONTROL CHARACTERISTICS	FORCE	0.019 - 1.6 - 2.2	ARC / ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	B. J. FRICKEN /CMS-DR-2013	
MSFC - 14TWT - 567 /IA32FB		ROCKWELL MCR0074 BASELINE ASCENT CONFIGURATION	DETERMINE PRESSURE DISTRIBUTION OVER ET, SRB, ORBITER WING	PRESSURE, FORCE	0.004 - 0.6 - 4.96	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	P. E. RAMSEY /MSFC-DMS / V. W. SPARKS / W. H. HALE	CMS-DR-2027
MSFC - 14TWT - 570 /IA31FB		MCR 0074 ORBITER LAUNCH		FORCE	0.004 - 0.6 - 4.96	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	P.RAMSEY /NSI, T. DAVIS /NSI / J. E. VAUGHN / S. W. BROWN	CMS-DR-2028
ARC - 11TWT - 87SWT - 707 /IA9 OA12 CR-128,794	RESULTS OF TESTS OF A 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS	17-OTS OA12 AND IA9 IN THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS	TO OBTAIN AERODYNAMIC LOADS ON LAUNCH VEHICLE	PRESSURE	0.030 - 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY)	GILLENS, SPANGLER /CMS-DR-2032 / RI	VOLUME 13

WORK IN PROCESS
WIND TUNNEL TEST / DMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC 11TWT 87SWT 707 IA9 OA12 CR-128,794	RESULTS OF TESTS ON A 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS	17-OTS OA12 AND IA9 IN THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS	TO OBTAIN AERODYNAMIC LOADS ON LAUNCH VEHICLE	PRESSURE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	GILLENS, SPANGLER H. C. ZIMMERLE	DMS-DR-2032 VOLUME 14
ARC 11TWT 87SWT 707 IA9 OA12 CR-128,794	RESULTS OF TESTS ON A 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS	17-OTS OA12 AND IA9 IN THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS	TO OBTAIN AERODYNAMIC LOADS ON LAUNCH VEHICLE	PRESSURE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	GILLENS, SPANGLER H. C. ZIMMERLE	DMS-DR-2032 VOLUME 15
ARC 11TWT 87SWT 707 IA9 OA12 CR-128,794	RESULTS OF TESTS ON A 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS	17-OTS OA12 AND IA9 IN THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS	TO OBTAIN AERODYNAMIC LOADS ON LAUNCH VEHICLE	PRESSURE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	GILLENS, SPANGLER H. C. ZIMMERLE	DMS-DR-2032 VOLUME 16

WORK IN PROCESS

WIND TUNNEL TEST / DMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 87SWT - 707 / IA9 OA12 CR-128,794	RESULTS OF TESTS OA12 AND IA9 IN THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS	17-OTS	TO OBTAIN AERODYNAMIC LOADS ON LAUNCH VEHICLE	PRESSURE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	GILLENS, SPANGLER /RI H. C. ZIMMERLE -DMS	DMS-DR-2032 VOLUME 17
ARC - 11TWT - 87SWT - 707 / IA9 OA12 CR-128,794	RESULTS OF TESTS OA12 AND IA9 IN THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS	17-OTS	TO OBTAIN AERODYNAMIC LOADS ON LAUNCH VEHICLE	PRESSURE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	GILLENS, SPANGLER /RI H. C. ZIMMERLE -DMS	DMS-DR-2032 VOLUME 18
NRLAD - LSWT - 701 / OA16 CR-128,793	RESULTS OF LOW SPEED WIND TUNNEL TESTS ON A .0405 SCALE MODEL ROCKWELL SPACE SHUTTLE ORBITER TESTED BOTH IN FREE AIR AND IN THE PRESENCE OF A GROUND PLANE	NR ORBITER	INVESTIGATE AERODYNAMIC AND PROPULSION EFFECTS OF VARIOUS AIR BREATHING ENGINE SYSTEMS IN FORCED AIR AND IN THE PRESENCE OF THE GROUND	FORCE	0.0405 /	NR / NRLAD - LOW SPEED WIND TUNNEL	R. MENNELL, B. CAMERON/ROCKWELL INTERNATIONAL J. E. VAUGHN J. R. ZILER -DMS	DMS-DR-2038

WORK IN PROCESS

WIND TUNNEL TEST / DMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
MSFC - 14TWT - 571 IA6A CR-134,071	RESULTS OF WIND TUNNEL TESTS AT MACH 5 ON THE .004 SCALE MODEL 2A CONFIGURATION SPACE SHUTTLE TO DETERMINE PROXIMITY EFFECTS AND ORBITER CONTROL EFFECTIVENESS DURING ORBITER/EXTERNAL TANK ABORT SEPARATION	MODEL 2A ORBITER AND EXTERNAL TANK CH 5 ON THE .004 SCALE MODEL 2A CONFIGURATION SPACE SHUTTLE TO DETERMINE PROXIMITY EFFECTS AND ORBITER CONTROL EFFECTIVENESS DURING ORBITER/EXTERNAL TANK ABORT SEPARATION	DETERMINE PROXIMITY EFFECTS ON THE AERODYNAMIC FORCES AND MOMENTS EXPERIENCED BY VEHICLE 2A CONFIGURATION SHUTTLE ORBITER AND EXTERNAL TANK DURING AND ABORT SEPARATION	FORCE	.004 / 5.0 - 5.0	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL -DMS	W. P. GARTON /ROCKWELL J. E. VAUGHN A. T. KAVANAUGH	DMS-DR-2039
ARC - 9TSWT - 710 IA12B	WIND TUNNEL TEST OF THE 0.019 (2A CONFIGURATION) JET PLUME SPACE SHUTTLE INTEGRATED VEHICLE IN THE ARC 9- BY 7-FOOT UNITARY WIND TUNNEL	2A CONFIGURATION		FORCE PRESSURE	0.019 / 1.55 - 2.0	ARC / ARC - 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	R. B. HARDIN, R. BURROWS /ROCKWELL L. R. GUIST /ARC B. J. FRICKEN -DMS	DMS-DR-2048
NRLAD - LSWT - 705 OA21A 12 CR-8,792	EXPERIMENTAL INVESTIGATIONS OF AN SHUTTLE CONFIGURATION 3 ORBITER TO DETERMINE SUBSONIC STABILITY CHARACTERISTICS (OA21)	ORBITER 3 0.0405 SCALE SPACE	INVESTIGATE THE LONGITUDINAL AND LATERAL-DIRECTIONAL SUBSONIC AERODYNAMIC CHARACTERISTICS OF THE ROCKWELL INTERNATIONAL PROPOSED FRR SPACE SHUTTLE ORBITER	FORCE	0.0405 /	NR / NRLAD - LOW SPEED WIND TUNNEL	B. W. CAMERON AND A. J. RITSCHEL / ROCKWELL INTERNATIONAL D. A. SARVER B. W. MYERS -DMS	DMS-DR-2053 VOLUME 02

WORK IN PROCESS

WIND TUNNEL TEST / DMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE* MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - UPWT - 1035 /OA44	RESULTS OF AN EXPERIMENTAL AERODYNAMIC INVESTIGATION TO OBTAIN STATIC STABILITY AND CONTROL CHARACTERISTICS OF THE SSV CONFIGURATIONS 2A (VL70-000089B) AND 3 (VL70-000139B) ORBITERS AT MACH NUMBERS OF 2.5, 3.9, AND 4.6	ORBITER, MODIFIED 2A,3	STAB.AND CONTROL CHARS. OF CONFIG 2A,3 AND ALT. FOR EBODY	FORCE	0.015/ 2.5- 4.6	LARC / LARC - UNITARY PLAN WIND TUNNEL	V. ESPARZA,M. MIL-DMS / AM /ROCKWELL R. SINGELLTON -DMS	DMS-DR-2057
LARC - LTPT - 136 /OA17	RESULTS OF THE 0.015 SCALE SPACE SHUTTLE VEHICLE ORBITER TEST (OA17) IN THE NASA LOW TURBULENCE PRESSURE TUNNEL	ORBITER NAR VL70-000134B CONFIG.	OBTAIN GENERAL STABILITY AND CONTROL CHARACTERISTICS	FORCE	0.25 -	LARC / LARC - LOW-TURBULENCE PRESSURE TUNNEL	BERNARD SPENCER J. R. AND JAMES ELLISON /NASA LARC D. E. FOUCHER -DMS	DMS-DR-2058
ARC - 3.5HWT - 160 /OA11B CR-126,798	INVESTIGATIONS OF THE SPACE SHUTTLE ORBITER 2A CONFIGURATION 0.015-SCALE MODEL IN THE NASA AMES RESEARCH CENTER 3.5-FOOT HYPERSONIC WIND TUNNEL AT MACH NUMBERS 5, 7 AND 10	ORBITER 2A	DETERMINE THE FORCE, MOMENT, AND HINGE MOMENT CHARACTERISTICS OF CONFIGURATION 2A SPACE SHUTTLE VEHICLE ORBITER AT MACH NUMBERS 5, 7, AND 10	FORCE	0.015 / 5.0 - 7.0	ARC / ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	M. D. MILAM AND M. E. NICHOLS/ROCKWELL INTERNATIONAL J. A. MELLENTHIN AND J. CLEARY/NASA/AMES RESEARCH CENTER B. W. MYERS -DMS	DMS-DR-2059

WORK IN PROCESS

WIND TUNNEL TEST / DMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC 3.5HWT 163 OA58 -	RESULTS OF AN AERODYNAMIC FORCE AND MOMENT INVESTIGATION OF AN 0.015-SCALE CONFIGURATION 3 SPACE SHUTTLE ORBITER IN THE NASA/ARC 3.5-FOOT HYPERSONIC WIND TUNNEL (OA58)	ORBITER 3,A	GENERAL STABILITY AND CONTROL CHARACTERISTICS FOR CONFIGURATION 3 AND ALTERNATE VEHICLES	FORCE	0.015 / 3.5 - 4.5	ARC / ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	B. W. MYERS -DMS	DMS-DR-2060
AEDC SWTA 323 1A13 -		32-OTS	AERODYNAMIC EFFECTS OF NOMINAL ABORT OF BOOSTERS AERODYNAMIC EFFECTS OF EMERGENCY ABORT OF THE TANK	FORCE	0.01 / 4.5 - 4.5	AEDC / AEDC - SUPERSONIC WIND TUNNEL (A)	J. E. VAUGHN A. T. KAVANAUGH -DMS	DMS-DR-2062
CAL 6TWT T14-053 1A36 -	WIND TUNNEL TEST OF THE 0.019 SPACE SHUTTLE INTEGRATED VEHICLE IN THE CALSPAN 8 FOOT TRANSONIC WIND TUNNEL	ORBITER, MODIFIED 2A,3	MFS NOZZLE PRESSURE LOADS, WING HINGE MOMENTS, WING PRESSURE DISTRIBUTIONS, AERODYNAMIC STABILITY AND CONTROL	PRESSURE FORCE	0.019 / 0.9 - 1.2	CAL / NR / CAL - 8-FOOT TRANSONIC WIND TUNNEL	R. B. HARDIN, R. R. BURROWS /ROCKWELL - N. A. STRUZYNSKI /CALSPAN D. A. SARVER W. M. HALE -DMS	DMS-DR-2064
ARC 8TSWT 710 1A12C -						ARC / ARC - 8-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)		DMS-DR-2065

WORK IN PROCESS

WIND TUNNEL TEST / DMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
NRLAD LSWT 708 OA71A CR-128,797	- EFFECTS OF THE AI-89B(2A) ORBITER R BREATHING PROPU LSION SYSTEM ON S PACE SHUTTLE ORBI TER SUBSONIC STAB ILITY AND CONTROL CHARACTERISTICS (OA71A)	EFFECTS OF FERRY ENGINE NACELLE GR OUPING AND LOCATI ON	FORCE	0.0405 / 0.20	/ NR NRLAD - LOW SPEED WIND TUNNEL	R. MENNELL /ROCKW D. A. SARVER W. M. HALE -DMS	DMS-DR-2068
ARC 3.5HWT 168 OA23 CR-128,799	- RESULTS OF TESTS OF 0.010- AND 0.0 15-SCALE MODELS O F SPACE SHUTTLE O RBITER CONFIGURAT IONS 3 AND 3A IN THE AMES RESEARCH CENTER 3.5-FOOT HYPERSONIC WIND T UNNEL (OA23)	MODEL 32-0 MODEL 49-0	OBTAIN STABILITY AND CONTROL CHARA CTERISTICS FOR TH E 3A BASELINE VEHICLE CONFIGURA TION	FORCE	0.015 , 0.010 / 5.3 - 10.3	ARC / ARC 3.5-FOOT HYPER SONIC WIND TUN NEL	T. J. DZIUBALA, M . D. MILAM/ROCKWE LL INTERNATIONAL J.W. CLEARY, J. A . MELLENTHIN/NASA AMES B. W. HYERS -DMS	DMS-DR-2071
LARC UPWT 1043 OA70 CR-134,070	- EFFECTS OF REACTI ON CONTROL SYSTEM JET SIMULATION O N THE STABILITY AND CONTROL CHARA CTERISTICS OF A 0 .015 SCALE SPACE SHUTTLE MODEL TESTED IN THE LAN GLEY RESEARCH CEN TER UNITARY PLAN WIND TUNNEL	MODEL 42-0 OF THE VL70-000139B SSV ORBITER CONFIGUR ATION 3	OBTAIN THE DETAIL ED EFFECTS THAT R CS JET FLOW INTER ACTIONS HAVE ON S UPERSONIC STABILI TY AND CONTROL CH ARACTERISTICS OF THE SPACE SHUTTLE VEHICLE	FORCE	0.015 /	LARC / LARC UNITARY PLAN W IND TUNNEL	J. J. DAILEDA, JO HN MARROQUIN J. E. VAUGHN A. T. KAVANAUGH -DMS	DMS-DR-2073
NRLAD LSWT 709 OA57A	- EFFECTS OF THE AI-89B SPACE SHUTTL R BREATHING ENGIN E PLUMES ON SSV O RBITER SUBSONIC W ING PRESSURE DIST RIBUTIONS	E ORBITER FERRY C ONFIGURATION	INVESTIGATE THE O RBITER WING PRESS URE DISTRIBUTION RESULTING FROM FI VE UNDER-WING ENG INE NACELLE PLUME S	FORCE	0.165-	NR / NRLAD - LOW SPEED WIND TUNNEL	BRUCE W. CAMERON, JR. /RI S. W. BROWN -DMS	DMS-DR-2074

WORK IN PROCESS
WIND TUNNEL TEST / DMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE/MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 66SWT - 630 / IA29 OA63		SHUTTLE ORBITER/E T/2 SRM SHUTTLE ORBITER V ENT PRESSURE MODE L 36-OTS	TO DETERMINE LOCA L PRESSURE DISTRI BUTIONS ON THE OR BITER FUSELAGE FO R ASCENT FLIGHT T O SUPPORT VEHICLE VENTING STUDIES	PRESSURE	0.015	/ ARC / ARC - 6-FOOT BY 6-FO OT SUPERSONIC WIND TUNNEL	B. J. FRICKEN *-DMS	DMS-DR-2077
LARC - 20HT6 - 441 / LA15		089B-139B (MODIFIE D NOSE)	EFFECTS OF TPS TI LE IRREGULARITIES EXPLORE POSSIBLE BOUNDARY LAYER SE FARATION HYSTEREI S EFFECT	FORCE	0.01 6.0 - 6.0	/ LARC / LARC - 20-INCH HYPERS ONIC TUNNEL (M ACH 6)	G.C.ASHBY,JR./NAS A,LARC J. E. VAUGHN *-DMS	DMS-DR-2079
NRLAD - LSWT - 713 / OA75B		EFFECTS OF AIR BR -89B SPACE SHUTTL EATHING ENGINE PL E ORBITER FERRY C UMES ON SSV ORBIT ONFIGURATION ER SUBSONIC WING PRESSURE DISTRIBU TION	INVESTIGATE ORBIT ER WING PRESSURE DISTRIBUTIONS RES ULTING FROM NACEL LE PLUMES ABOVE A ND BELOW THE WING	PRESSURE	0.0405 0.20 -	/ NR / NRLAD - LOW SPEED WIND TUNNEL	T. SOARD /RI *-DMS	DMS-DR-2080
NRLAD - LSWT - 711 / OA69		LANDING PRESSURE -140 A/B SPACE SH LOADS OF THE -140 UTTLE ORBITER A/B SPACE SHUTTL E DETERMINED IN TEST OA69	PRESSURE LOADS DA TA IN GROUND EFFE CT	PRESSURE	0.2	- / NR / NRLAD - LOW SPEED WIND TUNNEL	T. L. SOARD, B. W LL H. C. ZIMMERLE *-DMS	DMS-DR-2081
LARC - UPWT - 1057 / OA20		RESULTS OF INVEST SSV 140A/B ORBITE IGATIONS (OA20) O N A 0.015-SCALE 1 40 A/B CONFIGURATION SPA CE SHUTTLE VEHICL E ORBITER MODEL I N THE NASA/LANGLEY RESE ARCH CENTER UNITA RY PLAN WIND TUNN EL	TO DETERMINE SUPE R SONIC TRIM AND S TABILITY CHARACTE RISTICS FOR THE 140A/B ORBITER.	FORCE	0.015 2.5 - 4.6	/ LARC / LARC - UNITARY PLAN W IND TUNNEL	J.H.CAMPBELL,II, M.E.NICHOLS /ROC WELL W.P.PHILLIPS /LAR C M. M. MANN *-DMS	DMS-DR-2083

WORK IN PROCESS

WIND TUNNEL TEST / CMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST CMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11TWT - 716 / 97SWT - IA14A IA14B OA22A OA22B	SPACE SHUTTLE PRESSURE LOADS MODEL 47-OTS ORBITER VEHICLE CONFIG MCR 0200	OBTAIN PRESSURE DISTRIBUTIONS ON INTEGRATED LAUNCH VEHICLE AND ON THE ORBITER ALONE. FORCE DATA WERE ALSO TAKEN.	PRESSURE FORCE	0.030 / 0.6 - 1.4	ARC / ARC - 11-FOOT TRANSONIC WIND TUNNEL (UNITARY) 9-FOOT BY 7-FOOT SUPERSONIC WIND TUNNEL (UNITARY)	R. L. GILLINS /ROCKWELL E. CHEE /ROCKWELL M. M. MANN L (UNITARY) CMS		
ARC - 3.5HWT - 171 / OH10 1H2	SPACE SHUTTLE INTEGRATED VEHICLE PRESSURE MODEL 26-OTS	TO OBTAIN HYPERSONIC SURFACE PRESSURES ON THE MODEL TO CORRELATE AERODYNAMIC HEATING DATA AND VERIFY LOADS PREDICTIONS	PRESSURE	0.010 , 0.10 / 5.3 - 7.4	ARC / ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL NEL	W. H. DYE, R. B. KINGSLAND /ROCKWELL D. A. SARVER W. M. HALE CMS		CMS-DR-2085
ARC - LSWT - 712 / OA71C	EFFECTS OF THE SIX-89B ORBITER X ENGINE AIR BREATHING PROPULSION SYSTEM ON SPACE SHUTTLE ORBITER SUBSONIC STABILITY AND CONTROL CHARACTERISTICS	89B ORBITER WITH SPACE SHUTTLE ORBITER/ET	OPTIMIZE AIR BREATHING PROPULSION SYSTEM NACELLE COWL-INLET DESIGN AND DETERMINE THE EFFECT OF THIS DESIGN ON THE ORBITER STABILITY AND CONTROL CHARACTERISTICS	FORCE	0.0405 / 0.21 -	NR-LAD / ARC - LOW SPEED WIND TUNNEL	R.C. MENNELL AND T. SOARD / ROCKWELL D. E. POUCHER CMS		CMS-DR-2086
MSFC - 14TWT - 578 / SA10F					0.4 - 4.96	MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	V. W. SPARKS A. T. KAVANAUGH CMS		CMS-DR-2087
LARC - 8TPT - 655 / SA2F	142-INCH SOLID ROCKET BOOSTER	AERODYNAMICS OF SRB DURING FREE-FALL	FORCE	0.02112 / 0.4 - 1.2	LARC / LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL	J.D.JOHNSON/MSFC W.D.RADFORD/NSI J. E. VAUGHN A. T. KAVANAUGH CMS		CMS-DR-2088

WORK IN PROCESS

WIND TUNNEL TEST / CMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST CMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - 6TPT - 661 /OA25	RESULTS OF INVESTIGATIONS ON AN 0.015-SCALE CONFIGURATION 140A/B SPACE SHUTTLE ORBITER MODEL (49-0) IN THE NASA/LANGLEY RESEARCH CENTER 8-FOOT TRANSONIC PRESSURE TUNNEL (OA25)	140A/B	VERIFY LONGITUDINAL AND LATERAL-DIRECTIONAL CHARACTERISTICS OF 140A/B ORBITER, DETERMINE SURFACE DEFLECTION EFFECTS ON VEHICLE PERFORMANCE, AND TO DETERMINE COMPONENT BUILDUP EFFECTS		0.015 /	LARC / LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL	J. H. CAMPBELL II AND M. E. NICHOL /NASA/ROCKWELL INTERNATIONAL /NNEL /NGLEY RESEARCH CENTER /B. W. MYERS /-CMS	CMS-CR-2089
LARC - 6TPT - 657/660 /LA7B		LO-100 ORBITER	EFFECTS OF WING-FILLET LEADING EDGE CONFIGURATION	FORCE	0.35 - 1.2	LARC / LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL	B. SPENCER /NASA D. E. POUCHER /-CMS /NNEL	CMS-CR-2091
LARC - 22HT - 415 /OA72						LARC / LARC - 22-INCH HELIUM TUNNEL	M. M. MANN /-CMS	CMS-CR-2092
MSFC - 14TWT - 585 /1A37B						MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	V. W. SPARKS J. L. GLYNN /-CMS	CMS-CR-2093
LARC - 26TBT - 545 /OS1 CR-134,073	FLUTTER TESTS (OS 1) OF THE 0.02-SCALE ORBITER WING AND ELEVON SEMI-SPAN MODEL 23-0	BASIC WING AND 11 HZ INBD AND 13.5 HZ OUTBD ELEVON ROTATIONAL FREQ BASIC WING AND 11 HZ INBD AND 11 HZ OUTBOARD ELEVON ROTATIONAL FREQ	ACQUIRE EXPERIMENTAL FLUTTER BOUNDARY DATA IN THE TRANSONIC FLIGHT REGIME TO SUPPORT ANALYTICAL FLUTTER PREDICTIONS	FORCE		LARC / LARC - 26-INCH TRANSONIC BLOWDOWN TUNNEL	MICHAEL A. KOTCH A. T. KAVANAUGH /-CMS /NNEL	CMS-CR-2094

WORK IN PROCESS

WIND TUNNEL TEST / CMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST CMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
MSFC - / 14TWT - / 581 / OA49 / / LARC - / 8VDHT - / 644 / OH13 / / / NRLAD - / LSWT - / 715 / OA62 / / ARC - / 3.5HWT - / 172 / IH15 / / / AEDC - / HWTB - / VA352 / OH4B / / / / AEDC - / HWTB - / VA289 / OH3A / OH3B / CR-134,075/ / / / /					MSFC / MSFC - 14-INCH TRISON/-DMS IC WIND TUNNEL/ / LARC / LARC - MACH 8 VARIABL/ E-DENSITY HYPE/ RSONIC TUNNEL / / NR / NRLAD - LOW SPEED WIND/ TUNNEL / / HEAT-TRANS/0.006 / ARC / ARC - 3.5-FOOT HYPER/ SONIC WIND TUN/ NEL / / HEAT-TRANS/0.0175 / AEDC / AEDC - HYPERSONIC WIN/ELL / D TUNNEL (B) / / / / HEAT-TRANS/0.0175 / AEDC - HYPERSONIC WIN/ D TUNNEL (B) / / / / /	V. W. SPARKS J. L. GLYNN -DMS / B. W. MYERS -DMS / M. M. MANN -DMS / W. M. HALE -DMS / T. F. FOSTER, W. J. GRIFALL /ROCKW/ / D. A. SARVER W. M. HALE -DMS / M.QUAN,C.CRAIG/RI/ A. D. MARTIN -DMS / / / /	DMS-DR-2095 / / / DMS-DR-2096 / / / DMS-DR-2097 / / / DMS-DR-2098 / / / / DMS-DR-2099 / / / / / DMS-DR-2100 / / / / / / / / /

WORK IN PROCESS

WIND TUNNEL TEST / DMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 3.5HWT - 175 /IA15	RESULTS OF INVESTIGATIONS ON A 0.04-SCALE MODEL OF THE CONFIGURATION 3 SPACE SHUTTLE ORBITER AND EXTERNAL TANK IN THE NASA/AMES RESEARCH CENTER 3.5-FOOT HYPERSONIC WIND TUNNEL (IA15)	OT+L+P1+A1+F	EFFECTS OF VARIOUS ELEVON, RUDDER, ATTACHING STRUCTURES, FAIRINGS, AND MAIN PROPULSION ROCKET PLUMES ON LONGITUDINAL AND LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS	FORCE	0.010 / 7.3 - 7.3	ARC / ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	M. T. PETROZZI, D. MILAM /RI J. A. MELLENTHIN /ARC D. A. SARVER G. G. MCDONALD -DMS	DMS-DR-2102
MSFC - 14TWT - 589 /IA26F						MSFC / MSFC - 14-INCH TRISONIC WIND TUNNEL	J. E. VAUGHN -DMS	DMS-DR-2103
NRLAD - LSWT - 717 /OA62B						NR / NRLAD - LOW SPEED WIND TUNNEL	M. M. MANN -DMS	DMS-DR-2104
LARC - 8VDHT - 646/647 /IH17						LARC / LARC - MACH 8 VARIABLE-DENSITY HYPERSONIC TUNNEL		DMS-DR-2105
LARC - LPWT - 1046/1049/LA14A						LARC / LARC - UNITARY PLAN WIND TUNNEL		DMS-DR-2106
LARC - 8VDHT - 653 /LA20						LARC / LARC - MACH 8 VARIABLE-DENSITY HYPERSONIC TUNNEL		DMS-DR-2107

WORK IN PROCESS

WIND TUNNEL TEST / DMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - UPWT - IA35OA 64 CR- 134,08 TM-X 4	RESULTS OF TESTS (OA64 AND IA35) OF AN 0.015-SCALE MODEL (36-OTS) OF THE SPACE SHUTTL E CONFIGURATION 1 40A/B IN THE NASA /LARC UNITARY FLA N WIND TUNNEL	B26C9E26F8M7N25R5 N116 N116S12T12 B26C9E26F8M7N25R5	OBTAIN LOCAL PRES SURE DISTRIBUTION S ON ORBITER FUSE LAGE TO SUPPORT V ENTING STUDIES AN D TO DETERMINE EF FECT OF ELEVON DE FLECTIONS IN THE AFT PORTION OF TH E ORBITER FUSELAG E		0.015 / 2.5 - 4.5	LARC / LARC - UNITARY PLAN W IND TUNNEL	D. E. THORNTON AN D R. H. SPANGLER/ ROCKWELL INTERNAT IONAL	DMS-DR-2108
LARC - CF4 - OH45						LARC / LARC -	J. E. VAUGHN W. M. HALE -DMS	DMS-DR-2109
LARC - CF4 - IH18						LARC / LARC -	J. E. VAUGHN W. M. HALE -DMS	DMS-DR-2110
LARC - UPWT - IA35			OBTAIN LOCAL PRES SURE DISTRIBUTION S ON ORBITER FUSE LAGE TO SUPPORT V ENTING STUDIES AN D TO DETERMINE EF FECT OF ELEVON DE FLECTIONS IN THE AFT PORTION OF TH E ORBITER FUSELAG E			LARC / LARC - UNITARY PLAN W IND TUNNEL		DMS-DR-2111
AEDC - IA57						AEDC / AEDC -		DMS-DR-2112
LARC - CFHT - 101 / OA85						LARC / LARC - CONTINUOUS-FLO W HYPERSONIC T UNNEL		DMS-DR-2113

WORK IN PROCESS

WIND TUNNEL TEST / DMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE* MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
NRLAD - LSWT - 716 /OA86						NR / NRLAD - LOW SPEED WIND TUNNEL	D. A. SARVER G. G. MCDONALD -DMS	DMS-DR-2114
ARC - 3.5HWT - 176 /OA87	RESULTS OF INVESTIGATIONS ON A 0.0 15-SCALE MODEL (49-0) OF THE SPACE SHUTTLE ORBITER IN THE NASA/AMES 3.5-FOOT HYPERSONIC WIND TUNNEL (OA87)		VERIFY SUPERSONIC STABILITY AND CONTROL CHARACTERISTICS, VERIFY CONTROL SURFACE EFFECTIVENESS AND INVESTIGATE REYNOLDS NUMBER EFFECT		0.015	ARC / ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL	M. T. PETROZZI AN D M. D. MILAM/ROC KWELL INTERNATIONAL AMES RESEARCH CENTER	DMS-DR-2115
NRLAD - TWT - 278 /OA91	EFFECT OF THE SIX ENGINE AIR BREATHING PROPULSION SYSTEM ON SPACE SHUTTLE ORBITER SUBSONIC AND TRANSONIC STABILITY AND CONTROL CHARACTERISTICS (OA91)	B19C7F5J59W107E23 V7R5X20 + NACELLES RAKES	EFFECT OF THREE AIR BREATHING PROPULSION SYSTEM FERRY/FLIGHT TEST CONFIGURATIONS ON TRANSONIC DRAG RISE, ELEVON EFFECTIVENESS, LONG. STABILITY, AND LAT-DIR STAB OF THE -139B SHUTTLE ORBITER		0.015 0.5 - 0.9	NR / NRLAD - TRISONIC WIND TUNNEL	H. C. SMITH /RI D. A. SARVER G. G. MCDONALD -DMS	DMS-DR-2116
LARC - 8VDHT - 648 /OH14						LARC / LARC - MACH 8 VARIABLE-DENSITY HYPERSONIC TUNNEL		DMS-DR-2117
LARC - 8TPT - 667 /IA41						LARC / LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL		DMS-DR-2118

WORK IN PROCESS

WIND TUNNEL TEST / DMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
LARC - UPWT - 1056/1073/ IA42A IA42B						LARC / LARC - UNITARY PLAN W IND TUNNEL		DMS-DR-2119
LARC - 8TPT - 668 OA106	INVESTIGATION OF AERODYNAMIC CHARACTERISTICS ORBITER SPEEDBRAKE AND BODY FLAP DEFLECTIONS	ORBITER	EFFECT OF SPEEDBRAKE AND BODY FLAP	FORCE	0.015 / 0.35 - 1.2	R.I. / LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL	V. W. SPARKS / V. W. SPARKS -DMS	DMS-DR-2120
LARC - 8TPT - 669 LA38	TRANSONIC AERODYNAMIC INVESTIGATION OF CONFIGURATION MODIFICATIONS TO RI-140A/B FOR EXTENDING CENTER OF GRAVITY RANGE	RI-140 A/B WITH VARIOUS BODY FLAPS	DETERMINE EFFECT OF EXTENDING CENTER OF GRAVITY ON AERODYNAMIC CHARACTERISTICS OF RI-140 A/B		0.015 / 0.35 - 1.2	LARC / LARC - 8-FOOT TRANSONIC PRESSURE TUNNEL	W.P. PHILLIPS / D.C. FREEMAN, JR. / V. W. SPARKS / V. W. SPARKS -DMS	DMS-DR-2121
MSFC - 14TWT - 588 IA53	INVESTIGATION OF GAS SUPPLY STRUT CONFIGURATION EFFECTS ON AFT AND BASE PRESSURE ENVIRONMENTS OF A 0.004 SCALE MODEL OF THE SPACE SHUTTLE LAUNCH VEHICLE	LAUNCH CONFIGURATION WITH STRUTS LAUNCH CONFIGURATION WITH ORBITER / ET GAS SUPPLY FAIRINGS	DETERMINE EFFECT OF GAS SUPPLY STRUT CONFIGURATIONS ON AFT AND BASE PRESSURE ENVIRONMENTS OF SPACE SHUTTLE LAUNCH VEHICLE		0.004 / 0.9 - 2.99	R.I. / MSFC - 14-INCH TRISONIC WIND TUNNEL -DMS	W. GARTON / ROCKWELL INTERNATIONAL / V. W. SPARKS / V. W. SPARKS	DMS-DR-2123

WORK IN PROCESS

WIND TUNNEL TEST / DMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE/ MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 3.5HWT - 100 /1A16 OA26			DETERMINE SURFACE STATIC PRESSURE DISTRIBUTIONS ON THE ORBITER FUSELAGE, FOR BOTH THE ASCENT AND ENTRY FLIGHT PHASES, E TO SUPPORT ORBITER VENTING STUDIES			ARC - 3.5-FOOT HYPERSONIC WIND TUNNEL		DMS-DR-2124
LARC - 7422 /OA88	HYPERSONIC STABILITY AND CONTROL CHARACTERISTICS AND REYNOLDS NUMBER EFFECTS OF THE ROCKWELL SSV 140 A/B ORBITER CONFIGURATION	BODY ALONE (-140A/B) ORBITER (-140A/B)	TO DETERMINE HYPERSONIC STABILITY AND CONTROL CHARACTERISTICS AND REYNOLDS NUMBER EFFECT ON ROCKWELL -140 A/B ORBITER		0.004 / 18.1 - 21.6	R/I / LARC -	DAVID R. STONE /N ASA-LARC P. HAWTHORNE /R1. J. E. VAUGHN J. E. VAUGHN -DMS	DMS-DR-2125
LARC - CFHT - 103 /LA25	EFFECTS OF REACTION CONTROL SYSTEM JET SIMULATION ON THE HYPERSONIC PERFORMANCE, STABILITY AND CONTROL CHARACTERISTICS OF A .01 SCALE ROCKWELL INTERNATIONAL 139B ORBITER CONFIGURATION	-139 ORBITER WITH VARIOUS RCS JETS	EFFECT OF RCS JETS ON ORB. HYPERSONIC PERFORMANCE		0.01 / 10.3 - 10.3	LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL	TOM BLACKSTOCK /N J. E. VAUGHN J. E. VAUGHN -DMS	DMS-DR-2126
LARC - CFHT - 102 /LA35	REYNOLDS NUMBER EFFECTS AT MACH NUMBER 10.3 ON AERODYNAMIC CHARACTERISTICS OF .01 SCALE 139-B ORBITER	-139. B ORBITER WITH VARIOUS CONTROL DEFLECTIONS	EFFECT OF REYNOLDS NUMBER ON ORBITER AERO. CHARACTERISTICS		0.01 / 10.3 - 10.3	LARC / LARC - CONTINUOUS-FLOW HYPERSONIC TUNNEL	PETET T. BERNOT J. E. VAUGHN J. E. VAUGHN -DMS	DMS-DR-2127

WORK IN PROCESS

WIND TUNNEL TEST / DMS DATA PROCESSING

TEST ID	REPORT TITLE	CONFIGURATIONS TESTED	TEST PURPOSE	TYPE OF TEST	MODEL SCALE / MACH RANGE	TESTING AGENCY	COGNIZANT TEST DMS PERSONNEL	BASIC PUBLICATIONS OR COMMENTS
ARC - 11-747A /97-747B OA53 OA53A OA53B OA53C			THE PRIMARY TEST OBJECTIVES ARE TO OBTAIN CONFIGURATION 140 A/B STABILITY AND CONTROL CHARACTERISTICS, CONTROL SURFACE EFFECTIVENESS CONTROL SURFACE HINGE MOMENTS, AND VERTICAL TAIL PANEL LOADS.		0.03 / 0.6 - 3.5	ARC - DMS	M. M. MANN	DMS-DR-2128
ARC - 97-716I /IA14B		SSV 4 CONFIG MCR 0200	OBTAIN PRESSURE DISTRIBUTIONS ON INTEGRATED LAUNCH VEHICLE. FORCE DATA WERE ALSO TAKEN.	PRESSURE FORCE	0.030 / 1.55 - 2.2	ARC / ARC -	R. L. GILLENS / ROCKWELL E. CHEE / ROCKWELL H. C. ZIMMERLE - DMS	DMS-DR-2129
ARC - 11-716O /OA22A		SSV 4 CONFIG MCR 0200	OBTAIN PRESSURE DISTRIBUTIONS ON ORBITER ALONE. FORCE DATA WERE ALSO TAKEN.	PRESSURE FORCE	0.030 / 0.6 - 0.9	ARC / ARC -	R. L. GILLENS / ROCKWELL F. CHEE / ROCKWELL H. C. ZIMMERLE - DMS	DMS-DR-2130
ARC - 97-716O /OA22B		SSV 4 CONFIG MCR 0200	OBTAIN PRESSURE DISTRIBUTIONS ON ORBITER ALONE. FORCE DATA WERE ALSO TAKEN	PRESSURE FORCE	0.030 / 1.55 - 2.2	ARC -	R. L. GILLENS / ROCKWELL F. CHEE / ROCKWELL H. C. ZIMMERLE - DMS	DMS-DR-2131

TABLE 2.4.2-1

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-CR-	PUBLICATION DATE
TL	AEDC			IA57	2112	IN PROCESS
TM	AEDC	HWTB	VA289	OH3A	2100	IN PROCESS
TK	AEDC	HWTB	VA352	OH4B	2099	IN PROCESS
TJ	AEDC	SWTA	323	IA13	2062	IN PROCESS
B3	ARC		11-716O	OA22A	2130	IN PROCESS
EJ	ARC		11-747A	OA53	2128	IN PROCESS
B2	ARC		97-716I	IA14B	2129	IN PROCESS
B4	ARC		97-716O	OA22B	2131	IN PROCESS
DU	ARC	LSWT	712	OA71C	2086	IN PROCESS
B-	ARC	11TWT		IA9	2032,V-01	NOV., 1973
BL	ARC	11TWT	686	IA7	2024	AUGUST, 1973
B1	ARC	11TWT	716	IA14A	2084	IN PROCESS
B1	ARC	3.5HWT	147	OA4	2007	MARCH, 1973
B5	ARC	3.5HWT	157	OA11A	2044	OCT., 1973
BX	ARC	3.5HWT	160	OA11B	2059	IN PROCESS

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE
BY	ARC	3.5HWT	163	OA58	2060	IN PROCESS
B5	ARC	3.5HWT	167	OA73	2082	DEC., 1973
B6	ARC	3.5HWT	168	OA23	2071	IN PROCESS
B7	ARC	3.5HWT	169	IA10	2078	JAN., 1974
B9	ARC	3.5HWT	171	OH10	2085	IN PROCESS
B8	ARC	3.5HWT	172	IH15	2098	IN PROCESS
EG	ARC	3.5HWT	175	IA15	2102	IN PROCESS
EF	ARC	3.5HWT	176	OA87	2115	IN PROCESS
EM	ARC	3.5HWT	180	IA16	2124	IN PROCESS
EB	ARC	66SWT	630	IA29	2077	IN PROCESS
BH	ARC	66SWT	650	OA3	2009	JUNE, 1973
BT	ARC	66SWT	706	OA43	2050	NOV., 1973
BZ	ARC	87SWT	710	IA12C	2065	IN PROCESS
BJ	ARC	97SWT	616	IA2	2013	IN PROCESS
BV	ARC	97SWT	710	IA12B	2048	IN PROCESS
UF	CAL	8TWT	T14-053	IA36	2064	IN PROCESS

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE
QC	LARC		7422	OA88	2125	IN PROCESS
PX	LARC	CFHT	100	LA25	2126	IN PROCESS
QI	LARC	CFHT	101	OA85	2113	IN PROCESS
QU	LARC	CFHT	102	LA35	2127	IN PROCESS
OZ	LARC	CFHT	85	LA3	2031	JUNE, 1973
OT	LARC	CFHT	89	MA4	2008	JAN., 1973
OT	LARC	CFHT	89	MA4	2008,R-01	MAY, 1973
PD	LARC	CFHT	96	LA11	2066	NOV., 1973
QH	LARC	CF4		IH18	2110	IN PROCESS
QS	LARC	CF4		OH45	2109	IN PROCESS
PY	LARC	LTPT	130	LA9	2056	NOV., 1973
PP	LARC	LTPT	138	OA17	2058	IN PROCESS
PU	LARC	LTPT	141	LA23	2070	OCT., 1973
QS	LARC	UPWT		IA35	2111	IN PROCESS
Q4	LARC	UPWT		IA35OA	2108	IN PROCESS
OQ	LARC	UPWT	1002	MA5	2001	NOV., 1972
OV	LARC	UPWT	1007	OA7	2014	MARCH, 1973

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE
P8	LARC	UPWT	1015	LA10	2052	NOV., 1973
P6	LARC	UPWT	1023/1034	LA8A	2054	NOV., 1973
PH	LARC	UPWT	1031	MA7	2069	JAN., 1974
PN	LARC	UPWT	1035	OA44	2057	IN PROCESS
PV	LARC	UPWT	1043	OA70	2073	IN PROCESS
PG	LARC	UPWT	1046/1049	LA14A	2106	IN PROCESS
	LARC	UPWT	1056/1073	IA42A	2119	IN PROCESS
Q2	LARC	UPWT	1057	OA20	2083	IN PROCESS
P1	LARC	UPWT	995 /1014	LA4	2033	JULY, 1973
PH	LARC	20HT6	441	LA15	2079	IN PROCESS
ON	LARC	22HT	405	LA22	2034	JULY, 1973
OS	LARC	22HT	409	MA2	2003	APRIL, 1973
OY	LARC	22HT	411	LA2	2023	JUNE, 1973
P2	LARC	22HT	413	LA5	2036	AUGUST, 1973
PT	LARC	22HT	415	OA72	2092	IN PROCESS
PZ	LARC	26TBT	544	OS2	2067	AUGUST, 1973
QT	LARC	26TBT	545	OS1	2094	IN PROCESS

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE
OU	LARC	8TPT	626	LA1	2002	MARCH, 1973
P4	LARC	8TPT	643	LA6	2040	AUGUST, 1973
P5	LARC	8TPT	644	LA7	2041	OCT., 1973
PC	LARC	8TPT	648	LA17	2046	AUGUST, 1973
PS	LARC	8TPT	655	SA2F	2088	IN PROCESS
P5	LARC	8TPT	657/660	LA7B	2091	IN PROCESS
Q1	LARC	8TPT	661	OA25	2089	IN PROCESS
	LARC	8TPT	667	IA41	2118	IN PROCESS
QZ	LARC	8TPT	668	OA106	2120	IN PROCESS
QX	LARC	8TPT	669	LA38	2121	IN PROCESS
QL	LARC	8VDHT	/648	OH14	2117	IN PROCESS
OX	LARC	8VDHT	3619/3670	OH40	2049	JULY, 1973
PA	LARC	8VDHT	4080/4105	OH42A	2101	JAN., 1974
PB	LARC	8VDHT	624	LA16	2043	JUNE, 1973
PO	LARC	8VDHT	644	OH13	2096	IN PROCESS
PR	LARC	8VDHT	646/647	IH17	2105	IN PROCESS
PK	LARC	8VDHT	653	LA20	2107	IN PROCESS
[illegible]	LTV	HSWT	458	IA4	2015,V-01	JULY, 1973

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE
DD	LTV	1520SWT	S-081	MA1	2004	NOV., 1972
72	MSFC	14TWT	545	IA1B	2010	MAY, 1973
79	MSFC	14TWT	554	SA1F	2012	APRIL, 1973
76	MSFC	14TWT	555	OA1	2005	NOV., 1972
77	MSFC	14TWT	556	IA1A	2006	DEC., 1972
78	MSFC	14TWT	558	MA9F	2011	APRIL, 1973
80	MSFC	14TWT	565	SA3F	2025	MAY, 1973
81	MSFC	14TWT	566	IA31F	2026	SEPT., 1973
82	MSFC	14TWT	567	IA32FB	2027	IN PROCESS
84	MSFC	14TWT	568	OA47	2029	MAY, 1973
83	MSFC	14TWT	570	IA31FB	2028	IN PROCESS
85	MSFC	14TWT	571	IA6A	2039	IN PROCESS
86	MSFC	14TWT	572	SA5F	2051	AUGUST, 1973
90	MSFC	14TWT	573	IA31FC	2072	JAN., 1974
87	MSFC	14TWT	574	OA48	2055,V-01	SEPT., 1973
91	MSFC	14TWT	578	SA10F	2087	IN PROCESS
88	MSFC	14TWT	579/580	IA37	2063	NOV., 1973
92	MSFC	14TWT	581	OA49	2095	IN PROCESS
93	MSFC	14TWT	585	IA37B	2093	IN PROCESS
96	MSFC	14TWT	588	IA53	2123	IN PROCESS

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE
94	MSFC	14TWT	589	IA26F	2103	IN PROCESS
DF	NRLAD	LSWT	689	OA2	2016	APRIL, 1973
DG	NRLAD	LSWT	690	OA5	2017	APRIL, 1973
DH	NRLAD	LSWT	693	IA3	2018	JUNE, 1973
DI	NRLAD	LSWT	694	OA6	2019	JUNE, 1973
DJ	NRLAD	LSWT	696	OA9	2020	JUNE, 1973
DK	NRLAD	LSWT	698	OA10	2022	JUNE, 1973
DL	NRLAD	LSWT	699	OA45	2021,V-01	NOV., 1973
DM	NRLAD	LSWT	700	OA14	2030	AUGUST, 1973
DN	NRLAD	LSWT	701	OA16	2038	IN PROCESS
DO	NRLAD	LSWT	704	OA18	2045	SEPT., 1973
DP	NRLAD	LSWT	705	OA21A	2053,V-01	DEC., 1973
DS	NRLAD	LSWT	708	OA71A	2068	IN PROCESS
DT	NRLAD	LSWT	709	OA57A	2074	IN PROCESS
DQ	NRLAD	LSWT	711	OA69	2081	IN PROCESS
DV	NRLAD	LSWT	713	OA75B	2080	IN PROCESS
DW	NRLAD	LSWT	715	OA62	2097	IN PROCESS
DX	NRLAD	LSWT	716	OA86	2114	IN PROCESS
DZ	NRLAD	LSWT	717	OA62B	2104	IN PROCESS

SPACE SHUTTLE FACILITY WIND TUNNEL SUMMARY

TEST CODE	FACILITY	SUBFACILITY	TEST NO.	NASA SERIES NO.	DMS-DR-	PUBLICATION DATE
DY	NRLAD	TWT	278	OA91	2116	IN PROCESS
DR	NRLAD	7TWT	276	OA68	2061	DEC., 1973

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DATA FILE CONTENTS DOCUMENTATION

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GOVERNMENT FIELD PRINTING PLANT
(UNDER CONTRACT NAS 8-26887)
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