

General Disclaimer

One or more of the Following Statements may affect this Document

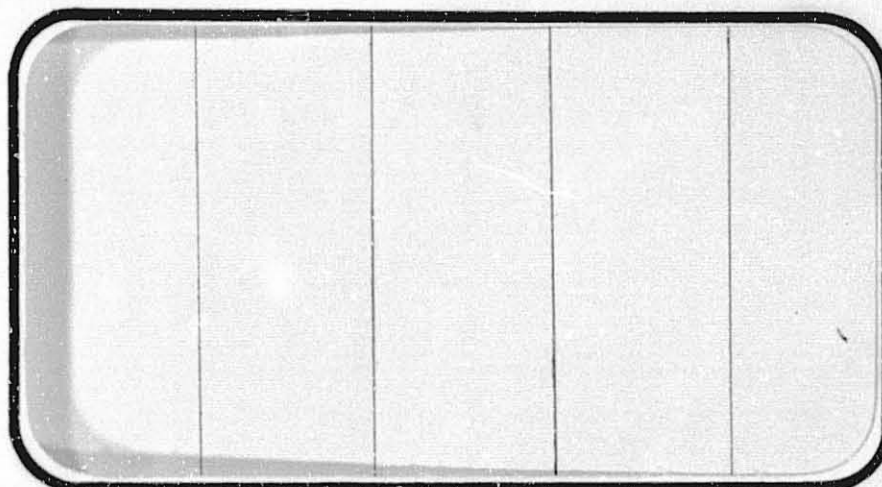
- This document has been reproduced from the best copy furnished by the organizational source. It is being released in the interest of making available as much information as possible.
- This document may contain data, which exceeds the sheet parameters. It was furnished in this condition by the organizational source and is the best copy available.
- This document may contain tone-on-tone or color graphs, charts and/or pictures, which have been reproduced in black and white.
- This document is paginated as submitted by the original source.
- Portions of this document are not fully legible due to the historical nature of some of the material. However, it is the best reproduction available from the original submission.



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

NASA CR-

141842



(NASA-CR-141842) RESULTS OF A PRESSURE
LOADS INVESTIGATION ON A 0.030-SCALE MODEL
(47-OTS) OF THE INTEGRATED SPACE SHUTTLE
VEHICLE CONFIGURATION 5 IN THE NASA AMES
RESEARCH CENTER 11 X 11 FOOT LEG OF THE

N76-15252

Unclas
G3/18 09119

SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT



JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANAGEMENT services



DATE: June 1976

PUBLICATION CHANGE

THE FOLLOWING CHANGES APPLY TO PUBLICATION: Space Shuttle Data Report

TITLE: RESULTS OF A PRESSURE LOADS INVESTIGATION ON A 0.030-SCALE MODEL

(47-OTS) OF THE INTEGRATED SPACE SHUTTLE VEHICLE CONFIGURATION 5 IN THE NASA

AMES RESEARCH CENTER 11x11 FOOT LEG OF THE UNITARY PLAN WIND TUNNEL (IA81A)

NUMBER: DMS-DR-2169 DATE: November 1975 BRANCH: DATAMAN

NASA CR-141,836, Volume 1 *N76-15246*
NASA CR-141,837, Volume 2 *N76-15247*
NASA CR-141,838, Volume 3 *N76-15248*
NASA CR-141,839, Volume 4 *N76-15249*
NASA CR-141,840, Volume 5 *N76-15250*
NASA CR-141,841, Volume 6 *N76-15251*
NASA CR-141,842, Volume 7 *N76-15252*

Subsequent to publication, the following errors were discovered in the documented pressure tap locations:

- 1) In table IV, the wing station corresponding to $\eta = 0.673$ was erroneously stated as $Y_0 = 300$ instead of $Y_0 = 315$.

(Continued on next page)

Prepared by: G. W. Klug, H. C. Zimmerle

Reviewed by: D. E. Poucher

Approved: *J. L. Glynn*
J. L. Glynn, Manager
Data Operations

Concurrence: *N. D. Kemp*
N. D. Kemp, Manager
Data Management Services

PAGE 1 OF 2

DISTRIBUTION SAME AS FOR
ABOVE PUBLICATION

DATA MANAGEMENT services

SPACE DIVISION  CHRYSLER CORPORATION

June 1976

PUBLICATION CHANGE (Concluded)

DMS-DR-2169

- 2) In table IV and all plotted and tabulated left wing pressure data, tap locations given as $\eta = 0.673$, $x/c \geq 0.775$ should be $\eta = 0.641$ at the same chordwise locations.
- 3) In table VI, spanwise tap locations given as $\eta_V = 0.153, 0.316, 0.600, 0.840$, should be $0.158, 0.317, 0.602, 0.839$, respectively.
- 4) In table VIII, the stated values of SRB axial coordinates X_S and X_S/l_S are erroneous for tap numbers 909-932; tap numbers 870, 882, and 901-908 were deleted from the test but erroneously included in the table.

This publication change presents tables IV, VI, and VIII as revised from the subject publication. Users of the tabulated or plotted pressure data for the left wing should refer to the revised table IV for the correct pressure tap locations.

TABLE IV.
ORBITER WING PRESSURE TAP NUMBERS
ORBITER LEFT WING PRESSURE TAP NUMBERS

η	γ_c		NO. OF TAPS	Σ TAPS
233	110	γ_c 0 .041 .113 .247 .424 .547 .638 .727 .793		
		TOP 208 207 210 211 212 213 214 215 216	9	9
		BOT - - - - -	0	
241	140	γ_c 0 .010 .022 .050 .094 .129 .162 .197 .200 .271 .265 .300 .3165		
		TOP 217 215 219 220 221 222 223 224 225 226 227 228 229	13	34
		BOT - 230 231 232 233 234 235 236 237 238 239 240 241	12	
244	170	γ_c 0 .010 .020 .040 .056 .163 .246 .340 .437 .495 .539 .579 .619 .655		
		TOP 242 243 244 245 246 247 248 249 250 251 252 253 254 255	14	61
		BOT - 256 257 258 259 260 261 262 263 264 265 266 267 268	13	
247	200	γ_c 0 .010 .020 .040 .053 .171 .274 .402 .565 .760 .805 .859 .905 .953 .962		
		TOP 269 270 271 272 273 274 275 276 277 278 279 280 281 282 -	14	89
		BOT - 283 284 285 286 287 288 289 290 291 292 293 294 295 296	14	
254	250	γ_c 0 .010 .020 .050 .080 .150 .250 .400 .550 .725 .775 .850 .900 .950		
		TOP 297 298 299 300 301 302 303 304 305 306 307 308 309 310	14	116
		BOT - 311 312 313 314 315 316 317 318 319 320 321 322 323	13	
261	300	γ_c .775 .850 .920 .900		
		TOP 333 334 335 -	3	123
		BOT 344 345 346 347	4	
263	315	γ_c 0 .010 .020 .050 .150 .250 .400 .550 .700		
		TOP 324 325 326 327 328 329 330 331 332	9	140
		BOT - 336 337 338 339 340 341 342 343	8	
280	365	γ_c 0 .010 .020 .050 .150 .250 .400 .550 .700 .850 .950		
		TOP 348 349 350 351 352 353 354 355 356 357	10	159
		BOT - 358 359 360 361 362 363 364 365 366	9	
285	405	γ_c 0 .010 .020 .050 .150 .250 .400 .550 .700 .850 .950		
		TOP 367 368 369 370 371 372 373 374 375 376 -	10	179
		BOT - 377 378 379 380 381 382 383 384 385 386	10	
292	405	γ_c 0 .020 .049 .157 .315 .503 .670 .862		
		TOP 387 388 389 390 391 392 393 394	8	194
		BOT - 395 396 397 398 399 400 401	7	
1000	K ₁	γ_c 0 .1362 .1405		
		TOP 402 403	2	196
		BOT - -		

ORBITER RIGHT WING PRESSURE TAP NUMBERS

η	γ_c		NO. OF TAPS	Σ TAPS
235	110	γ_c 0 .041 .113 .247 .424 .547 .638 .727 .793		
		TOP 404 405 406 407 408 409 410 411 412	9	205
		BOT - - - - -	0	
304	170	γ_c 0 .010 .020 .040 .056 .163 .246 .340 .437 .495 .539 .579 .619 .655		
		TOP 413 414 415 416 - 417 418 419 420 421	9	222
		BOT - 422 423 424 425 426 427 428 - 429	8	

Max Fil Loc. = 0°

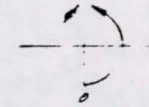


TABLE V. ORBITER FUSELAGE PRESSURE TAP NUMBERS

ORBITER X ₀ ~ IN.			Φ RADIAL LOCATION ~ DEGREES																				NO TAPS	Σ TAPS		
FULL MODEL	X ₀ /L		0	20	40	55	70	90	105	110	120	135	140	150	151	156	162	165	169	174	180	305			320	340
235	7.05	0	7																						1	1
245	7.35	.008	8					9													10				3	4
265	7.95	.023	11	12	13	14	15	16			17			18							19	20	21	22	12	16
295	8.85	.046	23	24	25	26	27	28			29			30							31	32	33	34	12	28
325	9.75	.070	35	36	37	38	39	40			41			42							43	44	45	46	12	40
380	11.40	.112	47	48	49	50	51	52			53			54							55	56	57	58	12	52
440	13.20	.158																		59					1	53
450	13.50	.166	60	61	62	63	64	65			66					67			68		69	70	71	72	13	66
465	13.95	.177													73		74								2	68
500	15.00	.204	75	76	77	78	79	80			81		82	83				84			85	86	87	88	14	82
560	16.80	.251	89		90		91	92			93			94				95			96		97		9	91
625	18.75	.301	98		99		100	101			102			103				104			105		106		9	100
725	21.75	.378	107		108		109	110			111			112				113			114		115		9	109
880	26.40	.497	116		117		118	119			120			121				122			123		124		9	118
980	29.40	.574	125		126																		127		3	121
1080	32.40	.652	128		129		130	131			132			133				134			135		136		9	130
1180	35.40	.729	137		138		139	140			141			142							143		144		8	138
1245	37.35	.779	145		146		147	148	149		150	151		152				153			154		155		11	149
1300	39.00	.821	156		157		158	159	160		161	162		163							164		165		10	159
1375	41.25	.879	166		167		168	169	170		171	172		173				174					175		10	169
1430	42.30	.921	176		177		178	179	180		181	182		183				184					185		10	179
1480	42.40	.960	186		187		188	189	190		191	192		193				194					195		10	189
1530	45.30	.999									196	197													2	191
1530	45.30	.999									198	199													2	193

60

L. = 1297.0 IN

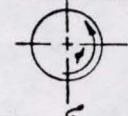
- a. OMS POD INSIDE
- b. OMS POD OUTSIDE

TABLE VI. ORBITER VERTICAL TAIL PRESSURE TAP
NUMBERS (LEFT SIDE ONLY)

Z ₀	VERTICAL		η_v	X/CV									No. TAPS	TAPS
	FULL SCALE	MODEL SCALE		0	.025	.05	.15	.30	.52	.685	.775	.90		
550	16.5		.158	430	431	432	433	434	435	436	437		8	8
600	18.0		.317	438	439	440	441	442	443	444	445	446	9	17
690	20.7		.602	447	448	449	450	451	452	453	454	455	9	26
765	22.95		.839	456	457	458	459	460	461	462	463	464	9	35
792	23.76		.925	465	466	467	468	469	470	471	472	473	9	44

TABLE VII. EXTERNAL TANK PRESSURE TAP NUMBERS

VIEW FWD LOOKING AFT

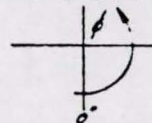


X _T IN. REAL SCALE	X _T IN. MODEL SCALE	X _T / L _T	φ ~ DEGREES																NO TAPS		
			0	30	60	90	120	135	147	162	180	198	213	225	240	270	300	330			
298/329	8.937/9.521	0	474																		1
346	10.38	0.0092	475	476	477	478	479		480		481		482		483	484	485	486		12	
363	10.89	0.0184	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502		16	
403	12.09	0.0400	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518		16	
448	13.44	0.0644	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534		16	
568	17.04	0.1292	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550		16	
688	20.64	0.1944	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566		16	
718	21.54	0.2106	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582		16	
758	22.74	0.2323	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598		16	
803	24.24	0.2594	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614		16	
850	25.50	0.2821	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630		16	
950	28.50	0.3362	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646		16	
1050	31.50	0.3904	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	-		16	
1150	34.50	0.4445	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678		16	
1250	37.50	0.4987	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694		16	
1350	40.50	0.5528	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710		16	
1500	45.00	0.6340	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726		16	
1700	51.00	0.7423	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742		16	
1900	57.00	0.8506	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758		16	
2040	61.20	0.9264	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774		16	
2146	64.38	0.9838	775	776	777	778	779		780		781		782		783	784	785	786		12	
STING CAVITY			787																	1	
																			Σ TAPS	314	

L_T = 1846.91 IN.

TABLE VIII LEFT SRB PRESSURE TAP NUMBERS

VIEW FWD LOOKING AFT



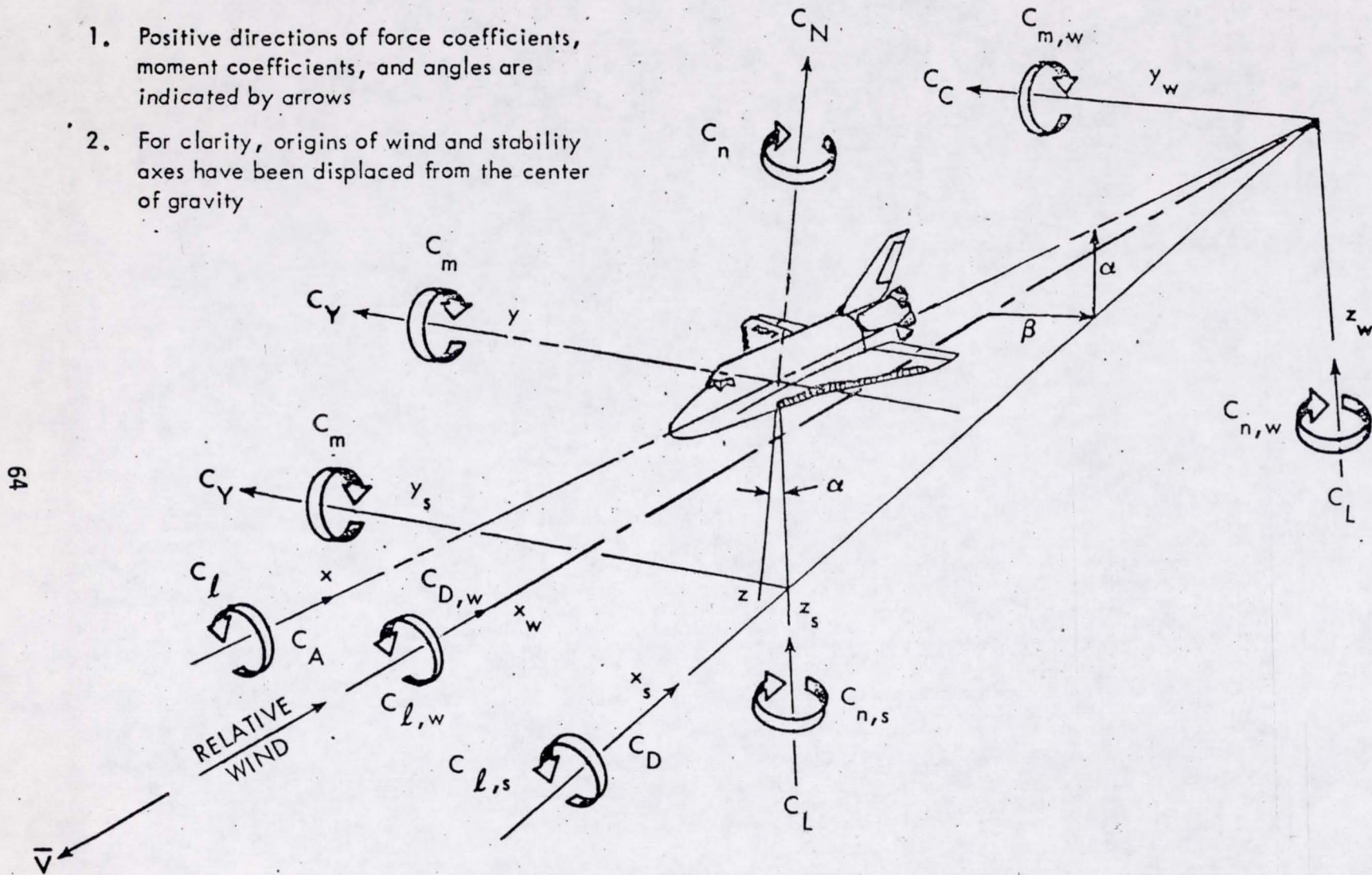
X_3 IN. FULL SCALE	X_3 IN. MODEL SCALE	X_3/L_3	ϕ DEGREES									NO. TAPS	Σ NO TAPS
			0	45	90	135	180	225	270	315			
200	6	0	788									1	1
260	7.8	0.0235	789	790	791	792	793	794	795	796		8	9
370	11.1	0.0950	797	798	799	800	801	802	803	804		8	17
400	12.0	0.1118	805	806	807	808	809	810	811	812		8	25
450	13.5	0.1397	813	814	815	816	817	818	819	820		8	33
550	16.5	0.1956	821	822	823	824	825	826	827	828		8	41
700	21.0	0.2794	829	830	831	832	833	834	835	836		8	49
850	25.5	0.3632	837	838	839	840	841	842	843	844		8	57
1050	31.5	0.4250	845	846	847	848	849	850	851	852		8	65
1250	37.5	0.5867	853	854	855	856	857	858	859	860		8	73
1450	43.5	0.6985	861	862	863	864	865	866	867	868		8	81
* 1503	45.09	0.7280	869				871		872			3	84
* 1505	45.15	0.7290	873		874		875		876			4	88
* 1517	45.51	0.7360	877		878		879		880			4	92
* 1519	45.57	0.737	881				883		884			3	95
1650	49.5	0.8102	885	886	887	888	889	890	891	892		8	103
1750	52.5	0.8661	893	894	895	896	897	898	899	900		8	111
* 1832.9	54.99	0.9120	909		910		911		912			4	115
* 1833.9	55.02	0.9130	913		914		915		916			4	119
1872.2	56.17	0.9344	917	918	919	920	921	922	923	924		8	127
1911.7	57.35	0.9565	925	926	927	928	929	930	931	932		8	135
SKIRT BASE			933			934			935			3	138
NOZZLE BASE			936									1	139

$L_3 = 1789.60$ IN.

* PRESSURE TAPS AT 77.5 IN. RADIUS ON THE STRUCTURAL RINGS

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



64

a. Forces and Moments
Figure 1. - Axis Systems.

DATE: November 1976

PUBLICATION CHANGE

THE FOLLOWING CHANGES APPLY TO PUBLICATION: Space Shuttle Data Reports
TITLE: RESULTS OF A PRESSURE LOADS INVESTIGATION ON A 0.030-SCALE MODEL
(47-OTS) OF THE INTEGRATED SPACE SHUTTLE VEHICLE CONFIGURATION 5 IN THE NASA
AMES RESEARCH CENTER 11x11 FOOT LEG OF THE UNITARY PLAN WIND TUNNEL (IA81A)
NUMBER: DMS-DR-2169 DATE: November 1975 BRANCH: DATAMAN

NASA CR-141,836, Volume 1
NASA CR-141,837, Volume 2
NASA CR-141,838, Volume 3
NASA CR-141,839, Volume 4
NASA CR-141,840, Volume 5
NASA CR-141,841, Volume 6
NASA CR-141,842, Volume 7

Subsequent to publication of the test data report, it was discovered that the correct SRB base area was 236.46 ft². Initial data reduction done at the test facility was performed using a value of 201.07 ft² as presented in the pre-test report.

This publication change presents corrected test data in the form of plotted data figures, tabulated listings and text information as presented in the data report. Additionally, CAB and CAC coefficients have been added for all balances. This publication change replaces all the force test data contained in Volumes 1 and 2.

Equations used to correct the CAB, CAF and CYNF coefficients are as follows:

Prepared by: G. W. Klug

Reviewed by: D. E. Poucher

Approved: J. L. Glynn
J. L. Glynn, Manager
Data Operations

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

PAGE 1 OF 2

DISTRIBUTION SAME AS FOR
ABOVE PUBLICATION

DATA MANAGEMENT services

SPACE DIVISION



CHRYSLER
CORPORATION

DATE:

PUBLICATION CHANGE

THE FOLLOWING CHANGES APPLY TO PUBLICATION: Space Shuttle Data Reports

TITLE: _____

NUMBER: DMS-DR-2169 DATE: November 1975 BRANCH: DATAMAN

$$CAB_{new} = CAB_{old} * 236.46/201.07$$

$$CAF_{new} = CA - CAC - CAB_{new}$$

$$CYNF_{new} = CYNF_{old} - (CAF_{new} - CAF_{old}) * 250.5/1297.0$$

A complete list of data and page replacements follows.

All Volumes:

Page 26 AbSRB was listed as 201.07, should be 236.46.

Page 55 Max cross-sectional area listed as 201.07 full scale and 0.1809 model scale, should be 236.46 and 0.2128, respectively

Volume 1:

Data Figures 4-51, pages 1-843 replaced.

Volume 2:

Force data tabulation completely replaced, pages 1-113.

PAGE 2 OF 2

DISTRIBUTION SAME AS FOR
ABOVE PUBLICATION

DATA MANAGEMENT services

SPACE DIVISION



CHRYSLER
CORPORATION

DATA REDUCTION (Continued)

$$C_{A_{b_{SRB}}} = -C_{P_{b_{SRB}}} \frac{A_{b_{SRB}}}{S}$$

$$C_{m_{b_o}} = -\frac{x_{b_o}}{l_b} C_{N_{b_o}} + \frac{z_{b_o}}{l_b} C_{A_{b_o}}$$

$$C_{m_{bf}} = -\frac{x_{bf}}{l_b} C_{N_{bf}}$$

$$C_{N_{f_o}} = C_{N_o} - C_{N_{b_o}} - C_{N_{bf}}$$

$$C_{m_{f_o}} = C_{m_o} - C_{m_{b_o}} - C_{m_{bf}}$$

$$C_{A_{f_o}} = C_{A_o} - C_{A_{b_o}}$$

$$C_{A_{f_{ET}}} = C_{A_{ET}} - C_{A_{b_{ET}}}$$

$$C_{A_{f_{SRB}}} = C_{A_{SRB}} - C_{A_{b_{SRB}}}$$

$$A_{b_{ET}} = 597.56 \text{ ft}^2$$

$$A_{bf} = 142.6 \text{ ft}^2$$

$$A_{b_o} = 314.10 \text{ ft}^2$$

$$A_{b_{OMS}} = 122.57 \text{ ft}^2$$

DATA REDUCTION (Concluded)

$$A_{bSRB} = 236.46 \text{ ft}^2$$

$$i_{b_0} = 14.75^\circ$$

$$X_{bf} = 1329.7 \text{ in.}$$

$$X_{b_0} = 1263.0 \text{ in.}$$

$$Z_{b_0} = 336.5 \text{ in.}$$

Base pressure coefficients represented the average pressure on the respective bases. Body flap pressure coefficients were as given by figure 20.

Right SRB forces and moments were calculated as a mirror image of left SRB forces and moments about $\beta = 0$:

$$\begin{pmatrix} \text{Coefficient on} \\ \text{Right SRB} \\ \text{at } +\beta \end{pmatrix} = \begin{pmatrix} \text{Coefficient on} \\ \text{Left SRB} \\ \text{at } -\beta \end{pmatrix}$$

Forces and moment on each component (Orbiter, ET, left SRB, and right SRB) were interpolated versus the respective angle of attack and angle of sideslip of each component to nominal angles. These data were then added to provide total integrated vehicle forces and moments.

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : BOOSTER SOLID ROCKET MOTOR - S21

GENERAL DESCRIPTION : _____

MODEL SCALE: 0.030.

DRAWING NUMBER : VL72-000143D, VL77-000066

<u>DIMENSIONS :</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length (Includes nozzle), In.	<u>1789.40</u>	<u>53.682</u>
Tank Diameter, In.	<u>146.00</u>	<u>4.38</u>
Aft shroud dia., In.	<u>192.00</u>	<u>5.76</u>
Fineness Ratio	<u>9.3198</u>	<u>9.3198</u>
Area - Ft ²		
Max Cross-Sectional	<u>236.46</u>	<u>0.2128</u>
Planform	_____	_____
Wetted	_____	_____
Base	_____	_____
WP of BSRM centerline (Z _T)	<u>400.0</u>	<u>1.200</u>
FS of BSRM nose (X _T)	<u>743.0</u>	<u>22.29</u>
BP of BSRM centerline (Y _T)	<u>250.5</u>	<u>7.515</u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: EXTERNAL TANK - T₂₀

GENERAL DESCRIPTION: _____

NOTE: (Dimensions are to tank structural OML, TBS not included.)

MODEL SCALE: 0.030 .

DRAWING NUMBER VL72-000143D, VL78-000063

<u>DIMENSION:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length , In.	<u>1844.275</u>	<u>55.328</u>
Max Width Dia., In.	<u>331.00</u>	<u>9.93</u>
Max Depth	<u> </u>	<u> </u>
Fineness Ratio	<u>5.687</u>	<u>5.687</u>
Area - Ft ²		
Max Cross-Sectional	<u>594.678</u>	<u>0.053</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

November, 1975

DMS-DR-2169
NASA CR-141,842

RESULTS OF A PRESSURE LOADS INVESTIGATION ON A
0.030-SCALE MODEL (47-OTS) OF THE INTEGRATED
SPACE SHUTTLE VEHICLE CONFIGURATION 5 IN THE
NASA AMES RESEARCH CENTER 11 X 11 FOOT LEG OF THE
UNITARY PLAN WIND TUNNEL (IA81A)

VOLUME 7 OF 7

by

E. Chee
Shuttle Aero Sciences
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: ARC 11-019-1
NASA Series Number: IA81A
Model Number: 47-OTS
Test Dates: 26 July through 8 August 1974
Occupancy Hours: 184

FACILITY COORDINATOR:

Jack Brownson
Ames Research Center
Mail Stop 227-5
Moffett Field, Calif. 94035

Phone: (415) 965-6262

AERODYNAMICS ANALYSIS ENGINEER:

H. Sexton, J. S. Stone
Rockwell International
Space Division
12214 Lakewood Blvd.
Mail Code AC07
Downey, Calif. 90241

Phone: (213) 922-4831

PROJECT ENGINEERS:

T. J. Dziubala, E. Chee,
M. D. Milam
Rockwell International
Space Division
12214 Lakewood Blvd.
Mail Code AC07
Downey, Calif. 90241

Phone: (213) 922-4620

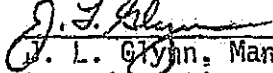
J. C. Monfort
Ames Research Center
Mail Stop 227-5
Moffett Field, Calif. 94035


Phone: (415) 965-6258

DATA MANAGEMENT SERVICES:

Prepared by: Liaison--D. W. Hersey
Operations--M. M. Mann, H. C. Zimmerle, G. W. Klug, Jr.

Reviewed by: D. E. Poucher

Approved: 
J. L. Glynn, Manager
Data Operations

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

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

RESULTS OF A PRESSURE LOADS INVESTIGATION ON A
0.030-SCALE MODEL (47-OTS) OF THE
INTEGRATED SPACE SHUTTLE VEHICLE CONFIGURATION 5
IN THE NASA AMES RESEARCH CENTER 11 x 11 FOOT LEG OF
THE UNITARY PLAN WIND TUNNEL (IA81A)

by

E. Chee, Rockwell International Space Division

ABSTRACT

Results of wind tunnel test IA81A are presented. The model was a 0.030-scale representation of the integrated Space Shuttle Vehicle Configuration 5. Testing was conducted in the NASA Ames Research Center 11 x 11 foot leg of the Unitary Plan Wind Tunnel to investigate pressure distributions for aeroloads analyses at Mach numbers from 0.9 through 1.4. Angles of attack and sideslip were varied from -6 to +6 degrees.

This report consists of 7 volumes of force and pressure data. They are arranged in the following manner:

Volume No.	Contents
1	IA81A Plotted Force Data
2	IA81A Tabulated Force Data IA81A Plotted Pressure Data
3	IA81A Tabulated Pressure Data
	(a) orbiter fuselage pages 1-447
	(b) left vertical tail surface pages 448-615

ABSTRACT (Concluded)

Volume No.	Contents	
4	IA81A Tabulated Pressure Data	
	(a) left lower wing surface	pages 616-1254
5	IA81A Tabulated Pressure Data	
	(a) left upper wing surface	pages 1255-1940
6	IA81A Tabulated Pressure Data	
	(a) right upper wing surface	pages 1941-2179
	(b) right lower wing surface	pages 2180-2347
	(c) SRM booster	pages 2348-2628
7	IA81A Tabulated Pressure Data	
	(a) external tank	pages 2629-3076
	(b) miscellaneous orifices	pages 3077-3235

TABLE OF CONTENTS

	Page
ABSTRACT	iii
INDEX OF MODEL FIGURES	2
INDEX OF DATA FIGURES	3
NOMENCLATURE	12
CONFIGURATIONS INVESTIGATED	21
TEST FACILITY DESCRIPTION	23
DATA REDUCTION	24
TABLES	
I. TEST CONDITIONS	27
II. DATA SET/RUN NUMBER COLLATION SUMMARY	28
III. MODEL DIMENSIONAL DATA	32
IV. ORBITER LEFT WING PRESSURE TAP NUMBERS	59
V. ORBITER FUSELAGE PRESSURE TAP NUMBERS	60
VI. ORBITER VERTICAL TAIL PRESSURE TAP NUMBERS	61
VII. EXTERNAL TANK PRESSURE TAP NUMBERS	62
VIII. LEFT SRB PRESSURE TAP NUMBERS	63
FIGURES	
MODEL	64
DATA	85
VOLUME 1 (FORCE)	
VOLUME 2 (PRESSURE)	
APPENDIX	
TABULATED SOURCE DATA	
VOLUME 2 (FORCE)	
VOLUMES 3, 4, 5, 6, 7 (PRESSURE)	85

INDEX OF MODEL FIGURES

Figure	Title	Page
1.	Axis Systems	
	a. Forces and Moments	64
	b. Model Attitude Definition	65
	c. Elevation Electrical Hookup and Sign Conventions	66
2.	Model Sketches	
	a. Mated Vehicle	67
	b. LVA' Integrated Vehicle Three View	68
	c. (T ₂₈) External Tank Protuberances	69
	d. Orbiter Upper Wing and Vertical Tail Pressure Tap Locations	70
	e. Orbiter Wing Pressure Tap Locations	71
	f. Orbiter Forward Fuselage Pressure Tap Locations	72
	g. Orbiter Aft Fuselage Pressure Tap Locations	73
	h. Orbiter Base Pressure Tap Locations	74
	i. External Tank Forward Pressure Tap Locations	75
	j. External Tank Mid Pressure Tap Locations	76
	k. External Tank Aft Pressure Tap Locations	77
	l. SRB Pressure Tap Locations	78
	m. Model Installation Side View	79
	n. Model Installation Top View	80
	o. Orbiter Body Flap Pressure Coefficients	81
3.	Model Photographs	
	a. Side View	82
	b. Rear View	83

INDEX OF DATA FIGURES

FIGURE NUMBER	TITLE	CONDITIONS VARYING	PLOTTED COEFFICIENTS SCHEDULE	PAGES
<u>VOLUME 1</u>				
4	LONGITUDINAL CHARACTERISTICS OF LAUNCH VEHICLE COMPONENTS, M = 0.6 DEV = 8/4	BETA I	A	1-20
5	LONGITUDINAL CHARACTERISTICS OF LAUNCH VEHICLE COMPONENTS, M = 0.6 DEV = 8/0	BETA I	A	21-40
6	LONGITUDINAL CHARACTERISTICS OF LAUNCH VEHICLE COMPONENTS, M = 0.9 DEV = 8/4	BETA I	A	41-68
7	LONGITUDINAL CHARACTERISTICS OF LAUNCH VEHICLE COMPONENTS, M = 0.9 DEV = 8/6	BETA I	A	69-96
8	LONGITUDINAL CHARACTERISTICS OF LAUNCH VEHICLE COMPONENTS, M = 0.9 DEV = 0/0	BETA I	A	97-124
9	LONGITUDINAL CHARACTERISTICS OF LAUNCH VEHICLE COMPONENTS, M = 0.9 DEV = 10/4	BETA I	A	125-152
10	LONGITUDINAL CHARACTERISTICS OF LAUNCH VEHICLE COMPONENTS, M = 1.1 DEV = 8/4	BETA I	A	153-180
11	LONGITUDINAL CHARACTERISTICS OF LAUNCH VEHICLE COMPONENTS, M = 1.1 DEV = 8/6	BETA I	A	181-208
12	LONGITUDINAL CHARACTERISTICS OF LAUNCH VEHICLE COMPONENTS, M = 1.1 DEV = 0/0	-	A	209-212
13	LONGITUDINAL CHARACTERISTICS OF LAUNCH VEHICLE COMPONENTS, M = 1.1 DEV = 10/4	BETA I	A	213-232
14	LONGITUDINAL CHARACTERISTICS OF LAUNCH VEHICLE COMPONENTS, M = 1.25 DEV = 8/4	BETA I	A	233-260

INDEX OF DATA FIGURES (Continued)

FIGURE NUMBER	TITLE	CONDITIONS VARYING	PLOTTED COEFFICIENTS SCHEDULE	PAGES
15	LONGITUDINAL CHARACTERISTICS OF LAUNCH VEHICLE COMPONENTS, $M = 1.25$ $DEV = 0/0$	—	A	261-264
16	LONGITUDINAL CHARACTERISTICS OF LAUNCH VEHICLE COMPONENTS, $M = 1.25$ $DEV = 10/4$	BETA I	A	265-276
17	LONGITUDINAL CHARACTERISTICS OF LAUNCH VEHICLE COMPONENTS, $M = 1.4$ $DEV = 8/0$	BETA I	A	277-304
18	LONGITUDINAL CHARACTERISTICS OF LAUNCH VEHICLE COMPONENTS, $M = 1.4$ $DEV = 8/-4$	BETA I	A	305-332
19	LONGITUDINAL CHARACTERISTICS OF LAUNCH VEHICLE COMPONENTS, $M = 1.4$ $DEV = 0/0$	—	A	333-336
20	LATERAL-DIRECTIONAL CHAR. OF LAUNCH VEHICLE COMPONENTS, $M = 0.6$ $DEV = 8/4$	ALPHA I	B	337-356
21	LATERAL-DIRECTIONAL CHAR. OF LAUNCH VEHICLE COMPONENTS, $M = 0.6$ $DEV = 8/0$	ALPHA I	B	367-396
22	LATERAL-DIRECTIONAL CHAR. OF LAUNCH VEHICLE COMPONENTS, $M = 0.9$ $DEV = 8/4$	ALPHA I	B	397-431
23	LATERAL-DIRECTIONAL CHAR. OF LAUNCH VEHICLE COMPONENTS, $M = 0.9$ $DEV = 8/6$	ALPHA I	B	432-466
24	LATERAL-DIRECTIONAL CHAR. OF LAUNCH VEHICLE COMPONENTS, $M = 0.9$ $DEV = 0/0$	ALPHA I	B	467-501
25	LATERAL-DIRECTIONAL CHAR. OF LAUNCH VEHICLE COMPONENTS, $M = 0.9$ $DEV = 10/4$	ALPHA I	B	502-536

INDEX OF DATA FIGURES (Continued)

FIGURE NUMBER	TITLE	CONDITIONS VARYING	PLOTTED COEFFICIENTS SCHEDULE	PAGES
26	LATERAL-DIRECTIONAL CHAR. OF LAUNCH VEHICLE COMPONENTS, M = 1.1 DEV = 8/4	ALPHAI	B	537-571
27	LATERAL-DIRECTIONAL CHAR. OF LAUNCH VEHICLE COMPONENTS, M = 1.1 DEV = 8/6	ALPHAI	B	572-606
28	LATERAL-DIRECTIONAL CHAR. OF LAUNCH VEHICLE COMPONENTS, M = 1.1 DEV = 0/0	—	B	607-611
29	LATERAL-DIRECTIONAL CHAR. OF LAUNCH VEHICLE COMPONENTS, M = 1.1 DEV 10/4	ALPHAI	B	612-636
30	LATERAL-DIRECTIONAL CHAR. OF LAUNCH VEHICLE COMPONENTS, M = 1.25 DEV = 8/4	ALPHAI	B	637-671
31	LATERAL-DIRECTIONAL CHAR. OF LAUNCH VEHICLE COMPONENTS, M = 1.25 DEV = 0/0	—	B	672-676
32	LATERAL-DIRECTIONAL CHAR. OF LAUNCH VEHICLE COMPONENTS, M = 1.25 DEV = 10/4	ALPHAI	B	677-691
33	LATERAL-DIRECTIONAL CHAR. OF LAUNCH VEHICLE COMPONENTS, M = 1.4 DEV = 8/0	ALPHAI	B	692-726
34	LATERAL-DIRECTIONAL CHAR. OF LAUNCH VEHICLE COMPONENTS, M = 1.4 DEV = 8/-4	ALPHAI	B	727-761
35	LATERAL-DIRECTIONAL CHAR. OF LAUNCH VEHICLE COMPONENTS, M = 1.4 DEV 0/0	—	B	762-766
36	ELEVON HINGE MOMENT COEFFICIENTS, M = 0.6 BETA0, ELV-0B		C	767-771

INDEX OF DATA FIGURES (Continued)

FIGURE NUMBER	TITLE	CONDITIONS VARYING	PLOTTED COEFFICIENTS SCHEDULE	PAGES
37	ELEVON HINGE MOMENT COEFFICIENTS, M = 0.9	BETA0, ELV-OB, ELV-IB	C	772-778
38	ELEVON HINGE MOMENT COEFFICIENTS, M = 1.1	BETA0, ELV-OB, ELV-IB	C	779-785
39	ELEVON HINGE MOMENT COEFFICIENTS, M = 1.25	BETA0, ELV-IB	C	786-792
40	ELEVON HINGE MOMENT COEFFICIENTS, M = 1.4	BETA0, ELV-OB	C	793-799
41	ORBITER BASE AXIAL FORCE COEFFICIENT	MACH, BETA0, ELV-IB, ELV-OB	D	800-806
42	EXTERNAL TANK BASE AXIAL FORCE COEFFICIENT	MACH, BETAT, ELV-IB, ELV-OB	E	807-813
43	LEFT SRB BASE AXIAL FORCE COEFFICIENT	MACH, BETAL, ELV-IB, ELV-OB	F	814-820
44	RIGHT SRB BASE AXIAL FORCE COEFFICIENT	MACH, BETAR, ELV-IB, ELV-OB	G	821-827
45	SUMMARY, FOREBODY AXIAL FORCE COEFFICIENT AT ALPHA = BETA = 0.0	ELV-IB, ELV-OB	H	828
46	SUMMARY, LONGITUDINAL AERODYNAMIC CENTER LOCATION	ELV-IB, ELV-OB	I	829
47	SUMMARY, NORMAL FORCE COEFFICIENT SLOPE AT BETA = 0.0	ELV-IB, ELV-OB	J	830

INDEX OF DATA FIGURES (Continued)

FIGURE NUMBER	TITLE	CONDITIONS VARYING	PLOTTED COEFFICIENTS SCHEDULE	PAGES
48	SUMMARY, DIRECTIONAL AERODYNAMIC CENTER LOCATION	ELV-IB, ELV-OB	K	831
49	SUMMARY, SIDE FORCE COEFFICIENT SLOPE AT ALPHA = 0.0	ELV-IB, ELV-OB	L	832
50	SUMMARY, ELEVON HINGE MOMENT COEFFICIENTS	ELV-IB, ELV-OB, ALPHA	M	833-840
51	SUMMARY, ELEVON EFFECTIVENESS, ALPHA = 0.0, BETA = 0.0	ELV-IB, ELV-OB	N	841-843
<u>VOLUME 2</u>				
7 52	FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6	PHI BETA0, ALPHA0	0	844-861
53	FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9	PHI BETA0, ALPHA0	0	862-879
54	FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1	PHI BETA0, ALPHA0	0	880-897
55	FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25	PHI BETA0, ALPHA0	0	898-915
56	FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4	PHI BETA0, ALPHA0	0	916-933
57	EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6	PHI BETAT, ALPHAT	P	934-951

INDEX OF DATA FIGURES (Continued)

FIGURE NUMBER	TITLE	CONDITIONS VARYING	PLOTTED COEFFICIENTS SCHEDULE	PAGES
58	EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9	PHI BETAT, ALPHAT	P	952-969
59	EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1	PHI BETAT, ALPHAT	P	970-987
60	EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25	PHI BETAT, ALPHAT	P	988-1005
61	EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4	PHI BETAT, ALPHAT	P	1006-1023
62	SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6	PHI BETAL, ALPHAL	Q	1024-1041
63	SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9	PHI BETAL, ALPHAL	Q	1042-1059
64	SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1	PHI BETAL ALPHAL	Q	1060-1077
65	SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25	PHI BETAL, ALPHAL	Q	1078-1095
66	SRB LONG. PRESSURE DIST. ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4	PHI BETAL, ALPHAL	Q	1096-1113
67	VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6	Z/BV BETAO, ALPHAO	R	1114-1122
68	VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9	Z/BV BETAO, ALPHAO	R	1123-1131

INDEX OF DATA FIGURES (Continued)

FIGURE NUMBER	TITLE	CONDITIONS VARYING	PLOTTED COEFFICIENTS SCHEDULE	PAGES
69	VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1	Z/BV BETA0, ALPHA0	R	1132-1140
70	VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25	Z/BV BETA0, ALPHA0	R	1141-1149
71	VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4	Z/BV BETA0, ALPHA0	R	1150-1158
72	WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6	Y/BW BETA0, ALPHA0	S	1159-1185
73	WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9	Y/BW BETA0, ALPHA0	S	1186-1212
74	WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1	Y/BW BETA0, ALPHA0	S	1213-1239
75	WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25	Y/BW BETA0, ALPHA0	S	1240-1266
76	WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4	Y/BW BETA0, ALPHA0	S	1267-1293
77	VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O = 0/0, SPDBRK = 55, MACH = 0.6	Z/BV, ALPHA0	R	1294-1300
78	VERT. TAIL CHORDWISE PRESS. DIST ELEVON I/O = 0/0, SPDBRK = 55, MACH = 0.9	Z/BV, ALPHA0	R	1301-1307
79	VERT. TAIL CHORDWISE PRESS. DIST ELEVON I/O = 0/0, SPDBRK = 55, MACH = 1.1	Z/BV, ALPHA0	R	1308-1314

INDEX OF DATA FIGURES (Continued)

FIGURE NUMBER	TITLE	CONDITIONS VARYING	PLOTTED COEFFICIENTS SCHEDULE	PAGES
80	VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O = 0/0, SPDBRK = 55, MACH = 1.25	Z/BV, ALPHAO	R	1315-1322
81	WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK = 0, MACH = 0.6	ELV-OB, ALPHAO, Y/BW	S	1323-1349
82	WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK = 0, MACH = 0.9	ELV-IB, ELV-OB, ALPHAO, Y/BW	S	1350-1376
83	WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK = 0, MACH = 1.1	ELV-IB, ELV-OB, ALPHAO, Y/BW	S	1377-1403
84	WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK = 0, MACH = 1.25	ELV-IB, ELV-OB, ALPHAO, Y/BW	S	1404-1430
85	WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK = 0, MACH = 1.4	ELV-IB, ELV-OB, ALPHAO, Y/BW	S	1431-1457

INDEX OF DATA FIGURES (Concluded)

PLOTTED COEFFICIENTS SCHEDULE:

- A) CAF, CNF, CLMF versus ALPHAI
CNF versus CLMF
- B) CY, CYNF, CBL versus BETAI
CY versus CYNF
CY versus CBL
- C) CHEO, CHEI versus ALPHAO
- D) CABO versus ALPHAO
- E) CABET versus ALPHAT
- F) CABSRB versus ALPHAL
- G) CABSRB versus ALPHAR
- H) CAFAFO versus MACH
- I) XAC/LV versus MACH
- J) CNALFA versus MACH
- K) YAC/LV versus MACH
- L) CYBETA versus MACH
- M) CHEO, CHEI versus MACH
- N) DCAF, DCNF, DCLMF versus MACH
- O) CP versus X/LB
- P) CP versus X/LT
- Q) CP versus X/LS
- R) CP versus X/CV
- S) CP versus X/CW

NOMENCLATURE
General

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
a		speed of sound; m/sec, ft/sec
C_p	CP	pressure coefficient; $(P_1 - P_\infty)/q$
M	MACH	Mach number; V/a
P		pressure; N/m^2 , psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m^2 , psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m^3 , slugs/ft ³

Reference & C.G. Definitions

A_b		base area; m^2 , ft^2
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
$\frac{l}{c}$ _{REF}	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m^2 , ft^2
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

ORIGINAL PAGE IS
OF POOR QUALITY

NOMENCLATURE (Continued)

Body-Axis System

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(P_b - P_{\infty})/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CIM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$

Stability-Axis System

C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CIM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CIN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$
L/D	L/D	lift-to-drag ratio; C_L/C_D

NOMENCLATURE (Continued)
 Additions to Standard Nomenclature



<u>Symbol</u>	<u>Plot Symbol</u>	<u>Defintion</u>
A_{bET}		external tank base area, ft ²
A_{bf}		body flap upper surface area, ft ²
A_{bO}		Orbiter base area, ft ²
A_{bOMS}		OMS pod base area, ft ²
A_{bSRB}		SRB base area, ft ²
$C_{A_{bET}}$	CABET	external tank base axial force coefficient
$C_{A_{bO}}$	CABO	Orbiter base axial force coefficient
$C_{A_{bSRB}}$	CABSRB	SRB base axial force coefficient
$C_{A_{ET}}$		external tank total axial force coefficient
$C_{A_{fET}}$		external tank forebody axial force coefficient
$C_{A_{fO}}$		Orbiter forebody axial force coefficient
$C_{A_{fSRB}}$		SRB forebody axial force coefficient
C_{A_O}		Orbiter total axial force coefficient



NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
$C_{p_{b_{OMS}}}$		OMS pod average base pressure coefficient
$C_{p_{b_{SRB}}}$		SRB average base pressure coefficient
C_{p_i}		pressure coefficient associated with i^{th} tap
ET		external tank
i_{b_0}		Orbiter base incidence angle to a line of constant X_0 , deg.
l_b		Orbiter fuselage length, in.
MRP		moment reference point
OMS		orbital maneuvering system
RN/FT	RN/L	unit Reynolds number, million per foot
S_e		elevon surface area, ft^2
SRB		solid rocket booster
X_{bf}		longitudinal distance from MRP to bodyflap area centroid, in.
X_{b_0}		longitudinal distance from MRP to Orbiter base area centroid, in.
X/C	X/CW	chordwise location on wing
X/Cv	X/CV	chordwise location on vertical tail
X_0		Orbiter longitudinal station, in.
X_0/L_0	X/LT	location on Orbiter, fraction of Orbiter body length aft of Orbiter nose

NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
$C_{A_{SRB}}$		SRB total axial force coefficient
\bar{C}_e		elevon mean aerodynamic chord, in
$C_{h_{e_I}}$	CHEI	inboard elevon hinge moment coefficient
$C_{h_{e_O}}$	CHEO	outboard elevon hinge moment coefficient
$C_{m_{bf}}$	CMBF	bodyflap upper surface pitching moment coefficient
$C_{m_{b_O}}$	CMBO	Orbiter base pitching moment coefficient
$C_{m_{f_O}}$		Orbiter forebody pitching moment coefficient
C_{m_O}		Orbiter total pitching moment coefficient
$C_{n_{bf}}$		bodyflap upper surface normal force coefficient
$C_{n_{b_O}}$		Orbiter base normal force coefficient
$C_{n_{f_O}}$		Orbiter forebody normal force coefficient
C_{n_O}		Orbiter total normal force coefficient
$C_{p_{b_{ET}}}$		external tank average base pressure coefficient
$C_{p_{bf}}$		bodyflap average upper surface pressure coefficient

NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
$C_{P_{b_0}}$		Orbiter average base pressure coefficient
X_S	XS	SRB longitudinal station, in.
X_S/l_S	X/LS	location on SRB, fraction of SRB body length aft of SRB nose
X_T	XT	external tank longitudinal station, in.
X_T/l_T	X/LT	location on ET, fraction of ET body length aft of ET nose
Y_O	YO	Orbiter lateral station, in.
Y_S	YS	SRB lateral station, in.
Y_T	YT	external tank lateral station, in.
Z_{b_0}		vertical distance from MRP to Orbiter base area centroid, in.
Z_O	ZO	Orbiter vertical station, in.
Z_S	ZS	SRB vertical station, in
Z_T	ZT	external tank vertical station, in.
α_0	ALPHAO	Orbiter angle of attack, degrees
α_{S_L}	ALPHAL	left SRB angle of attack, degrees
α_{S_R}	ALPHAR	right SRB angle of attack, degrees
α_T	ALPHAT	external tank angle of attack, degrees
β_0	BETAO	Orbiter angle of sideslip, degrees

NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
β_{BL}	BETAL	left SRB angle of sideslip, degrees
β_{SR}	BETAR	right SRB angle of sideslip, degrees
β_T	BETAT	external tank angle of sideslip, degrees
δ_{ei}	ELV-IB	inboard elevon deflection angle, degrees
δ_{eo}	ELV-OB	outboard elevon deflection angle, degrees
δ_R	RUDDER	rudder deflection angle, degrees
δ_{SB}	SPDBRK	speedbrake deflection angle, degrees
η	2Y/b	spanwise station, 2Y/b
ϕ	PHI	radial location, degrees
C_{Ac}		orbiter sting cavity axial force coefficient
β_I	BETAI	integrated vehicle angle of sideslip, degrees
α_I	ALPHAI	integrated vehicle angle of attack, degrees
X/LB	X/LB	longitudinal position/body length (fuselage)
Y/BW	Y/BW	local spanwise position/wing span
Z/BV	Z/BV	local spanwise position/vertical tail span
SRM	SRM	solid rocket motor

NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
C_{n_f}	CYNF	forebody yawing moment coefficient, body axis system
C_{m_f}	CLMF	forebody pitching moment coefficient
C_{N_f}	CNF	forebody normal force coefficient
C_{A_f0}	CAFAFO	forebody axial force coefficient at zero alpha
C_{N_α}	CNALFA	derivative of normal-force coefficient with respect to alpha, per degree
X_{cp}/ℓ_v	XAC/LV	vertical tail chordwise center of pressure location
Y_{cp}/ℓ_v	YAC/LV	vertical tail spanwise center of pressure location
C_{Y_β}	CYBETA	derivative of side-force coefficient with respect to beta, per degree
ΔC_{A_f}	DCAF	incremental forebody axial force coefficient
ΔC_{N_f}	DCNF	incremental forebody normal force coefficient
ΔC_{m_f}	DCLMF	incremental forebody pitching moment coefficient
CHM1	CHM1	contributions of the forward bridge to the inboard elevon hinge moment coefficient
CHM2	CHM2	contributions of the aft bridge to the inboard elevon hinge moment coefficient
CHM3	CHM3	contributions of the forward bridge to the outboard elevon hinge moment coefficient
CHM4	CHM4	contributions of the aft bridge to the outboard elevon hinge moment coefficient

NOMENCLATURE (Concluded)

Data Set Identifiers

The fourth letter of the data set identifier indicates the component,
e.g., RETT04.

Force

O	Orbiter
T	External Tank
L	Left SRB
R	Right SRB
H	Orbiter - Hinge moment
I	Integrated Vehicle

Pressure

B	Orbiter Fuselage
L	Left Wing lower surface
U	Left Wing upper surface
W	Right Wing lower surface
R	Right Wing upper surface
V	Left Vertical Tail
S	SRM Booster
T	External Tank
C	Miscellaneous Orifices

CONFIGURATIONS INVESTIGATED

The model was a 0.030-scale representation of the Rockwell International Space Shuttle Integrated Vehicle. The Orbiter was per VL70-000140A/B lines. The external tank represented VL78-000063 lines. The solid rocket motors were per VL72-000066 lines. Figures 2a, b, and c present sketches of the model configuration. Model simulation included attach structure protuberances, fairings, fuel feed lines, vent lines, etc. (basic model construction was of ARMCO 17-4 steel).

Model forces and moments were measured by 3 Task Corporation six component balances. A 2.5 in. MK XXA was mounted in the Orbiter. A 2.0 in. MK IIIC was mounted in the external tank. A 1.5 in. MK IIC was mounted in the LH SRB. The balances are attached to stings entering each component through the base areas. Figures 2m and 2n show the balance locations in the model. The RH wing inboard and outboard elevon panels are instrumented with hinge moment gages as shown in figure 1c.

Surface and base pressures were measured on the Orbiter, external tank and solid rocket motors. The Orbiter was instrumented with a total of 480 pressure-orifices, of which 6 were base and cavity pressures. The external tank was instrumented with a total of 314 pressure orifices. The LH SRM was instrumented with a total of 149 pressure orifices. Orifice locations are presented in tables IV through VIII and figures 2d through 2l.

The following model shorthand configuration notation was used:

LVA' = AT₂₈ thru 32 FL₁₀ FL₁₁ FR₁₀ N₈₆ O₁ PT₁₂ PT₂₂₋₂₇ S₂₁ T₂₈

CONFIGURATIONS INVESTIGATED (Concluded)

AT ₂₈ thru 32	=	Attach hardware structure
FL ₁₀	=	LH ₂ feedline
FL ₁₁	=	LO ₂ feedline
FR ₁₀	=	Umbilical door fairing.
N ₈₆	=	Nozzles for solid rocket boosters
O ₁	=	B ₂₆ C ₉ E ₄₄ F ₉ M ₁₆ N ₂₈ R ₅ V ₈ W ₁₁₆
PT ₁₂	=	Lightning rod on nose of T ₂₈
PT ₂₂ thru 27	=	External protuberance
S ₂₁	=	Solid rocket boosters
T ₂₈	=	External tank

Where model dimensions are as described in table III. The LVA' configuration was tested with speed brake gap both sealed and open and with elevon gap both sealed and open. The (instrumented) right elevon gap was sealed by a permanent sponge rubber seal. The left elevon gap was sealed with plaster. Speed brake gaps were sealed by red wax.

TEST FACILITY DESCRIPTION

The Ames Research Center Unitary Plan 11 by 11 Foot Transonic Wind Tunnel is a closed-circuit, air-medium, variable-density facility capable of attaining Mach numbers from 0.6 to 1.4 at Reynolds numbers from $1.7 \times 10^6/\text{ft}$ to $9.4 \times 10^6/\text{ft}$. The test section is 22 feet long, and models are installed on internal strain-gauge balances mounted to sting-type support systems.

Shadowgraph and Schlieren photographic equipment is available, and pressure transducer instrumentation is provided.

Tunnel operating temperature is 580°R . Extended high Reynolds number runs are restricted by power availability.

DATA REDUCTION

All balances data were reduced to coefficients about a moment reference point located at:

$$X_T = 976.0 \text{ in.}$$

$$Y_T = 0.0 \text{ in.}$$

$$Z_T = 400.0 \text{ in.}$$

The following reference dimensions were used:

$$S = 2690.0 \text{ ft}^2$$

$$x_b = 1297.0 \text{ in.}$$

Hinge moment data were reduced about their respective hinge lines using the following reference values:

$$S_e = 210.0 \text{ ft}^2$$

$$\bar{c}_e = 90.7 \text{ in.}$$

Base and forebody coefficients were calculated as follows:

$$C_{N_{b_0}} = -C_{P_{b_0}} \frac{A_{b_0}}{S} \tan i_{b_0} - C_{P_{bOMS}} \frac{A_{bOMS}}{S}$$

$$C_{N_{bf}} = -C_{P_{bf}} \frac{A_{bf}}{S}$$

$$C_{A_{b_0}} = -C_{P_{b_0}} \frac{A_{b_0}}{S} - C_{P_{bOMS}} \frac{A_{bOMS}}{S}$$

$$C_{A_{bET}} = -C_{P_{bET}} \frac{A_{bET}}{S}$$

DATA REDUCTION (Continued)

$$C_{A_{bSRB}} = -C_{P_{bSRB}} \frac{A_{bSRB}}{S}$$

$$C_{m_{b_0}} = -\frac{x_{b_0}}{l_b} C_{N_{b_0}} + \frac{z_{b_0}}{l_b} C_{A_{b_0}}$$

$$C_{m_{bf}} = -\frac{x_{bf}}{l_b} C_{N_{bf}}$$

$$C_{N_{f_0}} = C_{N_0} - C_{N_{b_0}} - C_{N_{bf}}$$

$$C_{m_{f_0}} = C_{m_0} - C_{m_{b_0}} - C_{m_{bf}}$$

$$C_{A_{f_0}} = C_{A_0} - C_{A_{b_0}}$$

$$C_{A_{f_{ET}}} = C_{A_{ET}} - C_{A_{b_{ET}}}$$

$$C_{A_{f_{SRB}}} = C_{A_{SRB}} - C_{A_{b_{SRB}}}$$

$$A_{b_{ET}} = 597.56 \text{ ft}^2$$

$$A_{bf} = 142.6 \text{ ft}^2$$

$$A_{b_0} = 314.10 \text{ ft}^2$$

$$A_{b_{OMS}} = 122.57 \text{ ft}^2$$

DATA REDUCTION (Concluded)

$$A_{b_{SRB}} = 201.07 \text{ ft}^2$$

$$i_{b_0} = 14.75^\circ$$

$$x_{bf} = 1329.7 \text{ in.}$$

$$x_{b_0} = 1263.0 \text{ in.}$$

$$z_{b_0} = 336.5 \text{ in.}$$

Base pressure coefficients represented the average pressure on the respective bases. Body flap pressure coefficients were as given by figure 20.

Right SRB forces and moments were calculated as a mirror image of left SRB forces and moments about $\beta = 0$:

$$\left(\begin{array}{c} \text{Coefficient on} \\ \text{Right SRB} \\ \text{at } +\beta \end{array} \right) = \left(\begin{array}{c} \text{Coefficient on} \\ \text{Left SRB} \\ \text{at } -\beta \end{array} \right)$$

Forces and moment on each component (Orbiter, ET, left SRB, and right SRB) were interpolated versus the respective angle of attack and angle of sideslip of each component to nominal angles. These data were then added to provide total integrated vehicle forces and moments.

TABLE I.

TEST : IA81A		DATE : 8-23-74		
TEST CONDITIONS				
MACH NUMBER	REYNOLDS NUMBER (per foot)	DYNAMIC PRESSURE (pounds/sq.foot)	STAGNATION TEMPERATURE (degrees Fahrenheit)	
0.60	2.25 x 10 ⁶	275	120	
0.90	2.25 x 10 ⁶	370	120	
1.10	2.25 x 10 ⁶	422	120	
1.25	2.25 x 10 ⁶	448	120	
1.40	2.25 x 10 ⁶	461	120	
1.1	3.00 x 10 ⁶	562	120	
0.6	3.20 x 10 ⁶	393	120	
0.9	3.50 x 10 ⁶	589	120	
BALANCE UTILIZED: <u>Task Corp. 2.5" MK XXA, 2.0" MKIIC, 1.5" MKIIC</u>				
	CAPACITY:			COEFFICIENT TOLERANCE:
	2.5"	2.0"	1.5"	
NF	6000	1800	1000	_____
SF	3000	900	500	_____
AF	600	500	100	_____
PM	_____	_____	_____	_____
RM	4000	1000	800	_____
YM	_____	_____	_____	_____
COMMENTS:				

TABLE II.

TEST: IABIA 11-019-1		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: 8-23-74						
DATA SET IDENTIFIER	CONFIGURATION	SCHED.							ALPHA α									
		α	β	$\delta_{1/2}$	δ_R	δ_{SB}	M	RN/ft	$\beta=0$	-6	-4	-2	0	2	4	6	8	10
RET001	LVA' W/SB HL UNSEALED	I	O	0	0	55	1.1	3.0	1									
2	SEALD	E					0.6	3.2	2									
3		E					0.9	3.5	3									
(NOTE) 4		E					1.1	3.0	4									
(NOTE) 5		I	↓	↓		Y	1.25	2.25	5									
6	LVA' BASIC LAUNCH VEHICLE	B	B	8/4		0	0.6	T		11	10		6		7		8	9
7	LVA' W/ LEFT ELEVON HL UNSEALED	A	A				0.9	↓		18	17	16	12	13	14	15		
8							1.1	3.0					19	20	21*			
9		↓	↓				1.1	2.25		25	24	23	26	27	28	22		
10	LVA' W/ LEFT ELEVON HL SEALED	E	O				1.1	T	29									
11		A	A	T			1.25			30	31	32	33	34	35	36		
12		A	A	8/0			1.4			43	44	45	46	47	48/50	49		
13		B	B	8/0			0.6			42	41		37		38		39	40
14		A	A	8/4			1.4			51	52	53	54	55	56	57		
15				8/6			0.9			65	66	67	68	69	70	71		
16				8/6			1.1			58	59	60	61	62	63	64		
17		↓	↓	10/4	↓	Y	0.9	↓		85	86	87	88	89	90	91		
SEE SUPPLEMENTARY SCHEDULE ON FOLLOWING PAGE																		
TYPE OF DATA: α OR β SCHEDULES																		
COEFFICIENT SCHEDULES																		
IDVAR (11) IDVAR (12) NDV																		
SEE PAGE 31																		

TEST RUN NUMBERS

28

* RUN 21 $\beta = -6^\circ$ MISSING** RUN 48 $\alpha = 4, \beta = -6, -4, 0, 4$ *** RUN 56 $\alpha = 0, \beta = -6, -4, -2, 0, 2, 4, 6$

NOTE: DIS 4 & 5 LOST DURING TEST

RUN 50 $\alpha = 4, \beta = 6$

TABLE II (Continued)

TEST: IAB1A 11-019-1			DATA SET/RUN NUMBER COLLATION SUMMARY							DATE: 8-23-74									
DATA SET IDENTIFIER	CONFIGURATION	SCHD.								ALPHA ~ α									
		α	β	$\delta_{ext}/\delta_{int}$	δ_{R}	δ_{SB}	M	RN/ft	$\beta=0$	-6	-4	-2	0	2	4	6	8	10	
RET018	LVA' W/ LEFT TELEVISION AL SEALED	G	G	10/4	0	0	1.1	2.25		92	93	94		95	96				
19		C	C				1.25				97	98		99					
20		E	E	0/0			1.4					72							
21							1.25					74							
22							1.1					76							
23							1.4		73										
24							1.25		75										
25							1.1		77										
26	Y	A	A	Y	Y	Y	0.9	Y		78	79	80	81	82	83	84			

TEST RUN NUMBERS

SEE SUPPLEMENTARY SCHEDULE ON FOLLOWING PAGE 1

TYPE OF DATA

α OR β

SCHEDULES

SEE PAGE 31

COEFFICIENT SCHEDULES

IDVAR (1)

IDVAR (2)

NDV

TABLE II (Continued)

COMPONENT	DATASET IDENTIFIER	INDEPENDENT VARIABLES		FORCE COEFFICIENT SCHEDULE							
Orbiter	RETOXX	BETAO	ALPHAO	CNF	CLMF	CA	CY	CYNF	CBL	*CABT	CAF
External Tank	RETTXX	BETAT	ALPHAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
Left SRB	RETLXX	BETAL	ALPHAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
Hinge Moment	RETHXX	BETAO	ALPHAO	CHEI	CHEO	CHM1	CHM2	CHM3	CHM4		

* Where CABT is $C_{A_b} + C_{A_c}$ for each vehicle component.

TABLE II (Concluded)

α or β Schedules

Schedule A

$\beta \backslash \alpha$	-6	-4	-2	0	2	4	6
-6	-	x	x	x	x	x	-
-4	x	x	-	x	-	x	x
-2	x	-	x	-	x	-	x
0	x	x	-	x	-	x	x
2	x	-	x	-	x	-	x
4	x	x	-	x	-	x	x
6	-	x	x	x	x	x	-

Schedule B

$\beta \backslash \alpha$	-4	0	4	8	10
-6		x			
-4	x	x	x		
0	x	x	x	x	x
4	x	x	x		
6		x			

31

Schedule G

$\beta \backslash \alpha$	-6	-4	0	4	6
-6			x		
-4		x	x	x	
0	x	x	x	x	x
4		x	x	x	
6			x		

Schedule C

$$\beta = \pm 4, 0, \alpha = \pm 4, 0$$

Schedule E

$$\beta = 0, \alpha = -6, -4, -2, 0, 2, 4, 6$$

Schedule I

$$\beta = 0, \alpha = -6, -4, -2, 0, 2, 4, 6, 8$$

TABLE III. - MODEL DIMENSIONAL DATA

MODEL COMPONENT: ATTACH STRUCTURE - AT₂₈

GENERAL DESCRIPTION: Rear orbiter to FT attach structure (LH and RH). 2 Members.

MODEL SCALE: 0.030

MODEL DRAWING NO.: _____

DRAWING NO.: VL78-000063, -000062B

DIMENSIONS:	MEMBER		FULL SCALE	MODEL SCALE
	#1	X _O	<u>1317.00</u>	<u>39.51</u>
		Y _O	<u>- 96.50 (LH)</u>	<u>- 2.895</u>
			<u>96.50 (RH)</u>	<u>2.895</u>
		Z _O	<u>267.50</u>	<u>8.025</u>
		X _T	<u>2058.00</u>	<u>61.740</u>
		Y _T	<u>- 125.68 (LH)</u>	<u>- 3.770</u>
			<u>125.68 (RH)</u>	<u>3.770</u>
		Z _T	<u>515.5</u>	<u>15.465</u>
	#2	X _O	<u>1317.00</u>	<u>39.51</u>
		Y _O	<u>- 96.50 (LH)</u>	<u>- 2.895</u>
			<u>96.50 (RH)</u>	<u>2.895</u>
		Z _O	<u>267.50</u>	<u>8.025</u>
		X _T	<u>1872.00</u>	<u>56.160</u>
		Y _T	<u>-125.68 (LH)</u>	<u>- 3.770</u>
			<u>125.68 (RH)</u>	<u>3.770</u>
		Z _T	<u>504.5</u>	<u>15.135</u>
Diameter, In.	#1		<u>11.5</u>	<u>0.345</u>
	#2		<u>15.5</u>	<u>0.465</u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ATTACH STRUCTURE - AT29

GENERAL DESCRIPTION: Right-hand umbilical fairing to ET cross member attach structure (1 member).

MODEL SCALE: 0.030

MODEL DRAWING NO.: _____

DRAWING NO.: VL78-000062B, -Martin Marietta 82600207000

DIMENSIONS:

		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Umbilical fairing attach point:	X _O	<u>1317.00</u>	<u>39.510</u>
	Y _O	<u>66.316</u>	<u>1.989</u>
	Z _O	<u>247.182</u>	<u>7.415</u>
	X _T	<u>2058.683</u>	<u>61.740</u>
	Y _T	<u>66.316</u>	<u>1.989</u>
	Z _T	<u>583.683</u>	<u>17.510</u>
ET attach point:	X _T	<u>2058.00</u>	<u>61.740</u>
	Y _T	<u>- 12.00</u>	<u>- 0.360</u>
	Z _T	<u>568.25</u>	<u>17.048</u>
	X _O	<u>1317.00</u>	<u>39.510</u>
	Y _O	<u>- 12.00</u>	<u>- 0.36</u>
	Z _O	<u>60.75</u>	<u>1.823</u>
Attach structure dia., in.		<u>4.5</u>	<u>0.135</u>

ORIGINAL PAGE IS
OF POOR QUALITY

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ATTACH STRUCTURE - AT30

GENERAL DESCRIPTION: Forward SRR to ET attach structure (LH and RH).

MODEL SCALE: 0.030

DRAWING NO.: VL78-000066, Martin Marietta 82600204300

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Attach point	X _T	985.675	29.570
	Y _T	-172.50 (LH) 172.50 (RH)	- 5.175 5.175
	Z _T	0.0	0.0
	X _S	442.675	13.280
	Y _S	80.00	2.400
	Z _S	0.0	0.0
	X _O	244.675	7.340
	Y _O	- 184.5 (LH) 184.5 (RH)	-5.535 5.535
	Z _O	0.0	0.0

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ATTACH STRUCTURE - AT₃₁

GENERAL DESCRIPTION: Rear ET to SRB attach structure (LH & RH), 3 members.

MODEL SCALE: 0.030

MODEL DRAWING: _____

DRAWING NO.: VL7E-000063, -000062R, -000066

DIMENSIONS:	<u>MEMBER</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>		
	#1	X _T	2058.00	61.74	
		Y _T	- 171.50 (LH)	- 5.145	
			171.50 (RH)	5.145	
		Z _T	457.00	13.710	
		X _S	1511.00	45.33	
		Y _S	53.24	1.597	
		Z _S	57.00	1.710	
		#2	X _T	2058.00	61.74
			Y _T	- 163.58	- 4.916
	Z _T		449.81	13.494	
	X _S		1511.00	45.33	
	Y _S		76.56	2.297	
	Z _S		15.73	0.472	
	#3	X _T	2058.00	61.74	
		Y _T	- 161.72	- 4.852	
		Z _T	343.00	10.29	
		X _S	1511.00	45.33	
		Y _S	53.24	1.597	
		Z _S	- 57.00	- 1.710	
Diameter of members, In.:	#1	_____	_____		
	#2	_____	_____		
	#3	_____	_____		

TABLE III.- MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ATTACH STRUCTURE - AT32

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

MODEL SCALE: 0.030

DRAWING NO.: VL78-000062B, Martin Marietta 8260020914

DIMENSIONS:	MEMBER	FULL SCALE	MODEL SCALE
	#1	X_O <u>388.15</u>	<u>11.6445</u>
		Y_O <u>0.0</u>	<u>0.0</u>
	(Attach pt on orb $Z_T = 514$)	Z_O <u>LWR ML</u>	<u>LWR ML</u>
		X_T <u>1129.9</u>	<u>34.05</u>
		Y_T <u>46.50</u>	<u>1.395</u>
	(Attach pt on tank)	Z_T <u>562.58</u>	<u>16.877</u>
	#2	X_O <u>388.15</u>	<u>11.645</u>
		Y_O <u>0.0</u>	<u>0.0</u>
		Z_O <u>LWR ML</u>	<u>LWR ML</u>
		X_T <u>1129.9</u>	<u>34.05</u>
		Y_T <u>- 46.50</u>	<u>- 1.395</u>
		Z_T <u>562.58</u>	<u>16.877</u>
Diameter, In.	#1	<u>6.0</u>	<u>0.180</u>
	#2	<u>6.0</u>	<u>0.180</u>

TABLE III.- MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : BODY - B₂₆

GENERAL DESCRIPTION : Configuration 140A/R orbiter fuselage

NOTE: B₂₆ is identical to B₂₁, except underside of fuselage has been
refaired to accept W₁₁₆.

MODEL SCALE: 0.030 MODEL DRAWING NO.: SS-A00147, Rel. 12.

DRAWING NUMBER : VI 70-000143B, -000200, -000205, -006089, -000145,
-000140A, -000140B

DIMENSIONS	FULL SCALE	MODEL SCALE
Length (OML: Fwd Sta. X ₀ =235), In.	1293.3	38.799
Length (IML: Fwd Sta. X ₀ =238), In.	1290.3	38.709
Max Width (@ X ₀ = 1528.3), In.	264.0	7.920
Max Depth (@ X ₀ = 1464), In.	250.00	7.500
Fineness Ratio	0.264	0.264
Area - Ft. ²		
Max. Cross-Sectional	340.88	0.307
Planform		
Wetted		
Base		

ORIGINAL PAGE IS
OF POOR QUALITY

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : CANOPY - C₀

GENERAL DESCRIPTION : Configuration 3A. Canopy used with fuselage B₂₆.

MODEL SCALE: 0.030

MODEL DWG NO.: SS-A00147

DRAWING NUMBER : VL70-000143A

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length ($X_0 = 434.643$ to 578), In.	<u>143.357</u>	<u>4.301</u>
Max Width ($X_0 = 513.127$), In.	<u>152.412</u>	<u>4.572</u>
Max Depth (At $X_0 = 485.$), In.	<u>25.000</u>	<u>0.750</u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ELEVON - E₁₁

GENERAL DESCRIPTION: 6.0 In. P.S. gaps machined into E₁₁ elevon. Flapper doors, centerbody pieces, and tipseals are not simulated. (Data are for one of two sides).

MODEL SCALE: 0.030

DRAWING NUMBER: Not available

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area -- Ft ²	<u>210.0</u>	<u>0.189</u>
Span (equivalent), In.	<u>349.2</u>	<u>10.476</u>
Inb'd equivalent chord, In.	<u>118.0</u>	<u>3.54</u>
Outb'd equivalent chord, In.	<u>55.19</u>	<u>1.656</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.00</u>	<u>0.00</u>
Trailing Edge	<u>- 10.056</u>	<u>- 10.056</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
Area Moment (Product of area & \bar{c}) (Normal to hingeline), Ft. ³	<u>1587.25</u>	<u>0.0429</u>
Mean Aerodynamic Chord, In.	<u>90.7</u>	<u>2.721</u>

ORIGINAL PAGE IS
OF POOR QUALITY

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : BODY FLAP - F₇

GENERAL DESCRIPTION : Configuration 140 A/B

MODEL SCALE: 0.030

DRAWING NUMBER : VI70-000140B, -000200

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (Chord), In.	<u>84.7</u>	<u>2.541</u>
Max Width , In.	<u>262.308</u>	<u>7.869</u>
Max Depth , In.	<u>23.00</u>	<u>0.690</u>
Fineness Ratio	<u></u>	<u></u>
Area - Ft ²	<u></u>	<u></u>
Max. Cross-Sectional	<u></u>	<u></u>
Planform	<u>142.60</u>	<u>0.128</u>
Wetted	<u></u>	<u></u>
Base	<u>41.90</u>	<u>0.0377</u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: FEEDLINE - FI₁₀

GENERAL DESCRIPTION: LH₂ feedline on upper left-hand side of T₂₈.

MODEL SCALE: 0.030

DRAWING NO.: VL78-000063, -000062B

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	2071.5	62.145
	Y _T	- 70.0	- 2.100
	Z _T	573.934	17.218
Trailing edge at:	X _T	2081.80	62.454
	Y _T	- 70.00	- 2.10
	Z _T	584.059	17.522
Diameter of line (17.0 I.D.)		18.160	0.545

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: FEEDLINE - FL₁₁

GENERAL DESCRIPTION: LO₂ feedline on upper right-hand of T₂₈.

MODEL SCALE: 0.030

DRAWING NO.: VL78-000063, VL78-000062B

DIMENSIONS:

		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	<u>1000.667</u>	<u>30.02</u>
	Y _T	<u>70.00</u>	<u>2.10</u>
	Z _T	<u>150.519</u>	<u>4.516</u>
Trailing edge at:	X _T	<u>2071.5</u>	<u>62.145</u>
	Y _T	<u>70.00</u>	<u>2.100</u>
	Z _T	<u>573.934</u>	<u>17.218</u>
Line diameter (17.0 I.D.)	(O.D.)	<u>18.16</u>	<u>0.545</u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: FAIRING - FR₁₀

GENERAL DESCRIPTION: Umbilical door fairing between aft ET/orbiter attach structure.

MODEL SCALE: 0.030

DRAWING NO.: VI.78-000063, -000062B, Martin Marietta 82600207000

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at	2052.0	61.74
Length	193.0	5.79
Width	15.0	0.45

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: OMS POD - M₁₆

GENERAL DESCRIPTION: Configuration 140C orbiter OMS pod - short pod

MODEL SCALE: 0.030

DRAWING NUMBER VL70-008401, -008410

<u>DIMENSION:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length (OMS Fwd Sta. $X_0=1310.5$), In.	<u>258.50</u>	<u>7.755</u>
Max Width (@ $X_0 = 1511$), In.	<u>136.8</u>	<u>4.104</u>
Max Depth (@ $X_0 = 1511$), In.	<u>74.70</u>	<u>2.241</u>
Fineness Ratio	<u>2.484</u>	<u>2.484</u>
Area - Ft ²		
Max Cross-Sectional	<u>58.864</u>	<u>0.053</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: OMS NOZZLES - N28

GENERAL DESCRIPTION: Configuration 140A 'B orbiter OMS Nozzles

MODEL SCALE: 0.030

DRAWING NUMBER: VL70-000140A (Location), SS-A00106, Rel. 5 (Contour)

DIMENSIONS:	FULL SCALE	MODEL SCALE
MACH NO.		
Length - In.		
Gimbal Point to Exit Plane	_____	_____
Throat to Exit Plane	_____	_____
Diameter - In.		
Exit	_____	_____
Throat	_____	_____
Inlet	_____	_____
Area - ft ²		
Exit	_____	_____
Throat	_____	_____
Gimbal Point (Station) - In.		
Left Upper Nozzle		
X _o	<u>1518.00</u>	<u>45.54</u>
Y _o	<u>- 88.0</u>	<u>-2.64</u>
Z _o	<u>492.00</u>	<u>14.76</u>
Right Lower Nozzle		
X _o	<u>1518.00</u>	<u>45.54</u>
Y _o	<u>88.0</u>	<u>2.64</u>
Z _o	<u>492.00</u>	<u>14.76</u>
Null Position - Deg.		
Left Upper Nozzle		
Pitch	<u>15°49'</u>	<u>15°49'</u>
Yaw	<u>12°17'</u>	<u>12°17'</u>
Right Lower Nozzle		
Pitch	<u>15°49'</u>	<u>15°49'</u>
Yaw	<u>12°17'</u>	<u>12°17'</u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: BSRM NOZZLE - N86

GENERAL DESCRIPTION: Booster solid rocket motor nozzles.

MODEL SCALE: 0.030

DRAWING NO.: VL70-000066

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Diameter, D_{ex} - In. (I.D.)	144.29	4.3287
Diameter, D_{ex} - In. (O.D.)	146.79	4.4037
Diameter, DT - IN.		
Diameter, D_{in} - In.		
Area - Ft ²		
Max. Cross-sectional (I.D.)	113.553	0.102
Gimbal Origin:		
Left Nozzle		
X_o	1902.6	57.078
Y_o	-250.50	- 7.515
Z_o	400.0	12.00
Right Nozzle		
X_o	1902.6	57.078
Y_o	250.50	7.515
Z_o	400.0	12.00
Null Position: (Deg.)		
Left nozzle gimbal	± 8	± 8
Right nozzle gimbal	± 8	± 8

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ET PROTUBERANCE - PT₁₂

GENERAL DESCRIPTION: Lightning rod attached to ET nose.

MODEL SCALE: 0.030

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length	30.90	0.927
Diameter - In.	3.20	0.096

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ELECTRICAL LINE - PT₂₂

GENERAL DESCRIPTION: Left-hand electrical conduit line on T₂₂.

MODEL SCALE: 0.030.

DRAWING NUMBER VL78-000063, -000062R

<u>DIMENSION:</u>		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	<u>1084.333</u>	<u>32.530</u>
	Y _T	<u>- 99.591</u>	<u>- 2.988</u>
	Z _T	<u>-139.620</u>	<u>- 4.189</u>
Trailing edge at:	X _T	<u>2058.000</u>	<u>61.740</u>
	Y _T	<u>- 99.591</u>	<u>- 2.988</u>
	Z _T	<u>- 139.620</u>	<u>- 4.189</u>
Conduit size:		<u>2.0 x 6.0</u>	<u>0.06 x 0.18</u>
Centerline of line located radially at $\theta = 35.5$ deg.			

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: LO₂ RECIRCULATION LINE - PT₂₃

GENERAL DESCRIPTION: LO₂ recirculation line on right-hand upper side side of T₂₈.

MODEL SCALE: 0.030

DRAWING NO.: VL78-000063, -000062B, Martin Marietta 82600207000

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	1040.667	31.220
	Y _T	94.169	2.825
	Z _T	540.934	16.228
Trailing edge at:	X _T	2062.920	61.888
	Y _T	70.000	2.100
	Z _T	573.934	17.218
Diameter of line		4.0	0.120
Centerline of line located radially at $\theta = 33^{\circ}45'$ (Right of TDC looking forward)			

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: LH₂ RECIRCULATION LINE - PT₂₄

GENERAL DESCRIPTION: LH₂ recirculation line on T₂₈.

MODEL SCALE: 0.030

DRAWING NO.: VL78-000063, -000062B, Martin Marietta 82600207000

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	1040.667	31.220
	Y _T	- 94.169	- 2.825
	Z _T	540.934	16.228
Trailing edge at:	X _T	2062.920	61.888
	Y _T	- 70.00	-2.100
	Z _T	573.934	17.218
Diameter of line		4.00	0.120
Centerline of line located radially at $\phi = 33^{\circ}45'$ (Left of TDC looking forward)			

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ELECTRICAL LINE - PT₂₅

GENERAL DESCRIPTION: Right-hand aft electrical conduit line on T₂₈ with
LH₂ pressure sensor line and LOX vent valve actuator line.

MODEL SCALE: 0.030

DRAWING NO.: VL78-000063, -000062B, Martin Marietta 82600207000

DIMENSIONS:

		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	<u>1084.333</u>	<u>32.530</u>
	Y _T	<u>99.591</u>	<u>2.988</u>
	Z _T	<u>139.620</u>	<u>4.189</u>
Trailing edge at:	X _T	<u>2058.000</u>	<u>61.74</u>
	Y _T	<u>99.591</u>	<u>2.988</u>
	Z _T	<u>139.620</u>	<u>4.189</u>
Line diameter		<u>2.0 x 6.0</u>	<u>0.06 x 0.18</u>
Centerline of line located radially at $\theta = 35.5^\circ$			

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: LO₂ PRESSURE LINE - PT₂₆

GENERAL DESCRIPTION: LO₂ pressure line on T₂₈.

MODEL SCALE: 0.030

DRAWING NO.: VL78-000063, -000062B, Martin Marietta 82600207000

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	360.733	10.822
	Y _T	15.145	0.454
	Z _T	407.718	12.232
Trailing edge at:	X _T	2083.5	62.505
	Y _T	63.25	1.898
	Z _T	609.00	18.27
Centerline of line located radially at $\theta = 27^\circ$			
Line diameter		2.0	0.060

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ELECTRICAL LINE - PT27

GENERAL DESCRIPTION: Electrical conduit on the right-hand forward section of T₂₈.

MODEL SCALE: 0.030

DRAWING NO.: VL78-000062B

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	360.733	10.822
	Y _T	11.549	0.346
	Z _T	412.474	12.374
Trailing edge at:	X _T	876.273	26.288
	Y _T	226.114	6.783
	Z _T	646.774	19.403

Centerline of conduit located radially at $\theta = 47.5^\circ$

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: RUDDER - R₅

GENERAL DESCRIPTION: Configuration 140C orbiter rudder (Identical to configuration 140A/B rudder).

MODEL SCALE: 0.030

DRAWING NUMBER: VL70-000146B, --000095

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - Ft ²	<u>100.15</u>	<u>0.090</u>
Span (equivalent), In.	<u>201.0</u>	<u>6.03</u>
Inb'd equivalent chord, In.	<u>91.585</u>	<u>2.748</u>
Outb'd equivalent chord, In.	<u>50.833</u>	<u>1.525</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>34.83</u>	<u>34.83</u>
Trailing Edge	<u>26.25</u>	<u>26.25</u>
Hingeline	<u>34.83</u>	<u>34.83</u>
Area Moment (Normal to hingeline), Ft ³ (Product of area & \bar{c})	<u>610.92</u>	<u>0.016</u>
Mean Aerodynamic Chord, In.	<u>73.2</u>	<u>2.196</u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: BOOSTER SOLID ROCKET MOTOR - S21

GENERAL DESCRIPTION: _____

MODEL SCALE: 0.030

DRAWING NUMBER VI72-000143D, VI77-000066

<u>DIMENSION:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length (Includes nozzle), In.	<u>1789.40</u>	<u>53.682</u>
Max Tank Diameter, In.	<u>146.00</u>	<u>4.38</u>
Max Depth Aft shroud Dia., In.	<u>192.00</u>	<u>5.76</u>
Fineness Ratio	<u>9.3198</u>	<u>9.3198</u>
Area - Ft ²		
Max Cross-Sectional	<u>201.062</u>	<u>0.1809</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>
WP of BSRM centerline (Z _T)	<u>400.0</u>	<u>1.200</u>
FB of BSRM nose (X _T)	<u>743.0</u>	<u>22.29</u>
BP of BSRM centerline (Y _T)	<u>250.5</u>	<u>7.515</u>

ORIGINAL PAGE IS
OF POOR QUALITY

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: EXTERNAL TANK - Top

GENERAL DESCRIPTION: _____

NOTE: (Dimensions are to tank structural OML. TPS not included.)

MODEL SCALE: 0.030

DRAWING NUMBER VL72-000143D, VL78-000063

<u>DIMENSION:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length , In.	<u>1844.275</u>	<u>55.328</u>
Max Width Dia., In.	<u>331.00</u>	<u>9.93</u>
Max Depth	_____	_____
Fineness Ratio	<u>5.687</u>	<u>5.687</u>
Area - Ft ²		
Max Cross-Sectional	<u>594.678</u>	<u>0.053</u>
Planform	_____	_____
Wetted	_____	_____
Base	_____	_____

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: VERTICAL - V₈

GENERAL DESCRIPTION: Configuration 140C orbiter vertical tail (identical to configuration 140A/B vertical tail).

MODEL SCALE: 0.030

DRAWING NUMBER: VL70-000140C, -000146B

DIMENSIONS: FULL SCALE MODEL SCALE

TOTAL DATA

Area (Theo) - Ft ²		
Planform	<u>413.253</u>	<u>0.372</u>
Span (Theo) - In.	<u>315.72</u>	<u>9.472</u>
Aspect Ratio	<u>1.675</u>	<u>1.675</u>
Rate of Taper	<u>0.507</u>	<u>0.507</u>
Taper Ratio	<u>0.404</u>	<u>0.404</u>
Sweep-Back Angles, Degrees.		
Leading Edge	<u>45.000</u>	<u>45.000</u>
Trailing Edge	<u>26.25</u>	<u>26.25</u>
0.25 Element Line	<u>41.13</u>	<u>41.13</u>
Chords:		
Root (Theo) WP	<u>268.50</u>	<u>8.055</u>
Tip (Theo) WP	<u>108.47</u>	<u>3.254</u>
MAC	<u>199.81</u>	<u>5.992</u>
Fus. Sta. of .25 MAC	<u>1463.35</u>	<u>43.901</u>
W.P. of .25 MAC	<u>635.52</u>	<u>19.066</u>
B.L. of .25 MAC	<u>0.00</u>	<u>0.00</u>
Airfoil Section		
Leading Wedge Angle - Deg.	<u>10.00</u>	<u>10.00</u>
Trailing Wedge Angle - Deg.	<u>14.92</u>	<u>14.92</u>
Leading Edge Radius	<u>2.00</u>	<u>0.060</u>
Void Area	<u>13.17</u>	<u>0.0019</u>
Blanketed Area	<u>0.0</u>	<u>0.0</u>

TABLE III. - MODEL DIMENSIONAL DATA - Concluded.

MODEL COMPONENT: WING-W 116

GENERAL DESCRIPTION: Configuration A

NOTE: Identical to W₁₁₆, except airfoil thickness. Dihedral angle is along trailing edge of wing.

MODEL SCALE: 0.030

TEST NO.

DWG. NO. VI70-000140A, -000200

DIMENSIONS:

FULL-SCALE

MODEL SCALE

TOTAL DATA

Area (Theo.) Ft²

Planform

2490.00

2.421

Span (Theo) In.

936.68

28.10

Aspect Ratio

2.265

2.265

Rate of 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

- 10.056

- 10.056

0.25 Element Line

35.209

35.209

Chords:

Root (Theo) B.P.O.O.

629.26

20.677

Tip, (Theo) B.P.

137.85

4.136

MAC

474.81

14.244

Fus. Sta. of .25 MAC

1136.83

34.105

W.P. of .25 MAC

290.58

8.717

B.L. of .25 MAC

182.13

5.464

EXPOSED DATA

Area (Theo) Ft²

1751.50

1.576

Span, (Theo) In. BP108

720.68

21.620

Aspect Ratio

2.059

2.059

Taper Ratio

0.245

0.245

Chords

Root BP108

562.09

16.863

Tip $1.00 \frac{b}{2}$

137.85

4.136

MAC

392.83

11.785

Fus. Sta. of .25 MAC

1185.98

35.579

W.P. of .25 MAC

294.30

8.329

B.L. of .25 MAC

251.77

7.553

Airfoil Section (Rockwell Mod NASA)
XXXX-64

Root $\frac{b}{2} =$

0.113

0.113

Tip $\frac{b}{2} =$

0.120

0.120

Data for (1) of (2) Sides

Leading Edge Cuff

Planform Area Ft²

113.18

0.102

Leading Edge Intersects Fus M. L. @ Sta

500.0

15.00

Leading Edge Intersects Wing @ Sta

1024.00

30.72

ORIGINAL PAGE IS
OF POOR QUALITY

TABLE IV.
ORBITER WING PRESSURE TAP NUMBERS

η	Y	ORBITER LEFT WING PRESSURE TAP NUMBERS														No. Taps	Taps					
		X/C	0	.041	.113	.247	.429	.547	.638	.727	.793											
235	110	X/C	0	.041	.113	.247	.429	.547	.638	.727	.793											
		TOP	208	209	210	211	212	213	214	215	216							9	9			
		BOT	—	—	—	—	—	—	—	—	—							0				
297	140	X/C	0	.010	.020	.050	.094	.229	.362	.497	.700	.834	.845	.900	.945							
		TOP	217	218	219	220	221	222	223	224	225	226	227	228	229					13	34	
		BOT		230	231	232	233	234	235	236	237	238	239	240	241					12		
347	170	X/C	0	.010	.020	.040	.086	.163	.246	.390	.637	.798	.839	.879	.919	.955						
		TOP	242	243	244	245	246	247	248	249	250	251	252	253	254	255					14	61
		BOT		256	257	258	259	260	261	262	263	264	265	266	267	268					13	
427	200	X/C	0	.010	.020	.040	.0813	.177	.278	.402	.542	.760	.808	.857	.905	.953	1.000					
		TOP	269	270	271	272	273	274	275	276	277	278	279	280	281	282					14	89
		BOT		283	284	285	286	287	288	289	290	291	292	293	294	295	296				14	
534	250	X/C	0	.010	.020	.050	.080	.150	.250	.400	.550	.725	.775	.850	.900	.950						
		TOP	297	298	299	300	301	302	303	304	305	306	307	308	309	310					14	116
		BOT		311	312	313	314	315	316	317	318	319	320	321	322	323					13	
673	300	X/C	0	.010	.020	.050	.150	.250	.400	.550	.700	.775	.850	.900	1.000							
		TOP	324	325	326	327	328	329	330	331	332	333	334	335							12	140
		BOT		336	337	338	339	340	341	342	343	344	345	346	347						12	
740	345	X/C	0	.010	.020	.050	.150	.250	.400	.550	.700	.750	.850	.900								
		TOP	348	349	350	351	352	353	354	355	356	357									10	159
		BOT		358	359	360	361	362	363	364	365	366									9	
831	415	X/C	0	.010	.020	.050	.150	.250	.400	.600	.750	.900	1.000									
		TOP	367	368	369	370	371	372	373	374	375	376									10	179
		BOT		377	378	379	380	381	382	383	384	385	386								10	
772	455	X/C	0	.010	.020	.050	.150	.250	.400	.600	.750	.900	1.000									
		TOP	387	388	389	390	391	392	393	394											8	194
		BOT		395	396	397	398	399	400	401											7	
1000	483	X	1322	1405																		
		TOP	402	403																	2	196
		BOT																				
η	Y	ORBITER RIGHT WING PRESSURE TAP NUMBERS														No. Taps	Taps					
235	110	X/C	0	.041	.113	.247	.429	.547	.638	.727	.793											
		TOP	404	405	406	407	408	409	410	411	412										9	250
		BOT																				
347	170	X/C	0	.010	.020	.040	.086	.163	.246	.390	.637	.798										
		TOP	413	414	415	416	—	417	418	419	420	421									9	222
		BOT		422	423	424	425	426	427	428	429										5	

Wen File 100000000

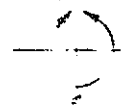


TABLE V. ORBITER FUSELAGE PRESSURE TAP NUMBERS

ORBITER X ₀ - IN.			Ø RADIAL LOCATION ~ DEGREES																											
FULL MODEL	X ₀ /L		0	20	40	55	70	90	105	110	120	135	140	150	151	156	162	165	169	174	180	305	320	340	NO TAPS	Σ TAPS				
235	7.05	0	7																						1	1				
245	7.35	.008	8					9													10				3	4				
265	7.95	.023	11	12	13	14	15	16			17			18							19	20	21	22	12	16				
295	8.85	.046	23	24	25	26	27	28			29			30							31	32	33	34	12	28				
325	9.75	.070	35	36	37	38	39	40			41			42							43	44	45	46	12	40				
380	11.40	.112	47	48	49	50	51	52			53			54							55	56	57	58	12	52				
440	13.20	.158																		59					1	53				
450	13.50	.166	60	61	62	63	64	65			66					67			68		69	70	71	72	13	66				
465	13.95	.177													73		74								2	68				
500	15.00	.204	75	76	77	78	79	80			81		82	83				84			85	86	87	88	14	82				
560	16.80	.251	89		90		91	92			93			94				95			96		97		9	91				
625	18.75	.301	98		99		100	101			102			103				104			105		106		9	100				
725	21.75	.378	107		108		109	110			111			112				113			114		115		9	109				
880	26.40	.497	116		117		118	119			120			121				122			123		124		9	118				
980	29.40	.574	125		126																		127		3	121				
1080	32.40	.652	128		129		130	131			132			133				134			135		136		9	130				
1180	35.40	.729	137		138		139	140			141			142							143		144		8	138				
1245	37.35	.779	145		146		147	148	149		150	151		152				153			154		155		11	149				
1360	39.00	.821	156		157		158	159	160		161	162		163							164		165		10	159				
1375	41.25	.879	166		167		168	169	170		171	172		173				174					175		10	169				
1430	42.75	.921	176		177		178	179	180		181	182		183				184					185		10	179				
1480	44.40	.960	186		187		188	189	190		191	192		193				194					195		10	189				
1530	45.75	.999									196	197													2	191				
1530	45.75	.999									198	199													2	193				

L = 1297.0 IN.

- a. OMS POD, INSIDE
- b. OMS POD, OUTSIDE

60

1

TABLE VI. ORBITER VERTICAL TAIL PRESSURE TAP
NUMBERS (LEFT SIDE ONLY)

Z ₀	VERTICAL		η_v	X/CV									No. TAPS	
	FULL SCALE	MODEL SCALE		0	.025	.05	.15	.30	.52	.685	.775	.90		
550	16.5		.153	430	431	432	433	434	435	436	437		8	8
600	18.0		.316	438	439	440	441	442	443	444	445	446	9	17
690	20.7		.600	447	448	449	450	451	452	453	454	455	9	26
765	22.95		.840	456	457	458	459	460	461	462	463	464	9	35
792	23.76		.925	465	466	467	468	469	470	471	472	473	9	44

TABLE VII. EXTERNAL TANK PRESSURE TAP NUMBERS

VIEW FWD LOOKING ART



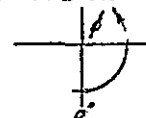
X_T ~ IN. Full Scale	X_{TWIN} Model Scale	X_T/L_T	ϕ ~ DEGREES																NO TAPS		
			0	30	60	90	120	135	147	162	180	198	213	225	240	270	300	330			
298/329	8.937/9.827	c	474																	1	
346	10.38	0.0692	475	476	477	478	479		480		481		482		483	484	485	486		12	
363	10.89	0.0186	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502		16	
403	12.09	0.0206	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518		16	
469	13.44	0.0644	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534		16	
568	17.04	0.1292	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550		16	
688	20.64	0.1942	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566		16	
718	21.54	0.2106	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582		16	
758	22.74	0.2323	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598		16	
805	24.24	0.2592	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614		16	
850	25.50	0.2821	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630		16	
950	28.50	0.3362	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646		16	
1050	31.50	0.3902	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	--		16	
1150	34.50	0.4445	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678		16	
1250	37.50	0.4987	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694		16	
1350	40.50	0.5528	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710		16	
1500	45.00	0.6340	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726		16	
1700	51.00	0.7423	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742		16	
1900	57.00	0.8506	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758		16	
2040	61.20	0.9264	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774		16	
2146	64.38	0.9838	775	776	777	778	779		780		781		782		783	784	785	786		12	
STING CAVITY			787																	1	
																				2 TAPS	314

$L_T = 1846.91 \text{ in.}$

ORIGINAL PAGE IS OF POOR QUALITY

TABLE VIII LEFT SRB PRESSURE TAP NUMBERS

VIEW FWD LOOKING AFT



X ₆ IN. FULL SCALE	X ₅ IN. MODEL SCALE	X ₅ / L ₅	φ - DEGREES									NO. TAPS	Σ NO TAPS
			0	45	90	135	180	225	270	315			
200	6	0	788									1	1
260	7.8	0.0335	789	790	791	792	793	794	795	796		8	9
370	11.1	0.0950	797	798	799	800	801	802	803	804		8	17
400	12.0	0.1118	805	806	807	808	809	810	811	812		8	25
450	13.5	0.1397	813	814	815	816	817	818	819	820		8	33
550	16.5	0.1956	821	822	823	824	825	826	827	828		8	41
700	21.0	0.2794	829	830	831	832	833	834	835	836		8	49
850	25.5	0.3632	837	838	839	840	841	842	843	844		8	57
1050	31.5	0.4250	845	846	847	848	849	850	851	852		8	65
1250	37.5	0.5867	853	854	855	856	857	858	859	860		8	73
1450	43.5	0.6985	861	862	863	864	865	866	867	868		8	81
* 1503	45.09	0.7280	869		870		871		872			4	85
* 1505	45.15	0.7290	873		874		875		876			4	89
* 1517	45.51	0.7360	877		878		879		880			4	93
* 1519	45.57	0.737	881		882		883		884			4	97
1650	49.5	0.8102	885	886	887	888	889	890	891	892		8	105
1750	52.5	0.8661	893	894	895	896	897	898	899	900		8	113
1840	55.2	0.9170	901	902	903	904	905	906	907	908		8	121
* 1850	55.5	0.9220	909		910		911		912			4	125
* 1852	55.56	0.9230	913		914		915		916			4	129
1890	56.7	0.9443	917	918	919	920	921	922	923	924		8	137
1930	57.9	0.9667	925	926	927	928	929	930	931	932		8	145
SOCKET BASE			933			934			935			3	148
NOZZLE BASE			936									1	149

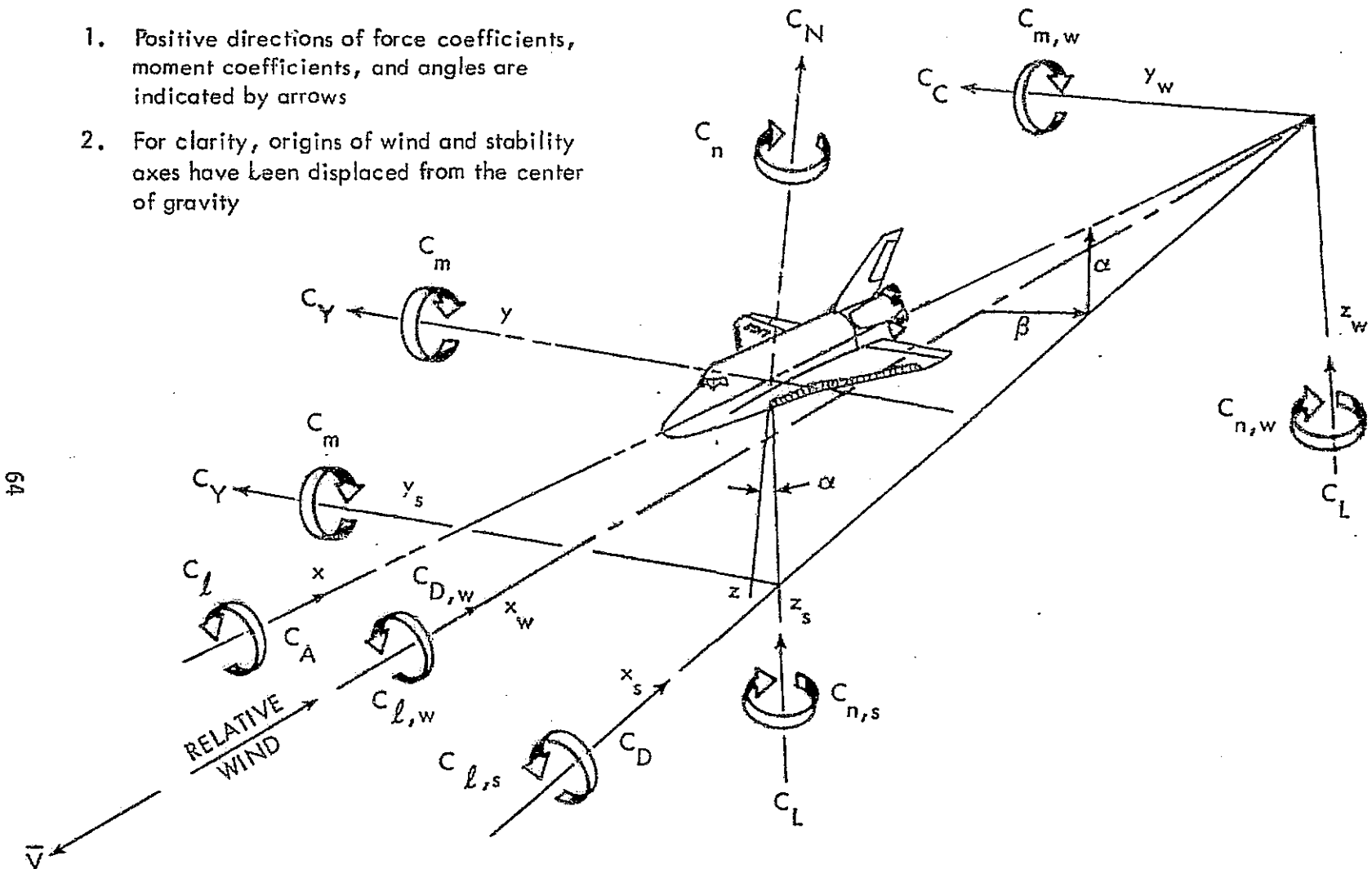
63

L₅ = 1759.60 IN.

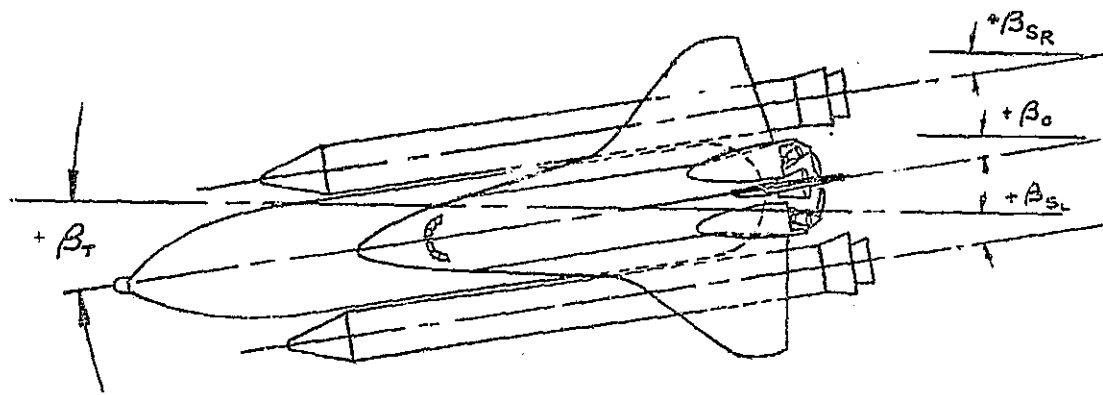
* PRESSURE TAPS AT 77.5 IN. RADIUS ON THE STRUCTURAL RINGS

Notes:

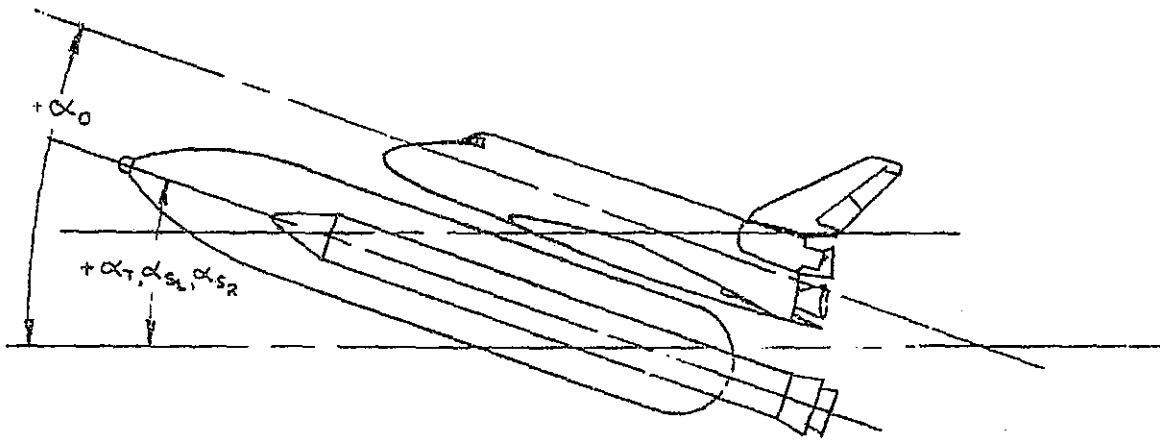
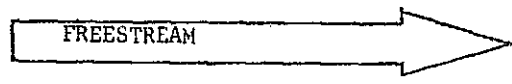
1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity



a. Forces and Moments
Figure 1. - Axis Systems.



SIDESLIP ANGLES

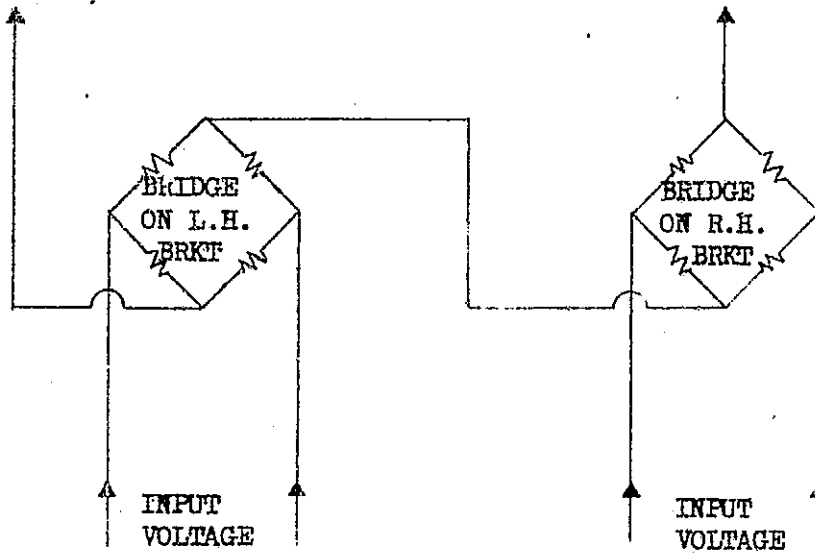


PITCH ANGLES

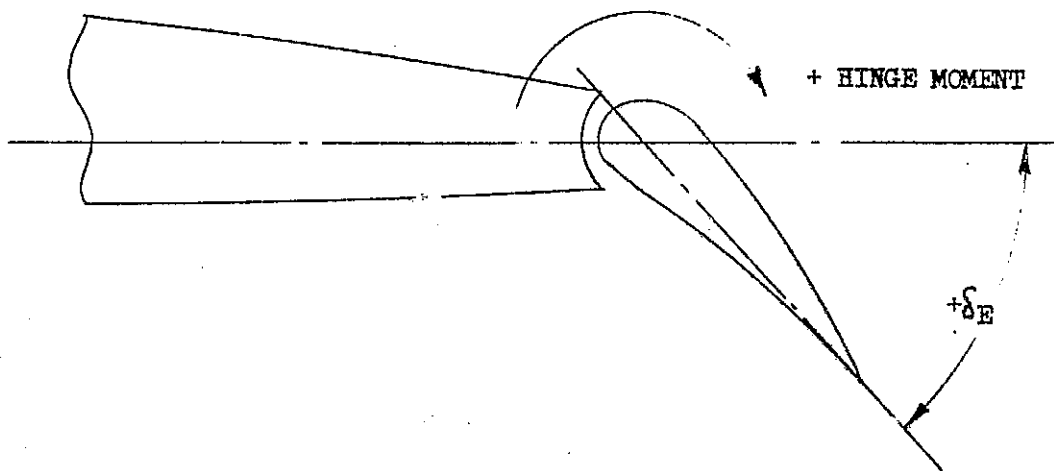
b. Model Attitude Definition

Figure 1. - Continued.

OUTPUT VOLTAGE



ELEVON HINGE MOMENT WIRING DIAGRAM
TYPICAL FOR INBOARD AND OUTBOARD ELEVONS



c. Elevon Electrical Hookup and Sign Conventions

Figure 1. - Concluded.

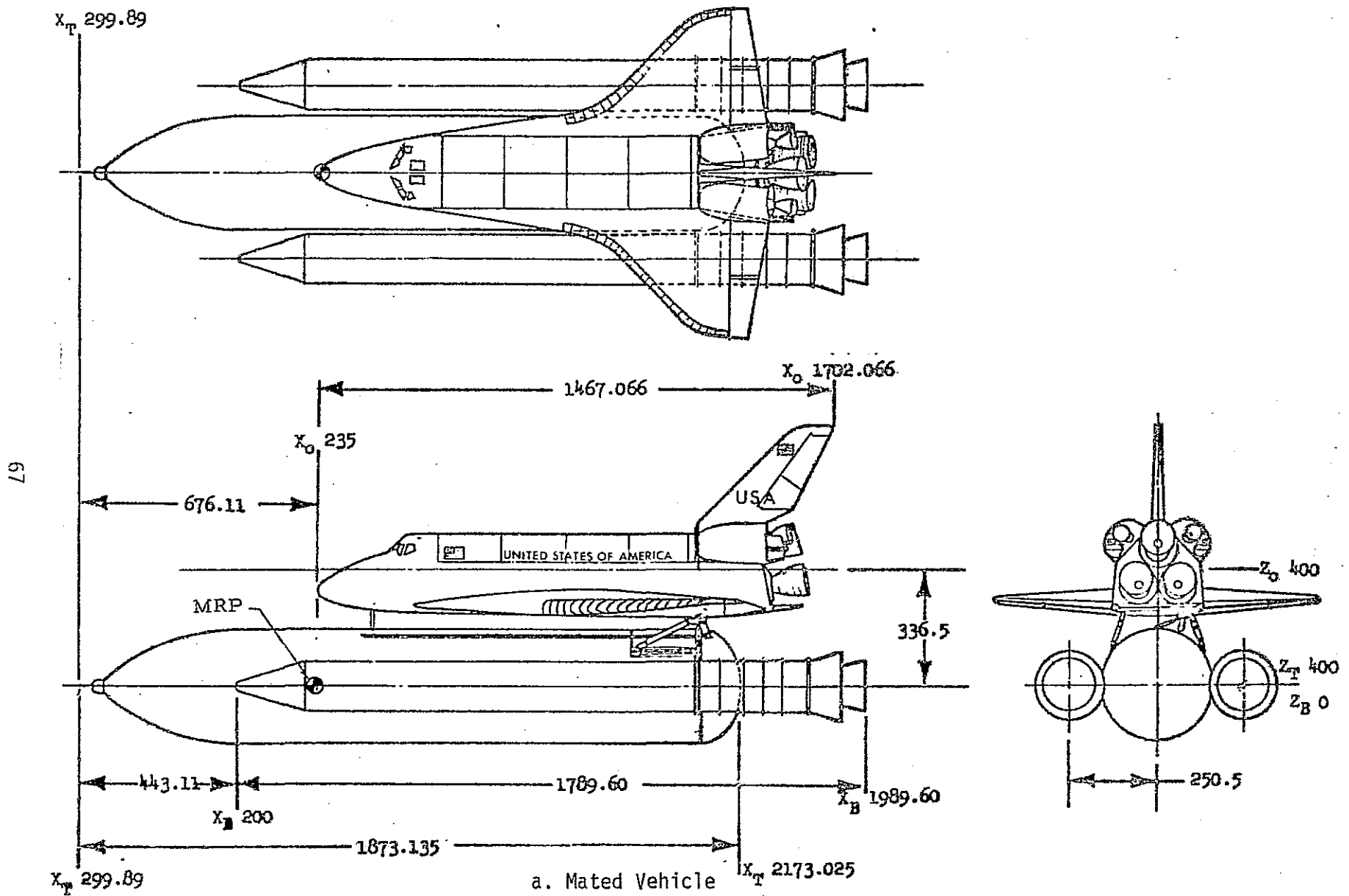
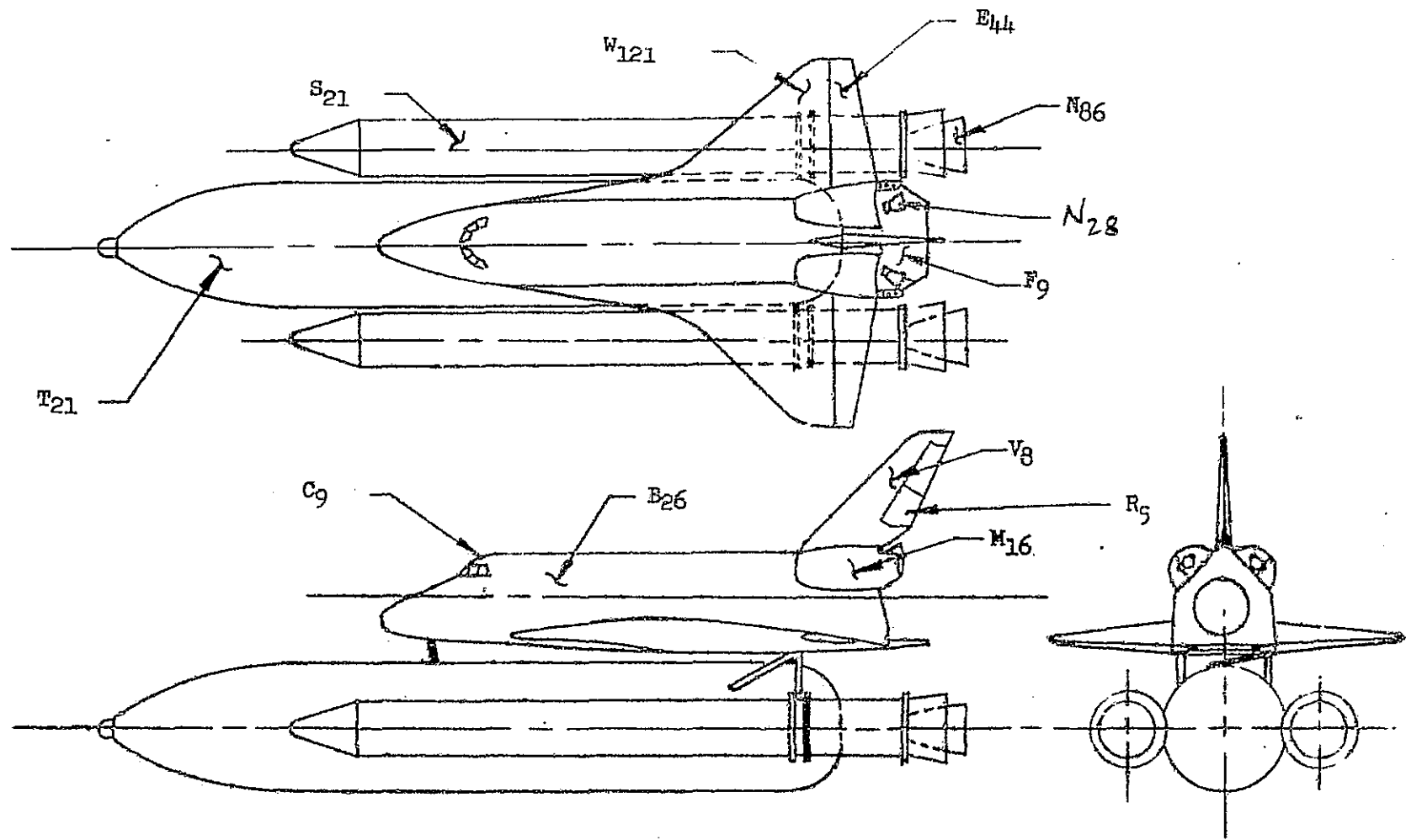
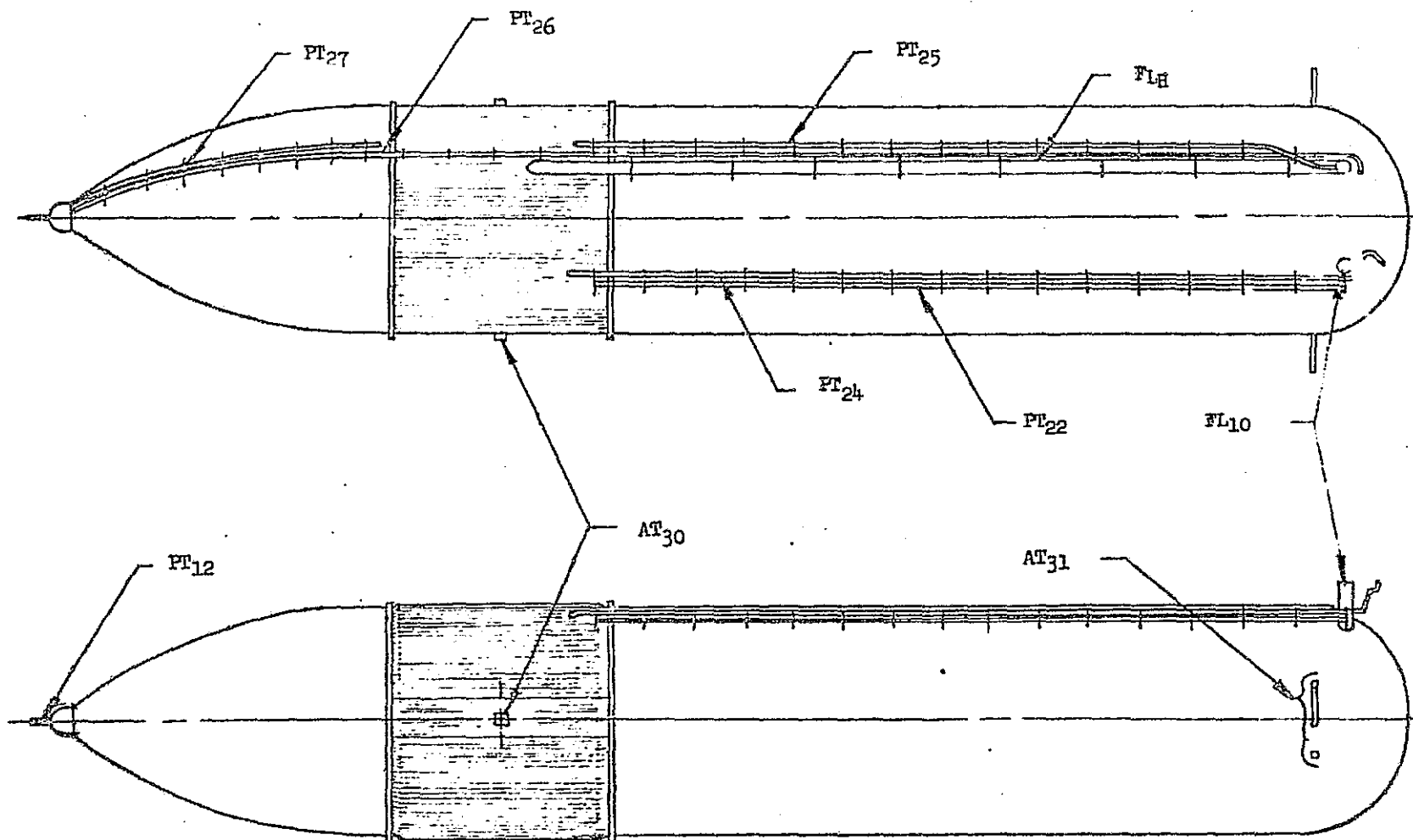


Figure 2. - Model sketches.



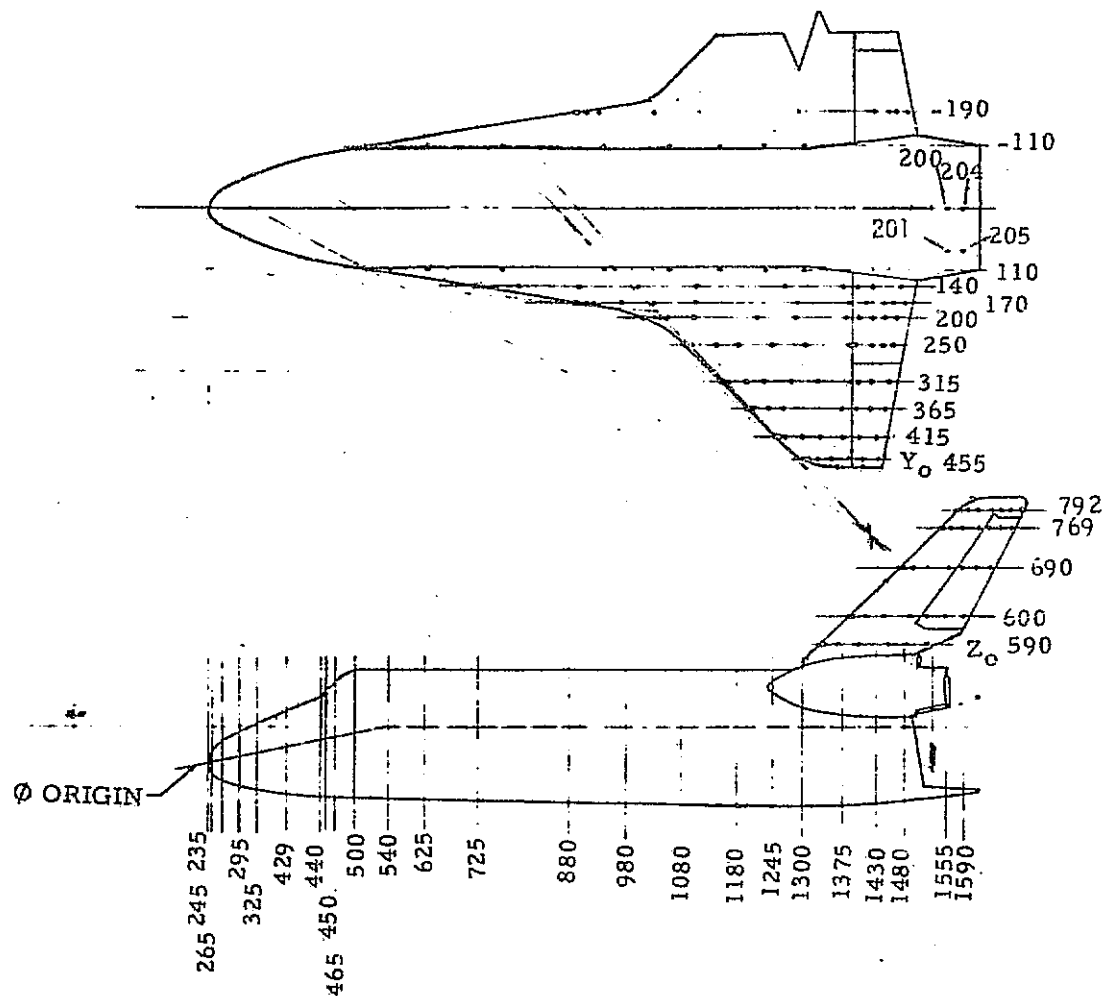
b. LVA Integrated Vehicle Three View

Figure 2. - Continued.

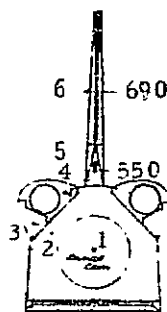
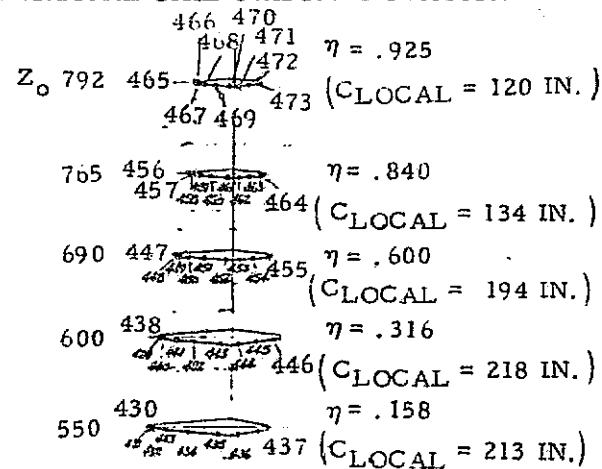


c. (T₂₈) External Tank Protuberances

Figure 2. - Continued.



VERTICAL TAIL ORIFICE LOCATION

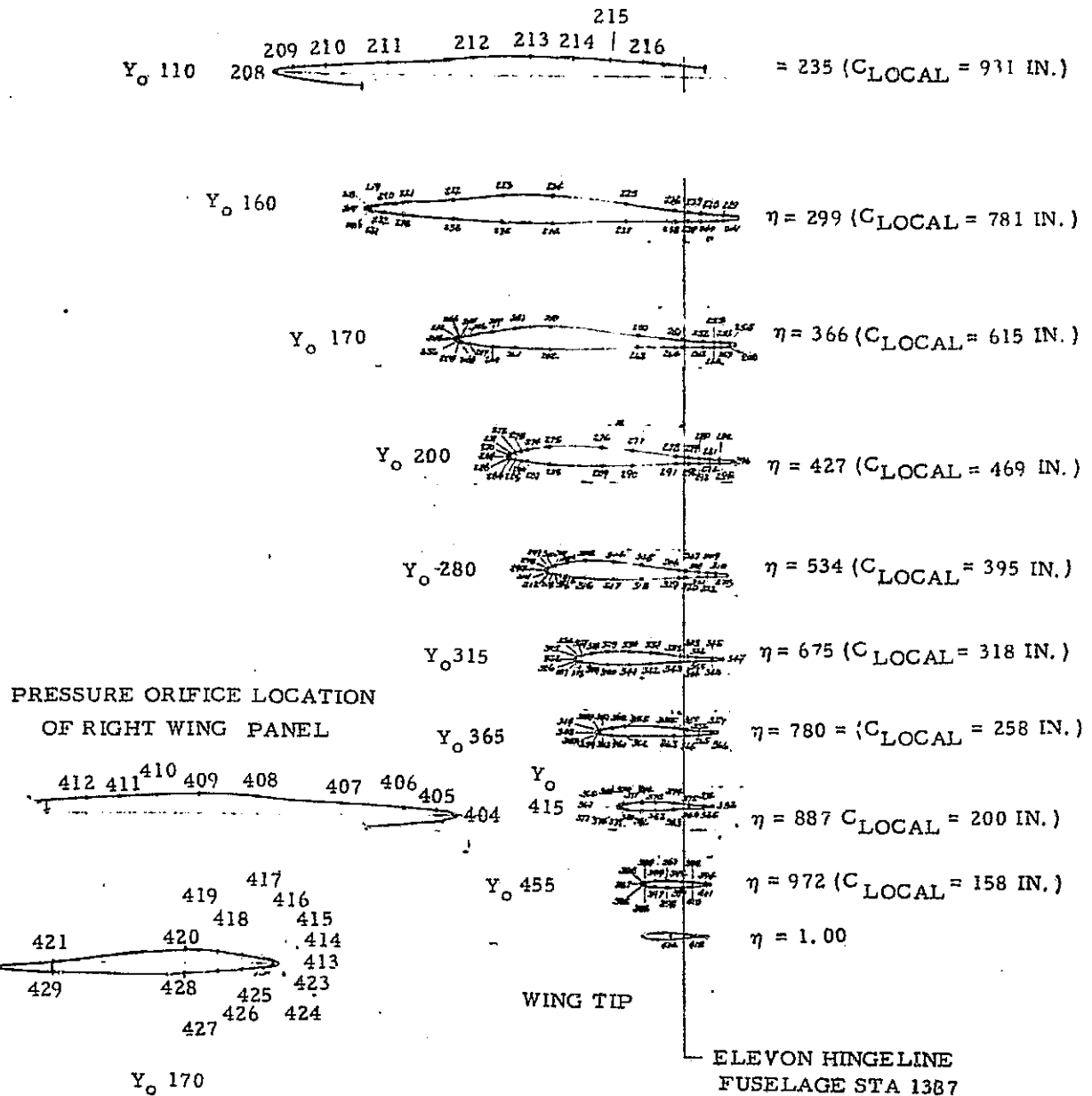


ORBITER BASE
VIEW LOOKING FORWARD

d. Orbiter Upper Wing and Vertical Tail Pressure Tap Locations

Figure 2. - Continued.

PRESSURE ORIFICE LOCATION OF LEFT WING PANEL

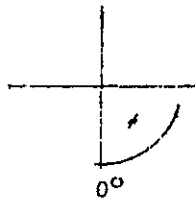


e. Orbiter Wing Pressure Tap Locations

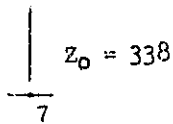
Figure 2. - Continued.

FUSELAGE ORIFICE LOCATION

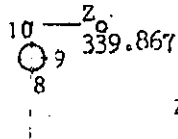
NOTE:
VIEW LOOKING AFT



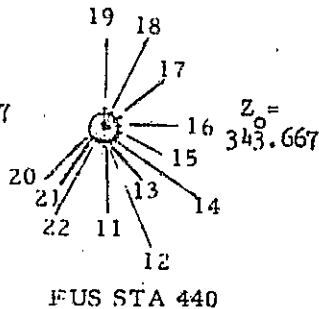
FUS STA 235



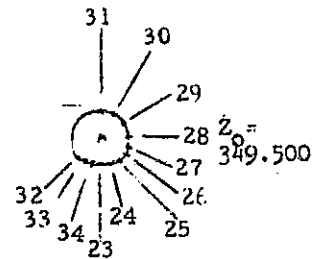
FUS STA 245



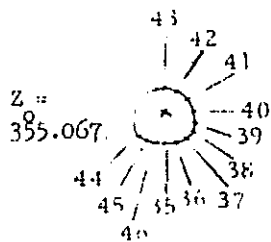
FUS STA 265



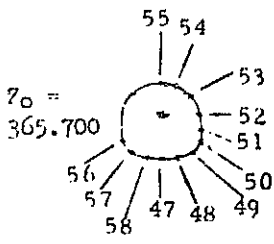
FUS STA 295



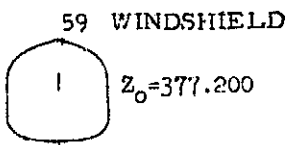
FUS STA 325



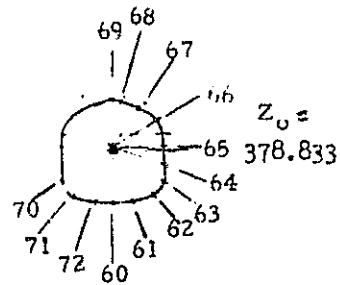
FUS STA 380



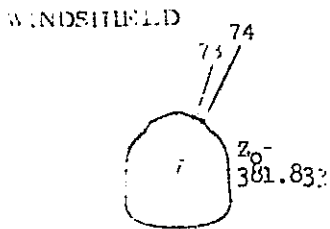
FUS STA 440



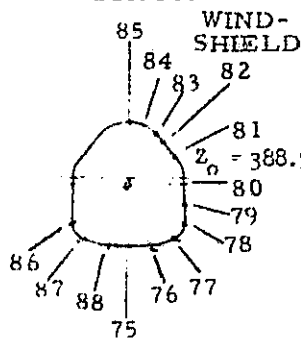
FUS STA 450



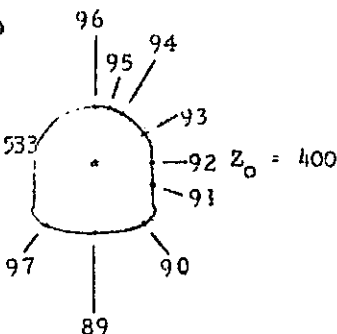
FUS STA 465



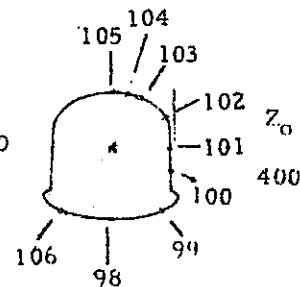
FUS STA 500



FUS STA 560



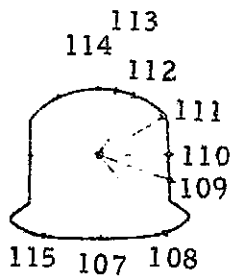
FUS STA 625



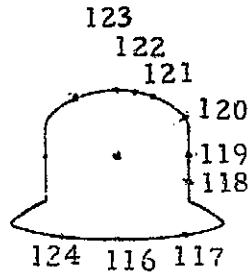
f. Orbiter Forward Fuselage Pressure Tap Locations

Figure 2. - Continued.

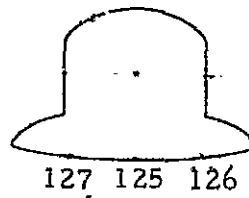
FUS STA



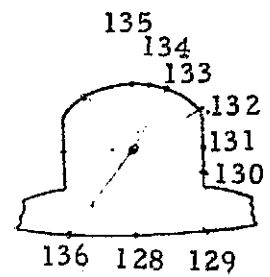
FUS STA



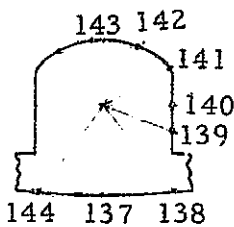
FUS STA 980



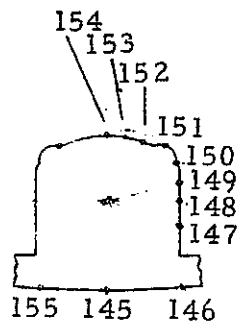
FUS STA 1080



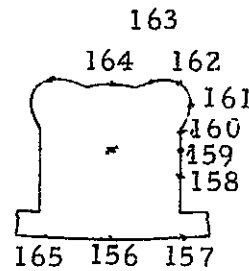
FUS STA 1180



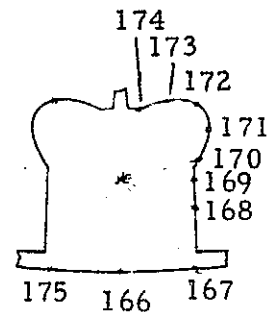
FUS STA 1245



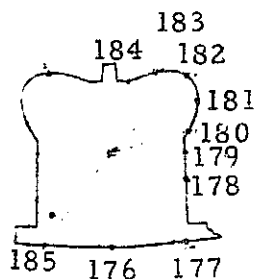
FUS STA 1300



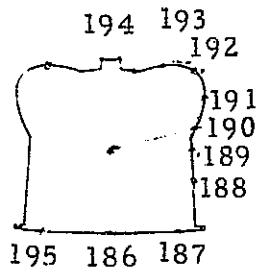
FUS STA 1375



FUS STA 1430

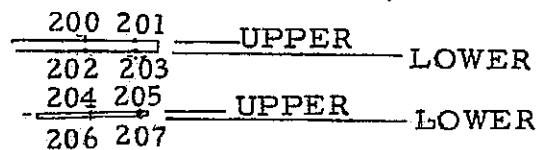


FUS STA 1480



BODY FLAP

FUS STA 555



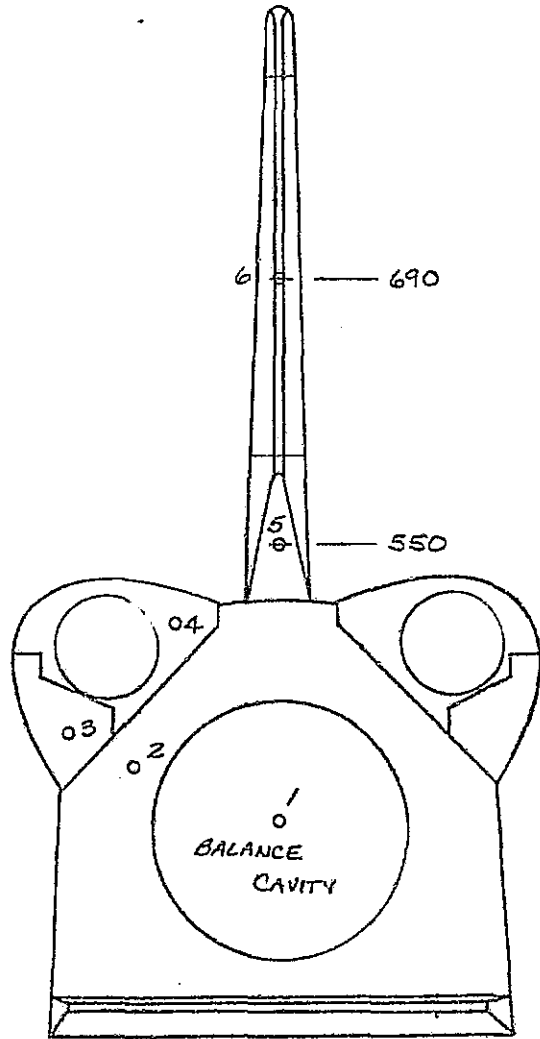
FUS STA 1830

197 199
196 198 Z₀ 400

FUS STA 590

g. Orbiter Aft Fuselage Pressure Tap Locations

Figure 2. - Continued.



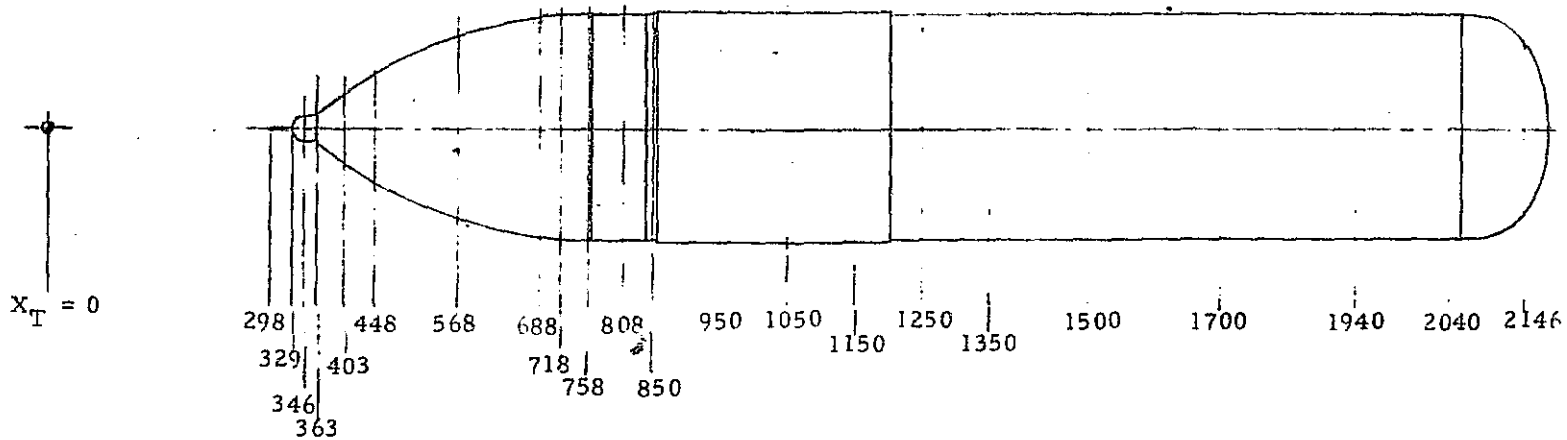
ORBITER BASE PRESSURE TAPS

BODY FLAP PRESSURE TAP NUMBERS

ORBITER ~ X ₀		X ₀ /L ₀	φ ~ DEG.		N _D TAPS	Σ N _D TAPS
FULL SCALE	MODEL SCALE		0	40		
1555 _U	46.65		200	201	2	2
1555 _L	46.65		202	203	2	4
1590 _U	47.70		204	205	2	6
1590 _L	47.70		206	207	2	8

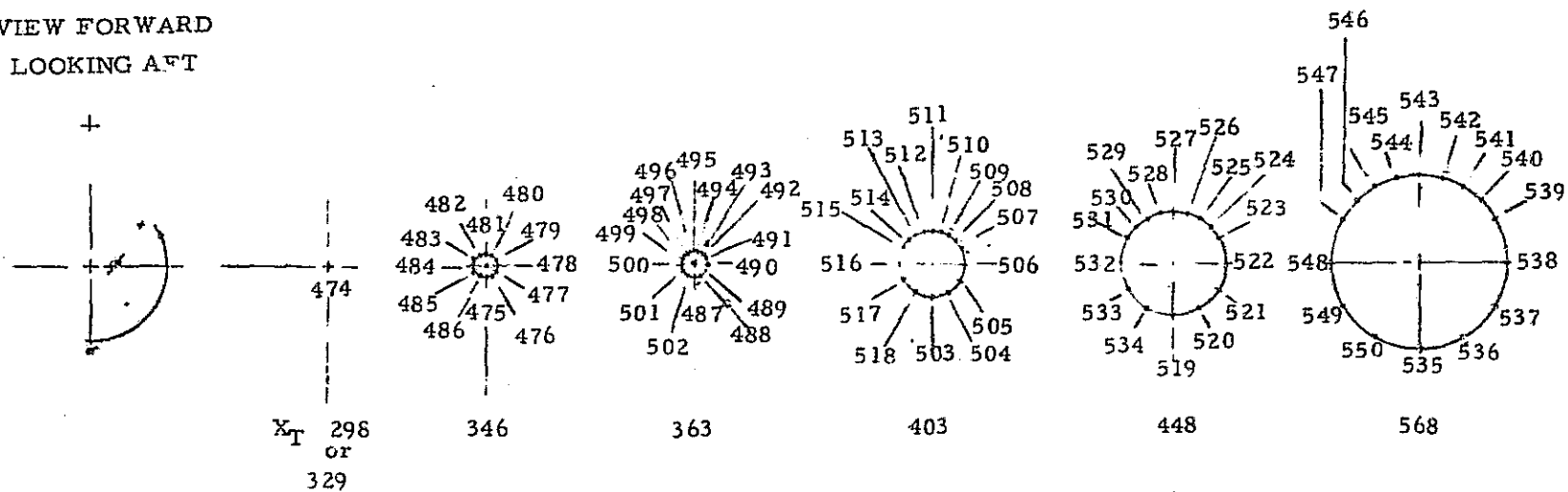
h. Orbiter Base Pressure Tap Locations

Figure 2. - Continued.



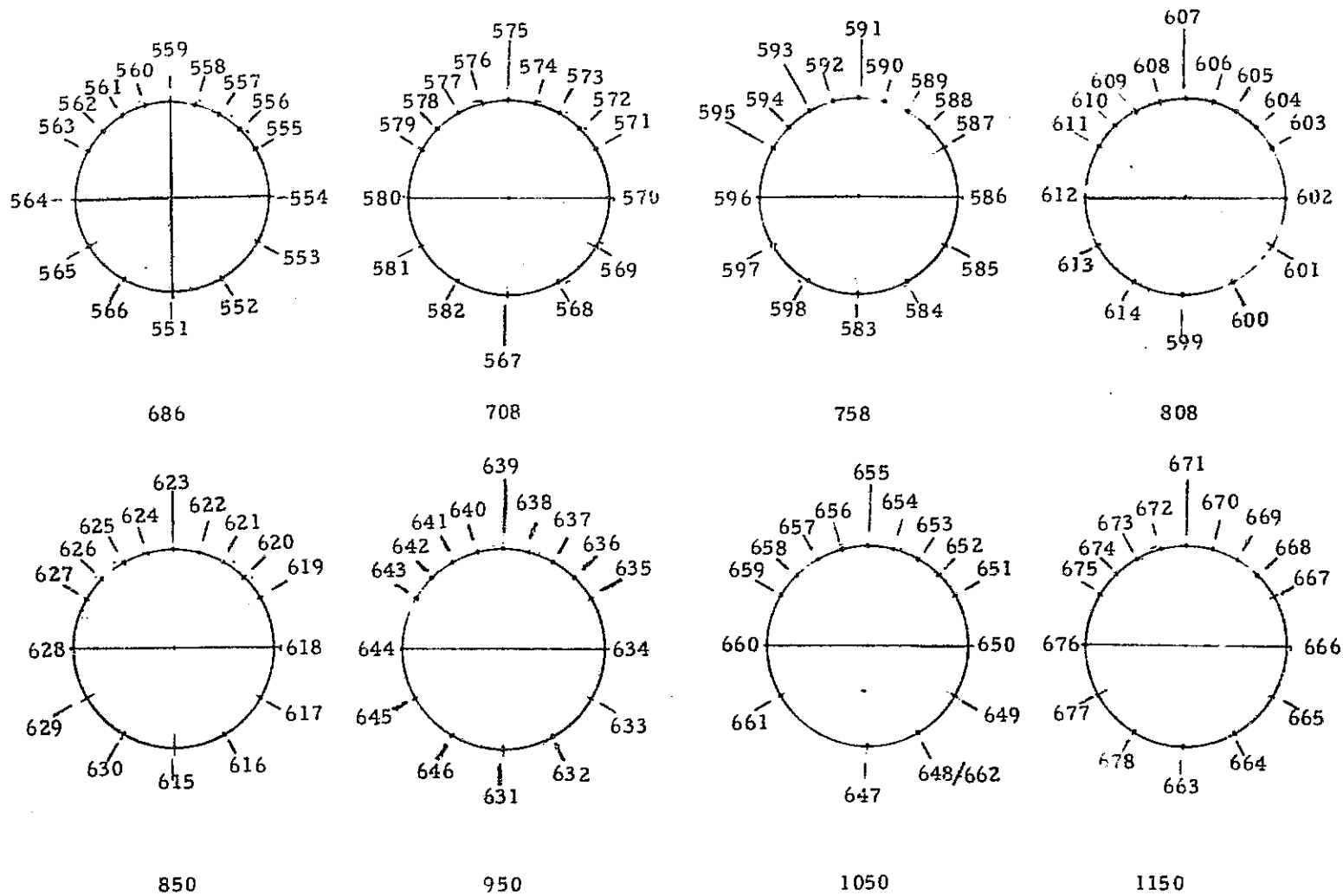
75

VIEW FORWARD
LOOKING AFT



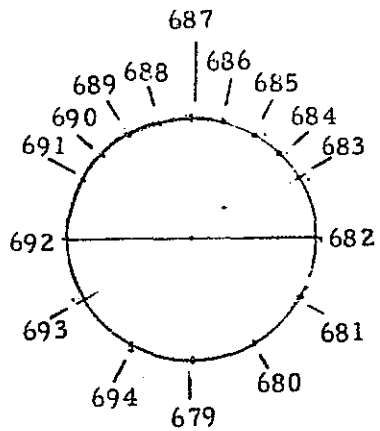
i. External Tank Forward Pressure Tap Locations

Figure 2. - Continued.

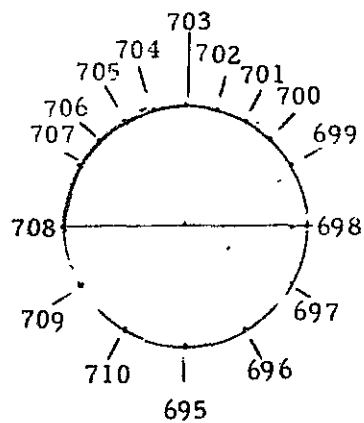


j. External Tank Mid Pressure Tap Locations

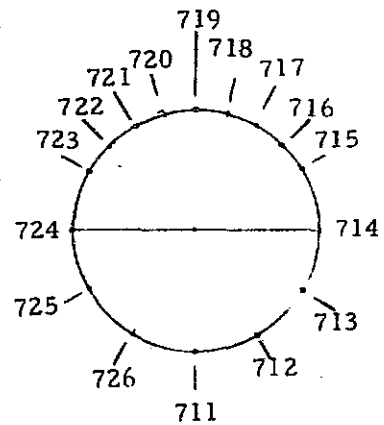
Figure 2. - Continued.



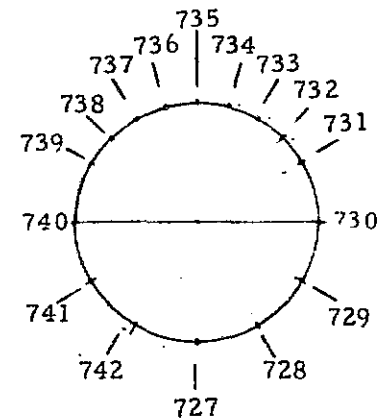
1250



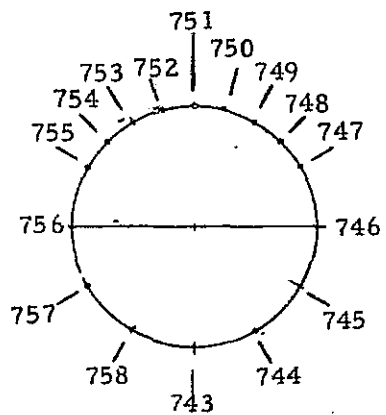
1350



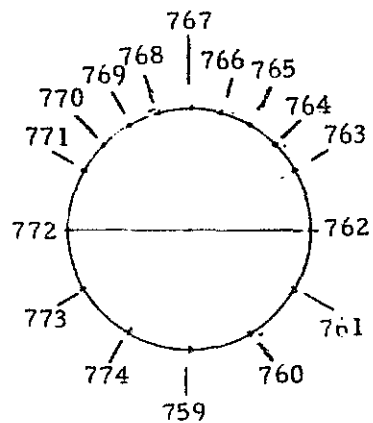
1500



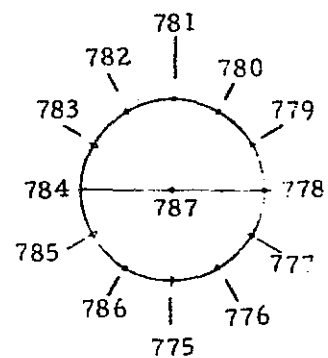
1700



1900

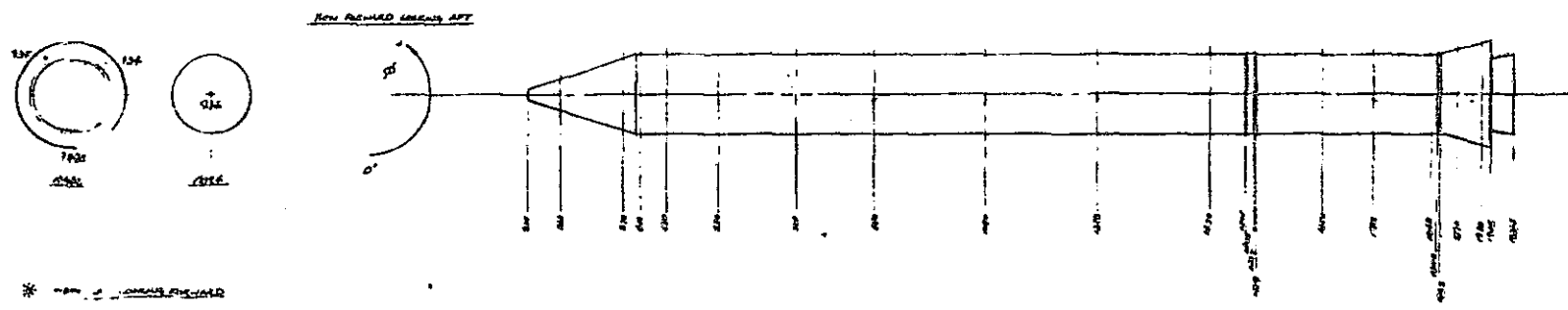
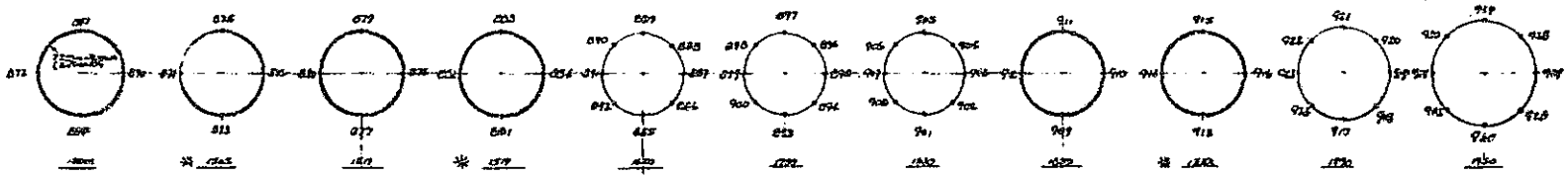
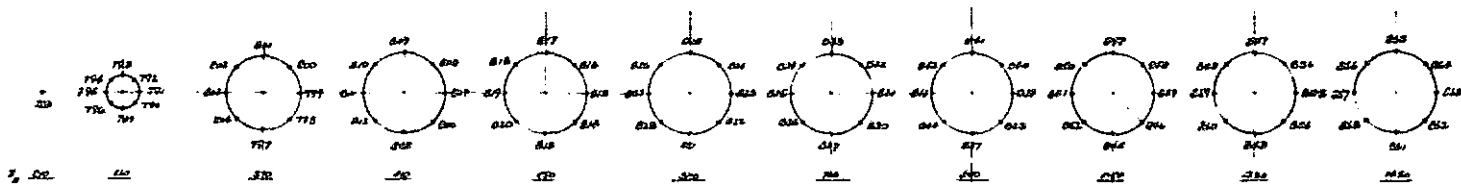


2040



k. External Tank Aft Pressure Tap Locations

Figure 2. - Continued.

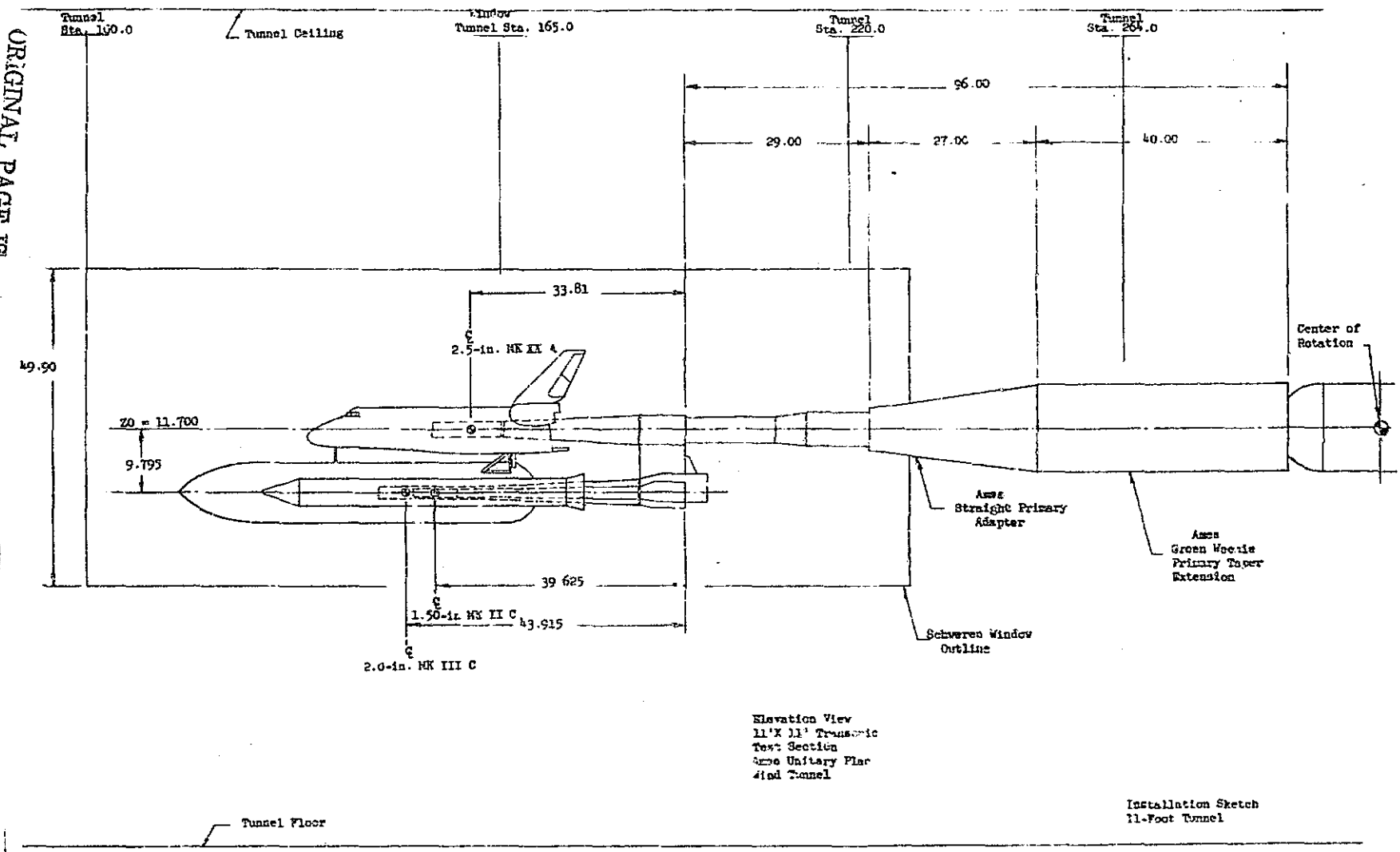


1. SRB Pressure Tap Locations

Figure 2. - Continued.

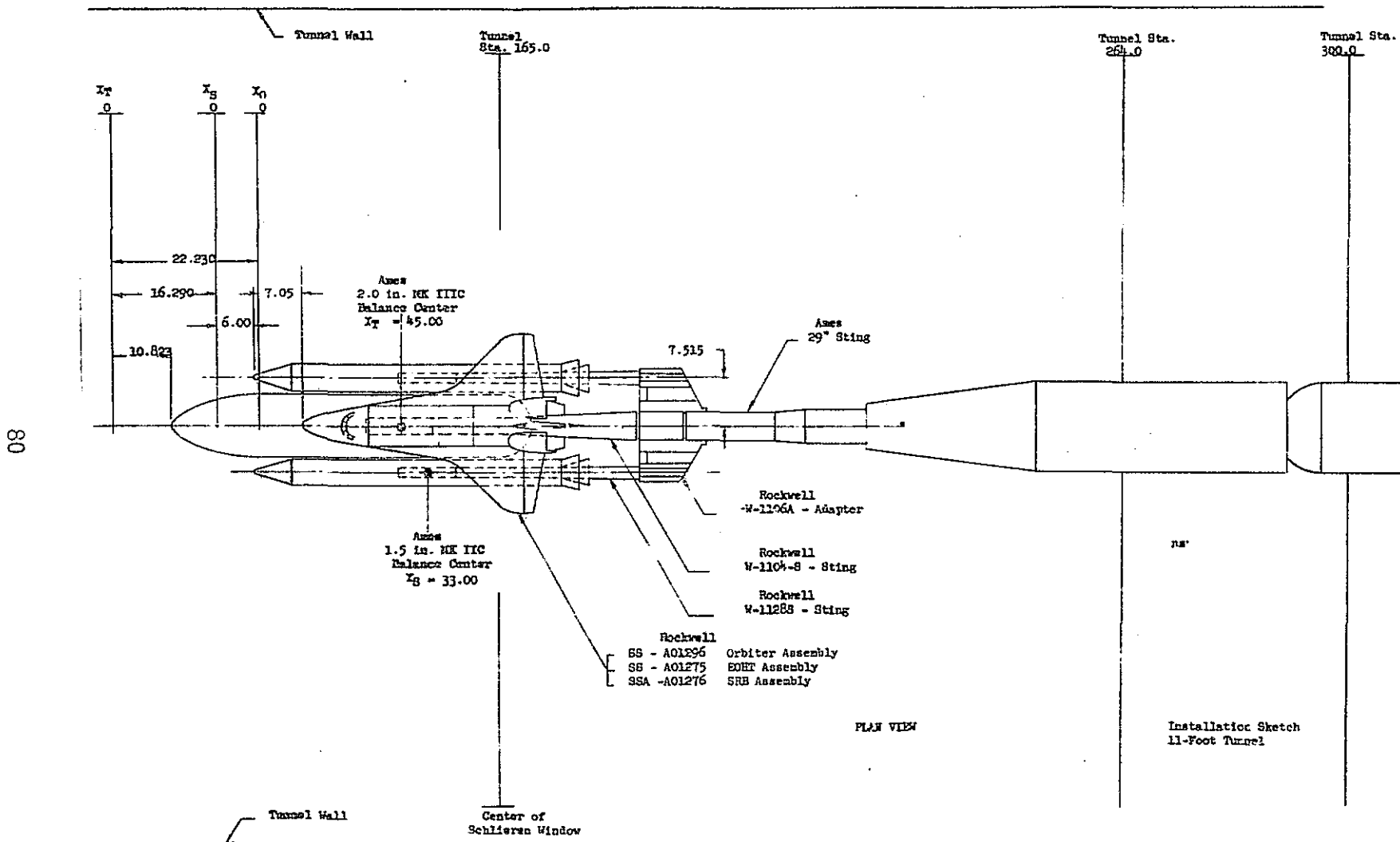
ORIGINAL PAGE IS
OF POOR QUALITY

79



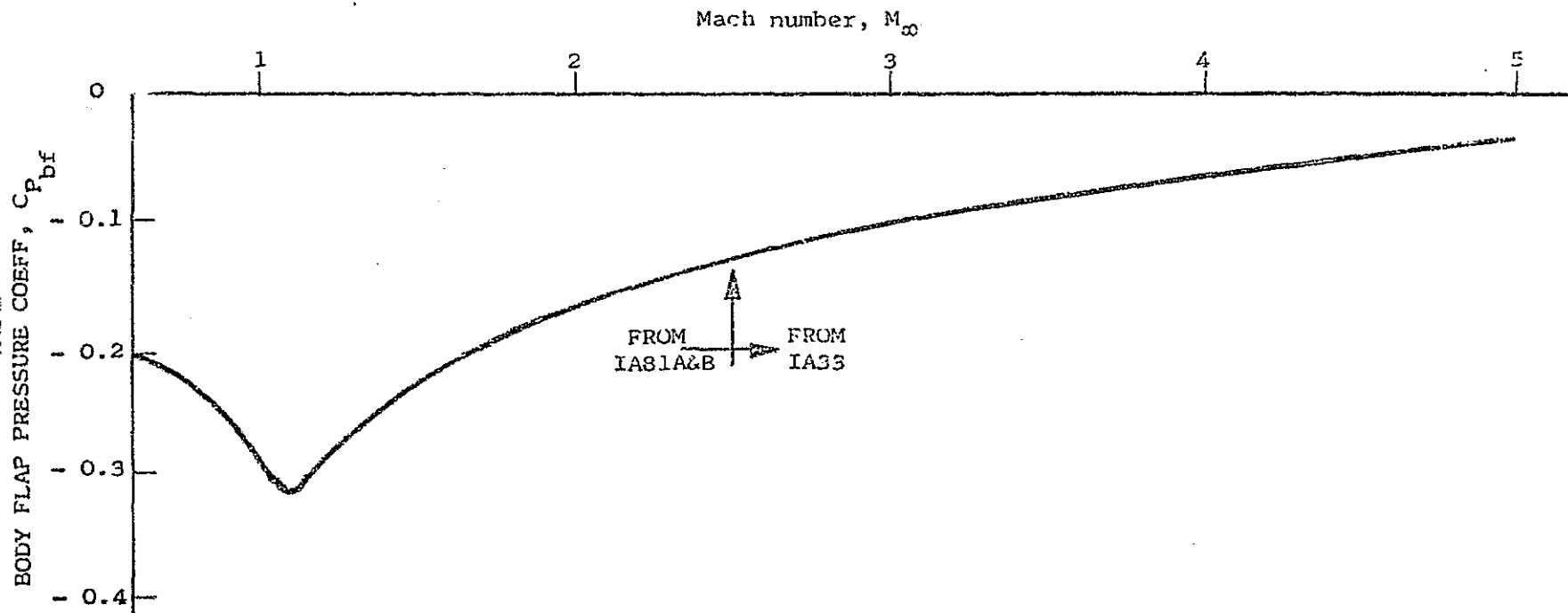
m. Model Installation Side View

Figure 2. - Continued.



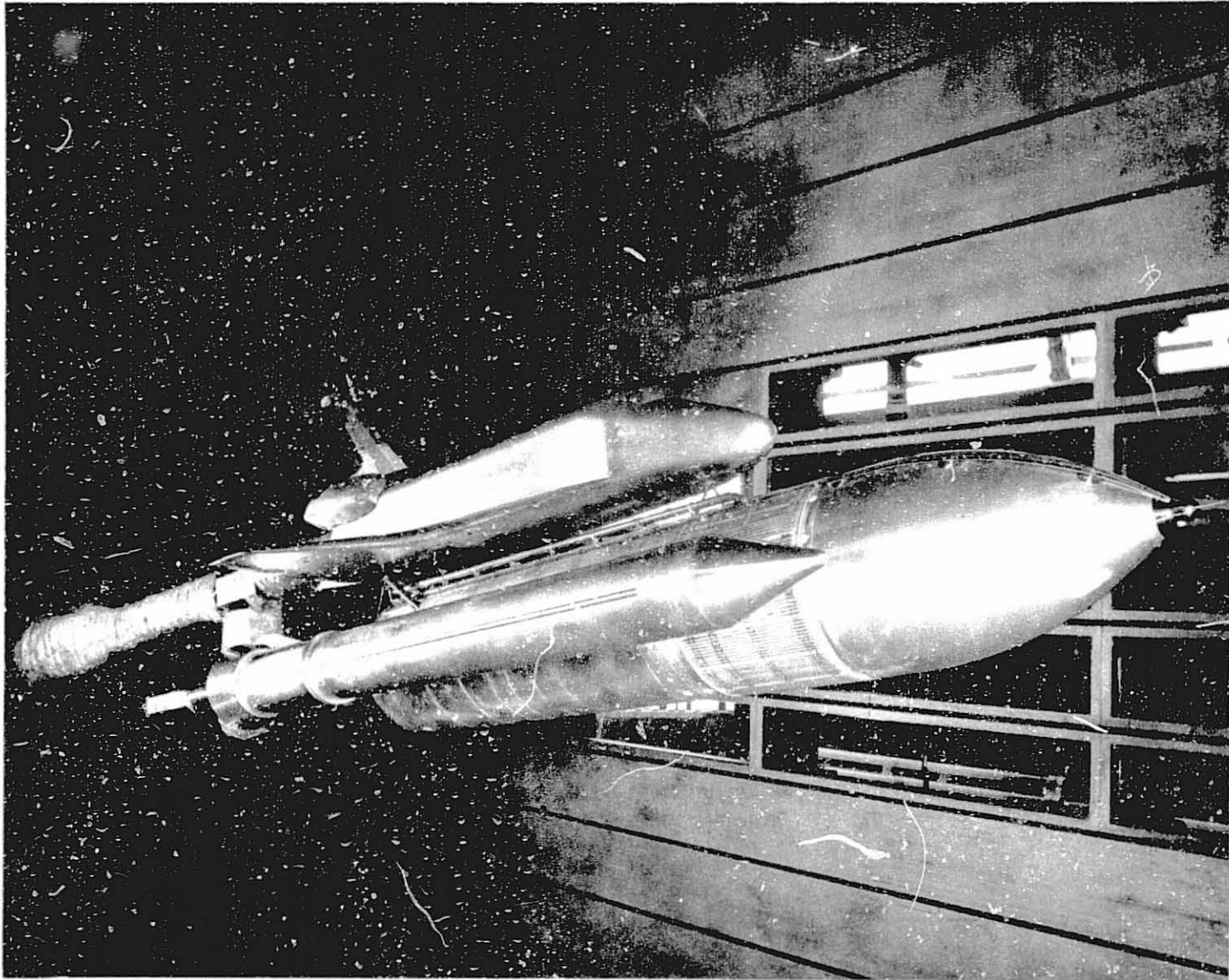
n. Model Installation Top View

Figure 2. - Continued.



o. Orbiter Body Flap Pressure Coefficients

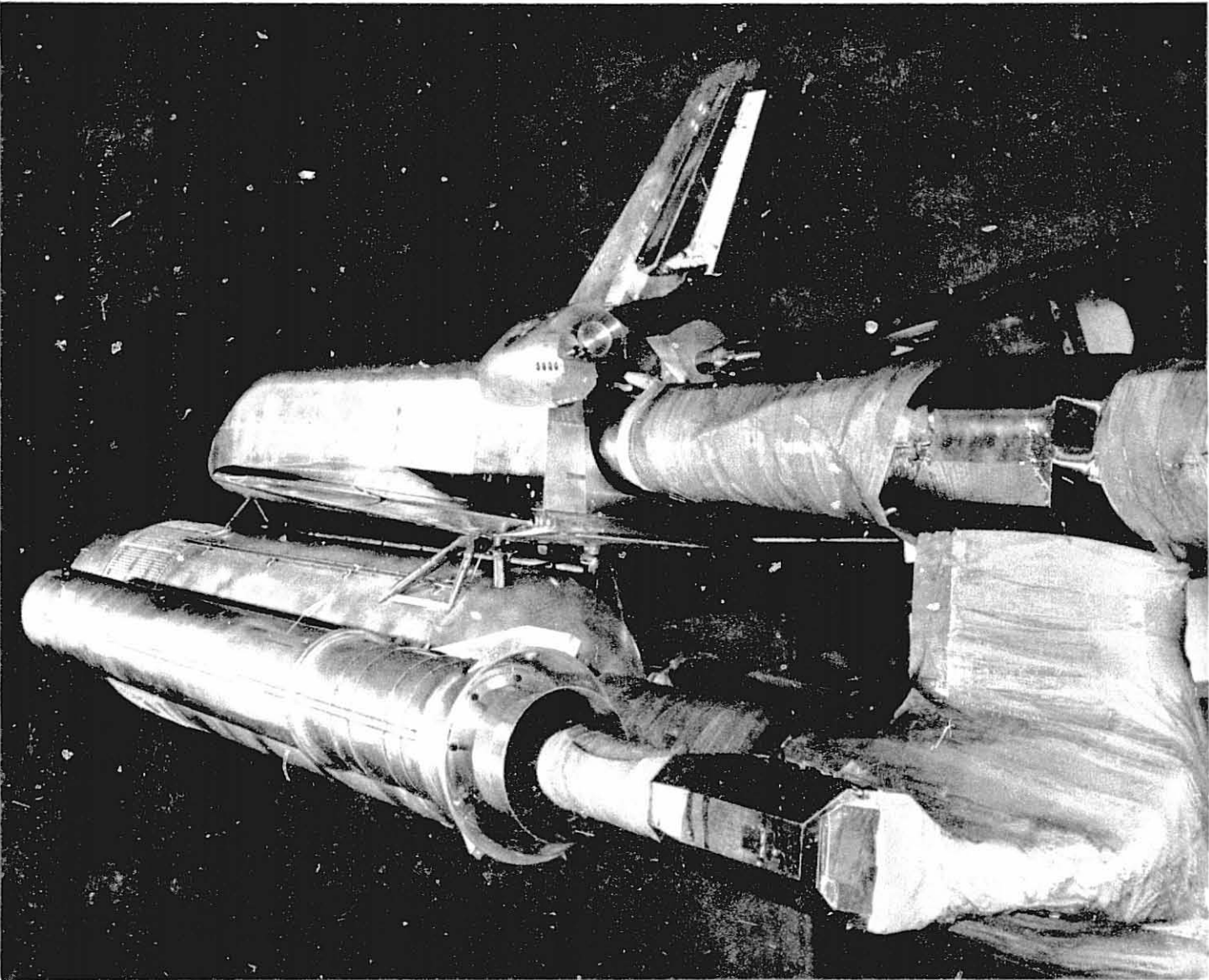
Figure 2. - Concluded.



a. Side View

Figure 3. - Model photographs.

ORIGINAL PAGE IS
OF POOR QUALITY



b. Rear View

Figure 3. - Concluded.

ORIGINAL PAGE IS
OF POOR QUALITY

APPENDIX
TABULATED SOURCE DATA

Tabulations of plotted data are available on request from
Data Management Services

PRECEDING PAGE BLANK NOT FILMED 85

ARC11-019 IABI LVAP(SBHL UNSEALD) EXTERNAL TANK

(HETT01)

BETAT (1) = .100 ALPHAT(4) = -.203

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0164	.0400	.0644	.1234	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4997
PHI															
.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
30.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
120.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
135.000		.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
147.000		.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
162.000		.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
180.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
198.000		.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
213.000		.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
225.000		.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
240.000		.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
270.000		.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
300.000		.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
330.000		.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	.0000	.0000	.0000	.0000	.0000	.0000									
30.000	.0000	.0000	.0000	.0000	.0000	.0000									
60.000	.0000	.0000	.0000	.0000	.0000	.0000									
90.000	.0000	.0000	.0000	.0000	.0000	.0000									
120.000	.0000	.0000	.0000	.0000	.0000	.0000									
135.000	.0000	.0000	.0000	.0000	.0000	.0000									
147.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000								
162.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000								
180.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000							
198.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000							
213.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000							
225.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000							
240.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000							
270.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000							
300.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000							
330.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000							

ARC11-019 (A8) LVAP(SBHL UNSEALED) EXTERNAL TANK

(RETTO1)

BETAT (1) * .101 ALPHAT(5) = 2.066

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2921	.3362	.3904	.4445	.4987
PHI															
.000	1.2756	.7719	.9232	.8283	.6031	.1338	-.2170	-.3068	-.3862	-.1720	.1359	.1578	-.0114	-.2109	-.1043
30.000		.7813	.9496	.8205	.5973	.1268	-.2265	-.3020	-.3853	.0255	.1015	.1321	-.2282	-.1614	-.0859
60.000		.8172	.8798	.8023	.5722	.1071	-.2352	-.3131	-.3830	.0858	.3377	-.0020	-.2977	-.1361	-.0474
90.000		.8019	.9095	.7773	.5476	.0843	-.2639	-.3368	.0030	.4000	.7243	-.0725	-.3532	-.1788	-.0375
120.000		.7607	.9466	.7533	.5251	.0510	-.2814	-.3542	-.1476	.0736	.3674	-.0203	-.0367	-.1083	-.0071
135.000			.9857	.7472	.5116	.0568	-.2975	-.3507	-.3708	.0520	.1154	.1413	.1182	-.0951	-.0343
147.000		.7641	1.0094	.7434	.5111	.0540	-.2826	-.3343	-.4023	.0483	.0988	.2180	.3063	-.1131	-.0366
162.000			1.0007	.7399	.5025	.0453	-.2622	-.3618	-.2799	.0599	.1136	.2455	.2657	-.5167	-.0431
180.000	1.2756	.7867	1.0035	.7366	.4933	.0390	-.3069	-.3388	-.0335	.0411	.0649	.2432	.3711	-.1972	-.0091
198.000			1.0012	.7424	.4125	-.0286	-.2437	-.3978	-.0571	.0188	.0772	.2536	.2829	-.5286	-.0343
213.000		.7577	1.0138	.7442	.0060	-.2950	-.5059	-.2574	-.3077	.0344	.1551	.2383	.1780	-.2703	-.0255
225.000			.9832	.7582	.4667	-.0083	-.2478	-.3783	-.2159	.0542	.1375	.1596	.0305	-.1007	-.0439
240.000		.7872	.9016	.7666	.5032	.0790	-.3013	-.3205	-.1529	.1029	.3412	-.0165	-.0435	-.1005	-.0038
270.000		.8223	.8690	.7917	.5544	.0915	-.2323	-.3157	-.0144	.3968	.7090	-.2396	-.3290	-.1662	-.0270
300.000		.8134	.8568	.8114	.5790	.1240	-.2437	-.3233	-.3695	.1063	.3427	.0581	-.3007	-.1204	-.0449
330.000		.7626	.9850	.8256	.6002	.1292	-.2252	-.3023	-.3901	.0235	.1066	.0800		-.1576	-.0764
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	.0242	.0261	-.0167	.1076	-.0135	-.3139									
30.000	.0212	.0184	-.0207	.1148	.0052	-.3290									
60.000	-.0139	-.0024	-.0111	.1478	.0811	.0000									
90.000	-.0321	-.0447	.0356	.1750	.4841	-.2928									
120.000	-.0571	-.1058	.1023	.2174	.2067	-.2968									
135.000	-.0622	-.1051	.1093	.3440	.2529										
147.000	-.0314	-.0793	.1293	.2917	.2079	-.3035									
162.000	-.0857	-.1197	.1086	.2648	.1203										
180.000	-.0894	-.1005	.0997	.2526	.0626	-.3055									
198.000	-.2590	-.2099	.1114	.2260	.0114										
213.000	-.0354	-.1071	.1094	.2293	.0755	-.3099									
225.000	-.0557	-.0874	.0718	.2894	.1837										
240.000	-.0386	-.0808	.0809	.1923	.1584	-.2963									
270.000	-.0136	-.0313	.0365	.1687	.4426	-.2964									
300.000	-.0191	-.0144	-.0130	.1406	.0907	-.3004									
330.000	.0171	.0156	-.0216	.1090	.0243	-.3351									

ORIGINAL PAGE IS OF POOR QUALITY

C.2

DATE 21 OCT 75

IABIA - PRESSURE SOURCE DATA TABULATION

PAGE 2637

ARC11-019 IAB1 LVAP(SBHL SEALED) EXTERNAL TANK

(RETT02) (04 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
 BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = .600 RN/FT = 3.200
 ELV-1B = .000 ELV-0B = .000
 RUDDER = .000 SPDBRK = 55.000

BETAT (1) = .107 ALPHAT(1) = -6.577

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0194	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.0443	.4175	.6791	.3247	.0950	-.2894	-.3700	-.3520	-.2351	-.1041	.0877	-.0958	-.0984	-.0735	-.0428
30.000		.3802	.6048	.3397	.1100	-.2757	-.3639	-.3322	-.2343	-.1069	.0648	-.1782	-.2041	-.0963	-.0487
60.000		.3111	.8102	.3832	.1623	-.2289	-.3102	-.2733	-.1944	-.1048	.0402	-.3766	-.4436	-.1783	-.0560
90.000		.2954	.8402	.4678	.2464	-.1525	-.1946	-.1259	.0095	.1345	.3170	-.2685	-.6320	-.3496	-.2098
120.000		.4201	.9057	.5684	.3620	-.0728	-.1499	-.1064	.0113	.1619	.3480	.0044	-.0640	-.0745	-.0618
135.000			.9467	.6264	.4054	-.0101	-.1448	-.1143	-.0232	.1174	.3163	.0608	.0135	-.0846	-.0683
147.000		.4997	.9804	.6602	.4487	.0196	-.1358	-.1252	-.0337	.1082	.3336	.0949	.0625	-.1173	-.0303
162.000			1.0064	.6900	.4794	.0344	-.1304	-.1235	-.0381	.1015	.3568	.1670	.0532	-.5990	-.1310
180.000	1.0443	.6277	1.0242	.7016	.4893	.0424	-.1210	-.1181	-.0290	.1103	.3610	.2286	.1381	-.3282	-.1227
198.000			1.0119	.6929	.4311	.0338	-.1308	-.1094	-.0268	.1019	.3400	.2128	.1119	-.5910	-.1788
213.000		.6492	1.0097	.5520	.0000	-.3196	-.4150	-.0105	-.0384	.0398	.2685	.1575	.0515	-.2142	.0561
225.000			.9539	.6499	.3560	-.0254	-.1546	-.1000	-.0133	.0962	.2879	.0846	-.0491	-.1404	-.0745
240.000		.4467	.9111	.5895	.3523	-.0442	-.1510	-.1112	.0106	.1561	.3340	.0125	-.0919	-.0881	-.0665
270.000		.3376	.8571	.4846	.2589	-.1433	-.1909	-.1221	.0060	.1272	.3168	-.2567	-.4032	-.3413	-.2015
300.000		.2952	.8093	.3946	.1688	-.2133	-.3065	-.2782	-.1878	-.1120	.0416	-.3376	-.3469	-.1707	-.0595
330.000		.3797	.6190	.3481	.1022	-.2811	-.3632	-.3376	-.2339	-.1167	.0571	.0000		-.0969	-.0600
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0319	-.0293	-.0316	-.0839	-.4217	-.2065									
30.000	-.0341	-.0315	-.0374	-.0807	-.3828	-.2922									
60.000	-.0498	-.0442	-.0450	-.0600	-.2803	.0000									
90.000	-.1287	-.1113	-.0937	-.0905	.4434	-.2830									
120.000	-.0341	-.0147	.0049	-.0607	-.0874	-.2394									
135.000	-.0389	-.0092	.0197	.2187	.0308										
147.000	-.0010	.0237	.0558	.0908	-.0611	-.2288									
162.000	-.0585	-.0295	.0098	.0370	-.0819										
180.000	-.0723	-.0367	.0080	.0309	-.0198	-.2292									
198.000	-.2767	-.1597	.0411	-.0048	-.1493										
213.000	-.0233	-.0310	.0720	-.0066	-.1765	-.2370									
225.000	-.0394	-.0136	.0243	.0943	-.0826										
240.000	-.0333	-.0132	.0054	-.0591	-.1101	-.2416									
270.000	-.1311	-.0998	-.0983	-.0983	.3920	-.2482									
300.000	-.0479	-.0464	-.0448	-.0591	-.2661	-.2694									
330.000	-.0384	-.0385	-.0426	-.0775	-.3676	-.2860									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IABJ LYAP(SBHL SEALED) EXTERNAL TANK

(RETT03)

BETAT (1) = .124 ALPHAT (2) = -4.884

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.1729	.6190	.6531	.5043	.2572	-.2306	-.5513	-.3959	-.1114	.0072	.1314	-.1594	-.3002	-.1183	-.0515
30.000		.5998	.6400	.5198	.2698	-.2189	-.5401	-.2844	-.1052	.0166	.1406	-.2643	-.4104	-.1535	-.0678
60.000		.6000	.6152	.5548	.3058	-.1854	-.3528	-.2061	-.0519	.0676	.1977	-.4669	-.4987	-.3057	-.0954
90.000		.6137	.6463	.6156	.3664	-.1293	-.2179	-.0621	.1315	.3991	.5102	-.6206	-.5184	-.3922	-.2100
120.000		.6811	.7131	.6771	.4434	-.0733	-.2336	-.1164	.0805	.2545	.4188	-.0815	-.0632	-.2159	-.1922
135.000			.7252	.7140	.4683	-.0218	-.2525	-.1571	.0223	.2023	.3708	.0642	.0394	-.2695	-.1895
147.000		.7208	.7653	.7355	.4981	-.0023	-.2650	-.1818	-.0062	.1763	.3777	.1465	.1151	-.3405	-.1660
162.000			.7766	.7534	.5126	.0057	-.2716	-.1991	-.0289	.1526	.3854	.2362	.1564	-.2757	-.2389
180.000	1.1729	.7512	.8360	.7616	.5168	.0084	-.2633	-.1964	-.0357	.1463	.3842	.3075	.2369	-.3689	-.2175
198.000			.8931	.7546	.4431	-.0195	-.3023	-.1628	-.0214	.1346	.2840	.2715	.1878	-.9605	-.2983
213.000		.7010	.9410	.6595	.0000	-.3681	-.5812	-.0686	-.0323	.0945	.3333	.2180	.0912	-.2678	-.2059
225.000			.9635	.7340	.4080	-.0737	-.3289	-.1322	.0159	.1721	.3544	.0978	-.0320	-.3089	-.2167
240.000		.6572	.8607	.3918	.4206	-.0525	-.2508	-.1131	.0732	.2399	.3860	-.0552	-.0782	-.2370	-.2016
270.000		.6218	.6960	.6233	.3755	-.1233	-.2182	-.0647	.1243	.2908	.5098	-.5561	-.4295	-.3934	-.2131
300.000		.6099	.5807	.5631	.3140	-.1719	-.3491	-.2131	-.0527	.0670	.2008	-.4287	-.4234	-.2996	-.0874
330.000		.6128	.6143	.5243	.2728	-.2187	-.5284	-.2907	-.1134	.0136	.1356	.0800		-.1554	-.0591
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0171	-.0053	.0076	-.0178	-.2654	-.3110									
30.000	-.0164	-.0029	-.0009	-.0149	-.2780	-.3312									
60.000	-.0236	-.0046	.0073	.0105	-.1576	.0000									
90.000	-.0434	-.0033	.0213	.0047	.5145	-.3044									
120.000	-.0601	.0117	.0781	.0320	.0852	-.2935									
135.000	-.0724	.0169	.0930	.2739	.1302										
147.000	-.0372	.0458	.1216	.1610	.0321	-.3063									
162.000	-.0927	-.0033	.0815	.1238	-.0103										
180.000	-.1079	-.0074	.0820	.1178	.0134	-.3013									
198.000	-.2019	-.0656	.1078	.0806	-.0868										
213.000	-.0603	.0020	.1163	.0728	-.0948	-.3233									
225.000	-.0763	.0148	.0893	.1635	.0293										
240.000	-.0673	.0160	.0765	.0380	.0554	-.3042									
270.000	-.0487	.0001	.0202	.0033	.4479	-.3200									
300.000	-.0246	-.0054	.0054	.0087	-.1517	-.3217									
330.000	-.0193	-.0033	.0011	-.0139	-.2708	-.3553									

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 21 OCT 75

IABIA - PRESSURE SOURCE DATA TABULATION

PAGE 2651

ARC11-019 IAB1 LVAP(SBHL SEALED) EXTERNAL TANK

(RETT03)

BETAT (1) = .066 ALPHAT (8) = 6.247

SECTION (1) EXTERNAL TANK	DEPENDENT VARIABLE CP														
X/LT	.0000	.0092	.0184	.0400	.0544	.1294	.1944	.2106	.2323	.2594	.2921	.3362	.3904	.4445	.4987
PHI															
.000	1.1689	.5613	.9700	.7902	.5611	.0519	-.3073	-.2852	-.1049	.0681	.3097	-.0298	-.1131	-.0509	.0003
30.000		.6311	1.1334	.7539	.5273	.0206	-.3325	-.2464	-.0730	.1015	.3215	-.0974	-.2309	-.0567	-.0073
60.000		.5494	1.0008	.6755	.4467	-.0542	-.3426	-.1542	-.0411	.2231	.3892	-.1909	-.1853	-.0630	-.0882
90.000		.4833	.9830	.5872	.3503	-.1415	-.2273	-.0723	.1176	.2867	.5090	-.3753	-.3736	-.2282	-.0976
120.000		.5372	.7864	.5108	.2737	-.2310	-.2952	-.1933	-.0450	.0740	.2076	-.3971	-.2103	-.2194	-.0839
135.000			.5960	.4909	.2318	-.2430	-.4272	-.2304	-.0739	.0582	.1664	-.1026	-.0057	-.2277	-.1066
147.000		.5323	.5820	.4865	.2259	-.2557	-.5173	-.2199	-.0778	.0610	.1803	.0482	.0631	-.2719	-.0629
162.000			.6481	.4659	.2101	-.2771	-.5747	-.1903	-.0742	.0674	.1940	.1698	.1425	-.7264	-.1381
180.000	1.1689	.5931	.6660	.4525	.1906	-.3011	-.5776	-.2000	-.0715	.0676	.1984	.2381	.2323	-.6136	-.1674
198.000			.6139	.4773	.0819	-.3894	-.5219	-.2232	-.0953	.0398	.2179	.2102	.1779	-.6831	-.1833
213.000		.5499	.6396	.4635	.0000	-.6548	-.6551	-.2149	-.1086	.0170	.1362	.1003	.0536	-.2702	-.0868
225.000			.6316	.4935	.2030	-.3077	-.3436	-.2256	-.0780	.0417	.1655	-.0590	-.0623	-.2436	-.1120
240.000		.5113	.9378	.5210	.2566	-.2071	-.3719	-.1898	-.0544	.0698	.2028	-.3809	-.2051	-.2182	-.0859
270.000		.4766	.9854	.5986	.3572	-.1452	-.2607	-.0807	.1072	.2760	.4950	-.5848	-.3591	-.2337	-.0771
300.000		.5454	.9977	.8850	.4532	-.0370	-.3041	-.1569	.0408	.2183	.3902	-.1320	-.1259	-.0741	-.0087
330.000		.6282	1.0743	.7637	.5321	.0243	-.3099	-.2463	-.0751	.0994	.3179	.0000		-.0439	-.0043
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	.0090	.0173	.0345	.0343	-.1493	-.3014									
30.000	.0044	.0139	.0319	.0450	-.1504	-.3195									
60.000	.0051	.0114	.0478	.0749	-.0097	.0000									
90.000	-.0534	-.0254	.0744	.1279	.4597	-.2817									
120.000	-.0407	.0179	.1211	.1276	.0238	-.2986									
135.000	-.0364	.0316	.1387	.2946	.1551										
147.000	.0015	.0648	.1721	.2314	.0827	-.2907									
162.000	-.0512	.0389	.1410	.1774	-.0670										
180.000	-.0594	.0297	.1376	.1692	-.1022	-.2869									
198.000	-.2097	-.0624	.1607	.1544	-.1466										
213.000	.0090	.0333	.1818	.1658	-.0401	-.2965									
225.000	-.0437	.0241	.1316	.2709	.1058										
240.000	-.0492	.0164	.1189	.1228	.0181	-.3145									
270.000	-.0738	-.0271	.0756	.1280	.4595	-.3019									
300.000	.0046	.0162	.0479	.0775	.0004	-.2979									
330.000	.0044	.0152	.0333	.0513	-.1305	-.3210									

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 21 OCT 74

IABIA - PRESSURE SOURCE DATA TABULATION

PAGE 2659

ARC11-019 IAB1 LVAP(SBHL SEALED) EXTERNAL TANK

(RETT05) (04 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
 BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.250 RN/FT = 2.250
 ELY-1B = .000 ELY-0B = .000
 RUDDER = .000 SPDBRK = 55.000

BETAT (1) = .069 ALPHAT(1) = -5.882

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3382	.3904	.4445	.4987
PHI															
.000	1.3521	.7766	.7763	.6609	.4447	.0336	-.2411	-.3192	-.3807	-.3501	-.0220	.0264	-.0152	-.1931	-.2090
30.000		.7578	.7559	.6875	.4599	.0430	-.2399	-.3087	-.3740	-.2435	-.0522	-.0438	-.2408	-.2160	-.1425
60.000		.7370	.7284	.7271	.5019	.0775	-.2163	-.2891	-.3625	-.0555	.0629	-.1489	-.5070	-.2842	-.1255
90.000		.7641	.7881	.7971	.5761	.1408	-.1849	-.2505	-.3221	.2322	.6328	-.1297	-.6415	-.3878	-.3948
120.000		.8535	.8787	.8825	.6663	.2130	-.1203	-.1801	-.2661	.1537	.2421	.3154	.1409	.1271	-.0272
135.000			.9230	.9300	.7067	.2594	-.0798	-.1504	-.2479	.0894	.2138	.3412	.2637	.0978	-.0535
147.000		.9141	.9546	.9566	.7355	.2860	-.0512	-.1368	-.2377	.1366	.2176	.3498	.3406	.0788	-.0968
162.000			1.0073	.9816	.7576	.3008	-.0369	-.1381	-.2154	-.2011	.2465	.3684	.4475	-.4427	-.1524
180.000	1.3521	.9546	1.0529	.9914	.7626	.3058	-.0687	-.1069	-.2180	-.1746	.2533	.3859	.5428	.1487	-.0266
198.000		1.1105	.9804	.6982	.2490	.0061	-.1849	-.1829	-.1829	-.1244	.2107	.3792	.4656	-.4135	-.1157
213.000		.8988	1.1494	.8604	.0000	-.0793	-.3179	-.0820	-.2552	-.1353	.2067	.3830	.3275	-.2677	-.0095
225.000		1.1178	.9514	.6294	.1481	-.0836	-.1833	-.2670	.0552	.2173	.3400	.2080	.0676	-.0130	
240.000		.8264	1.0348	.8942	.6344	.2007	-.1045	-.1890	-.2747	.1471	.2308	.3320	.1433	.1118	-.0165
270.000		.7651	.8376	.8059	.5767	.1415	-.1732	-.2610	-.3183	.1933	.5638	-.1144	-.6139	-.4293	-.3904
300.000		.7389	.7189	.7333	.5009	.0869	-.2261	-.2804	-.3838	-.0614	.0494	-.1505	-.5212	-.2649	-.1467
330.000		.7523	.7356	.6938	.4660	.0424	-.2584	-.3167	-.3835	-.2576	-.0491	.0000		-.2118	-.1363

X/LT .5528 .6340 .7423 .8506 .9264 .9838

PHI															
.000	-.0498	-.0115	-.0401	-.0251	-.0206	-.2993									
30.000	-.0596	-.0329	-.0579	-.0057	-.0259	-.3143									
60.000	-.0844	-.0662	-.0709	.0195	.0767	.0000									
90.000	-.1086	-.1368	-.0994	.0691	.5511	-.3012									
120.000	-.0825	-.1781	-.1594	.0860	.2007	-.2978									
135.000	-.0703	-.2016	-.1362	.3190	.2202										
147.000	-.0156	-.1644	-.1194	.2162	.1631	-.2857									
162.000	-.0640	-.1537	-.1495	.1850	.1871										
180.000	-.0486	-.1042	-.0843	.1726	.1566	-.2847									
198.000	-.3051	-.2799	-.0757	.1334	.0724										
213.000	-.0017	-.1384	-.0864	.1331	.0196	-.2975									
225.000	-.0432	-.1283	-.1132	.1981	.0861										
240.000	-.0621	-.1543	-.1094	.0786	.1400	-.3118									
270.000	-.1111	-.1315	-.0731	.0543	.4647	-.2972									
300.000	-.0829	-.0947	-.0715	.0069	.0780	-.3099									
330.000	-.0734	-.0461	-.0537	-.0187	-.0182	-.3166									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IABI LVAP(SBHL SEALED) EXTERNAL TANK

(RETT05)

BETAT (1) = .070 ALPHAT(5) = 2.177

SECTION (1) EXTERNAL TANK	DEPENDENT VARIABLE CP														
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.3546	.8096	.9299	.8749	.6535	.2040	-.1266	-.2106	-.2870	-.2525	.1007	.1321	.0737	-.1234	-.1430
30.000		.8224	.9477	.8692	.6469	.1961	-.1323	-.2087	-.2863	-.2565	.0967	.0777	-.1039	-.1374	-.1105
60.000		.8486	.9136	.8537	.6261	.1785	-.1424	-.2204	-.2974	.0723	.1408	.1138	-.3972	-.1377	-.0610
90.000		.8336	.9263	.8264	.6018	.1550	-.1685	-.2356	-.3067	.2592	.6612	.0399	-.3605	-.2338	-.0667
120.000		.7924	.9624	.8017	.5800	.1264	-.1754	-.2473	-.3267	.0343	.1471	.0501	-.1138	-.1685	-.0919
135.000			.9911	.7950	.5669	.1348	-.1913	-.2607	-.3293	.0097	.0715	.2060	.0711	-.0458	-.1584
147.000		.7908	1.0150	.7937	.5653	.1301	-.2030	-.2572	-.3181	-.0059	.1004	.1330	.2171	-.0324	-.2079
162.000			1.0208	.7865	.5537	.1311	-.1869	-.2469	-.3404	.0178	.0992	.1693	.2453	-.3888	-.2417
180.000	1.3546	.8237	1.0024	.7833	.5407	.1418	-.2033	-.2586	-.3328	.0079	.0880	.1438	.4178	.0164	-.1616
198.000			1.0262	.7912	.4594	.0962	-.1542	-.2994	-.3063	-.0557	.0833	.1684	.3278	-.3771	-.1657
213.000		.7857	1.0427	.7928	.0000	-.1345	-.3717	-.1892	-.3455	-.1668	.0998	.2066	.2057	-.2446	-.0465
225.000			1.0145	.8125	.5089	.1156	-.1577	-.2844	-.3142	-.0279	.0450	.1910	-.0578	-.0519	-.1118
240.000		.8074	.9390	.8166	.5493	.1763	-.2084	-.2376	-.3328	.0374	.1215	.0482	-.1060	-.1468	-.0594
270.000		.8419	.9098	.8421	.6057	.1577	-.1811	-.2271	-.3123	.2482	.6377	-.0723	-.3191	-.2076	-.0604
300.000		.8455	.8901	.8636	.6293	.1860	-.1475	-.2220	-.3061	.0701	.1374	.1527	-.3105	-.1253	-.0613
330.000		.8113	.9409	.8740	.6513	.1933	-.1389	-.2071	-.2902	-.2557	.0991	.0000		-.1379	-.1013
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0642	-.0168	-.0091	.0079	.0014	-.2738									
30.000	-.0620	-.0133	-.0155	.0171	.0219	-.2894									
60.000	-.0419	-.0256	-.0177	.0671	.0892	.0000									
90.000	-.0447	-.0671	-.0310	.1182	.4426	-.2660									
120.000	.0137	-.0718	-.0411	.2041	.2938	-.2679									
135.000	.0002	-.0604	-.0098	.4238	.3096										
147.000	.0689	-.0478	.0238	.3259	.2657	-.2862									
162.000	-.0102	-.0443	.0251	.2830	.2097										
180.000	-.0325	-.0307	.0343	.2639	.1487	-.2797									
198.000	-.1782	-.1995	.0454	.2340	.0823										
213.000	.0419	-.0588	.0146	.2346	.1147	-.2872									
225.000	-.0215	-.0493	-.0061	.2850	.1988										
240.000	.0002	-.0500	.0054	.1773	.2190	-.2741									
270.000	-.0268	-.0531	-.0099	.1107	.4267	-.2747									
300.000	-.0488	-.0446	-.0156	.0515	.0899	-.2819									
330.000	-.0542	-.0297	-.0137	.0113	.0420	-.3015									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL UNSEALED) EXTERNAL TANK

(RETT06)

ALPHAT (2) = -4.228 BETAT (2) = .123

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.0391	.4983	.5153	.3761	.1496	-.2554	-.3528	-.3275	-.2315	-.1068	.0806	-.0957	-.0980	-.0754	-.0508
30.000		.4846	.5057	.3935	.1596	-.2380	-.3412	-.3107	-.2179	-.1012	.0796	-.1667	-.1952	-.0881	-.0508
60.000		.4861	.4740	.4314	.1998	-.2017	-.2754	-.2441	-.1553	-.0612	.0760	-.3359	-.3849	-.1494	-.0513
90.000		.4989	.5629	.4878	.2579	-.1411	-.1807	-.1067	.0294	.1631	.3633	-.2059	-.4698	-.2874	-.1457
120.000		.5476	.6212	.5525	.3302	-.0932	-.1686	-.1198	-.0053	.1263	.2958	-.0497	-.0826	-.0912	-.0767
135.000			.6742	.5884	.3566	-.0526	-.1749	-.1429	-.0469	.0849	.2667	.0247	-.0077	-.1007	-.0810
147.000		.5937	.6863	.6084	.3820	-.0358	-.1786	-.1518	-.0611	.0721	.2846	.0719	.0438	-.1388	-.0449
162.000			.6947	.6252	.3984	-.0294	-.1780	-.1663	-.0700	.0645	.2958	.1357	.0536	-.5765	-.1356
180.000	1.0391	.6275	.7379	.6363	.4031	-.0275	-.1728	-.1600	-.0653	.0696	.3014	.2016	.1202	-.3661	-.1361
198.000			.7964	.6284	.3403	-.0310	-.1770	-.1505	-.0585	.0650	.2493	.1792	.0943	-.5432	-.1780
213.000		.5804	.8285	.5309	.0000	-.3613	-.4455	-.0490	-.0679	.0067	.2289	.1346	.0357	-.1774	-.0031
225.000			.8132	.6060	.3075	-.0684	-.1843	-.1342	-.0480	.0660	.2447	.0475	-.0727	-.1398	-.0873
240.000		.5366	.7553	.5632	.3133	-.0705	-.1728	-.1253	-.0112	.1268	.2841	-.0375	-.0981	-.0979	-.0788
270.000		.4967	.6031	.4977	.2679	-.1321	-.1754	-.1048	.0251	.1606	.3669	-.2096	-.3783	-.2856	-.1393
300.000		.4824	.4604	.4395	.2056	-.1853	-.2766	-.2457	-.1600	-.0664	.0863	-.3031	-.2868	-.1425	-.0576
330.000		.4883	.4777	.3994	.1596	-.2359	-.3453	-.3204	-.2244	-.1080	.0725	.0000		-.0969	-.0556
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0360	-.0323	-.0332	-.0790	-.4045	-.1880									
30.000	-.0360	-.0297	-.0379	-.0743	-.3773	-.2511									
60.000	-.0392	-.0392	-.0379	-.0479	-.2482	.0000									
90.000	-.0957	-.0715	-.0563	-.0621	.4233	-.2449									
120.000	-.0498	-.0200	.0126	-.0357	-.0739	-.2095									
135.000	-.0455	-.0195	.0262	.2054	.0353										
147.000	-.0144	.0115	.0567	.1004	-.0539	-.1967									
162.000	-.0677	-.0342	.0181	.0561	-.0800										
180.000	-.0756	-.0410	.0165	.0482	-.0395	-.2018									
198.000	-.2775	-.1456	.0482	.0202	-.1380										
213.000	.0073	-.0400	.0751	.0149	-.1631	-.2059									
225.000	-.0513	-.0211	.0234	.1112	-.0595										
240.000	-.0455	-.0195	.0102	-.0324	-.0754	-.1988									
270.000	-.1021	-.0720	-.0674	-.0785	.3782	-.2249									
300.000	-.0450	-.0389	-.0384	-.0508	-.2430	-.2285									
330.000	-.0381	-.0310	-.0384	-.0780	-.3701	-.2352									

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 21 OCT 75

IABIA - PRESSURE SOURCE DATA TABULATION

PAGE 2675

ARC11-019 'AB1 LVAP(ELHL UNSEALD) EXTERNAL TANK

(RETT06)

ALPHAT(3) = -.030 BETAT (5) = 6.318

SECTION (1)EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.0338	.3082	.8476	.4551	.2322	-.1800	-.3387	-.3276	-.2371	-.1141	.1046	-.1059	-.1005	-.0934	-.0773
30.000		.3679	.6137	.3753	.1515	-.2372	-.3397	-.3071	-.1985	-.0725	.1082	-.1372	-.1654	-.0908	-.0657
60.000		.3860	.5042	.3399	.1084	-.2584	-.2758	-.2171	-.0929	.0309	.1406	-.2542	-.2255	-.0860	-.0545
90.000		.4334	.5526	.3251	.0941	-.2594	-.2065	-.1108	.0501	.2087	.3884	-.1531	-.4132	-.1178	-.0683
120.000		.3689	.5552	.3373	.1137	-.2605	-.2418	-.1823	-.0502	.0797	.1889	-.1292	-.1303	-.1146	-.1039
135.000			.7195	.3611	.1251	-.2335	-.2687	-.2197	-.1035	.0314	.1637	-.0425	-.0989	-.1553	-.1393
147.000		.3124	.7987	.3822	.1623	-.2123	-.2824	-.2418	-.1278	.0145	.1740	-.0101	-.0691	-.2150	-.1404
162.000			.2041	.4181	.1925	-.2001	-.2851	-.2524	-.1431	-.0076	.1976	.0431	-.0903	-.6928	-.2211
180.000	1.0338	.3215	.8136	.4684	.2388	-.1630	-.2666	-.2381	-.1389	-.0019	.1894	.1399	.0646	-.3931	-.2513
198.000			.9053	.5413	.2105	-.1204	-.2429	-.2074	-.1304	-.0014	.2240	.1415	.1185	-.4978	-.2599
213.000		.4035	.6839	.5186	.0000	-.3857	-.4871	-.1069	-.1605	-.0476	.1763	.1272	.1106	-.1928	-.0899
225.000			.8629	.6095	.3728	-.0522	-.1907	-.1599	-.0838	.0216	.2296	.0266	-.0004	-.0428	-.0327
240.000		.5021	.9688	.6474	.4089	.0043	-.1395	-.1191	-.0734	.0760	.2696	-.1085	-.0570	-.0274	-.0327
270.000		.5988	.9927	.6750	.4582	.0260	-.0882	-.0445	.0643	.1935	.4384	-.2084	-.2642	-.1017	-.0551
300.000		.5159	.8620	.6388	.4189	-.0073	-.1808	-.1683	-.0925	-.0066	.1896	-.2622	-.1653	-.0731	-.0455
330.000		.4361	.8767	.5506	.3306	-.1014	-.2907	-.2826	-.2143	-.1021	.1167	.0000		-.0847	-.0708
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0671	-.0645	-.0691	-.1114	-.4517	-.2461									
30.000	-.0549	-.0491	-.0506	-.0808	-.3779	-.1851									
60.000	-.0438	-.0401	-.0343	-.0482	-.2650	.0000									
90.000	-.0486	-.0296	.0009	.0056	.2045	-.2364									
120.000	-.0719	-.0427	.0009	-.0213	-.1177	-.2230									
135.000	-.0914	-.0580	.0094	.1084	-.0085										
147.000	-.0851	-.0512	.0236	.0847	-.1121	-.2163									
162.000	-.1454	-.1217	-.0313	.0209	-.1865										
180.000	-.1819	-.1285	-.0344	.0309	-.0249	-.3200									
198.000	-.4533	-.3328	.0921	.0462	.2327										
213.000	-.0126	-.0349	.1485	.1079	-.0203	-.2820									
225.000	-.0147	.0136	.0842	.1983	.0659										
240.000	-.0132	.0157	.0705	.0736	-.0392	-.2425									
270.000	-.0454	-.0264	-.0207	-.0474	.4200	-.2676									
300.000	-.0348	-.0270	-.0192	-.0228	-.2301	-.2630									
330.000	-.0571	-.0543	-.0587	-.0900	-.4236	-.3025									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 (A81 LVAP(ELHL UNSEALD) EXTERNAL TANK

(RETT07) (04 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
 BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = .900 RN/FT = 2.250
 ELV-18 = 8.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000

ALPHAT(1) = -11.625 BETAT (1) = -4.005

SECTION (1) EXTERNAL TANK	DEPENDENT VARIABLE CP														
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.1567	.5282	.6089	.4347	.1908	-.2799	-.5670	-.3449	-.1406	-.0385	.0654	-.2101	-.2278	-.1589	-.0684
30.000		.4441	.8557	.4772	.2487	-.2268	-.4852	-.4545	-.1828	-.0681	.0620	-.3753	-.3310	-.2087	-.0864
60.000		.4600	.9165	.5687	.3450	-.1354	-.3200	-.2786	-.1480	-.0347	.1187	-.5563	-.5420	-.3370	-.1152
90.000		.5116	.9998	.6826	.4596	-.0223	-.1852	-.0656	.1031	.2524	.4721	-.5955	-.5486	-.4455	-.3141
120.000		.6085	1.0781	.7734	.5567	.0584	-.1528	-.0779	.0907	.2581	.4521	-.0591	-.0048	-.1296	-.1594
135.000			1.1013	.8019	.5801	.1094	-.1593	-.1111	.0396	.2061	.4120	.1018	.1135	-.1500	-.1494
147.000		.6546	1.1157	.8085	.5900	.1088	-.1651	-.1323	.0102	.1796	.4109	.1864	.1860	-.2107	-.1152
162.000			1.1128	.8039	.5812	.0928	-.1879	-.1627	-.0176	.1523	.4011	.2702	.2203	-.8973	-.2235
180.000	1.1567	.6232	1.0873	.7699	.5459	.0538	-.2191	-.1909	-.0327	.1398	.3825	.3175	.2281	-.4223	-.2772
198.000			1.0661	.7201	.4489	-.0215	-.2658	-.1832	-.0393	.1288	.3531	.2830	.1566	-.9448	-.3344
213.000		.5015	1.0997	.5057	.0000	-.4630	-.6382	-.1023	-.0633	.0931	.2533	.1918	.0118	-.2694	-.3428
225.000			.9541	.6008	.2985	-.1369	-.3673	-.1484	-.0074	.1527	.3198	.1123	-.0813	-.4265	-.2975
240.000		.4066	.9248	.5736	.3054	-.1427	-.3075	-.1352	.0540	.2251	.3497	-.0005	-.1122	-.3336	-.2285
270.000		.3930	.8877	.4792	.2368	-.2340	-.2311	-.0702	.1011	.2418	.3909	-.5369	-.4486	-.4668	-.1981
300.000		.4302	.7011	.4313	.1842	-.2768	-.3133	-.1882	-.0590	.0366	.1180	-.4609	-.4273	-.3275	-.1022
330.000		.4868	.5810	.4148	.1731	-.2992	-.5900	-.2350	-.1132	.0001	.0726	.0000		-.1690	-.0755
X/LT	.5528	.6340	.7423	.8506	.9264	.9639									
PHI															
.000	-.0303	-.0107	-.0209	-.0582	-.3404	-.3085									
30.000	-.0437	-.0306	-.0298	-.0466	-.3127	-.3664									
60.000	-.0322	-.0130	-.0062	-.0075	-.1321	.0000									
90.000	-.0877	-.0475	-.0367	-.0551	.4909	-.3153									
120.000	-.0322	.0196	.0937	.0640	.1661	-.3001									
135.000	-.0241	.0266	.1133	.3499	.2708										
147.000	-.0119	.0559	.1473	.2474	.2378	-.2918									
162.000	-.0762	-.0109	.0903	.2013	.1896										
180.000	-.1210	-.0375	.0605	.1491	.1411	-.2903									
198.000	-.1582	-.0521	.0710	-.0118	.0185										
213.000	-.1605	-.0922	.0474	-.0323	-.1648	-.2967									
225.000	-.1187	-.0436	.0393	.0428	-.0779										
240.000	-.0850	-.0255	.0435	-.0065	-.0657	-.3024									
270.000	-.0375	-.0024	.0141	-.0183	.4271	-.3252									
300.000	-.0161	-.0039	-.0014	-.0240	-.2057	-.3221									
330.000	-.0146	-.0051	-.0056	-.0433	-.2964	-.3331									

ORIGINAL PAGE IS
 OF POOR QUALITY

ARC11-019 IARI LVAP(ELHL UNSEALED) EXTERNAL TANK

(RETT07)

ALPHAT(2) = -4.360 BETAT (4) = 4.313

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE LP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.1585	.5582	.5532	.4914	.2453	-.2377	-.5440	-.4456	-.1422	-.0278	.0990	-.1924	-.2124	-.1506	-.0688
30.000		.5636	.6059	.4516	.2126	-.2653	-.5735	-.2340	-.0962	.0136	.1111	-.2420	-.3207	-.1678	-.0673
60.000		.5834	.5908	.4512	.2091	-.2657	-.3028	-.1652	-.0218	.0793	.1690	-.4357	-.4695	-.3039	-.0765
90.000		.5652	.5272	.4956	.2418	-.2384	-.2054	-.0536	.1405	.3015	.4944	-.4981	-.5165	-.4521	-.1699
120.000		.5656	.5725	.5454	.3072	-.1855	-.2977	-.1313	.0688	.2396	.3658	-.0798	-.1230	-.3016	-.2067
135.000			.6699	.5895	.3460	-.1330	-.3819	-.1842	.0011	.1728	.3207	.0521	-.0496	-.3863	-.2589
147.000		.5981	.7490	.6242	.3867	-.0966	-.3723	-.2135	-.0353	.1416	.3291	.1103	.0188	-.4699	-.2366
162.000			.8821	.6709	.4336	-.0583	-.3387	-.2309	-.0613	.1169	.3393	.1910	.0573	-.9024	-.2974
180.000	1.1585	.6575	1.0207	.7207	.4759	-.0080	-.2830	-.2278	-.0590	.1093	.3181	.2791	.2099	-.4772	-.3520
198.000			1.1419	.7620	.4417	.0115	-.2942	-.1779	-.0512	.1036	.3139	.2609	.2219	-.8397	-.3855
213.000		.7005	1.0694	.7721	.0000	-.2526	-.5067	-.0481	-.0640	.0793	.3200	.2124	.1539	-.2618	-.0612
225.000			1.0829	.7823	.5028	.0146	-.2498	-.1120	.0030	.1503	.3226	.0863	.0248	-.1814	-.1401
240.000		.7122	1.1076	.7711	.5132	.0441	-.1873	-.0962	.0581	.2286	.4551	-.1008	-.0347	-.1249	-.1528
270.000		.6831	.8972	.7165	.4813	-.0146	-.1884	-.0605	.1124	.2791	.5452	-.6560	-.4025	-.3877	-.2424
300.000		.6230	.6848	.6331	.3921	-.0908	-.3109	-.2480	-.1046	.0231	.2155	-.4882	-.4241	-.2824	-.0874
330.000		.5803	.5644	.5524	.3063	-.1844	-.4638	-.4393	-.1789	-.0414	.1066	.0000		-.1795	-.0812
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0329	-.0252	-.0229	-.0519	-.3319	-.2904									
30.000	-.0145	-.0049	-.0086	-.0353	-.3069	-.3207									
60.000	-.0108	-.0014	-.0025	-.0116	-.1903	.0000									
90.000	-.0313	-.0040	.0134	-.0012	.4693	-.3010									
120.000	-.0850	-.0206	.0389	.0085	-.0464	-.3219									
135.000	-.1069	-.0302	.0420	.1141	.0201										
147.000	-.1084	-.0364	.0447	.1055	.0620	-.3098									
162.000	-.1583	-.0646	.0233	.0695	-.1175										
180.000	-.1878	-.0750	.0380	.0982	.0631	-.3794									
198.000	-.3888	-.2406	.1306	.0726	.2638										
213.000	-.0199	-.0055	.1593	.1424	.0726	-.3510									
225.000	-.0548	.0211	.1046	.2286	.1786										
240.000	-.0560	.0145	.0895	.0896	.1224	-.3162									
270.000	-.0694	-.0249	-.0035	-.0217	.4600	-.3613									
300.000	-.0352	-.0218	-.0027	.0068	-.1377	-.3556									
330.000	-.0514	-.0450	-.0314	-.0490	-.3018	-.3829									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL UNSEALD) EXTERNAL TANK

(RETT07)

ALPHAT(3) * -2.19 BETAT (3) * 2.212

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.1660	.6065	.6558	.6650	.3205	-.1733	-.5043	-.4964	-.1219	.0016	.1446	-.1576	-.2649	-.1353	-.0630
30.000		.6034	.6682	.5435	.3018	-.1901	-.5211	-.2544	-.0896	.0355	.1521	-.2258	-.3679	-.1524	-.0664
60.000		.6123	.6739	.5455	.2991	-.1874	-.3982	-.1601	-.0046	.1184	.2187	-.3891	-.4496	-.2802	-.0912
90.000		.6300	.6423	.5658	.3193	-.1730	-.2004	-.0474	.1469	.3216	.5296	-.4226	-.4871	-.3559	-.1466
120.000		.6466	.6134	.5995	.3563	-.1501	-.2571	-.1222	.0646	.2232	.3406	-.1384	-.1114	-.2415	-.1879
135.000			.6042	.6248	.3742	-.1113	-.3645	-.1716	.0031	.1692	.3000	.0217	-.0281	-.3110	-.2008
147.000		.6662	.6084	.6440	.3963	-.0897	-.3771	-.2000	-.0289	.1395	.3019	.1046	.0444	-.3923	-.1802
162.000			.6252	.6635	.4165	-.0817	-.3771	-.2177	-.0535	.1165	.3068	.1941	.0971	-.0749	-.2471
180.000	1.1660	.6782	.6898	.6834	.4291	-.0645	-.3538	-.2180	-.0604	.1063	.2793	.2658	.2161	-.4680	-.2738
198.000			.8295	.7007	.3658	-.0737	-.3660	-.1900	-.0604	.0882	.2721	.2411	.1962	-.0404	-.3005
213.000		.6790	.8624	.7057	.0000	-.3590	-.5673	-.0877	-.0765	.0634	.2898	.1771	.1063	-.2568	-.1016
225.000			.8766	.7146	.4169	-.0974	-.3338	-.1450	-.0147	.1320	.2710	.0448	-.0161	-.2226	-.1558
240.000		.6840	.7904	.7100	.4356	-.0375	-.2472	-.1219	.0468	.2047	.3704	-.1476	-.0633	-.1623	-.1634
270.000		.6921	.6635	.6856	.4394	-.0630	-.2050	-.0531	.1308	.3038	.5382	-.6112	-.4334	-.3341	-.1882
300.000		.6689	.6263	.6463	.3959	-.0931	-.3058	-.1980	-.0399	.0924	.2379	-.3852	-.3390	-.2505	-.0916
330.000		.6412	.6374	.6029	.3551	-.1422	-.4757	-.3553	-.1311	.0102	.1565	.0000		-.1512	-.0684
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0246	-.0116	-.0064	-.0234	-.2766	-.3059									
30.000	-.0154	-.0059	-.0018	-.0161	-.2717	-.3157									
60.000	-.0116	-.0013	.0074	.0104	-.1623	.0000									
90.000	-.0246	-.0018	.0316	.0374	.4020	-.2983									
120.000	-.0730	-.0037	.0685	.0362	-.0310	-.3100									
135.000	-.0860	-.0056	.0693	.1389	.0041										
147.000	-.0707	.0078	.0746	.1120	-.0668	-.2983									
162.000	-.1206	-.0310	.0666	.0989	-.1491										
180.000	-.1397	-.0429	.0762	.1182	-.0227	-.3541									
198.000	-.3105	-.1512	.1420	.1116	.1112										
213.000	-.0417	.0021	.1578	.1432	.0452	-.3277									
225.000	-.0841	.0105	.1012	.2244	.1508										
240.000	-.0810	.0032	.0878	.0852	.0904	-.3006									
270.000	-.0471	-.0037	.0301	.0207	.4446	-.3446									
300.000	-.0234	-.0148	.0058	.0146	-.1498	-.3224									
330.000	-.0265	-.0198	-.0088	-.0238	-.2754	-.3375									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IABI LVAP(ELHL UNSCALD) EXTERNAL TANK

(RETT07)

ALPHAT(4) = -.124 BETAT (3) = .112

SECTION (1)EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.1646	.6887	.8507	.6143	.3773	-.1211	-.4571	-.4009	-.1219	.0140	.1788	-.1300	-.2576	-.0986	-.0422
30.000		.6550	.8909	.6100	.3735	-.1211	-.4517	-.2583	-.0956	.0424	.1939	-.2130	-.3E+1	-.1129	-.0503
60.000		.6566	.9048	.6143	.3750	-.1215	-.3154	-.1622	.0024	.1404	.2701	-.3526	-.3781	-.2156	-.0817
90.000		.6376	.9180	.6181	.3781	-.1181	-.2002	-.0476	.1501	.3277	.5549	-.3579	-.5329	-.2095	-.0595
120.000		.6253	.9238	.6212	.3857	-.1246	-.2398	-.1310	.0440	.1896	.3195	-.2170	-.1109	-.1467	-.1165
135.000			.9207	.6251	.3804	-.1101	-.3129	-.1802	-.0123	.1385	.2727	-.0323	-.0091	-.2122	-.1318
147.000		.6156	.9149	.6281	.3857	-.1074	-.3982	-.2072	-.0389	.1151	.2746	.0753	.0626	-.3007	-.1115
162.000			.9167	.6293	.3846	-.1135	-.4220	-.2307	-.0617	.1007	.2761	.1795	.1250	-.7880	-.1865
180.000	1.1646	.6195	.9113	.6304	.3811	-.1177	-.3548	-.2307	-.0663	.0939	.2663	.2496	.2112	-.4747	-.2003
198.000			.9090	.6335	.2978	-.1597	-.3871	-.2002	-.0621	.0776	.2226	.2151	.1623	-.7903	-.2221
213.000		.6245	.9121	.6235	.0000	-.4624	-.6027	-.1184	-.0733	.0519	.2660	.1462	.0573	-.2453	-.1425
225.000			.8994	.6369	.3291	-.1826	-.3640	-.1663	-.0261	.1113	.2282	.0114	-.0609	-.2313	-.1452
240.000		.6260	.8832	.6361	.3616	-.1105	-.2683	-.1358	.0311	.1828	.3191	-.1961	-.1129	-.1548	-.1238
270.000		.6183	.8898	.6323	.3891	-.1105	-.2006	-.0528	.1385	.3197	.5473	-.5511	-.4920	-.2145	-.0748
300.000		.6140	.9021	.6250	.3834	-.1047	-.3136	-.1697	-.0022	.1370	.2720	-.3022	-.2980	-.1999	-.0855
330.000		.6276	.9005	.6189	.3789	-.1188	-.4555	-.2712	-.1093	.0419	.1883	.0000		-.1077	-.0480
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0171	-.0014	.0064	-.0012	-.2459	-.2968									
30.000	-.0148	-.0053	.0029	.0015	-.2341	-.3036									
60.000	-.0125	.0085	.0218	.0393	-.0976	.0000									
90.000	-.0468	-.0298	.0461	.0833	.3864	-.2707									
120.000	-.0617	-.0013	.0819	.0748	.0249	-.2662									
135.000	-.0609	.0141	.0981	.2703	.1225										
147.000	-.0312	.0384	.1312	.1882	.0363	-.2749									
162.000	-.0815	-.0017	.1006	.1454	-.0587										
180.000	-.0903	-.0071	.0979	.1357	-.0606	-.2760									
198.000	-.1750	-.0591	.1184	.1087	-.1135										
213.000	-.0659	-.0059	.1326	.1118	-.0882	-.2696									
225.000	-.0678	.0091	.0995	.1928	.0525										
240.000	-.0621	.0010	.0786	.0707	.0173	-.2791									
270.000	-.0491	-.0325	.0459	.0748	.3683	-.3081									
300.000	-.0224	-.0052	.0254	.0321	-.0959	-.2975									
330.000	-.0152	-.0137	.0081	-.0038	-.2179	-.3213									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IABI LVAP(ELHL UNSEALD) EXTERNAL TANK

(RETT07)

ALPHAT (4) * -.083 BETAT (5) * 6.396

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.1610	.4706	.6914	.5859	.3465	-.1406	-.4712	-.5152	-.1401	-.0246	.1565	-.1668	-.2142	-.1486	-.0782
30.000		.4858	.7236	.5055	.2674	-.2156	-.5447	-.2826	-.0823	.0399	.1523	-.1861	-.3939	-.1322	-.0875
60.000		.5168	.6033	.4665	.2102	-.2604	-.4414	-.1230	.0365	.1492	.2140	-.2966	-.4387	-.1887	-.0832
90.000		.5517	.5855	.4472	.2032	-.2711	-.1922	-.0202	.1692	.3428	.5225	-.3315	-.5713	-.1952	-.0659
120.000		.5707	.5944	.4653	.2244	-.2688	-.2818	-.1025	.0724	.2012	.2746	-.1646	-.1914	-.2213	-.1509
135.000			.5630	.4916	.2413	-.2317	-.4862	-.1547	.0094	.1496	.2344	-.0005	-.1207	-.3347	-.2232
147.000		.5587	.5575	.5113	.2670	-.2068	-.5102	-.1891	-.0316	.1158	.2344	.0692	-.0612	-.4772	-.2129
162.000			.5892	.5456	.2966	-.1812	-.4851	-.2169	-.0707	.0816	.2454	.1401	-.0108	-.7852	-.2774
180.000	1.1610	.5812	.6340	.5939	.3400	-.1380	-.4476	-.2583	-.1005	.0543	.2170	.2288	.1763	-.5202	-.3908
198.000			.7236	.6526	.3027	-.1188	-.4244	-.2452	-.1140	.0361	.2318	.2098	.2075	-.7226	-.3568
213.000		.6720	.6796	.6364	.0000	-.4138	-.6006	-.1287	-.1930	.0135	.2556	.1591	.1559	-.2909	-.0254
225.000			.7923	.7275	.4702	-.0477	-.2868	-.1721	-.0709	.0839	.2886	-.0307	.0304	-.0862	-.0682
240.000		.7445	.8649	.7635	.5055	.0354	-.2007	-.1357	.0076	.1572	.3563	-.2541	-.0420	-.0472	-.0682
270.000		.7568	.9024	.7882	.5574	.0599	-.1477	-.0339	.1298	.3040	.5720	-.5558	-.3923	-.1976	-.0850
300.000		.7321	.8665	.7546	.5247	.0380	-.2335	-.1721	-.0371	.1074	.3082	-.3502	-.2410	-.1716	-.0724
330.000		.6724	.7472	.6780	.4475	-.0507	-.3745	-.3647	-.1726	-.0108	.1814	.0000		-.1325	-.0650
X/LT	.5520	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0513	-.0383	-.0274	-.0529	-.2924	-.3299									
30.000	-.0368	-.0219	-.0120	-.0205	-.2769	-.3442									
60.000	-.0375	-.0169	.0029	.0072	-.1236	.0000									
90.000	-.0959	-.0678	.0306	.0604	.3318	-.3356									
120.000	-.0940	-.0374	.0463	.0400	-.0630	-.3269									
135.000	-.1226	-.0489	.0644	.1765	.0523										
147.000	-.1154	-.0478	.0705	.1561	-.0300	-.3258									
162.000	-.1707	-.0901	.0267	.1029	-.1150										
180.000	-.2352	-.1167	.0240	.1140	.0927	-.3891									
198.000	-.4564	-.2864	.1410	.1389	.3650										
213.000	-.0348	-.0162	.1778	.2116	.1633	-.3567									
225.000	-.0341	.0292	.1375	.2811	.2513										
240.000	-.0356	.0257	.1252	.1713	.1641	-.3431									
270.000	-.0223	.0095	.0622	.0782	.4368	-.3322									
300.000	-.0224	-.0025	.0251	.0437	-.1135	-.3145									
330.000	-.0432	-.0393	-.0208	-.0278	-.2526	-.3239									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 (ABI LVAP1ELHL UNSEALD) EXTERNAL TANK

(RETT07)

ALPHAT(6) = 4.252 BETAT (2) = -4.064

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.1639	.5801	.8683	.7185	.4868	-.0128	-.3692	-.4057	-.1258	.0272	.2455	-.0929	-.1651	-.0761	-.0235
30.000		.6739	1.0390	.7641	.5362	.0362	-.3019	-.2687	-.0874	.0709	.2846	-.1789	-.2170	-.0592	-.0094
60.000		.7161	.9344	.7614	.5302	.0316	-.2260	-.1385	.0334	.1947	.3825	-.2674	-.1947	-.0673	-.0109
90.000		.6973	.7957	.7127	.4784	-.0174	-.1967	-.0597	.1308	.2986	.5454	-.4026	-.4461	-.2153	-.0715
120.000		.6370	.6359	.6303	.3988	-.1063	-.2660	-.2109	-.0494	.0769	.2388	-.4011	-.1512	-.1570	-.0612
135.000			.6370	.5901	.3520	-.1351	-.3510	-.2878	-.0947	.0400	.1893	-.1447	-.0378	-.1497	-.0765
147.000		.6100	.6074	.5629	.3261	-.1640	-.3981	-.3518	-.1054	.0329	.1923	.0213	.1102	-.1904	-.0490
162.000			.5855	.5311	.2877	-.2020	-.4850	-.3218	-.1012	.0396	.1923	.1533	.1881	-.0182	-.1448
180.000	1.1639	.6024	.6043	.5016	.2489	-.2366	-.5803	-.2040	-.0813	.0521	.1915	.2246	.2073	-.5340	-.2104
198.000			.6181	.4786	.1526	-.3221	-.4754	-.1971	-.0636	.0457	.1266	.1799	.1153	-.6913	-.1947
213.000		.5827	.6338	.4602	.0000	-.6492	-.6400	-.1917	-.0383	.0208	.1994	.1141	-.0032	-.2659	-.1936
225.000			.6211	.4727	.1571	-.3624	-.4260	-.1779	-.0308	.0761	.1570	-.0180	-.1171	-.0965	-.1585
240.000		.5482	.6315	.4910	.2013	-.2636	-.3227	-.1231	.0122	.1247	.2189	-.2713	-.2218	-.2119	-.1291
270.000		.5043	.6529	.5119	.2626	-.2271	-.3433	-.0399	.1394	.3122	.5153	-.5620	-.4761	-.2226	-.0998
300.000		.4816	.9900	.5844	.3254	-.1560	-.4708	-.1380	.0351	.1947	.3093	-.1581	-.2356	-.0746	-.0288
330.000		.4824	.9109	.6440	.4055	-.0903	-.4440	-.3851	-.0944	.0680	.2335	.0000		-.0738	-.0296
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0148	-.0045	.0072	.0033	-.2075	-.3065									
30.000	.0004	.0126	.0213	.0264	-.2011	-.3110									
60.000	-.0026	.0096	.0382	.0706	-.0700	.0000									
90.000	-.0517	-.0105	.0766	.1013	.3913	-.2865									
120.000	-.0376	.0183	.1425	.1851	.1037	-.2956									
135.000	-.0353	.0252	.1606	.3442	.2616										
147.000	.0073	.0597	.1920	.3104	.2711	-.3117									
162.000	-.0612	.0095	.1601	.2770	.1753										
180.000	-.0874	-.0001	.1325	.2278	.0808	-.2941									
198.000	-.1433	-.0097	.1379	.1033	-.0195										
213.000	-.1536	-.0577	.1102	.0944	-.0964	-.3129									
225.000	-.0863	-.0074	.1021	.1516	-.0413										
240.000	-.0959	-.0120	.0956	.0909	-.0553	-.2956									
270.000	-.0863	-.0377	.0633	.0940	.3536	-.3114									
300.000	-.0231	-.0120	.0195	.0337	-.0869	-.3005									
330.000	-.0220	-.0174	.0057	.0043	-.1933	-.3309									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 1AB1 LVAP(ELHL UNSEALED) EXTERNAL TANK

(RETT07)

ALPHAT(7) * 6.423 BETAT (1) = -4.058

SECTION (1)EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3804	.4445	.4987
PHI															
.000	1.1612	.6144	.9426	.7691	.5443	.0518	-.3171	-.3561	-.1171	.0442	.2798	-.0591	-.1251	-.0847	-.0085
30.000		.7132	1.0817	.8062	.5851	.0868	-.2503	-.2393	-.0684	.0934	.3218	-.1342	-.1827	-.0418	.0102
60.000		.6997	1.0590	.7779	.5523	.0599	-.2044	-.1294	.0509	.2178	.4149	-.2133	-.1516	-.0429	.0219
90.000		.6351	.9349	.6914	.4659	-.0260	-.2117	-.0724	.1107	.2727	.5114	-.4188	-.3515	-.1865	-.0298
120.000		.5579	.7620	.5793	.3540	-.1425	-.3304	-.2263	-.0957	.0239	.1796	-.4576	-.1985	-.1915	-.0389
135.000			.6797	.5335	.2992	-.1812	-.4269	-.3205	-.1297	-.0006	.1402	-.1618	.0214	-.1889	-.0694
147.000		.5237	.6148	.5039	.2657	-.2120	-.3794	-.3943	-.1247	.0070	.1556	.0175	.1010	-.2026	-.0355
162.000			.5380	.4729	.2253	-.2473	-.5027	-.3763	-.1082	.0235	.1672	.1512	.1908	-.8056	-.1253
180.000	1.1612	.5694	.5395	.4492	.1899	-.2757	-.5953	-.2022	-.0799	.0438	.1642	.2169	.2179	-.5556	-.1805
198.000			.6042	.4229	.0901	-.3619	-.5004	-.2003	-.0676	.0366	.1256	.1804	.1212	-.7122	-.1360
213.000		.5483	.6340	.4258	.0000	-.6857	-.6283	-.1999	-.0457	.0216	.1563	.1062	.0106	-.2592	-.1684
225.000			.6245	.4354	.1229	-.3767	-.4035	-.1846	-.0423	.0569	.1387	-.0217	-.1030	-.3009	-.1455
240.000		.4906	.6042	.4514	.1686	-.2746	-.3446	-.1351	-.0130	.0878	.1807	-.3151	-.2445	-.2321	-.1021
270.000		.4580	.7768	.4903	.2459	-.2362	-.2852	-.0588	.1223	.2881	.4858	-.5449	-.3944	-.2484	-.1044
300.000		.4706	.9398	.5702	.3376	-.1410	-.4832	-.1320	.0366	.2118	.3504	-.1135	-.1764	-.0769	-.0153
330.000		.5333	.8954	.6776	.4495	-.0442	-.4058	-.4001	-.0949	.0749	.2607	.0000		-.0708	-.0251
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0027	.0046	.0210	.0171	-.1778	-.3069									
30.000	.0171	.0232	.0417	.0479	-.1673	-.3181									
60.000	.0212	.0331	.0609	.0848	-.0561	.0000									
90.000	-.0258	.0084	.0995	.1151	.3511	-.2795									
120.000	-.0247	.0225	.1424	.1900	.0607	-.2919									
135.000	-.0167	.0290	.1608	.3256	.2417										
147.000	.0193	.0638	.1958	.2987	.2533	-.3076									
162.000	-.0387	.0206	.1710	.2753	.1582										
180.000	-.0706	.0114	.1430	.2327	.0785	-.3046									
198.000	-.1284	.0076	.1453	.1155	-.0159										
213.000	-.1333	-.0391	.1195	.1117	-.0734	-.2960									
225.000	-.0714	.0053	.1169	.1734	-.0219										
240.000	-.0589	.0000	.1065	.1092	-.0332	-.3001									
270.000	-.1033	-.0720	.0520	.1085	.4515	-.3121									
300.000	-.0114	-.0019	.0321	.0551	-.0539	-.3174									
330.000	-.0201	-.0180	.0075	.0164	-.1643	-.3425									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL UNSEALED) EXTERNAL TANK

(RETT07)

ALPHAT (7) = 6.410 BETAT (5) = 4.326

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4446	.4987
PHI															
.000	1.1605	.5804	.9373	.7568	.5302	.0386	-.3245	-.3582	-.1272	.0359	.2755	-.0589	-.1139	-.0766	-.0185
30.000		.5314	.9130	.6588	.4293	-.0533	-.4125	-.4316	-.0921	.0699	.2793	-.1033	-.2928	-.0843	-.0327
60.000		.4734	.9393	.5535	.3199	-.1635	-.4193	-.1415	.0393	.2131	.3509	-.1700	-.2616	-.0831	-.0174
90.000		.4696	.7560	.4775	.2354	-.2474	-.7109	-.0516	.1325	.2996	.4935	-.3322	-.4139	-.2443	-.0952
120.000		.4696	.5577	.4383	.1887	-.3019	-.3682	-.1331	-.0004	.1020	.1869	-.3364	-.2304	-.2455	-.1028
135.000			.5859	.4268	.1713	-.3012	-.4420	-.1577	-.0251	.0815	.1481	-.0572	-.0646	-.2911	-.1434
147.000		.5348	.5600	.4237	.1740	-.3008	-.5813	-.1642	-.0401	.0728	.1560	.0537	.0025	-.4040	-.1376
162.000			.5834	.4241	.1785	-.3134	-.6432	-.1781	-.0593	.0604	.1556	.1461	.0515	-.7732	-.1899
180.000	1.1605	.5503	.5669	.4544	.1824	-.3218	-.5678	-.2255	-.0925	.0332	.1617	.2074	.2052	-.5859	-.2403
198.000			.5653	.5021	.0945	-.3771	-.5336	-.2676	-.1371	-.0049	.1438	.1785	.1684	-.7026	-.2037
213.000		.5422	.5242	.4537	.0000	-.6814	-.7247	-.2306	-.2238	-.0574	.1310	.1007	.0883	-.2601	-.0223
225.000			.6172	.5528	.2889	-.2163	-.2828	-.3620	-.1436	-.0106	.1374	-.1057	-.0486	-.1862	-.0708
240.000		.5704	.8422	.5999	.3420	-.1203	-.4105	-.2460	-.1020	.0249	.1792	-.4300	-.1920	-.1936	-.0491
270.000		.6376	.9556	.7058	.4712	-.0282	-.2295	-.0794	.1001	.2604	.4993	-.5882	-.3146	-.1913	-.0365
300.000		.6924	1.0736	.7827	.5564	.0674	-.2222	-.1342	.0408	.2102	.4074	-.1648	-.0957	-.0571	.0143
330.000		.7032	1.0890	.8039	.5831	.0816	-.2656	-.2440	-.0892	.0844	.3106	.0000		-.0494	-.0087
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0076	-.0012	.0155	.0128	-.1887	-.3004									
30.000	-.0205	-.0072	.0013	.0110	-.1902	-.3256									
60.000	-.0095	.0046	.0228	.0483	-.0684	.0000									
90.000	-.0737	-.0474	.0547	.1029	.4086	-.2993									
120.000	-.0585	.0040	.0992	.1029	-.0492	-.2944									
135.000	-.0604	.0032	.1046	.1863	.0598										
147.000	-.0555	.0059	.1111	.1786	-.0127	-.2801									
162.000	-.1117	-.0263	.0885	.1502	-.1228										
180.000	-.1361	-.0451	.0981	.1644	.0571	-.3564									
198.000	-.3748	-.1850	.1799	.1583	.2046										
213.000	-.0072	.0028	.1984	.2206	.0831	-.3368									
225.000	-.0254	.0251	.1477	.2715	.1605										
240.000	-.0266	.0174	.1323	.1716	.0326	-.2985									
270.000	-.0315	-.0052	.0981	.1192	.3672	-.3075									
300.000	.0161	.0251	.0593	.0796	-.0346	-.3011									
330.000	.0138	.0178	.0355	.0412	-.1531	-.3199									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL UNSEALD) EXTERNAL TANK

(RETT08)

ALPHAT(1) = -.139 BETAT (4) = 4.392

SECTION (1)EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.2955	.7038	.8259	.7664	.5404	.0811	-.2603	-.3337	-.4145	-.0043	.0985	.1040	-.0522	-.2391	-.1465
30.000		.7358	.7865	.7115	.4868	.0354	-.2975	-.3669	-.4430	.0176	.0528	.0692	-.2062	-.2394	-.1185
60.000		.7299	.8035	.6829	.4528	.0018	-.3125	-.3836	-.1151	.0091	.2068	-.0170	-.3120	-.1879	-.0719
90.000		.7528	.8127	.6722	.4423	-.0082	-.3266	-.3892	-.0041	.3647	.7243	-.0451	-.4375	-.2528	-.2158
120.000		.7637	.7799	.6857	.4579	-.0080	-.3073	-.3745	-.0275	.0569	.2744	.0895	.0258	-.0970	-.1314
135.000			.7601	.7095	.4633	.0181	-.2927	-.3727	-.0262	.0340	.0873	.2710	.1091	-.1390	-.1288
147.000		.7700	.7385	.7239	.4876	.0304	-.2876	-.3755	-.0051	.0614	.1169	.2277	.1665	-.2113	-.0991
162.000			.7469	.7480	.5085	.0402	-.2939	-.3616	-.0166	.0649	.0982	.2529	.2288	-.7286	-.1636
180.000	1.2955	.7794	.7752	.7790	.5318	.0503	-.2588	-.3182	-.1316	.0378	.1189	.3327	.3583	-.1350	-.1899
198.000			.8351	.8208	.4742	.0096	-.2122	-.3322	-.3615	.0602	.1930	.3343	.3312	-.5348	-.1821
213.000		.8226	.8368	.8190	.0000	-.2093	-.4697	-.2027	-.3475	.0507	.2259	.3220	.2319	-.2759	-.0088
225.000			.8916	.8608	.5918	.0812	-.1555	-.3312	-.3152	.1127	.2912	.1645	.0905	-.0139	-.0124
240.000		.8742	.8850	.8793	.6243	.1651	-.2307	-.2390	-.2244	.2422	.4551	.0151	.0132	-.0020	-.0013
270.000		.8838	.8660	.8900	.6614	.1789	-.1662	-.2626	.1221	.4449	.7148	-.2042	-.3179	-.2163	-.1712
300.000		.8604	.8500	.8677	.6406	.1761	-.1849	-.2611	-.2804	.1981	.4250	-.0303	-.3476	-.1538	-.0436
330.000		.8167	.8262	.8189	.5946	.1264	-.2277	-.2956	-.3866	.0220	.1428	.0000		-.1518	-.0768
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0027	-.0044	-.0315	.0988	-.0251	-.3190									
30.000	-.0017	-.0059	-.0191	.1071	-.0315	-.3197									
60.000	-.0165	-.0240	.0038	.1351	.0686	.0000									
90.000	-.1221	-.0885	.0565	.1386	.5875	-.3033									
120.000	-.1442	-.2082	.1001	.1694	.0871	-.3055									
135.000	-.1402	-.2057	.0831	.2499	.1508										
147.000	-.1196	-.1953	.0791	.2453	.0850	-.3172									
162.000	-.2113	-.2670	.0563	.2138	.0275										
180.000	-.2196	-.2280	.0447	.2397	.1665	-.3063									
198.000	-.4650	-.3969	.0990	.2316	.3721										
213.000	-.0165	-.1119	.0782	.3096	.3233	-.3011									
225.000	-.0059	-.0604	.0660	.3497	.3861										
240.000	-.0276	-.0982	.0795	.2712	.3360	-.3013									
270.000	-.1040	-.0601	.0383	.1593	.6027	-.3068									
300.000	-.0188	-.0269	-.0155	.1548	.0945	-.3180									
330.000	-.0213	-.0145	-.0353	.1058	-.0180	-.3309									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL UNSEALED) EXTERNAL TANK

(RETT08)

ALPHAT (2) = 2.099 BETAT (3) = 2.252

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP														
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987	
PHI																
.000	1.2968	.7229	.9568	.8234	.5967	.1327	-.2218	-.2940	-.3842	-.1638	.1389	.1498	-.0129	-.2212	-.1148	
30.000		.7171	1.0976	.7864	.5624	.1017	-.2492	-.3239	-.4018	.0443	.1021	.1225	-.1980	-.1906	-.1047	
60.000		.7504	.8576	.7537	.5228	.0620	-.2713	-.3475	-.2004	.0552	.2784	.0122	-.2816	-.1563	-.0683	
90.000		.7548	.8767	.7235	.4936	.0324	-.3026	-.3728	.0074	.3222	.7326	-.0534	-.4060	-.1721	-.0511	
120.000		.7695	.9192	.7052	.4791	.0062	-.3168	-.3829	-.0510	.0682	.2911	-.0008	-.0430	-.1254	-.0253	
135.000			.8996	.7096	.4715	.0213	-.3079	-.3571	-.1313	.0465	.0976	.1973	.1077	-.1401	-.0625	
147.000		.7517	.8619	.7161	.4799	.0248	-.2834	-.3622	-.0955	.0443	.0996	.2249	.1875	-.1769	-.0408	
162.000			.8077	.7220	.4814	.0221	-.2907	-.3797	-.0952	.0640	.1197	.2468	.2227	-.6186	-.0738	
180.000	1.2968	.7883	.8052	.7326	.4854	.0210	-.3062	-.3390	-.0248	.0383	.0733	.2573	.3617	-.2013	-.0564	
198.000			.8133	.7598	.4033	-.0426	-.2466	-.3776	-.1960	.0361	.1252	.2580	.2888	-.5381	-.0986	
213.000		.8153	.8153	.7514	.0000	-.2776	-.5030	-.2463	-.3383	.0408	.1468	.2739	.1996	-.2645	-.0180	
225.000			.8183	.7837	.5058	.0263	-.2117	-.3738	-.2984	.0523	.1979	.1221	.0550	-.0910	-.0195	
240.000		.8324	.8234	.8043	.5439	.1090	-.2780	-.2941	-.2427	.1466	.3949	-.0432	-.0255	-.0930	.0097	
270.000		.8390	.8257	.8369	.5044	.1279	-.1884	-.2819	.0580	.4291	.7028	-.2490	-.2997	-.1638	-.0198	
300.000		.8092	.9086	.8496	.6237	.1591	-.2152	-.2926	-.3236	.1794	.4172	.0414	-.3182	-.1085	-.0405	
330.000		.7509	1.1546	.8424	.6218	.1490	-.2096	-.2857	-.3820	.0405	.1413	.0000		-.1431	-.0741	
X/LT	.5528	.6340	.7423	.8506	.9264	.9838										
PHI																
.000	.0132	.0167	-.0254	.1114	-.0013	-.3082										
30.000	.0110	.0094	-.0292	.1166	-.0191	-.3039										
60.000	-.0296	-.0220	-.0198	.1400	.0833	.0000										
90.000	-.0379	-.0609	.0396	.1835	.4843	-.2877										
120.000	-.0874	-.1333	.1005	.1955	.1203	-.2875										
135.000	-.0887	-.1279	.1055	.2560	.1726											
147.000	-.0379	-.1104	.1081	.2453	.1120	-.2870										
162.000	-.1224	-.1574	.0892	.2382	.0124											
180.000	-.1270	-.1541	.0869	.2591	.1037	-.2800										
198.000	-.3566	-.3041	.1175	.2578	.1871											
213.000	-.0087	-.0934	.1002	.2899	.2315	-.3189										
225.000	-.0117	-.0551	.0735	.3153	.3017											
240.000	-.0059	-.0642	.0892	.2379	.2398	-.2892										
270.000	-.0125	-.0279	.0335	.1785	.4522	-.2931										
300.000	-.0157	-.0021	-.0085	.1500	.0820	-.2956										
330.000	.0056	.0073	-.0225	.1220	.0309	-.3016										

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 1A81 LVAP(ELHL UNSEALED) EXTERNAL TANK

(RETT08)

ALPHAT(3) = 4.366 BETAT (3) = 4.414

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2871	.3362	.3904	.4445	.4987
PHI															
.000	1.2971	.7112	1.0040	.8616	.6455	.1808	-.1813	-.2569	-.3491	-.1165	.1919	.1561	.0025	-.1959	-.1138
30.000		.6444	1.0779	.7847	.5669	.1105	-.2420	-.3148	-.3963	.0650	.1150	.1375	-.1414	-.1903	-.1221
60.000		.6325	1.1257	.7090	.4884	.0372	-.2897	-.3619	-.4014	.0461	.1568	.1174	-.2568	-.1657	-.0723
90.000		.6591	.8108	.6525	.4323	-.0150	-.3363	-.4016	-.0306	.3232	.7224	-.0778	-.3564	-.1342	-.0468
120.000		.7043	.7541	.6374	.4089	-.0479	-.3596	-.4224	-.0651	-.0064	.2140	-.0387	-.0791	-.1880	-.0496
135.000			.7478	.6379	.3981	-.0361	-.3520	-.3988	-.0775	.0043	.0323	.2024	.1184	-.2197	-.0884
147.000		.7178	.7366	.6409	.4059	-.0301	-.3254	-.4041	-.0669	.0038	.0626	.1815	.1778	-.2516	-.0886
162.000			.7677	.6483	.4117	-.0339	-.3416	-.4161	-.0431	.0026	.0661	.2128	.2022	-.5696	-.1410
180.000	1.2971	.7485	.7739	.6746	.4202	-.0334	-.3308	-.3818	-.0580	-.0014	.0653	.2268	.3265	-.2255	-.1614
198.000			.7601	.7169	.3422	-.0946	-.2946	-.3889	-.3329	.0026	.1001	.2405	.2828	-.5123	-.1153
213.000		.7739	.7520	.6873	.0000	-.3588	-.5418	-.2675	-.3702	-.0248	.1413	.2296	.2174	-.2580	-.0416
225.000			.7951	.7671	.5108	.0563	-.2045	-.3750	-.3248	.0307	.1998	.0246	.0774	-.1065	-.0185
240.000		.8102	.8849	.8054	.5549	.1298	-.2594	-.3202	-.2236	.1437	.3624	-.1396	-.0457	-.1403	.0181
270.000		.8468	.9484	.8765	.6496	.1755	-.2022	-.2365	.1157	.4197	.6826	-.2156	-.2509	-.1743	-.0164
300.000		.8588	1.0747	.9153	.6963	.2320	-.1521	-.2305	-.2634	.2852	.5159	.0866	-.3271	-.0844	.0050
330.000		.8169	1.1736	.9097	.6953	.2267	-.1473	-.2256	-.3280	.0931	.2522	.0000		-.1073	-.0597
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0102	.0176	-.0089	.1016	.0268	-.2972									
30.000	-.0065	.0113	-.0072	.1164	.0140	-.3099									
60.000	-.0037	-.0007	.0078	.1319	.0938	.0000									
90.000	-.0486	-.0608	.0751	.1816	.4226	-.2898									
120.000	-.0845	-.1145	.1156	.1994	.0778	-.2883									
135.000	-.0863	-.1143	.1161	.2798	.1744										
147.000	-.0574	-.1125	.1121	.2755	.1129	-.2754									
162.000	-.1259	-.1801	.0879	.2413	.0284										
180.000	-.1480	-.1837	.0787	.2588	.1773	-.2719									
198.000	-.3781	-.3501	.1364	.2699	.3713										
213.000	.0394	-.0438	.1069	.3387	.3237	-.2726									
225.000	.0577	.0281	.1102	.3663	.3713										
240.000	.0389	.0058	.1051	.3030	.2747	-.2838									
270.000	.0183	-.0001	.0622	.2255	.4525	-.2882									
300.000	.0106	.0075	.0178	.1650	.1315	-.2988									
330.000	.0030	.0237	.0087	.1222	.0492	-.2986									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL UNSEALED) EXTERNAL TANK

(RETT09)

ALPHAT(1) = -6.723 BETAT(3) = .149

SECTION (1)EXTERNAL TANK	DEPENDENT VARIABLE CP														
X/LT	.0060	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.2825	.7422	.7420	.6077	.3900	-.0452	-.3499	-.4209	-.2972	-.0386	.0454	.0669	-.0884	-.2599	-.1002
30.000		.7256	.7197	.5327	.4061	-.0365	-.3475	-.4202	-.4669	-.0503	.0153	.0275	-.3085	-.2504	-.0989
60.000		.7077	.6997	.6701	.4453	-.0001	-.3198	-.3989	-.1290	.0367	.2632	-.2089	-.5392	-.2281	-.1402
90.000		.7273	.7833	.7415	.5183	.0664	-.2770	-.3540	.1024	.3844	.6158	-.2616	-.6520	-.4720	-.5479
120.000		.8064	.8933	.8240	.6115	.1359	-.2092	-.2909	.1359	.2726	.4863	.2326	.1683	.0020	-.1426
135.000			.9420	.8699	.6465	.1877	-.1792	-.2660	.0747	.2482	.4116	.3274	.2605	-.0220	-.1344
147.000		.8646	.9731	.8965	.6776	.2138	-.1599	-.2549	-.0831	.2369	.4139	.3634	.3323	-.0585	-.0810
162.000			1.0062	.9180	.6991	.2295	-.1559	-.2425	-.2936	.2608	.4235	.4569	.3742	-.6240	-.1163
180.000	1.2825	.9014	1.0473	.9312	.7075	.2345	-.1687	-.1817	-.3341	.2605	.4360	.5145	.4475	-.0352	-.1039
198.000			1.0786	.9207	.6429	.1812	-.0861	-.2884	-.0969	.2140	.3804	.4922	.4070	-.6037	-.1966
213.000		.8541	1.1126	.8069	.0000	-.1315	-.4510	-.1162	-.1503	.2037	.3960	.4318	.3056	-.2997	-.1271
225.000			1.0672	.8943	.5807	.1120	-.1960	-.2563	-.0177	.2661	.4244	.3508	.1988	-.0730	-.1099
240.000		.7851	1.0291	.8380	.5811	.1394	-.1896	-.3019	.1273	.3063	.4419	.2519	.1524	-.0222	-.1220
270.000		.7204	.8655	.7505	.5237	.0671	-.2974	-.3502	.0934	.3601	.5858	-.3279	-.6591	-.5899	-.4589
300.000		.7007	.7292	.6785	.4473	.0073	-.3301	-.3951	-.1216	.0181	.2326	-.2012	-.3887	-.2498	-.1351
330.000		.7156	.6956	.6403	.4090	-.0426	-.3584	-.4143	-.4716	-.0455	.0166	.0000		-.2384	-.0996
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0118	-.0299	-.0591	.0833	-.0702	-.3492									
30.000	-.0289	-.0446	-.0608	.0845	-.0709	-.3531									
60.000	-.0882	-.0771	-.0500	.0971	.0145	.0000									
90.000	-.1948	-.1435	-.0011	.0923	.5479	-.3402									
120.000	-.1706	-.2413	.0485	.0713	.1762	-.3409									
135.000	-.1857	-.2370	.0593	.2982	.1900										
147.000	-.1358	-.1992	.0751	.1966	.1144	-.3498									
162.000	-.2145	-.1961	.0328	.1678	.0944										
180.000	-.1854	-.1900	.0145	.1617	.0596	-.3372									
198.000	-.4391	-.3345	.0287	.1242	-.0224										
213.000	-.1220	-.2042	.0416	.1137	-.0157	-.3478									
225.000	-.1287	-.1826	.0165	.1925	.0818										
240.000	-.1434	-.2086	.0199	.0736	.1320	-.3558									
270.000	-.1793	-.1411	-.0109	.0776	.5189	-.3453									
300.000	-.0939	-.0908	-.0550	.0802	.0297	-.3595									
330.000	-.0329	-.0557	-.0624	.0749	-.0726	-.3642									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL UNSEALD) EXTERNAL TANK

(RETT09)

ALPHAT(2) = -4.550 BETAT (2) = -4.095

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.2841	.7137	.7188	.6687	.4389	-.0111	-.3261	-.3934	-.4745	-.0485	.0200	.0686	-.1105	-.2656	-.1133
30.000		.7398	.7026	.7145	.4924	.0370	-.2941	-.3675	-.4454	-.0309	.0824	-.0328	-.3901	-.2049	-.0956
60.000		.7831	.7641	.7866	.5643	.1032	-.2393	-.3207	-.1328	.1273	.3271	-.1732	-.4578	-.2085	-.0838
90.000		.8419	.8713	.8620	.6415	.1706	-.1925	-.2716	.1833	.4384	.6845	-.2354	-.4097	-.4487	-.5248
120.000		.8832	.9924	.9082	.6926	.2101	-.1421	-.2248	.0033	.3517	.5543	.1348	.1764	.0843	-.0584
135.000			.9954	.9196	.7000	.2291	-.1303	-.2141	-.2996	.2580	.4275	.2492	.2675	.0727	-.0671
147.000		.8950	.9893	.9163	.7003	.2288	-.1269	-.2161	-.3218	.2200	.3730	.3287	.3389	.0423	-.0567
162.000			.9501	.9321	.6836	.2081	-.1401	-.2422	-.3516	.1975	.3483	.4218	.3944	-.5364	-.1153
180.000	1.2841	.8669	.9021	.8745	.6505	.1783	-.1989	-.2709	-.3428	.1707	.3222	.4803	.4150	-.0622	-.0935
198.000			.8846	.8334	.5602	.1052	-.1397	-.3387	-.2050	.1071	.2452	.4583	.3513	-.6649	-.1951
213.000		.8081	.9597	.6667	.0000	-.2907	-.5377	-.2131	-.2287	.0724	.2558	.3609	.2157	-.3081	-.1760
225.000			.8967	.7755	.4463	-.0435	-.2703	-.3428	-.0432	.1458	.2773	.3118	.1398	-.1602	-.1676
240.000		.7408	.7334	.7354	.6650	.0143	-.2689	-.3715	.0396	.1435	.2760	.2275	.0987	-.0691	-.1894
270.000		.7293	.7115	.6785	.4429	-.0124	-.3271	-.4076	.0065	.2243	.5742	-.3095	-.5868	-.6384	-.2500
300.000		.7323	.7519	.6401	.4125	-.0245	-.3264	-.3958	-.1183	-.0197	.1343	-.0869	-.3108	-.2205	-.0695
330.000		.7300	.7526	.6401	.4102	-.0328	-.3507	-.4140	-.4622	-.0255	.0164	.0000		-.2634	-.0841
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0076	-.0229	-.0334	.0681	-.1009	-.3577									
30.000	-.0370	-.0437	-.0499	.0695	-.0833	-.3568									
60.000	-.0544	-.0523	-.0354	.1178	.0760	.0000									
90.000	-.2075	-.1095	.0195	.1093	.6160	-.3624									
120.000	-.1002	-.1429	.0903	.1921	.3402	-.3528									
135.000	-.1256	-.1695	.1001	.4263	.4164										
147.000	-.0918	-.1409	.1220	.3466	.4088	-.3402									
162.000	-.2179	-.2484	.0874	.3107	.3617										
180.000	-.1563	-.1099	.0444	.2459	.3015	-.3329									
198.000	-.3710	-.1944	.0144	.1212	.2031										
213.000	-.2607	-.2635	-.0167	.0786	-.1409	-.3597									
225.000	-.1995	-.2113	-.0042	.1134	.0313										
240.000	-.1744	-.2099	.0103	.0912	.0246	-.3515									
270.000	-.1453	-.1125	.0086	.1041	.3710	-.3346									
300.000	-.0517	-.0613	-.0157	.0968	.0044	-.3362									
330.000	-.0092	-.0283	-.0282	.0750	-.0302	-.3508									

ORIGINAL PAGE IS
 OF POOR QUALITY

ARC11-019 1A81 LVAP(ELHL UNSEALD) EXTERNAL TANK

(RETT09)

ALPHAT(3) = -2.355 BETAT (1) = -6.217

SECTION (1)EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.2833	.6766	.7338	.7111	.4838	.0332	-.2953	-.3709	-.4512	-.0123	.0594	.0514	-.1162	-.2738	-.1453
30.000		.7894	.7562	.7733	.5617	.1051	-.2407	-.3253	-.4087	.0106	.1687	-.0552	-.4035	-.1678	-.0962
60.000		.8453	.8632	.8569	.6415	.1787	-.1770	-.2685	-.0312	.2055	.4064	-.1362	-.4198	-.1819	-.0719
90.000		.8877	.9764	.9090	.6955	.2305	-.1467	-.2320	.2452	.4563	.7114	-.1826	-.4397	-.3341	-.4880
120.000		.9312	1.0110	.9155	.7063	.2308	-.1393	-.2263	.0590	.3284	.5306	.0410	.1086	.1296	-.0096
135.000			.9876	.9023	.6832	.2251	-.1585	-.2422	-.2075	.2335	.4164	.1543	.2355	.1195	-.0123
147.000		.8765	.9356	.8833	.6641	.2051	-.1815	-.2256	-.3167	.1843	.3438	.2427	.3133	.0912	-.0136
162.000			.8786	.8484	.6301	.1706	-.1612	-.2469	-.3690	.1467	.2915	.3588	.3796	-.4944	-.1262
180.000	1.2833	.8195	.8330	.8048	.5816	.1359	-.2142	-.3264	-.3656	.1198	.2465	.4343	.3752	-.0853	-.0883
198.000			.8242	.7597	.4834	.0874	-.1980	-.3619	-.0939	.0633	.1793	.4067	.3075	-.6877	-.1998
213.000		.7657	.9073	.5972	.0000	-.3470	-.5712	-.2574	-.1665	.0424	.1896	.2961	.1419	-.3106	-.2060
225.000			.8313	.7147	.3643	-.0955	-.3079	-.3791	-.0570	.1142	.2028	.2509	.0867	-.2141	-.1956
240.000		.7318	.7290	.6841	.3996	-.0271	-.3092	-.3930	.0089	.1088	.1819	.1842	.0346	-.1103	-.1983
270.000		.7212	.7439	.6405	.4064	-.0392	-.3358	-.4174	-.0106	.2544	.6418	-.2377	-.3943	-.6308	-.2479
300.000		.7144	.7452	.6355	.4044	-.0318	-.3709	-.4130	-.1031	.0912	.1321	.0070	-.2687	-.2316	-.0793
330.000		.7086	.7202	.6590	.4308	-.0181	-.3422	-.4032	-.4640	-.0204	.0049	.0000		-.2767	-.1030
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0056	-.0360	-.0285	.0532	-.1041	-.3606									
30.000	-.0465	-.0507	-.0326	.0798	-.0711	-.3503									
60.000	-.0489	-.0540	.0024	.1659	.0968	.0000									
90.000	-.1473	-.0702	.0573	.1588	.5946	-.3387									
120.000	-.0700	-.0884	.1411	.2842	.3940	-.3460									
135.000	-.0798	-.1104	.1539	.4485	.4838										
147.000	-.0274	-.0688	.1690	.4086	.4855	-.3563									
162.000	-.2017	-.1814	.1177	.3670	.4295										
180.000	-.1775	-.1249	.0702	.2825	.2966	-.3390									
198.000	-.3286	-.1182	.0899	.1930	.2180										
213.000	-.3200	-.3022	.0049	.0943	-.1515	-.3553									
225.000	-.2077	-.1977	-.0039	.1415	.0367										
240.000	-.1686	-.1919	.0219	.1082	.0291	-.3410									
270.000	-.1105	-.0753	.0110	.1251	.3373	-.3255									
300.000	-.0373	-.0305	-.0206	.0988	.0749	-.3315									
330.000	-.0226	-.0184	-.0338	.0692	-.0665	-.3325									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAS1 LVAP(ELHL UNSEALED) EXTERNAL TANK

(RETT09)

ALPHAT (4) = -.149 BETAT (1) = -6.227

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4446	.4987
PHI															
.000	1.2842	.6747	.8147	.7570	.5349	.0777	-.2616	-.3380	-.4261	-.0081	.0956	.0702	-.1050	-.2457	-.1470
30.000		.8296	.8198	.8315	.6111	.1497	-.2060	-.2903	-.3726	.0374	.2029	-.0146	-.3740	-.1514	-.0788
60.000		.8802	.9161	.8929	.6762	.2050	-.1558	-.2480	-.0904	.2459	.4483	-.0759	-.3866	-.1541	-.0473
90.000		.9053	.9419	.9186	.7001	.2288	-.1490	-.2322	-.2090	.4512	.7161	-.1070	-.3879	-.2481	-.3075
120.000		.8822	.9354	.8906	.6769	.1996	-.1666	-.2521	-.0803	.2659	.4685	-.0340	.0433	.0666	.0156
135.000			.8968	.8559	.6454	.1819	-.1926	-.2791	-.3553	.1599	.3460	.0827	.1923	.0696	-.0083
147.000		.8419	.8446	.8395	.6199	.1598	-.2247	-.3042	-.3485	.0995	.2817	.1814	.2737	.0578	-.0288
162.000			.7975	.8025	.5789	.1233	-.2426	-.2835	-.3580	.0752	.2138	.3154	.3539	-.5283	-.1530
180.000	1.2842	.7859	.7748	.7600	.5319	.0904	-.2545	-.3648	-.4014	.0510	.1579	.3925	.3624	-.1224	-.1017
198.000			.7902	.7226	.4362	.0339	-.2437	-.3966	-.0938	.0284	.1241	.3385	.3106	-.6980	-.1900
213.000		.7551	.8491	.5900	.0000	-.3423	-.5810	-.2625	-.2103	.0075	.1394	.2547	.1274	-.3032	-.2098
225.000			.8089	.6907	.3416	-.0988	-.3265	-.4092	-.0693	.0746	.1552	.2052	.0443	-.1987	-.1940
240.000		.7344	.7512	.6539	.3853	-.0218	-.3390	-.3970	-.0181	.0503	.1526	.1197	-.0105	-.1242	-.1900
270.000		.7174	.7428	.6460	.4084	-.0281	-.3298	-.4078	-.0224	.2758	.6704	-.1895	-.3985	-.2383	-.2125
300.000		.6873	.7560	.6605	.4231	-.0141	-.3528	-.4169	-.1051	-.9174	.1132	.0562	-.2265	-.2081	-.0879
330.000		.6781	.8072	.6954	.4679	.0131	-.3177	-.3814	-.4675	.0086	.0380	.0000		-.2531	-.1307
X/LT	.5529	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0309	-.0279	-.0294	.0633	-.0759	-.3563									
30.000	-.0455	-.0332	-.0315	.0848	-.0510	-.3424									
60.000	-.0329	-.0480	.0071	.1690	.1001	.0000									
90.000	-.1324	-.0453	.0615	.1477	.5728	-.3394									
120.000	-.0426	-.0572	.1349	.3111	.4103	-.3447									
135.000	-.0433	-.0883	.1498	.4548	.4897										
147.000	-.0107	-.0436	.1630	.4229	.4864	-.3726									
162.000	-.1599	-.1714	.1375	.3826	.4236										
180.000	-.1395	-.0981	.0921	.2989	.2745	-.3404									
198.000	-.2963	-.1211	.1165	.2141	.2044										
213.000	-.2976	-.2851	.0239	.1263	-.1164	-.3437									
225.000	-.1897	-.1731	.0260	.1732	.0516										
240.000	-.1549	-.1728	.0507	.1410	.0503	-.3433									
270.000	-.1033	-.0758	.0345	.1426	.4186	-.3258									
300.000	-.0306	-.0244	-.0049	.1147	.0583	-.3324									
330.000	-.0195	-.0186	-.0171	.0839	-.0517	-.3334									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL UNSEALED) EXTERNAL TANK

(RETT09)

ALPHAT(4) = -.153 BETA1 (3) = .099

SECTION (1) EXTERNAL TANK	DEPENDENT VARIABLE CP														
X/LT	.0000	.0092	.0124	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.2864	.8229	.9866	.7702	.5472	.0845	-.2558	-.3338	-.4209	-.0129	.0885	.1156	-.0436	-.2225	-.1113
30.000		.8008	1.0222	.7704	.5452	.0876	-.2572	-.3382	-.4155	-.0194	.0795	.1070	-.2688	-.1966	-.0814
60.000		.7943	1.0351	.7720	.5455	.0859	-.2521	-.3369	-.2775	.0726	.3415	-.0537	-.3258	-.1770	-.0454
90.000		.7937	1.0429	.7747	.5482	.0835	-.2674	-.3409	.0383	.4130	.7206	-.0867	-.4189	-.2575	-.2162
120.000		.7797	1.0453	.7744	.5539	.0768	-.2725	-.3362	-.0699	.1295	.3803	.0379	.0135	-.0477	-.0679
135.000			1.0429	.7778	.5495	.0892	-.2556	-.3082	-.3426	.0932	.1737	.1996	.1147	-.0551	-.0703
147.000		.7729	1.0422	.7796	.5539	.0896	-.2255	-.3163	-.3637	.0823	.1495	.2611	.2098	-.0886	-.0474
162.000			1.0373	.7808	.5509	.0935	-.2417	-.3418	-.2897	.0922	.1545	.3011	.2918	-.5715	-.0622
180.000	1.2864	.7767	1.0357	.7819	.5448	.0781	-.2803	-.3133	-.0333	.0789	.1180	.3049	.3918	-.1654	-.0387
198.000			1.0414	.7845	.4607	.0084	-.2153	-.3761	-.0479	.0540	.1252	.3045	.3028	-.5495	-.0881
213.000		.7757	1.0482	.7747	.0000	-.2816	-.4988	-.2264	-.2517	.0666	.1988	.2801	.1737	-.2798	-.0464
225.000			1.0346	.7878	.4907	-.0020	-.2383	-.3642	-.1386	.0989	.1600	.2240	.0484	-.0589	-.0539
240.000		.7760	1.0282	.7844	.5206	.0818	-.2735	-.3171	-.0721	.1378	.3672	.0481	.0122	-.0534	-.0514
270.000		.7717	1.0285	.7807	.5512	.0835	-.2331	-.3354	.0380	.4104	.7009	-.2406	-.3492	-.2031	-.1685
300.000		.7717	1.0289	.7760	.5519	.0915	-.2750	-.3279	-.2577	.0979	.3042	-.0076	-.2734	-.1597	-.0571
330.000		.7819	1.0231	.7727	.5502	.0848	-.2672	-.3408	-.4337	.0238	.0958	.0000		-.1856	-.0788
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	.0225	.0114	-.0409	.1074	-.0475	-.3099									
30.000	.0205	.0101	-.0419	.1241	-.0102	-.3281									
60.000	-.0084	-.0181	-.0321	.1359	.0393	.0000									
90.000	-.1257	-.0835	.0237	.1247	.5891	-.3006									
120.000	-.1009	-.1542	.0846	.1953	.2146	-.2963									
135.000	-.0959	-.1539	.0883	.3470	.2565										
147.000	-.0557	-.1224	.1080	.2730	.1807	-.3271									
162.000	-.1288	-.1651	.0806	.2411	.1052										
180.000	-.1308	-.1434	.0671	.2286	.0423	-.3225									
198.000	-.3185	-.2628	.0745	.1990	-.0215										
213.000	-.0654	-.1512	.0759	.1990	.0387	-.3029									
225.000	-.0878	-.1309	.0514	.2569	.1567										
240.000	-.0852	-.1366	.0572	.1641	.1524	-.3086									
270.000	-.0942	-.0737	.0158	.1238	.5239	-.3102									
300.000	-.0114	-.0280	-.0317	.1261	.0473	-.3149									
330.000	.0171	-.0013	-.0402	.1152	.0161	-.3367									

ORIGINAL PAGE IS
 OF POOR QUALITY

DATE 21 JUL 75

IABIA - PRESSURE SOURCE DATA TABULATION

TABLE 111

ARC11-019 IAB1 LVAP(ELHL UNSEALD) EXTERNAL TANK

(RETT09)

ALPHAT (5) = 2.062 BETAT (2) = -2.011

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.2849	.7360	.9271	.8215	.5983	.1317	-.2208	-.2990	-.3897	-.0824	.1349	.1375	-.0327	-.2150	-.1107
30.000		.7560	1.1162	.8398	.6178	.1505	-.2057	-.2892	-.3744	.0390	.1362	.1027	-.2625	-.1464	-.0774
60.000		.8249	.8630	.8435	.6195	.1482	-.2020	-.2889	-.3527	.1575	.3904	-.0134	-.3023	-.1315	-.0367
90.000		.9419	.8046	.8252	.5983	.1311	-.2301	-.3079	-.0453	.4240	.7026	-.0944	-.3457	-.1820	-.0458
120.000		.8280	.7964	.7900	.5663	.0902	-.2568	-.3355	-.2584	.1315	.3910	-.0574	-.0181	-.0997	-.0111
135.000			.8042	.7762	.5428	.0841	-.2777	-.3508	-.3900	.0603	.1764	.0919	.1452	-.0540	-.0485
147.000		.8147	.8086	.7643	.5307	.0751	-.2913	-.3332	-.4151	.0520	.1213	.1841	.2277	-.0550	-.0472
162.000			.8181	.7508	.5115	.0590	-.2595	-.3496	-.3880	.0440	.1127	.2683	.3037	-.5433	-.0364
180.000	1.2849	.7883	.8161	.7301	.4893	.0462	-.3088	-.3608	-.0633	.0244	.0888	.2591	.3748	-.1813	-.0596
195.000			.8448	.7240	.3975	-.0222	-.2608	-.4141	-.0236	.0131	.0851	.2462	.2618	-.5775	-.0643
213.000		.7499	.8533	.6955	.0000	-.3248	-.5303	-.2713	-.2431	.0117	.1425	.2354	.1589	-.2751	-.0451
225.000			.8892	.7193	.4106	-.0450	-.2859	-.4039	-.0821	.0577	.0898	.1949	.0300	-.1194	-.0852
240.000		.7574	.9122	.7220	.4500	.0372	-.3315	-.3557	-.0541	.0646	.2510	.0002	-.0519	-.1056	-.0445
270.000		.7584	.8760	.7308	.4991	.0425	-.2794	-.3527	.0014	.3687	.6996	-.2395	-.3632	-.1581	-.0451
300.000		.7608	.8394	.7521	.5287	.0767	-.2842	-.3568	-.2281	.0636	.2835	.0665	-.2732	-.1436	-.0667
330.000		.7180	.9450	.7913	.5661	.1002	-.2527	-.3242	-.4198	.0463	.0934	.0000		-.1796	-.0962
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	.0140	.0096	-.0295	.1013	-.0128	-.3059									
30.000	.0079	.0063	-.0288	.1207	-.0038	-.3397									
60.000	-.0088	-.0028	-.0129	.1498	.0490	.0000									
90.000	-.0472	-.0443	.0260	.1546	.4588	-.2996									
120.000	-.0478	-.0934	.0968	.2526	.3076	-.3198									
135.000	-.0354	-.0961	.1035	.4079	.3766										
147.000	-.0008	-.0562	.1293	.3567	.3770	-.3494									
162.000	-.0791	-.1056	.1101	.3160	.2995										
180.000	-.1009	-.1015	.0907	.2601	.1635	-.3208									
198.000	-.2550	-.1708	.0738	.1983	.0288										
213.000	-.0798	-.1512	.0724	.1871	.0115	-.3364									
225.000	-.0913	-.1211	.0762	.2109	.0637										
240.000	-.0812	-.1106	.0765	.1717	.0750	-.3029									
270.000	-.0368	-.0545	.0328	.1697	.4122	-.2945									
300.000	-.0344	-.0349	-.0221	.1222	.0800	-.3088									
330.000	.0052	-.0038	-.0269	.0996	-.0233	-.3320									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL UNSEALED) EXTERNAL TANK

(RETT09)

ALPHAT(6) = 4.257 BETAT(4) = 4.338

SECTION (1) EXTERNAL TANK	DEPENDENT VARIABLE CP														
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4446	.4987
PHI															
.000	1.2833	.7155	.9968	.8575	.6433	.1817	-.1813	-.2610	-.3557	-.1256	.1928	.1510	-.0033	-.2008	-.1113
30.000		.6389	1.0764	.7822	.5691	.1113	-.2362	-.3150	-.4008	.0572	.1176	.1355	-.1542	-.1991	-.1174
60.000		.6321	1.1239	.7127	.4915	.0412	-.2061	-.3612	-.1023	.0426	.1647	.1156	-.2667	-.1673	-.0703
90.000		.6585	.7903	.6654	.4388	-.0104	-.3334	-.3986	-.0278	.3106	.7090	-.1047	-.3654	-.1402	-.0572
120.000		.6975	.7361	.6427	.4163	-.0429	-.3584	-.4206	-.0674	-.0022	.2054	-.0423	-.0901	-.1893	-.0437
135.000			.7289	.6434	.4039	-.0305	-.3530	-.3963	-.0783	.0052	.0298	.1960	.1089	-.2211	-.0837
147.000		.7176	.7239	.6464	.4130	-.0305	-.3377	-.4030	-.0688	.0081	.0510	.1743	.1706	-.2532	-.0831
162.000			.7615	.6508	.4177	-.0302	-.3402	-.4187	-.0410	-.0025	.0039	.2004	.1989	-.6657	-.1392
180.000	1.2833	.7484	.7750	.6748	.4241	-.0288	-.3334	-.3865	-.0434	-.0025	.0563	.2191	.3207	-.2323	-.1490
198.000			.7638	.7147	.3479	-.0894	-.2939	-.3967	-.2605	-.0011	.0987	.2265	.2648	-.5185	-.0858
213.000		.7762	.7621	.6856	.0000	-.3478	-.5393	-.2706	-.3490	-.0280	.1351	.2235	-.2033	-.2637	-.0269
225.000			.7861	.7648	.5116	.0573	-.2092	-.3828	-.2798	.0280	.1891	.0245	.0598	-.1133	-.0165
240.000		.8115	.8582	.8017	.5512	.1277	-.2562	-.3251	-.1859	.1457	.3487	-.1484	-.0580	-.1392	.0175
270.000		.8513	.9285	.8889	.6472	.1746	-.2050	-.2438	.1146	.4172	.6725	-.2410	-.2488	-.1742	-.0252
300.000		.8557	1.0627	.9082	.6508	.2279	-.1571	-.2444	-.2599	.2783	.4983	.0770	-.3321	-.0763	-.0041
330.000		.8089	1.1732	.9038	.6914	.2238	-.1531	-.2363	-.3352	.0974	.2431	.0000		-.1103	-.0596
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0096	.0109	-.0100	.0860	.0098	-.3066									
30.000	-.0022	.0062	-.0059	.1016	-.0035	-.3092									
60.000	-.0099	-.0082	.0066	.1165	.0746	.0000									
90.000	-.0545	-.0623	.0728	.1738	.4143	-.2996									
120.000	-.0874	-.1201	.1076	.1921	.0699	-.2926									
135.000	-.0884	-.1174	.1110	.2704	.1660										
147.000	-.0565	-.1140	.1083	.2674	.0985	-.2863									
162.000	-.1300	-.1742	.0826	.2335	.0184										
180.000	-.1528	-.1843	.0762	.2511	.1610	-.2791									
198.000	-.3779	-.3489	.1267	.2613	.3455										
213.000	.0330	-.0475	.1047	.3287	.3042	-.2754									
225.000	.0475	.0143	.1026	.3538	.3571										
240.000	.0337	-.0052	.0979	.2903	.2624	-.2887									
270.000	.0065	-.0096	.0515	.2115	.4378	-.2940									
300.000	.0018	-.0032	.0091	.1514	.1175	-.3049									
330.000	-.0022	.0147	-.0028	.1115	.0337	-.3066									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IA81 LVAP(ELHL UNSEALD) EXTERNAL TANK

(RETT09)

ALPHAT(7) = 6.452 BETAT (1) = -4.080

SECTION (1)EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.2807	.7601	1.0665	.9068	.6980	.2331	-.1394	-.2238	-.3255	-.1886	.2404	.1755	.0113	-.1550	-.0835
30.000		.2468	1.2164	.9435	.7342	.2692	-.1130	-.2022	-.2964	.1272	.2959	.1170	-.2140	-.0812	-.0524
60.000		.8454	1.1806	.9152	.7037	.2381	-.1307	-.2234	-.2616	.3022	.5111	.0760	-.3245	-.0836	-.0102
90.000		.7879	1.0496	.8343	.6216	.1589	-.2025	-.2854	.1157	.3904	.6421	-.1833	-.2620	-.1789	.0115
120.000		.7158	.8776	.7335	.5218	.0574	-.2733	-.3485	-.2480	.0878	.2899	-.2387	-.1009	-.1856	.0018
135.000			.7990	.6903	.4709	.0183	-.3070	-.3865	-.4598	.0338	.1759	-.0952	.1370	-.0893	-.0323
147.000		.6854	.7344	.6534	.4421	-.0108	-.3407	-.4199	-.3932	-.0080	.0843	.0190	.2224	-.0230	-.0530
162.000			.6795	.6361	.4056	-.0268	-.3731	-.4054	-.1039	-.0458	.0135	.1611	.3030	-.4970	-.0102
180.000	1.2807	.7198	.7004	.6151	.3728	-.0275	-.3640	-.4416	-.0311	-.0411	-.0070	.1624	.3433	-.2664	-.0704
198.000			.7456	.5878	.2790	-.0810	-.3427	-.4277	-.0575	-.0554	.0033	.1709	.2431	-.5822	-.0055
213.000		.7036	.7692	.5915	.0000	-.3532	-.5779	-.3187	-.1770	-.0584	.0701	.1787	.1650	-.2583	-.0530
225.000			.7669	.6029	.3055	-.0890	-.3555	-.4625	-.0865	-.0096	-.0096	.1277	.0018	-.1779	-.0674
240.000		.6497	.7519	.6203	.3480	-.0165	-.3560	-.4260	-.0756	-.0255	.1346	-.1181	-.1516	-.1518	-.0229
270.000		.6257	.8859	.6572	.4254	-.0055	-.3613	-.4196	-.0395	.2893	.6464	-.2759	-.3343	-.2170	-.0336
300.000		.6437	1.0713	.7292	.5091	.0617	-.2784	-.3536	-.2449	.0894	.2757	.1974	-.1604	-.1213	-.0255
330.000		.6755	1.0271	.8243	.6136	.1609	-.2100	-.2910	-.3828	.0532	.1670	.0000		-.1528	-.1191
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0196	.0299	.0201	.0949	.0465	-.2902									
30.000	.0224	.0456	.0332	.1257	.0495	-.2909									
60.000	.0555	.0476	.0487	.1743	.1152	.0000									
90.000	.0538	.0197	.0928	.2033	.3743	-.2595									
120.000	.0491	.9072	.1302	.3011	.2266	-.2767									
135.000	.0475	-.0009	.1541	.3750	.3591										
147.000	.0792	.0358	.1841	.3737	.4007	-.3301									
162.000	-.0373	-.0382	.1653	.3548	.3379										
180.000	-.0507	-.0406	.1289	.2995	.2113	-.3057									
198.000	-.1391	-.0537	.1077	.2057	.1474										
213.000	-.1411	-.1382	.0878	.1743	-.0414	-.3347									
225.000	-.0653	-.0602	.0952	.2041	.0625										
240.000	-.0523	-.0631	.1013	.1790	.0449	-.2856									
270.000	-.0269	-.0540	.0571	.1777	.5198	-.2946									
300.000	-.0042	.0090	.0376	.1265	.1408	-.3025									
330.000	-.0216	.0107	.0234	.0878	.0516	-.3240									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 LYAP(ELHL UNSEALED) EXTERNAL TANK

(RETT09)

ALPHAT (7) = 6.456 BETAT (5) = 4.367

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.2828	.7354	1.0675	.9020	.6932	.2282	-.1380	-.2180	-.3171	-.2031	.2452	.1820	-.0268	-.1597	-.0911
30.000		.6840	1.0492	.8136	.6061	.1463	-.2090	-.2891	-.3743	.0132	.2141	.1639	-.1553	-.1667	-.1237
60.000		.6410	1.0750	.7181	.5050	.0539	-.2772	-.3558	-.0917	.0994	.3299	.1628	-.2237	-.1458	-.0875
90.000		.6342	.8861	.6456	.4246	-.0183	-.3420	-.4064	-.0265	.2278	.6290	-.0852	-.3426	-.2244	-.0287
120.000		.6389	.7097	.6125	.3828	-.0661	-.3757	-.4411	-.0765	-.0280	.1588	-.1056	-.1205	-.1758	-.0136
135.000			.7341	.6037	.3674	-.0581	-.3875	-.4273	-.0762	-.0230	.0093	.1440	.1101	-.2217	-.0536
147.000		.7951	.7032	.5983	.3694	-.0554	-.3589	-.4222	-.0775	-.0124	.0281	.1670	.1721	-.2473	-.0569
162.000			.7309	.5977	.3707	-.0574	-.3636	-.4415	-.0613	-.0266	.0417	.1825	.1962	-.6372	-.1076
180.000	1.2828	.7080	.7276	.6253	.3721	-.0604	-.3683	-.4141	-.0552	-.0213	.0387	.1880	.3068	-.2615	-.1217
198.000			.7033	.6575	.2877	-.1243	-.3339	-.4202	-.2340	-.0253	.0734	.1981	.2697	-.4902	-.0546
213.000		.7144	.6901	.6233	.0000	-.3999	-.5907	-.3009	-.3526	-.0578	.1211	.1941	.2083	-.2490	-.0257
225.000			.7525	.7163	.4702	.0506	-.2507	-.3898	-.2993	.0039	.1773	-.0348	.0535	-.1361	-.0204
240.000		.7385	.9573	.7605	.5164	.1115	-.2699	-.3716	-.1849	.1094	.2882	-.2197	-.1212	-.1784	.0075
270.000		.7920	1.0835	.8549	.6372	.1707	-.2099	-.2874	.1177	.3951	.6419	-.2457	-.2372	-.1653	.0209
300.000		.8393	1.2006	.9255	.7136	.2523	-.1344	-.2174	-.2536	.3088	.5195	.1199	-.2642	-.0754	-.0153
330.000		.8431	1.2340	.9470	.7373	.2687	-.1108	-.1948	-.3003	.1241	.3103	.9000	-.0737	-.0477	
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0240	.0258	.0185	.0924	.0449	-.2874									
30.000	-.0213	.0172	.0161	.1012	.0340	-.2890									
60.000	-.0029	.0158	.0259	.1347	.1323	.0000									
90.000	-.0220	-.0588	.0653	.1945	.4842	-.2745									
120.000	-.0588	-.0861	.1186	.2837	.0718	-.2778									
135.000	-.0641	-.0861	.1176	.2655	.1711										
147.000	-.0367	-.0810	.1152	.2679	.1092	-.2781									
162.000	-.0996	-.1380	.0955	.2371	.0218										
180.000	-.1237	-.1573	.0836	.2490	.1681	-.2745									
198.000	-.3555	-.3137	.1445	.2537	.3187										
213.000	.0513	-.0274	.1360	.3142	.2541	-.2675									
225.000	.0600	.0269	.1279	.3349	.3028										
240.000	.0473	.0046	.1147	.2866	.2045	-.2705									
270.000	.0479	.0093	.0826	.2137	.4044	-.2824									
300.000	.0503	.0377	.0437	.1681	.1343	-.2847									
330.000	.0192	.0343	.0302	.1250	.0694	-.2884									

ORIGINAL PAGE IS
OF POOR QUALITY

ARCII-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT)

BETAT (1) * .100 ALPHAT(4) * -.133

SECTION (1) EXTERNAL TANK	DEPENDENT VARIABLE CP														
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.2852	.8293	.9814	.7681	.5486	.0844	-.2564	-.3330	-.4177	-.0492	.0860	.1084	-.0383	-.2172	-.1117
30.000		.8036	1.0117	.7651	.5446	.0834	-.2584	-.3367	-.4163	.0102	.0662	.0952	-.2607	-.1914	-.0794
60.000		.8053	1.0219	.7664	.5456	.0827	-.2534	-.3373	-.3095	.0562	.3048	-.0574	-.3247	-.1763	-.0418
90.000		.7935	1.0414	.7691	.5483	.0831	-.2675	-.3407	.0147	.4038	.7145	-.0808	-.4146	-.2598	-.2160
120.000		.7756	1.0394	.7715	.5513	.0767	-.2702	-.3360	-.1080	.1134	.3542	.0422	.0156	-.0481	-.0544
135.000			1.0391	.7762	.5506	.0911	-.2594	-.3081	-.3570	.0836	.1634	.2039	.1133	-.0528	-.0628
147.000		.7692	1.0303	.7802	.5553	.0914	-.2245	-.3168	-.4012	.0790	.1370	.2507	.2090	-.0854	-.0388
162.000			1.0278	.7816	.5520	.0871	-.2399	-.3388	-.3435	.0813	.1509	.2807	.2817	-.5540	-.0571
180.000	1.2852	.7739	1.0264	.7819	.5463	.0804	-.2749	-.3081	-.0807	.2697	.1054	.2885	.3951	-.1575	-.0311
195.000			1.0271	.7829	.4648	.0104	-.2110	-.3739	-.1370	.0582	.1153	.2915	.3082	-.5252	-.0967
210.000		.7716	1.0375	.7735	.0000	-.2744	-.4915	-.2303	-.3034	.0595	.1947	.2757	.1797	-.2739	-.0448
225.000			1.0170	.7907	.4945	.0068	-.2332	-.3611	-.2019	.0906	.1486	.2235	.0344	-.0624	-.0584
240.000		.7726	1.0173	.7883	.5239	.0871	-.2688	-.3119	-.1180	.1167	.3480	.0506	-.0005	-.0464	-.0451
270.000		.7696	1.0153	.7843	.5526	.0881	-.2298	-.3314	.0063	.3824	.6970	-.2344	-.3387	-.1994	-.1594
300.000		.7662	1.0214	.7783	.5500	.0954	-.2715	-.3257	-.3523	.0734	.2966	-.0039	-.2816	-.1557	-.0511
330.000		.7739	1.0194	.7730	.5501	.0867	-.2675	-.3388	-.4332	.0115	.0751	.0000		-.1804	-.0796
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	.0262	.0173	-.0355	.1079	-.0442	-.3063									
30.000	.0246	.0136	-.0362	.1281	-.0062	-.3277									
60.000	-.0347	-.0114	-.0254	.1429	.0400	-.3195									
90.000	-.1122	-.0768	.0303	.1257	.5933	-.3090									
120.000	-.0969	-.1520	.0920	.1956	.2139	-.2991									
135.000	-.0923	-.1480	.0930	.3476	.2459										
147.000	-.0490	-.1157	.1149	.2706	.1779	-.3284									
162.000	-.1255	-.1557	.0884	.2420	.1086										
180.000	-.1232	-.1379	.0743	.2286	.0373	-.3156									
198.000	-.3136	-.2624	.0877	.2044	-.0158										
213.000	-.0553	-.1382	.0864	.2061	.0538	-.3050									
225.000	-.0773	-.1214	.0605	.2673	.1687										
240.000	-.0756	-.1285	.0642	.1687	.1654	-.3156									
270.000	-.0923	-.0701	.0235	.1169	.5280	-.3139									
300.000	-.0950	-.0221	-.0256	.1241	.0499	-.3063									
330.000	.0216	.0044	-.0336	.1096	.0161	-.3402									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT10)

BETAT (1) = .109 ALPHAT(6) = 4.251

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.2846	.6509	1.0920	.8666	.6525	.1857	-.1764	-.2600	-.3481	-.2335	.1875	.1786	.0093	-.1944	-.0888
30.000		.7165	1.2488	.8494	.6358	.1704	-.1915	-.2775	-.3643	-.9587	.1641	.1466	-.1945	-.1459	-.0720
60.000		.7219	1.1988	.8076	.5903	.1260	-.2202	-.3061	-.3906	.1540	.4720	.0512	-.2914	-.1113	-.0286
90.000		.7202	1.0666	.7594	.5381	.0773	-.2728	-.3462	-.0266	.4214	.7013	-.1307	-.3497	-.1738	-.0444
120.000		.7516	.7341	.7157	.4926	.0238	-.3051	-.3802	-.2030	.0590	.3373	-.1013	-.0774	-.1664	.0091
135.000			.7496	.7082	.4699	.0208	-.3270	-.3929	-.2887	.0044	.0928	.0593	.1361	-.1513	-.0097
147.000		.7810		.6948	.4632	.0158	-.3320	-.3761	-.2749	.0117	.0641	.1595	.2198	-.1328	-.0161
162.000			.8201	.6759	.4484	.0075	-.3065	-.3933	-.1015	.0147	.0888	.1973	.2618	-.4587	-.0378
180.000	1.2846	.7963	.8315	.6752	.4354	.0042	-.3458	-.3778	-.0209	.0048	.0407	.2003	.3543	-.2470	-.0054
198.000			.7968	.6837	.3404	-.0646	-.2890	-.4247	-.0330	-.0045	.0565	.2047	.2504	-.4822	-.0174
213.000		.7871	.8191	.6732	.0000	-.3110	-.5309	-.2877	-.2850	.0107	.0915	.2159	.1831	-.2491	-.0284
225.000			.8016	.7171	.4307	-.0159	-.2718	-.4166	-.1885	.0187	.0968	.0943	.0287	-.1392	-.0331
240.000		.7641	.7918	.7308	.4625	.0629	-.3277	-.3562	-.1494	.0858	.3598	-.0976	-.0733	-.1473	.0056
270.000		.7216	1.0798	.7739	.5431	.0833	-.2900	-.3215	-.0339	.4115	.6944	-.2735	-.2798	-.1553	-.0261
300.000		.7212	1.2159	.8189	.5953	.1403	-.2318	-.3069	-.3523	.1282	.3687	.1027	-.2822	-.1128	-.0198
330.000		.7124	1.2546	.8589	.6401	.1707	-.1985	-.2712	-.3731	.0562	.1545	.0000		-.1389	-.0754
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	.0281	.0363	-.0017	.0929	.0091	-.3002									
30.000	.0214	.0309	-.0078	.1085	-.0031	-.3081									
60.000	-.0003	.0039	-.0085	.1381	.0928	-.2876									
90.000	-.0233	-.0379	.0480	.1977	.4243	-.2777									
120.000	-.0300	-.0719	.1081	.2330	.1745	-.2820									
135.000	-.0387	-.0712	.1175	.3391	.2476										
147.000	-.0273	-.0517	.1366	.3054	.2185	-.2820									
162.000	-.0637	-.0803	.1250	.2795	.1164										
180.000	-.0614	-.0671	.1179	.2694	.0476	-.2889									
198.000	-.1905	-.1573	.1337	.2401	.0100										
213.000	-.0401	-.0903	.1236	.2468	.0671	-.2919									
225.000	-.0364	-.0634	.0848	.2778	.1659										
240.000	-.0211	-.0540	.0902	.1977	.1207	-.2800									
270.000	-.0194	-.0310	.0488	.1686	.3999	-.2735									
300.000	.0069	.0013	-.0048	.1226	.1032	-.2837									
330.000	.0246	.0248	-.0065	.1008	.0186	-.3048									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT11)

ALPHAT(2) = -4.587 BETAT (2) = -4.111

SECTION (1)EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.3683	.7462	.7532	.7194	.4925	.0627	-.2275	-.2953	-.3623	-.3370	-.0169	.0319	-.0200	-.1961	-.1991
30.000		.7726	.7240	.7666	.5444	.1095	-.1964	-.2693	-.3353	-.2455	-.0181	-.0188	-.3217	-.2227	-.1176
60.000		.8168	.7812	.8382	.6191	.1720	-.1437	-.2249	-.2963	.0405	.2285	-.0672	-.5261	-.2611	-.1154
90.000		.8781	.8794	.9148	.6961	.2407	-.1048	-.1777	-.2518	.3635	.7037	-.0690	-.5232	-.2813	-.3505
120.000		.9273	.9728	.9633	.7480	.2809	-.0658	-.1428	-.2271	.1843	.3412	.1959	-.0566	.1975	.0646
135.000			.9852	.9722	.7533	.2992	-.0651	-.1431	-.2179	.0458	.2092	.2956	.1856	.1557	.0322
147.000		.9350	1.0058	.9703	.7533	.2973	-.0737	-.1422	-.2026	-.1839	.2080	.3045	.3306	.1388	.0158
162.000			.9630	.9570	.7379	.2853	-.0686	-.1227	-.2315	-.1985	.2148	.3465	.4476	-.3983	-.2907
180.000	1.3683	.9083	.9091	.9269	.7024	.2703	-.0797	-.186	-.2249	-.2409	.2049	.3398	.5078	.1230	-.1359
198.000			.8933	.8873	.6094	.2219	-.0769	-.2103	-.2452	-.0800	.1375	.2934	.4672	-.4946	-.0931
213.000		.8476	.9760	.7140	.0000	-.1622	-.4053	-.1490	-.3178	-.0208	.1297	.2781	.2371	-.2554	-.0975
225.000			.9164	.8294	.4837	.0652	-.1697	-.2550	-.3383	.0467	.1515	.2429	.1614	-.0137	-.1091
240.000		.7729	.7605	.7926	.5095	.1173	-.1942	-.2575	-.3255	.0769	.1459	.2810	.0879	.0486	-.1060
270.000		.7653	.7495	.7316	.4841	.0721	-.2246	-.3010	-.2876	.1307	.5431	-.1739	-.4461	-.4909	-.3458
300.000		.7615	.7856	.6939	.4645	.0457	-.2649	-.3156	-.3753	-.0507	-.0231	-.0369	-.3485	-.2451	-.1097
330.000		.7631	.7853	.6924	.4640	.0372	-.2541	-.3083	-.3834	-.2471	-.0225	.0000		-.1739	-.1961
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0734	-.0152	-.0298	-.0214	-.0546	-.3016									
30.000	-.0822	-.0558	-.0535	-.0148	-.0400	-.3013									
60.000	-.0621	-.0665	-.0589	.0339	.1373	-.3140									
90.000	-.0709	-.1213	-.0852	.1038	.6430	-.2941									
120.000	-.0363	-.1013	-.1194	.1905	.3766	-.2901									
135.000	-.0140	-.1061	-.1226	.4051	.4420										
147.000	.0430	-.0611	-.1156	.3406	.4650	-.2950									
162.000	-.0829	-.1656	-.1718	.3097	.4361										
180.000	-.0832	-.2062	-.1769	.2392	.3962	-.2891									
198.000	-.2291	-.1428	-.0650	.1159	.3081										
213.000	-.1845	-.2955	-.0796	.0698	-.1247	-.3062									
225.000	-.1203	-.1910	-.0678	.0881	.0759										
240.000	-.0847	-.1846	-.0427	.0731	.0445	-.2882									
270.000	-.1215	-.1216	-.0313	.0638	.4003	-.2789									
300.000	-.0690	-.0643	-.0456	.0251	.0566	-.2866									
330.000	-.0586	-.0266	-.0342	-.0235	.0302	-.3075									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT11)

ALPHAT(4) = -.111 BETAT (1) = -6.255

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.3671	.6998	.8471	.8095	.5863	.1408	-.1754	-.2479	-.3261	-.3015	.0313	.0591	-.0182	-.1796	-.1502
30.000		.8668	.8509	.8644	.6666	.2162	-.1196	-.1974	-.2780	-.2002	.0862	.0357	-.2904	-.1748	-.0682
60.000		.9185	.9118	.9489	.7283	.2748	-.0695	-.1561	-.2417	-.1570	.3867	.0507	-.4428	-.1853	-.0609
90.000		.9408	.9531	.9737	.7554	.2940	-.0652	-.1370	-.2191	.4200	.7398	.0461	-.3512	-.2653	-.3344
120.000		.9220	.9475	.9444	.7286	.2597	-.0731	-.1491	-.2363	.7483	.3717	.0308	-.2210	-.0262	.0810
135.000			.8974	.9152	.6958	.2398	-.0925	-.1697	-.2624	.0232	.1532	.0712	.0881	.1002	.0293
147.000		.8805	.8487	.8901	.6702	.2076	-.1173	-.2002	-.2866	-.1431	.0984	.1133	.2511	.1424	-.0152
152.000			.8180	.8536	.6283	.1544	-.1681	-.2245	-.2831	-.2825	.0971	.2231	.3996	-.3304	-.3312
180.000	1.3671	.8187	.7891	.8082	.5822	.1663	-.1503	-.2545	-.3217	-.3034	.1093	.2030	.4548	.0554	-.2489
198.000			.8047	.7691	.4796	.1500	-.1821	-.2777	-.3255	-.0498	.0469	.1779	.4208	-.5596	-.0552
213.000		.7875	.8676	.6287	.0000	-.1959	-.4462	-.2261	-.3612	-.0448	.0491	.1884	.1830	-.2513	-.1467
225.000			.8390	.7400	.3742	.0169	-.2282	-.3233	-.3742	-.0036	.0918	.1091	.0554	-.1287	-.1565
240.000		.7629	.7787	.7135	.4257	.0781	-.2666	-.2978	-.3836	.0257	.0316	.1505	-.0430	-.0776	-.1480
270.000		.7473	.7783	.6933	.4550	.0220	-.2577	-.3010	-.3642	.1215	.5930	-.0682	-.3374	-.1975	-.2281
300.000		.7174	.7831	.7119	.4705	.0418	-.2466	-.3058	-.3801	-.0155	-.0164	.1428	-.2046	-.1808	-.1073
330.000		.7040	.8403	.7447	.5172	.0806	-.2339	-.2908	-.3602	-.3059	.0232	.0000		-.1663	-.1666
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.1103	-.0505	-.0463	-.0123	-.0199	-.2931									
30.000	-.0687	-.0584	-.0564	-.0050	-.0090	-.2940									
60.000	-.0370	-.0621	-.0307	.0877	.1585	-.2840									
90.000	-.1260	-.0824	-.0818	.1068	.5272	-.2638									
120.000	.0253	-.0304	-.0596	.3132	.5029	-.2763									
135.000	-.0256	.0590	-.0720	.4579	.5553										
147.000	.1056	-.0037	-.0345	.4311	.5700	-.2887									
162.000	-.0112	-.1037	-.0031	.3951	.5188										
180.000	-.1185	-.2389	-.0840	.3088	.3750	-.2797									
198.000	-.1604	-.0977	.0692	.2151	.3173										
213.000	-.2556	-.2874	-.0381	.1301	-.1060	-.2971									
225.000	-.1310	-.1595	-.0101	.1560	.1049										
240.000	-.1052	-.1576	.0119	.1361	.0936	-.2946									
270.000	-.0854	-.1031	.0036	.1064	.4602	-.2797									
300.000	-.0505	-.0428	-.0215	.0634	.1095	-.2784									
330.000	-.0753	-.0377	-.0327	.0266	.0049	-.2840									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT11)

ALPHAT(5) * 1.041 BETAT (4) * 6.463

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4997
PHI															
.000	1.3662	.6806	.8972	.8309	.6093	.1647	-.1572	-.2324	-.3017	-.2824	.0516	.0690	.0199	-.1706	-.1415
30.000		.6635	.9119	.7442	.5278	.0953	-.2110	-.2847	-.3481	-.2868	.0339	.0773	-.0842	-.1691	-.1689
60.000		.7048	.7924	.6954	.4737	.0476	-.2408	-.3084	-.3697	-.0010	-.0009	.1419	-.2708	-.1796	-.1063
90.000		.7280	.7880	.6714	.4507	.0272	-.2662	-.3240	-.3605	.1342	.6515	.0288	-.3694	-.1583	-.1409
120.000		.7610	.7880	.6670	.4564	.0246	-.2697	-.3262	-.3690	.0015	.0215	.1195	-.0100	-.1313	-.1922
135.000			.7791	.6945	.4628	.0520	-.2580	-.3053	-.3725	-.0007	.0314	.1503	.1058	-.1291	-.2521
147.000		.7657	.7562	.7122	.4842	.0699	-.2314	-.3027	-.3697	.0052	.0666	.1446	.1771	-.1707	-.2613
162.000			.7487	.7388	.5094	.0859	-.2260	-.2925	-.3509	.0036	.0320	.1440	.2160	-.5590	-.3353
180.000	1.3682	.7718	.7582	.7806	.5333	.1082	-.2022	-.2462	-.3379	-.1805	.0919	.2095	.3841	.0003	-.2030
198.000			.7958	.8414	.4792	.0642	-.1487	-.2440	-.3050	-.1942	.0317	.2149	.3362	-.3404	-.1290
213.000		.8445	.7901	.8119	.0000	-.1887	-.3714	-.1368	-.3360	-.1612	.0792	.2585	.2039	-.2395	.0215
225.000			.8746	.9088	.6564	.2248	-.0517	-.2075	-.2255	.0456	.1230	.0727	-.0650	.0744	.0197
240.000		.9176	.9474	.9440	.6957	.2863	-.1018	-.1723	-.2448	.1492	.3574	.0074	-.2058	-.0178	.0357
270.000		.9443	1.0151	.9862	.7621	.3011	-.0701	-.1102	-.2234	.4177	.7268	-.0161	-.3194	-.2102	-.1410
300.000		.9319	.9999	.9748	.7514	.3011	-.0695	-.1381	-.2333	.1722	.3981	.0966	-.4034	-.1456	-.0339
330.000		.8775	.9072	.9129	.6948	.2386	-.1094	-.1733	-.2691	-.2051	.1087	.0000		-.1494	-.0597
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.1119	-.0597	-.0502	-.0161	-.0142	-.2862									
30.000	-.0808	-.0308	-.0330	.0424	-.0033	-.2753									
60.000	-.0544	-.0355	-.0286	.0678	.0866	-.2772									
90.000	-.0626	-.0955	.0161	.1298	.4640	-.2719									
120.000	-.0270	-.1555	.0501	.1838	.1359	-.2722									
135.000	-.0635	-.1548	.0231	.2500	.1659										
147.000	-.0556	-.1539	.0206	.2519	.1175	-.2927									
162.000	-.1317	-.2183	-.0006	.2169	.0729										
180.000	-.1547	-.1650	-.0673	.2363	.2161	-.2822									
198.000	-.3671	-.3213	-.0304	.2532	.5597										
213.000	.0221	-.0511	-.0152	.3323	.4632	-.2775									
225.000	.0526	.0066	-.0384	.3502	.5197										
240.000	.0667	-.0102	-.0425	.2993	.4916	-.2728									
270.000	-.1472	-.1308	-.0717	.0925	.5079	-.2789									
300.000	-.0226	-.0527	-.0419	.0563	.1521	-.2851									
330.000	-.0582	-.0727	-.0524	-.0120	-.0041	-.3050									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 (VAP(ELHL SEALED) EXTERNAL TANK

(RETT11)

ALPHAT(6) = 3.224 BETAT (4) = 4.344

SECTION (1)EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.3677	.7204	1.0182	.8896	.6688	.2176	-.1148	-.1872	-.2717	-.2532	.1082	.1290	.0759	-.1192	-.1243
30.000		.6328	1.1604	.8205	.6027	.1565	-.1633	-.2357	-.3142	-.2885	.0805	.1091	-.0494	-.1372	-.1325
60.000		.6277	1.1359	.7584	.5368	.0983	-.2057	-.2741	-.3479	.0349	.0596	.1787	-.3269	-.1350	-.0712
90.000		.7086	.7842	.7261	.4924	.0573	-.2384	-.2959	-.3613	.1554	.6462	.0238	-.3393	-.1787	-.0731
120.000		.7383	.7940	.7068	.4804	.0331	-.2508	-.3095	-.3756	-.0110	.0301	.0432	-.0242	-.1923	-.1501
135.000			.7816	.7128	.4766	.0520	-.2574	-.3076	-.3645	-.0031	.0235	.1993	.1363	-.1226	-.2080
147.000		.7679	.7925	.7093	.4832	.0646	-.2447	-.2937	-.3711	-.0150	.0438	.1207	.2031	-.1239	-.3084
162.000			.8192	.7290	.4942	.0753	-.2276	-.3086	-.3616	-.0031	.0285	.1347	.2385	-.5069	-.2920
180.000	1.3677	.8023	.8231	.7556	.5018	.0932	-.2422	-.2749	-.3676	-.0371	.0307	.1656	.3750	-.0149	-.2030
198.000			.8072	.7917	.4196	.0498	-.1775	-.2965	-.3317	-.1800	.0519	.1780	.3322	-.3225	-.1646
213.000		.8281	.8113	.7689	.0000	-.1802	-.3973	-.1870	-.3686	-.1672	.0217	.2241	.2112	-.2196	-.0413
225.000			.9291	.8408	.5796	.1800	-.1198	-.2621	-.2822	-.0144	.0435	.0718	-.0140	-.0130	-.0605
240.000		.8701	.8659	.8749	.6205	.2329	-.1512	-.2373	-.2938	.0652	.2381	-.0405	-.1100	-.1715	-.0315
270.000		.9071	.8938	.9294	.7036	.2439	-.1137	-.1831	-.2576	.7481	.6850	-.0567	-.2503	-.2165	-.0438
300.000		.9026	.9721	.9555	.7285	.2791	-.0773	-.1545	-.2504	.1469	.3044	.1580	-.3243	-.1058	-.0252
330.000		.8217	1.1357	.9413	.7204	.2615	-.0852	-.1615	-.2569	-.2167	.1483	.0000		-.1284	-.0473
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0796	-.0444	-.0255	.0032	.0251	-.2675									
30.000	-.0755	-.0300	-.0197	.0216	.0136	-.2566									
60.000	-.0595	-.0366	-.0210	.0422	.1036	-.2460									
90.000	-.0514	-.0695	.0170	.1279	.3995	-.2498									
120.000	-.0215	-.1053	.0484	.1937	.1263	-.2516									
135.000	-.0108	-.1005	.0528	.2730	.1997										
147.000	.0177	-.0828	.0427	.2695	.1484	-.2541									
162.000	-.0746	-.1351	.0299	.2495	.0902										
180.000	-.0963	-.0926	.0242	.2698	.2206	-.2495									
198.000	-.2577	-.2405	.0508	.2648	.4254										
213.000	.0111	-.0201	.0054	.3343	.3865	-.2464									
225.000	.0315	.0249	-.0203	.3367	.4394										
240.000	.0513	.0164	-.0231	.2726	.3712	-.2557									
270.000	-.0049	-.0213	-.0108	.1471	.3388	-.2488									
300.000	-.8256	-.0327	-.0136	.0737	.1104	-.2591									
330.000	-.0570	-.0397	-.0238	.0146	.0427	-.2681									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT11)

ALPHAT(7) = 5.399 BETAT (1) = -4.119

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4997
PHI															
.000	1.3689	.7620	1.0798	.9394	.7280	.2741	-.0700	-.1486	-.2353	-.2121	.1559	.1611	.0874	-.0877	-.1057
30.000		.8492	1.2922	.9792	.7691	.3151	-.0384	-.1230	-.2061	-.1789	.2083	.1348	-.1248	-.1051	-.0375
60.000		.8882	1.1914	.9688	.7556	.2991	-.0434	-.1303	-.2166	.1923	.3453	.1736	-.3626	-.1028	.0040
90.000		.8632	.9856	.9065	.6900	.2459	-.1043	-.1774	-.2540	.3592	.6993	-.0311	-.3102	-.1759	-.0098
120.000		.8096	.8407	.8218	.6062	.1588	-.1685	-.2327	-.3002	.0301	.2210	-.1197	-.1362	-.2003	-.0545
135.000			.7836	.7829	.5598	.1285	-.1862	-.2498	-.3256	-.0673	.0278	-.0235	.1097	-.0295	-.1545
147.000		.7845	.7644	.7554	.5334	.0969	-.2030	-.2764	-.3506	-.1296	.0409	.0188	.2684	.1131	-.1630
162.000			.7636	.7247	.4986	.0449	-.2460	-.2929	-.3487	-.0546	.356	.1054	.3413	-.1108	-.4097
180.000	1.3689	.7842	.7924	.6972	.4628	.0555	-.2286	-.3145	-.3614	-.0127	.0080	.0969	.3761	-.0494	-.1882
198.000			.7949	.6757	.3693	.0455	-.2232	-.3344	-.3133	-.0211	.0083	.1105	.2418	-.4318	-.0164
213.000		.7589	.8057	.6697	.0000	-.2168	-.4253	-.2467	-.3433	-.0260	.0523	.1312	.1766	-.2133	-.0910
225.000			.7959	.6790	.3728	.0233	-.2384	-.3351	-.3473	-.0266	.0089	.1127	.0729	-.1240	-.1309
240.000		.7157	.7846	.6982	.4205	.0624	-.2719	-.3116	-.3655	-.0136	.0170	-.0181	-.0646	-.1976	-.0746
270.000		.6758	.8509	.7245	.4908	.0496	-.2413	-.3062	-.3582	.1284	.5952	-.1413	-.3137	-.1932	-.0488
300.000		.6713	1.1740	.7838	.5623	.1341	-.1998	-.2552	-.3303	.0664	.0967	.3084	-.1405	-.0922	-.0686
330.000		.6729	1.0969	.8682	.6491	.2011	-.1372	-.2058	-.2912	-.2617	.1215	.0000		-.1089	-.1192
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0583	-.0424	-.0122	.0235	.0425	-.2417									
30.000	-.0232	-.0120	-.0074	.0558	.0400	-.2489									
60.000	.0109	.0069	.0043	.0993	.0856	-.2268									
90.000	.0273	.0018	.0242	.1396	.1838	-.2132									
120.000	.0307	.0150	.0280	.2991	.3298	-.2303									
135.000	.0097	-.0179	.0407	.4104	.4697										
147.000	.0997	.0356	.0727	.3968	.5188	-.2598									
162.000	.0291	.0100	.0235	.3759	.4458										
180.000	.0238	.0343	.0491	.3165	.3352	-.2511									
198.000	-.0835	-.0438	.0463	.2189	.2665										
213.000	-.0806	-.1523	.0460	.1706	-.0327	-.2843									
225.000	-.0361	-.0606	.0529	.1931	.1099										
240.000	-.0323	-.0574	.0612	.1732	.0779	-.2386									
270.000	-.0411	-.0432	.0304	.1378	.4203	-.2397									
300.000	-.0684	-.0293	-.0013	.0378	.1813	-.2471									
330.000	-.0734	-.0581	-.0171	.0136	.0563	-.2496									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 TABI LVAP(ELHL SEALED) EXTERNAL TANK

(RETT11)

ALPHAT (7) = 5.395 BETAT (3) = .114

SECTION (1) EXTERNAL TANK	DEPENDENT VARIABLE CP														
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.3693	.6848	1.1446	.9500	.7373	.2783	-.0672	-.1475	-.2325	-.2089	.1641	.1921	.1248	-.0603	-.1044
30.000		.7694	1.3267	.9279	.7156	.2611	-.0832	-.1630	-.2433	-.2183	.1709	.1418	-.0366	-.1056	-.0786
60.000		.7405	1.2180	.8747	.6565	.2099	-.1169	-.2010	-.2792	.1141	.1989	.1778	-.3299	-.1024	-.0378
90.000		.7316	1.1741	.8078	.5914	.1480	-.1798	-.2492	-.3053	.3011	.7044	-.0239	-.3290	-.1957	-.0369
120.000		.7560	.7627	.7528	.5335	.0861	-.2096	-.2691	-.3450	-.0138	.1390	-.0630	-.1051	-.2115	-.1088
135.000			.7344	.7407	.5042	.0698	-.2213	-.2907	-.3631	-.0005	.0188	.0991	.1226	-.0815	-.1817
147.000		.7789		.7319	.4982	.0500	-.2416	-.3027	-.3542	-.0073	.0474	.1004	.2301	-.0325	-.1858
162.000			.8439	.7091	.4809	.0481	-.2394	-.2865	-.3723	.0030	.0371	.1236	.2390	-.2963	-.2235
180.000	1.3693	.8164	.8604	.6996	.4599	.0773	-.2473	-.2980	-.3656	-.0082	.0334	.1166	.3646	-.0632	-.0315
198.000			.8338	.7129	.3576	-.0365	-.2048	-.3361	-.3415	-.0250	.0343	.1340	.2712	-.3260	-.0956
213.000		.7990	.8509	.6983	.0009	-.1709	-.4129	-.2319	-.3767	-.1041	.0390	.1699	.2193	-.2020	-.0768
225.000			.8278	.7446	.4573	.1031	-.1953	-.3138	-.3393	-.0449	.0076	.0985	.0282	-.0978	-.1075
240.000		.7522	.8490	.7619	.5052	.1291	-.2194	-.2913	-.3493	-.0076	.1405	-.0633	-.1069	-.2000	-.0568
270.000		.7379	1.1546	.8169	.5870	.1301	-.1814	-.2541	-.3210	.2349	.6336	-.1162	-.2894	-.1840	-.0258
300.000		.7335	1.2226	.8783	.6580	.2130	-.1266	-.1887	-.2796	.1169	.1784	.2472	-.2024	-.0821	-.0296
330.000		.7611	1.3233	.9327	.7156	.2570	-.0943	-.1649	-.2575	-.2131	.1728	.0000		-.0991	-.0808
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0463	-.0203	.0035	.0360	.0517	-.2472									
30.000	-.0416	-.0130	.0039	.0477	.0418	-.2491									
60.000	-.0247	-.0021	.0076	.0804	.1055	-.2438									
90.000	.0004	-.0206	.0300	.1505	.2925	-.2366									
120.000	.0177	-.0338	.0550	.2235	.2001	-.2354									
135.000	.0174	-.0221	.0758	.3703	.3344										
147.000	.0478	.0041	.0998	.3468	.3154	-.2382									
162.000	.0381	-.0193	.0900	.3177	.2352										
180.000	.0180	.0104	.0950	.3056	.1752	-.2463									
198.000	-.0770	-.0958	.1001	.2672	.1148										
213.000	-.0024	-.0629	.0830	.2571	.1158	-.2584									
225.000	-.0049	-.0250	.0522	.2822	.1746										
240.000	.0089	-.0215	.0570	.1942	.1347	-.2388									
270.000	.0011	-.0212	.0341	.1391	.3080	-.2244									
300.000	-.0303	-.0105	.0081	.0598	.1282	-.2285									
330.000	-.0463	-.0291	-.0014	.0349	.0623	-.2415									

 ORIGINAL PAGE IS
 OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT11)

ALPHAT(7) = 5.420 BETAT (5) = 4.368

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2921	.3362	.3904	.4445	.4987
PHI															
.000	1.3688	.7417	1.0748	.9373	.7233	.2728	-.0735	-.1532	-.2350	-.2136	.1648	.1576	.1159	-.0941	-.0994
30.000		.6811	1.1167	.8561	.6411	.1970	-.1318	-.2113	-.2870	-.2598	.1285	.1629	-.0201	-.1194	-.1199
60.000		.6741	1.1693	.7702	.5525	.1163	-.1889	-.2641	-.3383	.0561	.0900	.2786	-.2363	-.1077	-.0665
90.000		.6830	.8308	.7071	.4860	.0594	-.2455	-.3040	-.3583	.1343	.6035	-.0093	-.3274	-.1988	-.0429
120.000		.6963	.7462	.6818	.4542	.0130	-.2556	-.3188	-.3852	-.0349	.0146	-.0159	-.0426	-.2111	-.1092
135.000			.7541	.6749	.4433	.0102	-.2689	-.3267	-.3776	-.0203	-.0046	.1726	.1536	-.1311	-.1914
147.000		.7420	.7325	.6787	.4458	.0205	-.2654	-.3113	-.3786	-.0346	.0208	.0777	.1796	-.1251	-.2379
162.000			.7797	.6765	.4442	.0490	-.2468	-.3180	-.3744	-.0368	-.0130	.1212	.2176	-.4739	-.2759
180.000	1.3688	.7630	.7977	.7011	.4426	.0681	-.2660	-.2936	-.3849	-.0480	-.0006	.1288	.3397	-.0473	-.1852
198.000			.7788	.7425	.3575	.0158	-.2104	-.3142	-.3580	-.1319	.0376	.1396	.3074	-.2705	-.1691
213.000		.7883	.7800	.6992	.0000	-.2193	-.4349	-.2172	-.3954	-.1694	.0022	.1939	.2015	-.2079	-.0442
225.000			.8037	.7946	.5403	.1810	-.1617	-.2657	-.2983	-.0349	.0190	.0063	.0134	-.0508	-.0702
240.000		.8223	.8972	.8370	.5867	.2192	-.1544	-.2531	-.2980	.0250	.2191	-.1175	-.1314	-.1971	-.0505
270.000		.8603	1.0083	.9167	.6910	.2220	-.1089	-.1884	-.2592	.3356	.6745	-.0575	-.2819	-.1713	-.0162
300.000		.8702	1.2224	.9745	.7525	.3032	-.0533	-.1282	-.2250	.1844	.3208	.2126	-.2509	-.0885	.0029
330.000		.8416	1.3203	.9827	.7708	.3101	-.0536	-.1187	-.2163	-.1787	.2079	.0000		-.0957	-.0364
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0640	-.0477	-.0170	.0111	.0459	-.2451									
30.000	-.0731	-.0458	-.0183	.0181	.0435	-.2383									
60.000	-.0697	-.0248	-.0047	.0469	.1595	-.2343									
90.000	-.0263	-.0490	.0295	.1490	.3896	-.2392									
120.000	-.0160	-.0765	.0652	.1972	.1086	-.2423									
135.000	-.0063	-.0708	.0697	.2701	.1956										
147.000	.0295	-.0645	.0656	.2704	.1484	-.2460									
162.000	-.0574	-.1104	.0476	.2463	.0847										
180.000	-.0791	-.0800	.0434	.2615	.2191	-.2370									
198.000	-.1984	-.2300	.0850	.2517	.4091										
213.000	.0286	-.0050	.0434	.3265	.3517	-.2299									
225.000	.0286	.0323	.0365	.3318	.3951										
240.000	.0302	.0165	.0311	.2803	.2939	-.2370									
270.000	.0157	-.0041	.0225	.1484	.2930	-.2355									
300.000	.0041	-.0098	.0035	.0807	.1142	-.2429									
330.000	-.0323	-.0322	-.0041	.0310	.0701	-.2479									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT12)

ALPHAT (1) = -6.843 BETAT (2) = -1.975

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.4370	.6695	.7618	.6680	.4646	.0602	-.1992	-.2530	-.3106	-.2871	-.0236	.0058	.0120	-.1160	-.1917
30.000		.7252	.7863	.7207	.4974	.0862	-.1817	-.2422	-.3007	-.2832	-.0309	-.0715	-.2366	-.2305	-.1238
60.000		.7482	.7909	.7834	.5565	.1407	-.1392	-.2080	-.2722	-.0547	.0536	.0000	-.5821	-.2777	-.1349
90.000		.7906	.8318	.8667	.6447	.2158	-.0905	-.1584	-.2242	.2026	.5907	.0461	-.5900	-.2024	-.2221
120.000		.8501	.9397	.9518	.7342	.2853	-.0301	-.1032	-.1819	.0477	.2154	.3639	.0167	.1751	.1137
135.000			.9979	.9858	.7645	.3263	-.0119	-.0853	-.1605	-.1386	.2169	.2687	.2684	.1384	.0753
147.000		.8842	1.0184	1.0040	.7862	.3398	-.0073	-.0730	-.1361	-.1368	.2311	.2786	.3716	.1843	.0115
162.000			1.0253	1.0151	.7893	.3490	.0081	-.0454	-.1487	-.1271	.2339	.2619	.4939	-.2388	-.2469
180.000	1.4370	.9037	1.0404	1.0055	.7752	.3576	.0149	-.0865	-.1327	-.1520	.2272	.2557	.5680	.2822	-.0241
198.000			1.0392	.9778	.6867	.3269	.0205	-.1045	-.1450	-.1441	.2187	.2616	.4307	-.2663	-.0269
213.000		.8390	1.1024	.8065	.0000	-.0274	-.2607	-.0479	-.2069	-.1623	.1372	.2628	.3035	-.2441	.0707
225.000			1.0376	.9235	.5626	.1848	-.0560	-.1512	-.2229	-.1680	.1863	.2517	.2047	.0849	.0278
240.000		.7568	.8904	.8659	.5853	.2198	-.1013	-.1549	-.2420	.0871	.1718	.3664	.1183	.1392	.0247
270.000		.7302	.7898	.7816	.5427	.1395	-.1420	-.2140	-.2862	.0847	.4314	-.0171	-.5602	-.2933	-.2868
300.000		.7094	.7954	.7201	.4854	.0758	-.1950	-.2502	-.3014	-.0644	-.0433	-.0596	-.4204	-.2497	-.1506
330.000		.6586	.7753	.6646	.4586	.0538	-.2031	-.2533	-.3171	-.2905	-.0294	.0000		-.1831	-.1477
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.1176	-.0312	-.0117	-.0261	.0063	-.2959									
30.000	-.0946	-.0575	-.0435	-.0351	-.0052	-.2959									
60.000	-.0735	-.1023	-.0450	-.0109	.1788	-.2926									
90.000	-.1078	-.1041	-.0892	.0253	.6709	-.2796									
120.000	.0231	-.0342	-.1056	.0560	.3243	-.2874									
135.000	.0669	-.0827	-.1479	.2661	.3611										
147.000	.1230	-.0315	-.1068	.1822	.3547	-.3202									
162.000	.0194	-.0707	-.0565	.1918	.4209										
180.000	.0439	-.0015	-.1374	.1515	.3996	-.2926									
198.000	-.1351	-.1127	-.1293	.0774	.2623										
213.000	.0372	-.1306	-.1278	.0631	-.0183	-.2947									
225.000	.0117	-.0759	-.1343	.0825	.0901										
240.000	-.0321	-.0803	-.1473	.0628	.0935	-.2753									
270.000	-.0609	-.1705	-.0971	.0376	.4504	-.2802									
300.000	-.0830	-.0756	-.0506	-.0204	.0904	-.2835									
330.000	-.0977	-.0512	-.0227	-.0332	.0523	-.2993									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-D19 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT12)

ALPHAT(1) = -6.837 BETAT (3) = .142

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP															
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987		
PHI																	
.000	1.4405	.6735	.7821	.6615	.4637	.0708	-.1863	-.2454	-.3011	-.2867	-.0116	.0141	.0222	-.1084	-.1897		
30.000		.6788	.8031	.6963	.4802	.0750	-.1851	-.2467	-.2992	-.2842	-.0261	-.0664	-.1621	-.2130	-.1293		
60.000		.7326	.8056	.7476	.5209	.1142	-.1564	-.2251	-.2856	-.0575	.0047	.0000	-.5544	-.2748	-.1164		
90.000		.7682	.8344	.8182	.5944	.1771	-.1236	-.1868	-.2507	.1520	.5409	.0160	-.5944	-.2322	-.2529		
120.000		.8072	.9096	.9006	.6835	.2438	-.0672	-.1357	-.2059	.0845	.1872	.4015	.0655	.1559	.0687		
135.000			.9507	.9475	.7206	.2684	-.0432	-.1110	-.1729	-.1659	.1936	.2290	.2606	.1161	.0369		
147.000		.8533	.9928	.9759	.7527	.3162	-.0274	-.0817	-.1578	-.1565	.2163	.2736	.3430	.1522	-.0560		
162.000			1.0207	.9997	.7742	.3364	.0145	-.0611	-.1618	-.1359	.2238	.2612	.4347	-.2612	-.0996		
180.000	1.4405	.8966	1.0466	1.0120	.7794	.3554	.0046	-.0744	-.1349	-.1329	.2341	.2668	.5452	.2760	-.0055		
198.000			1.0886	1.0003	.7007	.3168	.0435	-.1037	-.1226	-.1156	.2184	.2584	.4588	-.2423	-.0514		
213.000		.8505	1.1611	.8812	.0000	.0005	-.2214	-.0179	-.1788	-.1665	.1482	.2832	.3399	-.2538	.1301		
225.000			1.1065	.9784	.6275	.2199	-.0240	-.1226	-.1922	-.1495	.2032	.2575	.2062	.1080	.0503		
240.000		.7877	1.0235	.9218	.6468	.2621	-.0724	-.1176	-.2140	.0917	.1887	.3913	.0914	.1518	.0599		
270.000		.7493	.8491	.8317	.5972	.1826	-.1122	-.1909	-.2615	.1390	.4968	.0225	-.5563	-.2477	-.2633		
300.000		.7276	.8158	.7613	.5221	.1184	-.1779	-.2285	-.2876	-.0663	-.0086	-.0649	-.4408	-.2633	-.1256		
330.000		.7116	.8056	.7108	.4847	.0714	-.1979	-.2433	-.3130	-.2867	-.0270	.0000		-.2011	-.1279		
X/LT	.5528	.6340	.7423	.8506	.9264	.9838											
PHI																	
.000	-.1110	-.0303	-.0064	-.0251	.0081	-.2903											
30.000	-.0942	-.0434	-.0283	-.0264	.0148	-.3042											
60.000	-.0701	-.0707	-.0527	-.0162	.1420	-.2954											
90.000	-.0685	-.1459	-.0799	.0451	.6001	-.2921											
120.000	.0049	-.0604	-.1354	.0599	.2541	-.2818											
135.000	.0526	-.1157	-.1682	.2607	.2496												
147.000	.0813	-.0851	-.1021	.1954	.2084	-.2933											
162.000	.0165	-.0524	-.1244	.1651	.2953												
180.000	.0541	.0143	-.1674	.1425	.2656	-.2933											
198.000	-.1725	-.1743	-.1022	.1002	.1675												
213.000	.1052	-.0493	-.1083	.1085	.0463	-.2918											
225.000	.0477	-.0410	-.1319	.1508	.1072												
240.000	-.0009	-.0567	-.1390	.0564	.1626	-.2963											
270.000	-.0597	-.1580	-.0898	.0233	.5150	-.2879											
300.000	-.0777	-.0959	-.0558	-.0249	.1357	-.2951											
330.000	-.0945	-.0613	-.0304	-.0325	.0142	-.3039											

ARC11-019 1A81 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT12)

ALPHAT(2) = -4.631 BETAT (1) = -6.247

SECTION (1)EXTERNAL TANK	DEPENDENT VARIABLE CP														
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.4354	.6847	.7511	.7311	.4989	.0937	-.1772	-.2385	-.3020	-.2931	-.0306	-.0151	-.0132	-.1388	-.1732
30.000		.7639	.7301	.7971	.5741	.1602	-.1312	-.2011	-.2645	-.2594	.0030	-.0306	-.2993	-.2639	-.1182
60.000		.8132	.7980	.8901	.6754	.2432	-.0644	-.1409	-.2165	.0082	.1970	.0000	-.5104	-.2751	-.1443
90.000		.8767	.9152	.9321	.7677	.3238	-.0158	-.0877	-.1633	.2965	.6868	.1140	-.4894	-.2543	-.2012
120.000		.9226	1.0320	1.0231	.8119	.3517	.0189	-.0507	-.1317	.0183	.2846	.2569	-.1830	.1226	.1853
135.000			1.0075	1.0256	.8046	.3575	.0235	-.0316	-.1413	-.1301	.2188	.2913	.1688	.1412	.1385
147.000		.9108	.9731	1.0114	.7901	.3407	.0145	-.0692	-.1540	-.1253	.2255	.2091	.3731	.1988	.0903
162.000			.9456	.9759	.7601	.2947	-.0253	-.0991	-.1521	-.1574	.1922	.2584	.4707	-.2261	-.2169
180.000	1.4354	.8569	.8700	.9308	.7122	.2723	-.0176	-.1078	-.2094	-.1787	.1488	.1995	.5391	.2486	-.1210
198.000			.8802	.8749	.6085	.3030	-.1023	-.1317	-.2363	-.2078	.1440	.1905	.4846	-.3717	.0254
213.000		.7933	.9929	.6530	.0000	-.1095	-.3411	-.1397	-.2785	-.1356	.0530	.2045	.2099	-.2642	-.0401
225.000			.9018	.7954	.4026	.1050	-.1359	-.2196	-.2876	-.0807	.1121	.1422	.1347	.0088	-.0607
240.000		.7301	.7484	.7677	.4406	.1415	-.1758	-.2187	-.2976	.0440	.1012	.2854	.0724	.0884	-.0678
270.000		.6913	.7786	.7061	.4578	.0502	-.1980	-.2469	-.3255	.0237	.4089	-.0280	-.4284	-.3586	-.3468
300.000		.6615	.7934	.6493	.4370	.0529	-.2088	-.2608	-.3265	-.0573	-.0476	.0656	-.3305	-.2458	-.1127
330.000		.6640	.7922	.6830	.4577	.0572	-.2150	-.2599	-.3216	-.2907	-.0155	.0000		-.1360	-.2090
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.1347	-.0684	-.0415	-.0500	-.0450	-.2907									
30.000	-.0794	-.0905	-.0872	-.0648	.0255	-.2888									
60.000	-.0932	-.0760	-.0282	-.0097	.1888	-.2855									
90.000	-.2446	-.0594	-.0597	.0483	.6874	-.2989									
120.000	.0830	.0111	-.0411	.1231	.4679	-.3071									
135.000	.0480	-.0257	-.0943	.3048	.5019										
147.000	.1100	.0368	-.0266	.2148	.5214	-.3116									
162.000	.0806	-.0207	-.1328	.2641	.5451										
180.000	-.0392	-.1661	-.0959	.1965	.4670	-.3034									
198.000	-.0975	-.0752	-.0841	.0762	.3834										
213.000	-.2019	-.2901	-.1284	.0198	-.2149	-.3037									
225.000	-.0849	-.1445	-.1138	.0420	.0754										
240.000	-.0865	-.1231	-.1104	.0362	.0389	-.3025									
270.000	-.1242	-.1423	-.0946	.0334	.3597	-.2913									
300.000	-.0717	-.0687	-.0422	-.0280	.1152	-.3013									
330.000	-.1107	-.0597	-.0326	-.0502	.0267	-.3210									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT12)

ALPHAT(3) = -2.321 BETAT (4) = 6.497

SECTION (1) EXTERNAL TANK	DEPENDENT VARIABLE CP														
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.4352	.6812	.8074	.7779	.5539	.1390	-.1433	-.2085	-.2717	-.2626	.0078	.0072	.0200	-.1233	-.1577
30.000		.7013	.8275	.7158	.4942	.0907	-.1769	-.2411	-.2980	-.2811	.0084	.0166	-.1071	-.1332	-.1819
60.000		.7020	.8071	.6600	.4651	.0666	-.1892	-.2510	-.3057	-.0303	-.0079	.0000	-.3030	-.1986	-.0921
90.000		.6890	.8089	.6767	.4716	.0657	-.1980	-.2501	-.3072	.0672	.5419	.0630	-.3766	-.3577	-.3452
120.000		.7273	.7993	.7285	.5064	.0871	-.1859	-.2408	-.2937	.0375	.0465	.2635	.0120	.0605	-.1010
135.000			.7888	.7580	.5275	.1271	-.1693	-.2149	-.2797	.0330	.0849	.0955	.2044	-.0194	-.1730
147.000		.7527	.7715	.7867	.5608	.1573	-.1363	-.1954	-.2720	-.0209	.0828	.1602	.2001	-.0256	-.2487
162.000			.8109	.8237	.5960	.1916	-.1101	-.1839	-.2414	-.2393	.1000	.1660	.3082	-.3969	-.2432
180.000	1.4352	.7728	.8783	.8331	.2325	-.0963	-.1283	-.2263	-.2061	.1121	.2004	.4655	.1882	-.1261	
198.000			1.0338	.9421	.5869	.2062	-.0174	-.1379	-.1713	-.1459	.1502	.2134	.4223	-.1974	-.0419
213.000		.8387	.9743	.9381	.0000	-.0120	-.2245	-.0239	-.1963	-.1928	.1233	.2570	.3026	-.2415	.1235
225.000			1.0535	1.0012	.7352	.3269	.0474	-.1036	-.1210	-.0980	.1777	.2199	-.0493	.0766	.1253
240.000		.9083	1.0606	1.0232	.7729	.3764	-.0158	-.0650	-.1495	.0726	.2862	.1976	-.2322	.0855	.1544
270.000		.9218	1.0190	1.0159	.7906	.3446	-.0045	-.0560	-.1573	.3122	.6854	.1317	-.4145	-.2349	-.2297
300.000		.8590	.9333	.9547	.7279	.2948	-.0399	-.1113	-.1915	.0305	.2396	.0887	-.3741	-.2186	-.1075
330.000		.7975	.8380	.8592	.6416	.2092	-.1000	-.1614	-.2418	-.2249	.0577	.0000		-.2269	-.0948
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.1229	-.0838	-.0429	-.0467	-.0341	-.3092									
30.000	-.0994	-.0406	-.0312	-.0263	.0045	-.2793									
60.000	-.0568	-.0330	-.0413	.0006	.1234	-.3026									
90.000	-.0513	-.1120	-.1077	.0804	.4471	-.2608									
120.000	-.0890	-.1309	-.1435	.1244	.1407	-.2823									
135.000	-.0532	-.1333	-.1142	.1683	.1577										
147.000	.0019	-.1339	-.1451	.1624	.1197	-.2805									
162.000	-.0317	-.1463	-.3119	.1287	.1237										
180.000	-.1367	-.0642	-.3305	.1151	.2548	-.2841									
198.000	-.3322	-.2139	-.1278	.0990	.5302										
213.000	.0793	-.0262	-.0340	.1559	.3470	-.2923									
225.000	.1106	.0383	-.0755	.1877	.3679										
240.000	.1057	.0031	-.0412	.1568	.4198	-.2893									
270.000	-.2570	-.1302	-.0065	.0624	.6634	-.2856									
300.000	-.0593	-.0941	-.0155	-.0089	.1704	-.2880									
330.000	-.0617	-.0926	-.0789	-.0717	.0322	-.3020									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 1AB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT12)

ALPHAT(5) = 2.094 BETAT (1) = -6.258

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.4332	.6864	.9480	.8761	.6568	.2250	-.0794	-.1494	-.2224	-.2172	.0898	.0355	.0402	-.0715	-.1045
30.000		.8378	1.0016	.9495	.7331	.2950	-.0268	-.1031	-.1754	-.1701	.1578	.0803	-.1536	-.1641	-.0384
60.000		.8607	1.0985	.9989	.7758	.3330	.0059	-.0759	-.1522	.0014	.2593	.0000	-.3601	-.1583	-.0166
90.000		.8551	1.0861	.9943	.7656	.3268	-.0135	-.0846	-.1556	.2840	.6829	.1570	-.3028	-.2033	-.0721
120.000		.8230	1.0326	.9314	.7132	.2675	-.0512	-.1223	-.1937	.0138	.2269	.0458	-.2861	-.1376	-.0246
135.000			.9858	.8925	.6709	.2455	-.0858	-.1476	-.2097	-.1984	.0764	.0684	-.0589	.1069	-.0598
147.000		.7867	.9341	.8604	.6433	.2173	-.1016	-.1575	-.2246	-.2290	.0658	.0560	.1842	.2331	-.0460
162.000			.9162	.8222	.6028	.1662	-.1263	-.1946	-.2589	-.2381	.0567	.1272	.3974	-.0654	-.2494
180.000	1.4332	.7428	.8996	.7787	.5608	.0980	-.1460	-.1940	-.2833	-.2633	.0633	.0944	.4387	.1535	-.1284
198.000			.8965	.7460	.4480	.1659	-.1698	-.2280	-.2809	-.0809	.0143	.1189	.2705	-.3703	-.0494
213.000		.6997	.9613	.6208	.0000	-.1418	-.3370	-.1903	-.3065	-.0551	.0473	.1251	.1983	-.2373	-.1128
225.000			.8706	.7258	.3435	.0751	-.1776	-.2672	-.3140	-.0563	.0691	.0439	.0597	-.0457	-.1177
240.000		.6434	.7842	.6985	.4134	.0974	-.2186	-.2428	-.3207	-.0059	.0225	.1266	-.0586	-.1333	-.0865
270.000		.6462	.7685	.7052	.4744	.0632	-.2066	-.2552	-.3128	.0618	.4931	.0331	-.2808	-.1704	-.0436
300.000		.7044	.8586	.7475	.5103	.1072	-.1884	-.2363	-.3022	-.0214	.0170	.3142	-.1685	-.1137	-.0552
330.000		.6821	.9190	.7984	.5731	.1497	-.1423	-.1964	-.2761	-.2573	.0470	.0000	-.0800	-.1287	
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0843	-.0858	-.0556	-.0360	-.0057	-.2752									
30.000	-.0239	-.0512	-.0513	-.0149	-.0006	-.2625									
60.000	-.0025	-.0221	-.0343	.0353	.1426	-.2506									
90.000	-.1201	-.1761	-.0738	.0818	.3832	-.2585									
120.000	.1173	.0126	.0213	.3381	.5956	-.2712									
135.000	.0407	-.0034	-.0291	.4522	.6205										
147.000	.0165	.0503	.0182	.4233	.6503	-.2967									
162.000	-.1220	.0095	-.1404	.4171	.5914										
180.000	-.1848	-.0961	-.0688	.3347	.4445	-.2719									
198.000	-.1787	-.0698	.0090	.2135	.4021										
213.000	-.2145	-.1727	-.0233	.1447	-.1107	-.2897									
225.000	-.0959	-.0945	-.0186	.1684	.1432										
240.000	-.0791	-.0948	-.0112	.1460	.1102	-.2755									
270.000	-.0840	-.0859	-.0385	.1020	.4054	-.2843									
300.000	-.0861	-.0624	-.0434	-.0076	.1296	-.2958									
330.000	-.0926	-.0748	-.0412	-.0173	.0251	-.2667									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT12)

ALPHAT(6) * 4.289 BETAT (1) * -6.260

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.4321	.6682	.9436	.9261	.7116	.2751	-.0429	-.1125	-.1896	-.1838	.1361	.0549	.0629	-.0396	-.0788
30.000		.8791	.9624	1.0024	.7882	.3453	.0126	-.0676	-.1433	-.1356	.2082	.1256	-.1119	-.1222	-.0207
60.000		.9244	1.0056	1.0261	.8093	.3612	.0291	-.0525	-.1325	.0250	.2849	.0000	-.2942	-.1437	.0065
90.000		.8849	.9386	.9851	.7687	.3221	-.0118	-.0817	-.1551	.2922	.6766	.1355	-.3167	-.1592	.0083
120.000		.8164	.8368	.8897	.6850	.2333	-.0660	-.1375	-.2115	.0014	.2037	-.0171	-.2120	-.1564	-.0522
135.000			.7679	.8442	.6273	.2119	-.1058	-.1717	-.2383	-.2043	.0438	-.0048	-.1039	.0528	-.0516
147.000		.7741	.7590	.8122	.5955	.1860	-.1366	-.1899	-.2466	-.2503	.0208	.0122	.1231	.2632	-.0388
162.000			.7543	.7697	.5539	.1356	-.1526	-.2146	-.2846	-.2606	.0302	.0987	.3569	.0007	-.2477
180.000	1.4321	.7327	.7722	.7334	.5222	.0606	-.1748	-.2180	-.2997	-.2776	.0399	.0790	.3923	.1181	-.1311
198.000			.8057	.7027	.4207	.1246	-.1855	-.2506	-.2898	-.0691	.0009	.0935	.2472	-.3600	.0031
213.000		.6849	.8424	.5851	.0000	-.1519	-.3396	-.2028	-.3120	-.0627	.0293	.1083	.1828	-.2208	-.0834
225.000			.8165	.6712	.3319	.0593	-.1852	-.2759	-.3124	-.0546	.0528	.0410	.0642	-.0489	-.1128
240.000		.6738	.7882	.6615	.4018	.0758	-.2188	-.2509	-.3226	-.0119	.0000	.0752	-.0707	-.1697	-.0825
270.000		.6858	.8064	.7091	.4715	.0673	-.2034	-.2528	-.3172	.0538	.4865	.0042	-.2741	-.1458	-.0106
300.000		.6713	.9177	.7473	.5213	.1185	-.1762	-.2263	-.2957	.0093	.0396	.4252	-.0988	-.1039	-.0452
330.000		.6189	.9605	.8270	.6123	.1868	-.1162	-.1726	-.2518	-.2287	.0740	.0000		-.0553	-.1048
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0635	-.0623	-.0521	-.0196	.0031	-.2525									
30.000	.0031	-.0143	-.0274	.0134	.0096	-.2374									
60.000	.0363	.0165	-.0010	.0780	.0769	-.2361									
90.000	.0400	.0021	-.0161	.0650	.1782	-.2365									
120.000	.0883	.0640	.0387	.3652	.5512	-.2712									
135.000	.0330	-.0096	.0003	.4810	.6141										
147.000	.0003	.0412	.0363	.4708	.6437	-.2733									
162.000	-.0602	.0089	-.1203	.4436	.5917										
180.000	-.1777	-.0822	-.0128	.3550	.4408	-.2625									
198.000	-.1695	-.0428	.0607	.2509	.3993										
213.000	-.1933	-.1364	.0116	.1694	-.1164	-.2848									
225.000	-.0779	-.0739	.0181	.1964	.1410										
240.000	-.0638	-.0770	.0276	.1661	.1059	-.2594									
270.000	-.0638	-.0712	-.0079	.1202	.3703	-.2661									
300.000	-.0626	-.0641	-.0264	.0151	.1686	-.2721									
330.000	-.0864	-.0712	-.0415	-.0072	.0484	-.2507									

ORIGINAL PAGE IS
 AS SHOWN ON THIS PAGE

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT12)

ALPHAT(6) = 4.303 BETAT (5) = 6.516

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.4353	.6473	.9816	.9244	.7126	.2781	-.0447	-.1143	-.1885	-.1837	.1336	.0552	.0946	-.0510	-.0826
30.000		.5792	1.0345	.8177	.6060	.1867	-.1119	-.1812	-.2457	-.2424	.0764	.0936	.0237	-.0674	-.1086
60.000		.6346	1.0840	.7301	.5139	.1103	-.1633	-.2311	-.2898	.0136	.0365	.0000	-.1978	-.1066	-.0361
90.000		.6777	.7962	.6898	.4637	.0653	-.2058	-.2620	-.3139	.0424	.4988	.1147	-.2955	-.1485	.0001
120.000		.6801	.7870	.6376	.4380	.0424	-.2018	-.2601	-.3161	-.0312	-.0098	.0779	.0002	-.1911	-.1432
135.000			.7981	.6497	.4316	.0400	-.2108	-.2672	-.3111	-.0761	.0332	.0989	.1351	-.0483	-.2180
147.000		.6795	.7854	.6737	.4444	.0369	-.2126	-.2533	-.3115	-.0933	.0295	.1098	.2041	-.0307	-.3135
162.000			.7745	.7036	.4450	.0663	-.1880	-.2494	-.3031	-.1306	.0123	-.1153	.2072	-.3756	-.2112
180.000	1.4353	.7250	.7527	.7335	.4386	.1173	-.1972	-.2178	-.3044	-.2846	.0410	.1255	.3809	.0955	-.1016
198.000			.7329	.7869	.3655	.0797	-.1343	-.2268	-.2725	-.2343	-.0188	.1212	.2535	-.1377	-.0076
213.000		.7751	.7268	.7400	.0000	-.1535	-.3430	-.1480	-.2966	-.2546	.0111	.1583	.1572	-.2164	.0861
225.000			.7699	.8595	.6091	.2833	-.1174	-.1511	-.2124	-.1658	.0462	.0049	-.1464	.0723	.0212
240.000		.8305	.8747	.9075	.6611	.2185	-.0437	-.1350	-.2203	.0073	.2049	-.0090	-.2090	-.1396	-.0413
270.000		.9017	.9170	.9972	.7701	.3196	-.0021	-.0779	-.1730	.2976	.6651	.1252	-.2843	-.1488	-.0027
300.000		.9246	1.0021	1.0373	.8163	.3725	.0201	-.0436	-.1336	.0455	.2859	.2904	-.2022	-.1282	-.0064
330.000		.8535	1.0807	1.0104	.7983	.3196	.0023	-.0649	-.1558	-.1280	.2107	.0000		-.1086	-.0274
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0684	-.0593	-.0579	-.0253	.0104	-.2563									
30.000	-.0791	-.0605	-.0422	.0035	.0362	-.2487									
60.000	-.0678	-.0455	-.0391	.0298	.1304	-.2472									
90.000	-.0498	-.0422	-.0283	.1238	.3526	-.2354									
120.000	-.0547	-.0545	-.0129	.1933	.1392	-.2460									
135.000	-.0599	-.0576	.0007	.2691	.1929										
147.000	-.0899	-.0616	-.0129	.2722	.1574	-.2611									
162.000	-.1737	-.1257	-.0345	.2311	.1307										
180.000	-.2379	-.1079	-.1502	.2366	.2755	-.2520									
198.000	-.3817	-.2266	-.0222	.2679	.6037										
213.000	.0200	-.0249	.0437	.3161	.4029	-.2478									
225.000	.0671	.0509	.0146	.3225	.5035										
240.000	.0708	.0327	.0221	.2773	.4549	-.2445									
270.000	.0423	.0118	.0125	.1064	.1556	-.2478									
300.000	.0392	.0121	.0044	.0642	.0909	-.2502									
330.000	-.0020	-.0228	-.0283	-.0041	.0341	-.2669									

ORIGINAL LACED IN DISC
ORIPROPH QUANTUM

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT13)

ALPHAT(2) = -4.236 BETAT (2) = .113

SECTION (1)EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.0437	.4959	.5185	.3782	.1420	-.2527	-.3643	-.3360	-.2347	-.1091	.0791	-.1071	-.1084	-.0723	-.0519
30.000		.4866	.5026	.3931	.1538	-.2409	-.3546	-.3247	-.2239	-.1046	.0776	-.1753	-.1977	-.0956	-.0534
60.000		.4877	.4712	.4294	.1943	-.2076	-.2834	-.2452	-.1620	-.0683	.0731	.0000	-.3861	-.1568	-.0503
90.000		.4959	.5437	.4866	.2590	-.1451	-.1841	-.1127	-.0277	.1502	.3633	-.2163	-.4877	-.2947	-.1480
120.000		.5520	.6399	.5521	.3263	-.0985	-.1713	-.1306	-.0127	.3279	.2986	-.0541	-.0882	-.0972	-.0699
135.000			.6651	.5833	.3525	-.0601	-.1764	-.1530	-.0541	.0812	.2642	.0237	-.0144	-.1100	-.0896
147.000		.5952	.6749	.6078	.3807	-.0376	-.1841	-.1586	-.0623	.0683	.2776	.0716	.0382	-.1393	-.0489
162.000			.7224	.6252	.3971	-.0324	-.1800	-.1651	-.0751	.0643	.2926	.1417	.0494	-.5993	-.1437
180.000	1.0437	.6219	.7387	.6329	.4038	-.0294	-.1749	-.1610	-.0741	.0638	.3015	.2014	.1202	-.3832	-.1447
198.000			.8113	.6288	.3340	-.0340	-.1846	-.1508	-.0674	.0568	.2458	.1808	.0935	-.5628	-.1808
213.000		.5818	.8446	.5337	.0000	-.3781	-.4501	-.0500	-.0659	.0062	.2244	.1381	.0340	-.1831	.0026
225.000			.8139	.6081	.3073	-.0750	-.1887	-.1349	-.0475	.0633	.2438	.0490	-.0687	-.1450	-.0953
240.000		.5298	.7791	.5655	.3093	-.0780	-.1723	-.1278	-.0117	.1179	.2801	-.0376	-.0980	-.1018	-.0855
270.000		.4949	.5869	.4988	.2657	-.1426	-.1795	-.1109	.0236	.1552	.3628	-.2245	-.3819	-.2920	-.1509
300.000		.4825	.4626	.4382	.2031	-.1897	-.2855	-.2505	-.1617	-.0693	.0850	-.3122	-.2813	-.1450	-.0623
330.000		.4907	.4841	.3982	.1591	-.2419	-.3512	-.3247	-.2273	-.1081	.0666	.0000		-.0925	-.0582
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0392	-.0362	-.0369	-.0828	-.4120	-.1903									
30.000	-.0387	-.0351	-.0426	-.0810	-.3768	-.2547									
60.000	-.0443	-.0413	-.0400	-.0512	-.2471	-.2427									
90.000	-.0931	-.0736	-.0666	-.0676	-.4326	-.2447									
120.000	-.0494	-.0261	.0071	-.0404	-.0778	-.2143									
135.000	-.0469	-.0210	.0199	.2013	.0268										
147.000	-.0115	.0081	.0557	.1002	-.0601	-.1978									
162.000	-.0684	-.0374	.0150	.0473	-.0820										
180.000	-.0751	-.0435	.0145	.0427	-.0416	-.1983									
198.000	-.2784	-.1461	.0457	.0083	-.1399										
213.000	.0003	-.0414	.0703	.0073	-.1639	-.2058									
225.000	-.0526	-.0241	.0216	.1050	-.0591										
240.000	-.0501	-.0200	.0078	-.0340	-.0840	-.2033									
270.000	-.1077	-.0820	-.0716	-.0803	.3791	-.2343									
300.000	-.0485	-.0441	-.0408	-.0539	-.2452	-.2408									
330.000	-.0434	-.0354	-.0403	-.0773	-.3778	-.2438									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT13)

ALPHAT(5) = 8.470 BETAT (1) = .103

SECTION (1)EXTERNAL TANK	DEPENDENT VARIABLE CP														
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.0381	.8700	.8473	.7272	.5102	.0500	-.1690	-.1640	-.1032	.0123	.2631	.0072	-.0022	.0021	.0093
30.000		.5907	1.0079	.6741	.4649	.0236	-.1857	-.1765	-.0962	.0300	.2656	-.0373	-.0928	-.0098	.0030
60.000		.4147	.8891	.5616	.3483	-.0673	-.1810	-.1402	-.0322	.1217	.3030	.0000	-.1302	-.0316	-.0011
90.000		.3322	.7944	.4329	.2171	-.1665	-.2040	-.1350	-.0015	.1273	.3201	-.1748	-.4368	-.2429	-.1319
120.000		.3144	.7159	.3344	.1228	-.2616	-.2998	-.2662	-.1690	-.0724	.0628	-.2202	-.2145	-.1175	-.0428
135.000			.6202	.3089	.0735	-.2736	-.3236	-.2901	-.1877	-.0625	.0840	-.0742	-.0491	-.1118	-.0511
147.000		.3458	.4742	.2995	.0636	-.2840	-.3267	-.2870	-.1758	-.0408	.1168	.0119	.0181	-.0958	-.0089
162.000			.5931	.2808	.0516	-.3058	-.3272	-.2828	-.1602	-.0140	.1369	.1026	.0696	-.4982	-.0812
180.000	1.0381	.3348	.5089	.2740	.0385	-.3094	-.3179	-.2787	-.1581	-.0044	.1425	.1621	.1464	-.3029	-.0802
198.000			.6503	.2922	-.0809	-.3158	-.3246	-.2771	-.1737	-.0347	.1604	.1386	.1059	-.4552	-.1077
213.000		.2737	.4543	.2933	.0000	-.6028	-.5337	-.2112	-.2023	-.0772	.0239	.0473	.0063	-.1676	.0337
225.000			.6675	.3191	.0610	-.2950	-.3226	-.2621	-.1682	-.0595	.0790	-.0460	-.1038	-.1387	-.0641
240.000		.2460	.8021	.3446	.1048	-.2466	-.2941	-.2558	-.1692	-.0747	.0684	-.2087	-.2221	-.1173	-.0526
270.000		.2869	.8125	.4409	.2238	-.1794	-.2087	-.1323	-.4074	.1103	.3086	-.2260	-.3363	-.2137	-.1280
300.000		.4088	.8754	.5690	.3558	-.0518	-.1786	-.1344	-.0240	.1153	.3066	-.0511	-.0846	-.0298	-.0063
330.000		.6380	.8941	.6825	.4664	.0268	-.1708	-.1645	-.0906	.0234	.2580	.0000		-.0053	-.0003
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	.0148	.0142	.0167	-.0362	-.4015	-.1999									
30.000	.0044	.0085	.0120	-.0253	-.3637	-.1554									
60.000	.0039	.0080	.0187	.0135	-.1916	-.1938									
90.000	-.1016	-.0687	.0187	.0772	.4105	-.2049									
120.000	-.0226	.0058	.0812	.0766	-.0599	-.1746									
135.000	-.0070	.0234	.1039	.2790	.0622										
147.000	.0361	.0627	.1416	.1998	-.0133	-.1882									
162.000	-.0122	.0270	.1069	.1439	-.0924										
180.000	-.0153	.0245	.1084	.1377	-.0587	-.1761									
198.000	-.2321	-.0987	.1484	.1124	-.1272										
213.000	.0391	.0162	.1707	.1305	-.1201	-.1847									
225.000	-.0215	.0069	.0893	.2313	.0068										
240.000	-.0236	.0069	.0732	.0612	-.0572	-.2150									
270.000	-.1019	-.0742	.0177	.0764	.4298	-.2095									
300.000	.0060	.0110	.0229	.0168	-.1871	-.1863									
330.000	.0085	.0115	.0089	-.0205	-.3809	-.2100									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) . EXTERNAL TANK

(RETT14)

ALPHAT(1) = -6.804 BETAT (5) = 4.425

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.4361	.7019	.7571	.6774	.4612	.0575	-.2020	-.2603	-.3148	-.3033	-.0452	-.0121	-.0017	-.1528	-.1959
30.000		.7165	.8086	.6257	.4320	.0467	-.2063	-.2661	-.3161	-.2978	-.0221	-.0297	-.1770	-.1682	-.1778
60.000		.7100	.7695	.6573	.4480	.0504	-.2042	-.2661	-.3164	-.0684	-.0607	-.0300	-.4994	-.2391	-.1643
90.000		.7363	.7276	.7213	.4901	.0854	-.1907	-.2470	-.3024	.0504	.4746	-.0222	-.5822	-.3264	-.3180
120.000		.7590	.7050	.7887	.5712	.1470	-.1424	-.1956	-.2556	.0844	.1230	.4315	.1504	.1312	-.0151
135.000			.7422	.8413	.6228	.2065	-.1029	-.1564	-.2361	-.0371	.1297	.2242	.2413	.0776	-.0769
147.000		.7999	.8269	.8867	.6713	.2436	-.0611	-.1338	-.2163	-.1969	.1734	.2534	.2702	.0541	-.1600
162.000			1.0108	.9409	.7208	.2869	-.0293	-.1140	-.1735	-.1818	.1810	.2401	.4107	-.3853	-.1295
180.000	1.4361	.8616	1.2526	.9944	.7663	.3270	-.0190	-.0505	-.1654	-.1347	.2026	.2261	.5519	.2572	-.0480
198.000			1.4527	1.0358	.7174	.2964	.0666	-.0895	-.1047	-.0918	.2050	.2875	.4990	-.2227	-.1040
213.000		.8811	1.4041	1.0265	.0000	.0602	-.1727	.0307	-.1450	-.1617	.1877	.3319	.3751	-.2630	.1500
225.000			1.3720	1.0499	.7592	.2955	.0477	-.0750	-.1380	-.1021	.2268	.3117	.1123	.1220	.1214
240.000		.8696	1.3883	1.0191	.7647	.3485	-.0592	-.0483	-.1681	.0081	.2598	.3369	.0138	.1761	.1438
270.000		.8300	1.0237	.9334	.7143	.2746	-.0413	-.1242	-.2128	.2518	.6130	.0806	-.5599	-.1978	-.2073
300.000		.7701	.7377	.8256	.6016	.1850	-.1338	-.1865	-.2611	-.0860	.1813	-.0861	-.4735	-.2830	-.1753
330.000		.7546	.7034	.7429	.5144	.1013	-.1842	-.2380	-.3124	-.2881	-.0352	.0000		-.2571	-.1286
X/LT	.5528	.6340	.7423	.8506	.9264	.9830									
PHI															
.000	-.1197	-.0463	-.0356	-.0457	-.0410	-.3111									
30.000	-.0976	-.0359	-.0316	-.0367	.0332	-.3075									
60.000	-.0868	-.0626	-.0588	-.0107	.0818	-.3254									
90.000	-.0482	-.1823	-.1148	.0493	.4135	-.2975									
120.000	-.0515	-.1353	-.1724	.0725	.1022	-.3087									
135.000	-.0030	-.1606	-.1718	.1203	.1499										
147.000	.0381	-.1278	-.1984	.1424	.0919	-.2996									
162.000	-.0135	-.0889	-.2484	.1107	.1527										
180.000	-.0165	-.0375	-.2692	.0995	.2928	-.2960									
198.000	-.2688	-.1909	-.1329	.0480	.3572										
213.000	.0872	-.0301	-.0746	.0865	.1697	-.2972									
225.000	.0860	.0037	-.1059	.1366	.2341										
240.000	.0516	-.0124	-.0982	.0703	.2603	-.3239									
270.000	-.1847	-.1241	-.0811	.0110	.6658	-.3075									
300.000	-.0976	-.1328	-.0445	-.0288	.1861	-.3096									
330.000	-.1068	-.1015	-.0671	-.0768	.0316	-.3363									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB) LVAP(ELHL SEALED) EXTERNAL TANK

(RETT14)

ALPHAT(2) = -4.580 BETAT (4) = 4.391

SECTION (1)EXTERNAL TANK	DEPENDENT VARIABLE CP														
X/LT	.0000	.0092	.0184	.0400	.0844	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.4378	.7524	.8213	.7364	.5102	.0962	-.1778	-.2415	-.3020	-.2854	-.0100	.0012	.0166	-.1330	-.1851
30.000		.6872	.8232	.6882	.4810	.0725	-.1938	-.2567	-.3104	-.2906	-.0045	-.0042	-.1521	-.1560	-.1860
60.000		.6779	.8107	.6857	.4773	.0716	-.1892	-.2511	-.3085	-.0473	-.0267	.0495	-.4576	-.2313	-.1156
90.000		.7275	.8461	.7312	.5040	.0894	-.1873	-.2421	-.3004	.0829	.5168	.0266	-.4586	-.3258	-.3358
120.000		.7632	.8660	.7847	.5627	.1315	-.1545	-.2130	-.2712	.0886	.0957	.3585	.0614	.1049	-.0491
135.000			.8682	.8246	.5956	.1807	-.1325	-.1826	-.2523	-.0306	.1181	.1708	.2174	.0337	-.1020
147.000		.7927	.8741	.8577	.6353	.2117	-.0993	-.1591	-.2408	-.2161	.1336	.2261	.2249	.0355	-.2229
162.000			.9474	.9017	.6740	.2458	-.0652	-.1476	-.2106	-.2091	.1561	.2131	.3758	-.3862	-.1817
180.000	1.4378	.8322	1.0502	.9459	.7072	.2833	-.0625	-.0932	-.2013	-.1711	.1600	.2034	.5161	.2286	-.0743
198.000			1.2203	.9874	.6611	.2550	.0199	-.1280	-.1448	-.1270	.1606	.2522	.4560	-.2387	-.1448
213.000		.8548	1.2101	1.0016	.0000	.0397	-.1938	-.0118	-.1771	-.1914	.1549	.2789	.3539	-.2557	.1358
225.000			1.2120	1.0115	.7207	.2858	.0286	-.1119	-.1516	-.1215	.1731	.2852	.0318	.0749	.0819
240.000		.8716	1.1761	1.0057	.7444	.3401	-.0448	-.0659	-.1844	-.0150	.2278	.2709	-.0999	.1075	.1278
270.000		.8598	1.0319	.9539	.7257	.2821	-.0383	-.1122	-.2121	.2463	.6268	.0834	-.4714	-.2780	-.2269
300.000		.8076	.9181	.8701	.6439	.2172	-.1083	-.1727	-.2410	-.0360	.1215	.0082	-.4274	-.2623	-.1442
330.000		.7763	.8546	.7914	.5662	.1417	-.1538	-.2116	-.2888	-.2669	.0021	.0000	-.2393	-.1130	
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.1329	-.0484	-.0314	-.0391	-.0389	-.3021									
30.000	-.1071	-.0389	-.0286	-.0298	.0232	-.2991									
60.000	-.0678	-.0533	-.0519	.0049	.0756	-.3137									
90.000	-.0478	-.1640	-.1114	.0676	.4499	-.2775									
120.000	-.0595	-.1284	-.1740	.1040	.1179	-.2942									
135.000	-.0020	-.1454	-.1516	.1505	.1666										
147.000	.0428	-.1222	-.1867	.1648	.1109	-.2881									
162.000	-.0162	-.1018	-.2592	.1350	.1456										
180.000	-.0349	-.0497	-.2669	.1272	.2772	-.3000									
198.000	-.2943	-.1919	-.1322	.0748	.3604										
213.000	.0788	-.0395	-.0714	.1083	.2215	-.3121									
225.000	.0601	-.0088	-.1028	.1389	.2647										
240.000	.0447	-.0060	-.1009	.0939	.2595	-.3073									
270.000	-.1409	-.1176	-.0615	.0388	.6878										
300.000	-.0899	-.1203	-.0397	-.0201	.1730	-.3045									
330.000	-.0859	-.0949	-.0661	-.0664	.0381	-.3185									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT14)

ALPHAT(3) = -2.368 BETAT (3) = 2.248

SECTION (1)EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.4399	.8018	.9150	.8083	.5707	.1444	-.1434	-.2089	-.2716	-.2624	.0332	.0341	.0607	-.0897	-.1618
30.000		.7784	.8714	.7770	.5534	.1324	-.1511	-.2182	-.2765	-.2682	.0362	.0086	-.1355	-.1318	-.1541
60.000		.7806	.8814	.7723	.5491	.1266	-.1492	-.2163	-.2768	-.0502	.0302	.1129	-.4262	-.2404	-.0913
90.000		.7676	.9053	.8052	.5657	.1385	-.1512	-.2101	-.2657	.1401	.5606	.0933	-.4156	-.2937	-.3188
120.000		.8111	1.0185	.8275	.5990	.1536	-.1295	-.1924	-.2563	.0315	.0998	.2649	-.0942	.0394	-.0161
135.000			1.0599	.8520	.6128	.1880	-.1224	-.1847	-.2405	-.2060	.1308	.1362	.1611	-.0037	-.0657
147.000		.8344	1.0944	.8659	.6356	.2058	-.1149	-.1679	-.2300	-.2276	.1375	.2070	.2382	.0915	-.2363
162.000			1.1387	.8867	.6500	.2279	-.0814	-.1471	-.2340	-.2194	.1424	.2058	.3111	-.3592	-.1833
180.000	1.4399	.8490	1.1780	.9075	.6596	.2623	-.0901	-.1381	-.2175	-.2020	.1363	.1629	.5040	.2073	-.0980
198.000			1.2261	.9279	.5811	.2285	-.0300	-.1700	-.1818	-.1742	.1150	.2052	.4156	-.2528	-.1673
213.000		.8462	1.2028	.9245	.0000	.0043	-.2355	-.0664	-.2191	-.2288	.0977	.2366	.2968	-.2463	.0917
225.000			1.2168	.9420	.6291	.2445	-.0331	-.1558	-.2041	-.1721	.1147	.2384	-.0978	.0178	.0049
240.000		.8500	1.2106	.9353	.6627	.2949	-.0929	-.201	-.2270	-.0642	.1539	.2170	-.1737	.0676	.0683
270.000		.8447	1.1858	.9156	.6777	.2365	-.0914	-.1365	-.2367	.1983	.5892	.0597	-.4039	-.2785	-.2748
300.000		.8444	1.1204	.8734	.6377	.2064	-.1078	-.1728	-.2578	-.0837	.1019	.0837	-.3747	-.2304	-.1042
330.000		.8363	1.0277	.8353	.6048	.1683	-.1357	-.1921	-.2721	-.2500	.0472	.0000		-.1772	-.1106
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.1245	-.0570	-.0122	-.0156	.0205	-.2864									
30.000	-.1023	-.0428	-.0196	-.0121	.0327	-.2879									
60.000	-.0481	-.0450	-.0491	.0121	.0674	-.2822									
90.000	-.0860	-.1350	-.0903	.0750	.5744	-.2794									
120.000	-.0542	-.0668	-.1468	.1410	.1715	-.2672									
135.000	.0012	-.1192	-.1381	.1839	.1847										
147.000	.0837	-.0979	-.1437	.1902	.1356	-.2727									
162.000	.0502	-.0712	-.2054	.1796	.1021										
180.000	-.0207	-.0426	-.1662	.1864	.1941	-.2889									
198.000	-.2547	-.2107	-.0903	.1656	.2517										
213.000	.0773	-.0246	-.0912	.1911	.2182	-.3026									
225.000	.0185	-.0175	-.1264	.1971	.2709										
240.000	-.0012	-.0122	-.1167	.1341	.2593	-.2892									
270.000	-.1143	-.1257	-.0679	.0592	.6448	-.2885									
300.000	-.0517	-.0823	-.0604	.0016	.1493	-.2907									
330.000	-.0875	-.0761	-.0386	-.0246	.0123	-.2977									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT14)

ALPHAT(4) = -.142 BETAT (3) = -2.018

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.4393	.8908	1.0020	.8554	.6206	.1871	-.1141	-.1813	-.2515	-.2372	.0655	.0476	.0830	-.0617	-.1294
30.000		.8918	1.0550	.8789	.6437	.2126	-.0960	-.1655	-.2357	-.2226	.0929	.0230	-.1225	-.1439	-.0843
60.000		.8983	1.1031	.8972	.6543	.2279	-.0806	-.1553	-.2264	-.0553	.1205	.1539	-.3851	-.2107	-.0680
90.000		.9008	1.1112	.9018	.6701	.2270	-.0906	-.1553	-.2223	.2181	.6228	.1546	-.3318	-.2612	-.2793
120.000		.8915	1.1022	.8907	.6637	.2132	-.0899	-.1519	-.2211	-.0635	.1309	.1394	-.2847	-.0601	-.0048
135.000			1.0932	.8876	.6514	.2129	-.0872	-.1546	-.2332	-.2144	.1038	.2492	.0709	.0572	-.0981
147.000		.8898	1.0855	.8827	.6523	.2012	-.0980	-.1680	-.2375	-.2092	.1093	.1379	.2765	.0788	-.1190
162.000			1.0628	.8709	.6326	.1733	-.1274	-.1677	-.2347	-.2290	.1120	.1673	.3464	-.2460	-.3057
180.000	1.4393	.8716	1.0417	.8542	.6065	.1942	-.0974	-.1918	-.2403	-.2399	.1184	.1692	.4052	.1809	-.1408
198.000			1.0324	.8446	.4992	.2015	-.0967	-.2065	-.2338	-.1980	.0704	.1546	.2984	-.2553	-.0668
213.000		.8458	1.0594	.7901	.0000	-.0806	-.2924	-.1376	-.2711	-.2226	.0564	.1782	.2332	-.2345	-.0152
225.000			.9950	.8459	.4759	.1503	-.1169	-.2233	-.2651	-.1646	.0947	.1304	.0117	-.0112	-.0922
240.000		.8315	.9359	.8302	.5238	.1840	-.1646	-.1975	-.2815	-.0106	.0680	.1949	-.1873	-.0324	-.0474
270.000		.8381	.9303	.8149	.5678	.1260	-.1580	-.2043	-.2727	.1367	.5277	.0542	-.2986	-.2409	-.1902
300.000		.8343	.9328	.8207	.5764	.1546	-.1438	-.1994	-.2718	-.0650	.0479	.1928	-.2816	-.1740	-.0720
330.000		.8368	.9572	.8358	.5979	.1638	-.1385	-.1981	-.2718	-.2444	.0613	.0000		-.0907	-.1278
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0956	-.0591	-.0147	-.0029	.0283	-.2632									
30.000	-.0585	-.0579	-.0280	.0028	.0392	-.2706									
60.000	-.0386	-.0404	-.0426	.0297	.1147	-.2620									
90.000	-.2180	-.1688	-.0818	.0927	.6363	-.2504									
120.000	.0188	-.0197	-.0824	.2192	.3738	-.2784									
135.000	.0283	-.0101	-.0926	.2812	.4286										
147.000	.0494	.0155	-.0608	.2785	.4612	-.3518									
162.000	-.0603	-.0380	-.0702	.2741	.4329										
180.000	-.0297	.0035	-.1415	.2354	.3535	-.2902									
198.000	-.1425	-.0825	-.0590	.1780	.2226										
213.000	-.0477	-.1017	-.0627	.1494	.0864	-.2914									
225.000	-.0401	-.0522	-.0671	.1624	.1448										
240.000	-.0689	-.0460	-.0823	.1420	.1615	-.2526									
270.000	-.1339	-.1155	-.0668	.0411	.4469	-.2610									
300.000	-.0499	-.0503	-.0317	.0155	.1235	-.2607									
330.000	-.0851	-.0586	-.0221	-.0094	.0647	-.2705									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 (AB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT14)

ALPHAT (4) = -.131 BETAT (5) = 4.353

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3994	.4445	.4987
PHI															
.000	1.4376	.8374	1.0073	.8389	.6141	.1854	-.1183	-.1816	-.2476	-.2360	.0605	.0401	.0696	-.0871	-.1415
30.000		.7506	.9874	.7885	.5634	.1405	-.1450	-.2141	-.2739	-.2592	.0477	.0368	-.0860	-.1147	-.1507
60.000		.7083	.8366	.7600	.5305	.1101	-.1632	-.2303	-.2892	-.0240	.0219	.1900	-.3345	-.1735	-.0631
90.000		.7286	.8360	.7262	.5148	.1055	-.1755	-.2296	-.2848	.1327	.6731	.1385	-.3258	-.2367	-.2650
120.000		.7143	.8534	.7609	.5339	.1005	-.1662	-.2290	-.2885	.0174	.0480	.2130	-.1298	-.0561	-.0650
135.000			.9237	.7795	.5308	.1181	-.1668	-.2219	-.2746	-.1216	.0945	.0904	.1289	-.0344	-.1593
147.000		.7740		.7962	.5625	.1393	-.1560	-.2024	-.2708	-.2467	.1036	.1692	.2081	.0248	-.3154
162.000			1.0247	.8179	.5773	.1731	-.1219	-.1926	-.2612	-.2531	.0997	.1531	.2860	-.3669	-.2300
180.000	1.4376	.7926	1.0780	.8495	.5890	.2094	-.1281	-.1625	-.2556	-.2302	.0921	.1689	.4406	.1707	-.1295
198.000			1.1430	.8901	.5192	.1788	-.0556	-.1893	-.2053	-.1892	.1076	.1919	.3681	-.2020	-.0972
213.000		.7998	1.0838	.8882	.0000	-.0202	-.2603	-.0781	-.2357	-.2363	.0736	.2062	.2773	-.2370	.0738
225.000			1.1535	.9337	.6511	.2755	-.0191	-.1526	-.1804	-.1581	.1055	.1891	-.0970	.0570	.0026
240.000		.8147	1.2288	.9549	.6939	.3158	-.0643	-.1256	-.1992	-.0106	.1891	.1332	-.2959	.0054	.0509
270.000		.8133	1.2294	.9642	.7376	.2740	-.0549	-.1060	-.1916	.2477	.6355	.0919	-.3235	-.2579	-.2198
300.000		.8114	1.2065	.9429	.7133	.2743	-.0526	-.1200	-.2062	-.0422	.1849	.1537	-.3322	-.1906	-.0637
330.000		.8176	1.1151	.8940	.6695	.2294	-.0665	-.1448	-.2287	-.2089	.1000	.0000	-.1651	-.0734	
X/LT	.5528	.6340	.7423	.8506	.9264	.9839									
PHI															
.000	-.1023	-.0623	-.0258	-.0249	.0141	-.2664									
30.000	-.0884	-.0402	-.0239	-.0078	.0190	-.2652									
60.000	-.0574	-.0362	-.0381	.0186	.1191	-.2652									
90.000	-.1090	-.1316	-.0880	.0660	.5723	-.2615									
120.000	-.0783	-.0685	-.1155	.1656	.1513	-.2661									
135.000	-.0341	-.0969	-.0756	.2171	.2012										
147.000	.0058	-.0951	-.0889	.2261	.1492	-.2682									
162.000	-.0375	-.1047	-.2408	.1967	.1422										
180.000	-.1241	-.0654	-.2228	.2007	.2648	-.2873									
198.000	-.3248	-.1657	-.0913	.1765	.4056										
213.000	.0307	-.0338	-.0398	.2131	.3442	-.2946									
225.000	.0531	.0185	-.0686	.2207	.3798										
240.000	.0540	-.0056	-.0612	.1869	.3935	-.2834									
270.000	-.2254	-.1688	-.0391	.0570	.6600	-.2786									
300.000	-.0332	-.0508	-.0584	.0026	.1604	-.2776									
330.000	-.0522	-.0710	-.0435	-.0339	.0153	-.2928									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT14)

ALPHAT(5) = 2.078 BETAT (3) = 2.236

SECTION (1)EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.4372	.9168	1.0821	.9027	.6726	.2345	-.0768	-.1502	-.2234	-.2142	.1059	.0607	.1179	-.0469	-.1125
30.000		.8219	1.1288	.8649	.6360	.2017	-.0989	-.1712	-.2380	-.2281	.0974	.0664	-.0653	-.0859	-.1042
60.000		.8104	1.0132	.8340	.5964	.1661	-.1200	-.1914	-.2588	-.0285	.0734	.2427	-.3559	-.1339	-.0501
90.000		.7757	.8960	.8058	.5712	.1422	-.1564	-.2146	-.2709	.1445	.5586	.1344	-.2985	-.2207	-.0784
120.000		.7872	.8917	.7745	.5534	.1235	-.1530	-.2109	-.2746	-.0424	.0561	.1281	-.1796	-.1231	-.0962
135.000			.8954	.7776	.5478	.1250	-.1548	-.2177	-.2793	-.2351	.0789	.1694	.1204	.0064	-.2047
147.000		.7828	.8842	.7860	.5555	.1195	-.1629	-.2186	-.2684	-.2613	.0883	.1601	.2229	.0842	-.3044
162.000			.8916	.8012	.5528	.1275	-.1508	-.1986	-.2840	-.2570	.0907	.1539	.2571	-.3359	-.1832
180.000	1.4372	.7791	.9306	.8173	.5442	.1710	-.1511	-.2020	-.2725	-.2515	.0652	.1201	.4166	.1446	-.1457
198.000			.9997	.8405	.4526	.1520	-.1010	-.2306	-.2377	-.2202	.0640	.1639	.3299	-.2185	-.1602
213.000		.8343	.9646	.8306	.0000	-.0501	-.2929	-.1331	-.2709	-.2604	.0352	.1710	.2620	-.2287	.0286
225.000			1.0278	.8618	.5629	.2271	-.0842	-.2011	-.2324	-.2020	.0549	.1555	-.1144	.0615	-.0839
240.000		.8582	1.1256	.8830	.6111	.2332	-.1096	-.1886	-.2409	-.0671	.1129	.0695	-.2517	-.0999	-.0553
270.000		.8582	1.1600	.9122	.6799	.2210	-.0889	-.1619	-.2236	-.1992	.5932	.0695	-.2926	-.2100	-.0652
300.000		.8582	1.1956	.9288	.6965	.2599	-.0728	-.1356	-.2148	-.1078	.1450	.2303	-.2644	-.1423	-.0403
330.000		.8665	1.1665	.9233	.6954	.2523	-.0765	-.1405	-.2208	-.1973	.1296	.0000		-.1045	-.0569
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0762	-.0495	-.0226	-.0027	.0360	-.2558									
30.000	-.0673	-.0458	-.0238	.0066	.0311	-.2667									
60.000	-.0464	-.0388	-.0315	.0413	.1071	-.2600									
90.000	-.0470	-.0714	-.0578	.0909	.4086	-.2521									
120.000	-.0256	-.0417	-.0900	.1948	.2305	-.2591									
135.000	-.0158	-.0464	-.0841	.2484	.2378										
147.000	-.0409	-.0086	-.0618	.2549	.1934	-.2512									
162.000	-.1341	-.0442	-.0927	.2484	.1345										
180.000	-.1329	-.0294	-.0186	.2568	.2150	-.2837									
198.000	-.2470	-.1785	.0078	.2441	.2648										
213.000	.0088	.0006	-.0127	.2618	.2679	-.2880									
225.000	-.0099	.0136	-.0465	.2478	.3147										
240.000	-.0050	-.0006	-.0493	.1952	.2983	-.2649									
270.000	-.0630	-.0869	-.0586	.0466	.4715	-.2682									
300.000	-.0151	-.0451	-.0294	.0366	.0940	-.2688									
330.000	-.0381	-.0563	-.0254	.0035	.0464	-.2849									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT14)

ALPHAT(6) = 4.264 BETAT (3) = .118

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2322	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.4374	.8518	1.1441	.9515	.7311	.2827	-.0405	-.1121	-.1883	-.1784	.1510	.0740	.1465	-.0105	-.0793
30.000		.8063	1.2580	.9302	.7096	.2683	-.0516	-.1220	-.1964	-.1865	.1504	.0979	-.0360	-.0563	-.0713
60.000		.8122	1.1680	.8897	.6630	.2300	-.0751	-.1482	-.2233	-.0345	.1388	.2870	-.2998	-.1246	-.0200
90.000		.8088	1.0686	.8403	.6102	.1835	-.1204	-.1837	-.2497	.1672	.5824	.0947	-.2994	-.1989	-.0326
120.000		.7744	.9486	.7955	.5679	.1387	-.1494	-.2075	-.2686	-.0654	.0479	.0336	-.1752	-.1747	-.1115
135.000			.8920	.7862	.5431	.1308	-.1538	-.2096	-.2797	-.2531	.0510	.1818	.0436	.0236	-.1711
147.000		.7333	.8419	.7776	.5391	.1167	-.1584	-.2248	-.2837	-.2619	.0698	.1334	.1852	.0721	-.2632
162.000			.8375	.7597	.5259	.0931	-.1769	-.2165	-.2953	-.2698	.0716	.1393	.2196	-.2431	-.1585
180.000	1.4374	.7552	.8526	.7495	.5014	.1194	-.1593	-.2320	-.2822	-.2704	.0595	.1210	.4071	.1139	-.1548
198.000			.8459	.7773	.3897	.1176	-.1359	-.2552	-.2636	-.2458	.0404	.1278	.3099	-.2115	-.1493
213.000		.7299	.8363	.7665	.0000	-.0954	-.3100	-.1676	-.2968	-.2732	.0104	.1492	.2298	-.2100	-.0338
225.000			.8953	.7934	.4965	.1709	-.1291	-.2326	-.2683	-.2143	.0110	.1303	-.0835	.0239	-.1167
240.000		.7859	1.0241	.8151	.5431	.1494	-.1430	-.2215	-.2735	-.0785	.0513	.0120	-.1707	-.2092	-.0817
270.000		.8081	1.0865	.8581	.6167	.1762	-.1136	-.1840	-.2638	.1569	.5494	.0325	-.2756	-.1868	-.0307
300.000		.8152	1.1724	.9041	.6713	.2432	-.0877	-.1521	-.2246	-.0922	.1373	.3238	-.1837	-.1185	-.0200
330.000		.8100	1.2595	.9439	.7123	.2680	-.0547	-.1217	-.2067	-.1838	.1443	.0000		-.0455	-.0695
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0603	-.0329	-.0194	.0234	.0458	-.2447									
30.000	-.0366	-.0342	-.0188	.0297	.0425	-.2520									
60.000	-.0133	-.0329	-.0194	.0610	.0854	-.2535									
90.000	-.0008	-.0315	-.0240	.1261	.2444	-.2514									
120.000	.0044	-.0083	-.0457	.2085	.2961	-.2438									
135.000	.0035	.0152	-.0379	.4488	.3356										
147.000	.0149	.0362	-.0287	.3527	.3113	-.2353									
162.000	-.1538	.0272	-.0603	.3180	.2766										
180.000	-.1314	.0143	.0303	.2944	.2222	-.2447									
198.000	-.1559	-.0816	.0578	.2668	.1538										
213.000	-.0495	.0010	.0299	.2619	.1517	-.2435									
225.000	-.0302	-.0003	.0076	.2894	.2119										
240.000	-.0029	-.0034	.0036	.1899	.2100	-.2296									
270.000	-.0093	-.0346	-.0020	.1139	.2870	-.2236									
300.000	-.0151	-.0469	-.0119	.0428	.0939	-.2377									
330.000	-.0427	-.0506	-.0190	.0179	.0608	-.2453									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 1A81 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT14)

ALPHAT(7) = 6.483 BETAT (2) = -1.984

SECTION (1)EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.4350	.6831	1.1354	.9957	.7817	.3283	-.0056	-.0771	-.1576	-.1520	.1896	.0724	.1669	.0128	-.0437
30.000		.7629	1.4184	.9965	.7872	.3326	.0014	-.0768	-.1563	-.1453	.2075	.1377	-.0200	-.0331	-.0390
60.000		.7753	1.2080	.9467	.7365	.2869	-.0308	-.1071	-.1952	-.0031	.1990	.3386	-.2401	-.1285	-.0200
90.000		.7793	.9951	.8675	.6539	.2123	-.0951	-.1588	-.2285	.2026	.5865	.0964	-.3715	-.2318	-.0194
120.000		.7480	.9153	.7846	.5701	.1325	-.1489	-.2104	-.2766	-.0613	.0572	-.0902	-.2231	-.1983	-.0842
135.000			.8908	.7542	.5275	.1214	-.1767	-.2243	-.2865	-.2536	-.0038	.0486	-.0836	-.0228	-.1697
147.000		.7414	.8700	.7354	.5097	.1018	-.1817	-.2361	-.2989	-.2872	.0372	.0508	.1461	.1080	-.1605
162.000			.8451	.7144	.4864	.0656	-.2039	-.2515	-.2998	-.2180	.0366	.0955	.2004	-.0299	-.2881
180.000	1.4350	6788	.8054	.6865	.4584	.0637	-.1891	-.2593	-.3051	-.0466	.0311	.0781	.2959	.0411	-.0412
198.000			.7869	.6704	.3359	.0647	-.1690	-.2763	-.2865	-.0868	.0172	.0645	.2308	-.1844	.0203
213.000		.6769	.7947	.6657	.0000	-.1422	-.3329	-.2053	-.3218	-.1839	.0202	.1113	.1716	-.2079	-.0454
225.000			.8272	.7114	.4394	.1086	-.1699	-.2648	-.3036	-.1297	-.0062	.0921	-.0693	-.0409	-.1030
240.000		.7265	.9262	.7350	.4842	.0619	-.1808	-.2537	-.3093	-.0591	-.0059	-.0327	-.1639	-.1897	-.0805
270.000		.7183	.9522	.7857	.5548	.1353	-.1535	-.2081	-.2056	.0952	.4845	-.0038	-.3264	-.2401	-.0569
300.000		.6835	1.2288	.8541	.6319	.2074	-.1068	-.1644	-.2521	.0100	.1204	.4389	-.1072	-.1018	-.0326
330.000		.6618	1.2461	.9426	.7207	.2728	-.0481	-.1083	-.1998	-.1796	.1444	.0000		-.0181	-.0623
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0485	-.0209	-.0274	.0078	.0614	-.2467									
30.000	-.0086	-.0098	-.0215	.0336	.0782	-.2479									
60.000	.0154	-.0052	-.0066	.0808	.1417	-.2437									
90.000	.0092	.0061	.0175	.1755	.2917	-.2437									
120.000	.0240	.0212	.0141	.2481	.2704	-.2309									
135.000	.0353	.0296	.0336	.3617	.3869										
147.000	.0154	.0646	.0624	.3471	.3808	-.2309									
162.000	-.1087	.0265	.0105	.3381	.3480										
180.000	-.1511	.0386	.0085	.3093	.3188	-.2613									
198.000	-.1050	-.0358	.0761	.2425	.2257										
213.000	-.1281	-.0277	.0600	.2317	.1256	-.2795									
225.000	-.0519	-.0113	.0516	.2076	.1658										
240.000	-.0230	-.0138	.0497	.1871	.1429	-.2434									
270.000	-.0356	-.0342	.0258	.1579	.3857	-.2373									
300.000	-.0245	-.0500	-.0068	.0417	.1794	-.2276									
330.000	-.0467	-.0534	-.0189	.0106	.0814	-.2428									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT15) (04 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = .900 RN/FT = 2.250
ELV-1B = 8.000 ELV-0B = 6.000
RUDDER = .000 SPDBRK = .000

ALPHAT(1) = -6.591 BETA(1) = -4.039

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

Table with columns X/LT and PHI, and rows for various values (0.000 to 330.000) under two sections: EXTERNAL TANK and PH I.

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT15)

ALPHAT(1) = -6.565 BETAT (3) = .141

SECTION (1)EXTERNAL TANK		DEPENDENT VARIABLE CP														
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987	
PHI																
.000	1.1592	.5832	.5893	.4357	.1976	-.2757	-.5794	-.2901	-.1344	-.0308	.0845	-.1995	-.2945	-.1475	-.0682	
30.000		.5642	.5555	.4656	.2164	-.2610	-.5527	-.2977	-.1385	-.0301	.0811	-.3169	-.4133	-.1904	-.0825	
60.000		.5422	.3684	.5024	.2626	-.2171	-.3441	-.2447	-.1032	.0015	.1242	-.5255	-.5496	-.3470	-.1290	
90.000		.5623	.6439	.5831	.3439	-.1415	-.2375	-.0885	.1014	.2494	.4467	-.5782	-.5984	-.4277	-.2645	
120.000		.6512	.7560	.6751	.4473	-.0577	-.2337	-.1253	.0713	.2506	.4186	-.0383	-.0591	-.2282	-.2149	
135.000			.8114	.7232	.4890	.0051	-.2416	-.1598	.0177	.1956	.3740	.0988	.0445	-.2844	-.2121	
147.000		.7150	.8425	.7524	.5221	.0355	-.2306	-.1742	-.0062	.1702	.3817	.1693	.1214	-.3508	-.1832	
162.000			.9081	.7774	.5477	.0509	-.2306	-.1807	-.0268	.1510	.3890	.2538	.1625	-1.0269	-.2623	
180.000	1.1592	.7805	.9418	.7984	.5545	.0599	-.2231	-.1777	-.0275	.1445	.3921	.3208	.2441	-.4028	-.2398	
198.000			.9547	.7789	.4856	.0332	-.2613	-.1591	-.0184	.1391	.3347	.2935	.2026	-.9368	-.3223	
213.000		.7093	1.0342	.6524	.0000	-.3272	-.5365	-.0549	-.0275	.0941	.3162	.2314	.0923	-.2580	-.2215	
225.000			.9513	.7456	.4195	-.0404	-.2890	-.1298	.0122	.1633	.3520	.1265	-.0252	-.3264	-.2368	
240.000		.6307	.9058	.6861	.4157	-.0415	-.2416	-.1199	.0630	.2306	.3597	-.0126	-.0754	-.2494	-.2166	
270.000		.5536	.7149	.5902	.3461	-.1400	-.2363	-.0880	.0883	.2379	.4325	-.6775	-.5011	-.4626	-.2713	
300.000		.5365	.5971	.5116	.2634	-.2095	-.3542	-.2480	-.1066	-.0043	.1188	-.3034	-.4705	-.3414	-.1244	
330.000		.5581	.5361	.4668	.2178	-.2670	-.5585	-.2978	-.1488	-.0259	.0761	.0000		-.1875	-.0847	
X/LT	.5528	.6340	.7423	.8506	.9264	.9838										
PHI																
.000	-.0191	-.0049	-.0098	-.0375	-.3037	-.2942										
30.000	-.0258	-.0116	-.0174	-.0356	-.3148	-.3348										
60.000	-.0322	-.0097	-.0098	-.0080	-.1697	-.3313										
90.000	-.0630	-.0275	-.0094	-.0262	.5041	-.3033										
120.000	-.0633	.0020	.0601	-.0084	.0589	-.2945										
135.000	-.0697	.0027	.0737	.2533	.1069											
147.000	-.0371	.0330	.1016	.1436	.0044	-.2957										
162.000	-.1027	-.0166	.0598	.0960	-.0323											
180.000	-.1151	-.0249	.0617	.0884	-.0143	-.2945										
198.000	-.1835	-.0771	.0776	.0479	-.1133											
213.000	-.0726	-.0094	.0969	.0442	-.1283	-.3122										
225.000	-.0824	.0031	.0738	.1171	-.0185											
240.000	-.0719	.0023	.0609	-.0066	.0274	-.2999										
270.000	-.0704	-.0204	-.0065	-.0376	.4446	-.3104										
300.000	-.0356	-.0204	-.0084	-.0146	-.1726	-.3276										
330.000	-.0277	-.0215	-.0156	-.0449	-.3076	-.3421										

ORIGINAL PAGE OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT15)

ALPHAT (3) = -2.262 BETAT (1) = -6.155

SECTION (1)	EXTERNAL TANK														
	DEPENDENT VARIABLE CP														
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.1587	.5107	.5819	.5463	.3034	-.1827	-.5086	-.5315	-.1448	-.0269	.1262	-.1895	-.2240	-.1460	-.0798
30.000		.6304	.6235	.6188	.3869	-.0993	-.4026	-.4038	-.1667	-.0284	.1561	-.3366	-.2705	-.1541	-.0771
60.000		.6867	.7526	.7071	.4786	-.0111	-.2505	-.1994	-.0648	.0713	.2608	-.4619	-.3949	-.2224	-.0801
90.000		.7414	.8930	.7697	.5415	.0558	-.1383	-.0344	.1379	.3081	.5640	-.5021	-.4326	-.3128	-.1978
120.000		.7569	.9100	.7761	.5576	.0558	-.1662	-.1084	.0470	.2031	.4068	-.2097	-.0109	-.0760	-.1077
135.000			.9017	.7595	.5292	.0472	-.2092	-.1658	-.0193	.1389	.3419	-.0162	.1128	-.0801	-.1093
147.000		.7309	.8192	.7388	.5059	.0247	-.2488	-.2085	-.0489	.1079	.3266	.1005	.1828	-.1291	-.0806
162.000			.7634	.7033	.4665	-.0212	-.3151	-.2404	-.0826	.0845	.3124	.2123	.2224	-.8338	-.2090
180.000	1.1587	.6674	.7153	.6532	.4151	-.0728	-.3799	-.2869	-.0890	.0799	.2948	.2686	.1940	-.4835	-.3158
198.000			.6903	.6056	.3108	-.1681	-.2989	-.2098	-.0652	.0953	.2691	.2305	.1060	-.8600	-.3139
213.000		.6070	.7845	.4220	.0000	-.5899	-.6656	-.1429	-.0731	.0612	.2304	.1328	-.0600	-.2741	-.3316
225.000			.6950	.5467	.1822	-.2828	-.4048	-.1584	-.0108	.1335	.2883	.0454	-.1384	-.4221	-.2920
240.000		.5738	.5746	.5164	.2171	-.2404	-.2668	-.1131	.0598	.1986	.2744	-.1078	-.1547	-.3143	-.2331
270.000		.5626	.5900	.4696	.2167	-.2696	-.1824	-.0288	.1481	.3143	.5086	-.5620	-.4220	-.3720	-.1282
300.000		.5603	.5888	.4659	.2111	-.2592	-.3823	-.1289	-.0144	.1175	.2805	-.3199	-.3208	-.2694	-.0821
330.000		.5440	.5749	.4898	.2427	-.2468	-.5658	-.2325	-.0911	.0372	.1243	.0000		-.1491	-.0747
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0461	-.0375	-.0347	-.0570	-.3279	-.3330									
30.000	-.0428	-.0409	-.0336	-.0384	-.3041	-.3503									
60.000	-.0243	-.0074	.0105	.0321	.1211	-.3122									
90.000	-.0514	-.0134	.0112	-.0155	.4604	-.3053									
120.000	-.0382	.0245	.1229	.1460	.1944	-.3010									
135.000	-.0341	.0256	.1419	.3634	.3113										
147.000	.0118	.0575	.1777	.2979	.2886	-.3060									
162.000	-.0988	-.0172	.1222	.2507	.2208										
180.000	-.1440	-.0571	.0815	.1856	.1227	-.2930									
198.000	-.1912	-.0392	.1233	.0599	.0273										
213.000	-.2439	-.1349	.0659	.0054	-.1666	-.2968									
225.000	-.1498	.0400	.0461	.0868	-.0720										
240.000	-.1132	-.0332	.0480	.0280	-.0670	-.3014									
270.000	-.0330	-.0131	.0206	.0249	.2743	-.3198									
300.000	-.0183	-.0165	.0005	-.0093	-.1901	-.3298									
330.000	-.0334	-.0271	-.0132	-.0389	-.3003	-.3256									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT15)

ALPHAT(4) = -.108 BETAT (3) = .112

SECTION (1)EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.1616	.7188	.8376	.6113	.3704	-.1266	-.4644	-.2792	-.1388	.0067	.1743	-.1434	-.2444	-.0999	-.0432
30.000		.5763	.9320	.6094	.3695	-.1292	-.4515	-.2727	-.1078	.0372	.1882	-.2257	-.3302	-.1120	-.0500
60.000		.5812	.8208	.6140	.3712	-.1266	-.2853	-.1755	-.0059	.1348	.2636	-.3711	-.3638	-.2128	-.0822
90.000		.6344	.7138	.6193	.3746	-.1209	-.2106	-.0577	.1430	.3215	.5473	-.3661	-.5157	-.2185	-.0739
120.000		.6676	.6871	.6208	.3829	-.1273	-.2491	-.1435	.0380	.1834	.3161	-.2223	-.1150	-.1527	-.1215
135.000			.6959	.6288	.3784	-.1137	-.2796	-.1927	-.0189	.1344	.2709	-.0311	-.0128	-.2147	-.1366
147.000		.6821	.6959	.6277	.3833	-.1111	-.2888	-.2220	-.0471	.1124	.2717	.0750	.0651	-.2941	-.1120
162.000			.6943	.6315	.3840	-.1179	-.3136	-.2396	-.0708	.0951	.2725	.1818	.1271	-.7712	-.1869
180.000	1.1616	.6753	.6897	.6319	.3753	-.1224	-.3471	-.2422	-.0765	.0897	.2620	.2509	.2096	-.4888	-.2114
198.000			.7012	.6361	.2929	-.1610	-.3830	-.2128	-.0712	.0719	.2253	.2162	.1609	-.7252	-.2526
213.000		.6646	.7065	.6174	.0000	-.4640	-.5969	-.1155	-.0972	.0430	.2628	.1471	.0587	-.2382	-.1634
225.000			.7442	.6344	.3228	-.1814	-.3555	-.1685	-.0315	.1059	.2222	.0082	-.0543	-.2205	-.1521
240.000		.6271	.7861	.6326	.3519	-.1152	-.2701	-.1384	.0237	.1726	.3150	-.2020	-.1025	-.1445	-.1362
270.000		.5904	.8386	.6276	.3803	-.1201	-.2136	-.0571	.1305	.3115	.5419	-.5725	-.4526	-.2050	-.0829
300.000		.5881	.9117	.6201	.3761	-.1156	-.2514	-.1766	-.0106	.1298	.2663	-.3119	-.2611	-.1952	-.0878
330.000		.6493	.9003	.6148	.3734	-.1281	-.4482	-.2758	-.1206	.0336	.1840	.0000		-.1083	-.0482
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0150	-.0123	-.0014	-.0100	-.2515	-.2824									
30.000	-.0187	-.0127	-.0014	-.0028	-.2411	-.3009									
60.000	-.0176	.0009	.0188	.0327	-.1089	-.2854									
90.000	-.0489	-.0295	.0398	.0762	.3768	-.2612									
120.000	-.0610	.0002	.0725	.0640	.0183	-.2600									
135.000	-.0603	.0108	.0931	.2605	.1128										
147.000	-.0354	.0348	.1258	.1815	.0322	-.2604									
162.000	-.0882	.0002	.0980	.1373	-.0541										
180.000	-.0958	-.0063	.0957	.1254	-.0580	-.2654									
198.000	-.1811	-.0676	.1144	.1010	-.1355										
213.000	-.0618	-.0056	.1277	.1067	-.0896	-.2739									
225.000	-.0656	.0070	.0976	.1956	.0480										
240.000	-.0705	-.0037	.0747	.0684	.0075	-.2781									
270.000	-.0603	-.0292	.0442	.0715	.3564	-.2932									
300.000	-.0267	-.0097	.0198	.0260	-.1058	-.2870									
330.000	-.0218	-.0158	.0003	-.0040	-.2199	-.3159									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT15)

ALPHAT(4) = -.065 BETAT (5) = 6.401

SECTION (1)EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.1611	.4803	.6867	.5847	.3462	-.1452	-.4689	-.5038	-.1637	-.0297	.1453	-.1688	-.1977	-.1357	-.0710
30.000		.4990	.7034	.5042	.2654	-.2162	-.5424	-.2394	-.0941	.0335	.1549	-.1893	-.3473	-.1308	-.0635
60.000		.5044	.6040	.4658	.2166	-.2607	-.3909	-.1302	.0306	.1450	.2148	-.3074	-.4009	-.1849	-.0797
90.000		.5513	.5987	.4437	.2030	-.2721	-.1840	-.0244	.1659	.3378	.5217	-.5317	-.5532	-.1860	-.0508
120.000		.5635	.5808	.4662	.2238	-.2664	-.2358	-.1093	.0679	.1994	.2728	-.1642	-.1790	-.2099	-.1444
135.000			.5872	.4890	.2393	-.2343	-.3448	-.1652	.0058	.1490	.2334	.0006	-.1126	-.3200	-.2190
147.000		.5547	.5636	.5087	.2689	-.2128	-.4594	-.1987	-.0392	.1147	.2307	.0728	-.0518	-.4607	-.2888
162.000			.5893	.5437	.2983	-.1837	-.4709	-.2354	-.0766	.0809	.2442	.1453	-.0048	-.7684	-.2664
180.000	1.1611	.5543	.6471	.5912	.3387	-.1400	-.4309	-.2648	-.1032	.0543	.2195	.2338	.1788	-.5342	-.3788
198.000			.7662	.6566	.3013	-.1172	-.4092	-.2373	-.1174	.0385	.2404	.2156	.2109	-.7029	-.3493
213.000		.6653	.6821	.6342	.0000	-.4154	-.5905	-.1201	-.1978	.0046	.2470	.1696	.1602	-.2693	-.0243
225.000			.7746	.7252	.4681	-.0478	-.2827	-.1675	-.0733	.0801	.2856	-.0180	.0342	-.0868	-.0699
240.000		.7340	.8785	.7568	.5036	.0314	-.1959	-.1308	.0042	.1556	.3555	-.2482	-.0392	-.0480	-.0642
270.000		.7613	.9139	.7872	.5545	.0589	-.1370	-.0354	.1299	.3012	.5659	-.5558	-.3813	-.1945	-.0767
300.000		.7289	.8869	.7564	.5221	.0355	-.2268	-.1751	-.0359	.1070	.3026	-.3564	-.2235	-.1708	-.0665
330.000		.6710	.7206	.6745	.4423	-.0523	-.3695	-.3556	-.1724	-.0163	.1752	.0000		-.1282	-.0611
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0495	-.0371	-.0276	-.0467	-.2918	-.3233									
30.000	-.0318	-.0205	-.0109	-.0216	-.2761	-.3264									
60.000	-.0322	-.0156	.0042	.0092	-.1165	-.2980									
90.000	-.0930	-.0693	.0270	.0631	.3424	-.3210									
120.000	-.0814	-.0325	.0455	.0422	-.0566	-.3064									
135.000	-.1133	-.0393	.0641	.1779	.0508										
147.000	-.1103	-.0393	.0671	.1604	-.0290	-.3041									
162.000	-.1614	-.0818	.0286	.1034	-.1119										
180.000	-.2182	-.1037	.0236	.1148	.0961	-.3702									
198.000	-.4583	-.2875	.1460	.1456	.3639										
213.000	-.0318	-.0105	.1828	.2090	.1594	-.3387									
225.000	-.0243	.0380	.1437	.2799	.2431										
240.000	-.0277	.0327	.1323	.1709	.1544	-.2926									
270.000	-.0153	.0103	.0692	.0873	.4288	-.3230									
300.000	-.0149	-.0011	.0312	.0451	-.1134	-.3030									
330.000	-.0442	-.0336	-.0155	-.0229	-.2542	-.3160									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT15)

ALPHAT (5) = 2.077 BETAT (2) = -1.990

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.1635	.5959	.8004	.6692	.4318	-.0672	-.4171	-.3550	-.1374	.0190	.2156	-.1173	-.1934	-.0955	-.0365
30.000		.5940	1.0114	.6889	.4526	-.0497	-.3708	-.2851	-.1039	.0502	.2391	-.2035	-.2653	-.0993	-.0346
60.000		.6657	.7574	.6897	.4495	-.0497	-.2621	-.1667	.0088	.1620	.3213	-.3206	-.2698	-.1596	-.0625
90.000		.6844	.6638	.6718	.4257	-.0729	-.2028	-.0611	.1379	.3122	.5556	-.3535	-.4551	-.2336	-.0576
120.000		.6684	.6387	.6347	.3902	-.1163	-.2690	-.1617	.0012	.1361	.2850	-.3136	-.1275	-.1372	-.0848
135.000			.6338	.6180	.3659	-.1216	-.3307	-.2111	-.0517	.0908	.2349	-.0891	.0204	-.1395	-.1028
147.000		.6604	.6360	.6051	.3565	-.1355	-.3798	-.2308	-.0754	.0758	.2337	.0452	.0889	-.2321	-.0704
162.000			.543	.5895	.3339	-.1650	-.4780	-.2457	-.0883	.0685	.2318	.1669	.1550	-.7853	-.1571
180.000	1.1635	.6470	.6627	.5713	.3112	-.1876	-.4152	-.2461	-.0814	.0701	.2275	.2354	.2047	-.5683	-.2028
198.000			.6635	.5633	.2192	-.2609	-.3768	-.2171	-.0696	.0574	.1603	.1905	.1201	-.6544	-.2254
213.000		.5933	.6661	.5421	.0000	-.5730	-.6028	-.1427	-.0696	.0274	.2343	.1232	.0241	-.2552	-.1963
225.000			.7110	.5581	.2320	-.2986	-.3604	-.1790	-.0361	.0893	.1869	-.0127	-.0917	-.2619	-.1519
240.000		.5879	.7795	.5584	.2765	-.2022	-.2386	-.1427	.0132	.1504	.2678	-.2447	-.1604	-.1741	-.1277
270.000		.5976	.7905	.5698	.3241	-.1743	-.2141	-.0526	.1369	.3176	.5338	-.5396	-.4609	-.2280	-.0765
300.000		.6064	.7631	.6031	.3561	-.1356	-.4234	-.1603	.0155	.1689	.2905	-.2318	-.2454	-.1379	-.0621
330.000		.5805	.7848	.6352	.3968	-.1081	-.4575	-.2477	-.1074	.0554	.2116	.0000		-.0934	-.0419
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0193	-.0061	.0067	.0001	-.2270	-.2946									
30.000	-.0140	-.0001	.0097	.0146	-.2143	-.3042									
60.000	-.0238	-.0024	.0238	.0538	-.0737	-.2846									
90.000	-.0464	-.0252	.0519	.1078	.4113	-.2811									
120.000	-.0547	-.0032	.1027	.1310	.0718	-.2892									
135.000	-.0464	.0120	.1251	.3118	.2120										
147.000	-.0084	.0496	.1578	.2547	.2158	-.2919									
162.000	-.0660	.0063	.1261	.2090	.1064										
180.000	-.0818	.0055	.1093	.1717	-.0227	-.2755									
198.000	-.1447	-.0131	.1089	.1067	-.1283										
213.000	-.0999	-.0377	.1063	.0987	-.1079	-.2923									
225.000	-.0705	-.0005	.0926	.1440	-.0419										
240.000	-.0735	-.0070	.0827	.0764	-.0399	-.2884									
270.000	-.0698	-.0427	.0458	.0829	.3817	-.3007									
300.000	-.0419	-.0222	.0123	.0296	-.0733	-.2899									
330.000	-.0204	-.0112	.0062	.0042	-.2106	-.3200									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT15)

ALPHAT(5) = 2.098 BETAT (4) = 6.413

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4446	.4987
PHI															
.000	1.1640	.5117	.7428	.6422	.4058	-.0867	-.4280	-.4781	-.1574	-.0177	.1859	-.1408	-.1828	-.1237	-.0583
30.000		.4573	.7721	.5395	.3071	-.1793	-.5198	-.3768	-.0952	.0407	.1886	-.1604	-.3672	-.1157	-.0623
60.000		.4569	.7337	.4755	.2306	-.2489	-.4953	-.1251	.0396	.1669	.2466	-.2412	-.3638	-.1477	-.0571
90.000		.5197	.5870	.4509	.1997	-.2801	-.1926	-.0224	.1612	.3414	.5541	-.3065	-.5179	-.2464	-.0807
120.000		.5474	.5763	.4334	.2012	-.2899	-.2369	-.1009	.0551	.1776	.2520	-.2163	-.1983	-.2061	-.1317
135.000			.6018	.4539	.1993	-.2688	-.3875	-.1498	.0015	.1296	.2051	-.0185	-.1029	-.3089	-.1897
147.000		.5607	.5797	.4709	.2223	-.2556	-.4819	-.1843	-.0334	.1030	.2013	.0630	-.0472	-.4453	-.1859
162.000			.5660	.4994	.2460	-.2357	-.5023	-.2133	-.0737	.0676	.2182	.1354	-.0054	-.7418	-.2496
180.000	1.1640	.5569	.5767	.5391	.2743	-.1943	-.4731	-.2551	-.1106	.0323	.1901	.2165	.1837	-.5553	-.3625
198.000			.6225	.6051	.2246	-.1998	-.4633	-.2703	-.1372	.0061	.1913	.1957	.2029	-.6604	-.3303
213.000		.6235	.6415	.6672	.0000	-.5258	-.6733	-.1616	-.2421	-.0373	.2136	.1392	.1467	-.2656	-.0064
225.000			.7112	.6725	.4182	-.1036	-.2999	-.1999	-.1108	.0403	.2335	-.0621	.0102	-.0826	-.0517
240.000		.6938	.6760	.7211	.4627	-.0111	-.2165	-.1749	-.0346	.1042	.2927	-.3221	-.0932	-.0450	-.0345
270.000		.6676	.9181	.7849	.5520	.0514	-.1501	-.0395	.1234	.2964	.5645	-.5603	-.3621	-.1749	-.0251
300.000		.7470	.9215	.7880	.5576	.0675	-.2043	-.1520	-.0054	.1453	.3539	-.2884	-.1584	-.1182	-.0540
330.000		.7041	.9192	.7276	.5013	.0025	-.3260	-.3216	-.1485	.0179	.2243	.0000		-.1051	-.0460
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0412	-.0265	-.0211	-.0327	-.2534	-.3162									
30.000	-.0340	-.0216	-.0132	-.0112	-.2488	-.3212									
60.000	-.0412	-.0201	.0008	.0153	-.1069	-.2959									
90.000	-.1090	-.0778	.0215	.0766	.3698	-.3265									
120.000	-.0842	-.0143	.0744	.0709	-.0510	-.3058									
135.000	-.1112	-.0325	.0797	.1862	.0629										
147.000	-.1026	-.0355	.0857	.1700	-.0208	-.3032									
162.000	-.1554	-.0778	.0430	.1178	-.1137										
180.000	-.2165	-.1084	.0384	.1295	.0946	-.3610									
198.000	-.4509	-.2814	.1528	.1530	.3453										
213.000	-.0317	-.0139	.1834	.2214	.1565	-.3277									
225.000	-.0209	.0374	.1478	.2876	.2337										
240.000	-.0231	.0287	.1316	.1850	.1141	-.2932									
270.000	-.0044	.0159	.0861	.1127	.3744	-.3086									
300.000	-.0097	.0159	.0468	.0630	-.0885	-.3017									
330.000	-.0276	-.0143	.0006	-.0086	-.2093	-.3166									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELML SEALED) EXTERNAL TANK

(RETT15)

ALPHAT(7) = 5.326 BETAT (3) = .124

SECTION (1)EXTERNAL TANK	DEPENDENT VARIABLE CP														
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1344	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.1651	.5194	.9593	.7541	.5216	.0211	-.3327	-.2854	-.1167	.0441	.2711	-.0645	-.1298	-.0597	-.0090
30.000		.6056	1.1246	.7239	.4957	-.0033	-.3466	-.2559	-.0834	.0790	.7365	-.1303	-.2401	-.0566	-.0094
60.000		.5524	1.0129	.6652	.4344	-.0622	-.2827	-.1559	.0307	.2052	.3614	-.2245	-.2136	-.0577	-.0067
90.000		.5338	1.0190	.5932	.3607	-.1344	-.2197	-.0692	.1247	.3000	.5273	-.3984	-.4430	-.2099	-.0760
120.000		.5521	.6591	.5311	.2953	-.2057	-.2847	-.1790	-.0305	.0909	.2193	-.3824	-.2030	-.2058	-.1030
135.000			.5667	.5205	.2633	-.2177	-.3940	-.2154	-.0667	.0642	.1732	-.1073	-.0180	-.2292	-.1103
147.000		.5712	.5927	.5114	.2535	-.2260	-.4961	-.2180	-.0769	.0520	.1851	.0398	.0499	-.2843	-.0758
162.000			.6686	.4917	.2384	-.2467	-.5559	-.2056	-.0830	.0573	.1924	.1530	.1288	-.7066	-.1460
180.000	1.1651	.6158	.6913	.4792	.2215	-.2696	-.5351	-.2178	-.0819	.0580	.1801	-.2165	.2212	-.5721	-.1839
198.000			.6561	.4985	.1195	-.3481	-.4715	-.2284	-.0986	.0338	.2057	.1933	.1670	-.6035	-.2188
213.000		.6128	.6648	.4864	.0000	-.6061	-.5937	-.1885	-.1191	.0097	.1261	.0876	.0395	-.2413	-.1163
225.000			.6418	.5224	.2264	-.2985	-.3169	-.2102	-.0771	.0419	.1657	-.0659	-.0779	-.2264	-.1189
240.000		.5684	.7224	.5438	.2738	-.1966	-.2348	-.1821	-.0414	.0811	.2157	-.3604	-.2013	-.1881	-.1020
270.000		.5489	1.0206	.6066	.3615	-.1319	-.2442	-.0742	.1117	.2831	.5079	-.6048	-.3895	-.1979	-.0720
300.000		.5527	1.0119	.6743	.4387	-.0469	-.2956	-.1559	.0284	.1970	.3580	-.1673	-.1419	-.0635	-.0093
330.000		.6006	1.1318	.7331	.5011	-.0025	-.3433	-.2581	-.0932	.0818	.2772	.0000		-.0560	-.0101
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	.0035	.0099	.0251	.0190	-.1911	-.2845									
30.000	.0001	.0106	.0240	.0326	-.1965	-.2954									
60.000	-.0044	.0061	.0330	.0576	-.0834	-.2829									
90.000	-.0571	-.0105	.0791	.0955	.3491	-.2729									
120.000	-.0605	.0054	.1056	.1148	.0258	-.2691									
135.000	-.0511	.0187	.1260	.2788	.1300										
147.000	-.0165	.0482	.1585	.2145	.0620	-.2541									
162.000	-.0695	.0157	.1272	.1701	-.0569										
180.000	-.0759	.0126	.1280	.1588	-.0860	-.2664									
198.000	-.2010	-.0711	.1489	.1413	-.1399										
213.000	-.0115	.0119	.1633	.1508	-.0592	-.2756									
225.000	-.0472	.0081	.1128	.2441	.0857										
240.000	-.0611	.0005	.0999	.1074	.0096	-.2864									
270.000	-.0618	-.0138	.0775	.0916	.3395	-.2800									
300.000	-.0025	.0100	.0354	.0518	-.0861	-.2831									
330.000	-.0006	.0096	.0232	.0258	-.1746	-.3053									

ORIGINAL PAGE IS
OF POOR QUALITY

. . 019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT15)

ALPHAT (7) = 5.337 BETAT (5) = 4.319

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.1657	.5676	.8929	.7326	.5013	.0017	-.3471	-.3799	-.1342	.0245	.2563	-.0771	-.1303	-.0731	-.0208
30.000		.5042	.9267	.5443	.4115	-.0849	-.4364	-.4011	-.0925	.0630	.2582	-.1212	-.3119	-.0769	-.0355
60.000		.4881	.9714	.5520	.3107	-.1754	-.4946	-.1433	.0377	.1983	.3106	-.1876	-.2602	-.0732	-.0201
90.000		.4927	.6776	.4861	.2402	-.2450	-.2531	-.0471	.1398	.3079	.5109	-.3458	-.4643	-.2253	-.0693
120.000		.4908	.5915	.4555	.2081	-.2918	-.3113	-.1285	.0119	.1191	.2028	-.3162	-.2245	-.2303	-.1193
135.000			.5733	.4491	.1965	-.2801	-.4598	-.1569	-.0230	.0964	.1689	-.0550	-.0695	-.2871	-.1484
147.000		.5471	.5543	.4513	.1980	-.2812	-.5430	-.1686	-.0428	.0826	.1774	.0524	-.0060	-.3961	-.1408
162.000			.5880	.4536	.2040	-.2869	-.6061	-.1944	-.0651	.0669	.1666	.1442	.0479	-.7504	-.1973
180.000	1.1657	.5665	.5910	.4824	.2104	-.2808	-.4868	-.2344	-.0970	.0378	.1743	.2141	.2022	-.5820	-.2601
198.000			.5766	.5281	.1299	-.3227	-.4921	-.2710	-.1338	.0002	.1697	-.1829	.1765	-.6876	-.2545
213.000		.5924	.5626	.4873	.0000	-.6257	-.6877	-.2104	-.2663	-.0480	.1559	.1032	.0952	-.2530	-.0238
225.000			.6165	.5787	.3146	-.2048	-.3052	-.2607	-.1369	.0083	.1659	-.0922	-.0432	-.1715	-.0802
240.000		.6247	.7767	.6240	.3627	-.1075	-.2368	-.2352	-.0835	.0493	.2158	.4024	-.1767	-.1584	-.0682
270.000		.6760	.8810	.7111	.4786	-.0234	-.2004	-.0765	.1041	.2749	.5187	-.5973	-.3639	-.1783	-.0558
300.000		.7079	1.0298	.7735	.5429	.0516	-.2205	-.1407	.0303	.1983	.3912	-.1949	-.1128	-.0471	.0082
330.000		.6825	1.0822	.7784	.5551	.0554	-.2856	-.2611	-.1012	.0691	.2549	.0000		-.0498	-.0037
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0120	-.0063	.0074	.0021	-.2052	-.3010									
30.000	-.0146	-.0101	.0017	.0086	-.2122	-.3121									
60.000	-.0075	.0068	.0199	.0382	-.0972	-.2818									
90.000	-.0540	-.0081	.0595	.0879	.3297	-.2887									
120.000	-.0709	-.0013	.0934	.0925	-.0543	-.2841									
135.000	-.0807	.0021	.0958	.1840	.0608										
147.000	-.0656	.0077	.1066	.1772	-.0136	-.2895									
162.000	-.1133	-.0263	.0863	.1430	-.1206										
180.000	-.1441	-.0418	.0946	.1616	.0597	-.3505									
198.000	-.3773	-.1927	.1765	.1574	.2227										
213.000	-.0120	.0021	.1963	.2246	.0999	-.3167									
225.000	-.0315	.0308	.1462	.2856	.1824										
240.000	-.0409	.0145	.1352	.1749	.0562	-.2887									
270.000	-.0465	-.0089	.0644	.1044	.3692	-.3024									
300.000	.0061	.0180	.0465	.0668	-.0707	-.2893									
330.000	.0012	.0093	.0309	.0312	-.1742	-.3243									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT16)

ALPHAT(1) = -6.767 BETAT (2) = -1.970

SECTION (1) EXTERNAL TANK	DEPENDENT VARIABLE CP														
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.2873	.7306	.7307	.6200	.3973	-.0472	-.3482	-.4183	-.4844	-.0639	.0145	.0589	-.0857	-.2305	-.0861
30.000		.7128	.6803	.6548	.4279	-.0192	-.3315	-.4072	-.4741	-.0727	.0070	-.0098	-.3587	-.2091	-.0777
60.000		.7151	.7260	.7168	.4925	.0377	-.2863	-.3679	-.1853	.0347	.2586	-.2323	-.4898	-.2389	-.0994
90.000		.7706	.8480	.8017	.5814	.1190	-.2350	-.3078	.1032	.4067	.6358	-.2746	-.8048	-.4964	-.5074
120.000		.8533	.9952	.8849	.6687	.1916	-.1635	-.2420	.0225	.3102	.5360	.2207	.1927	.0537	-.0901
135.000			1.0553	.9187	.7005	.2313	-.1366	-.2196	-.2946	.2684	.4336	.3245	.2929	.0369	-.0977
147.000		.8957	1.0634	.9352	.7198	.2483	-.1212	-.2118	-.3154	.2436	.3849	.3897	.3628	.0047	-.0660
162.000			.0862	.9436	.7264	.2483	-.1259	-.2226	-.2851	.2300	.3937	.4687	.4113	-.5772	-.0850
180.000	1.2873	.9111	1.0469	.9348	.7115	.2349	-.1699	-.1843	-.3154	.2113	.3801	.5234	.4582	-.0217	-.0974
198.000			1.0241	.9053	.6359	.1658	-.0832	-.2993	-.2337	.1559	.3267	.5036	.4043	-.5899	-.1928
213.000		.8563	1.0939	.7443	.0000	-.1894	-.4890	-.1591	-.2327	.1202	.3257	.4246	.2911	-.2996	-.1604
225.000			.9976	.8405	.5324	.0480	-.2283	-.2889	-.1077	.1858	.3661	.3719	.1983	-.1081	-.1394
240.000		.7662	.8590	.7939	.5531	.0773	-.2260	-.3370	.0524	.2280	.3740	.2761	.1591	-.0351	-.1477
270.000		.7055	.7476	.7076	.4838	.0167	-.3226	-.3831	.0235	.2096	.5165	-.2905	-.6432	-.5967	-.3449
300.000		.7207	.6929	.6517	.4199	-.0219	-.3397	-.4080	-.1547	-.0629	.0977	-.1735	-.3367	-.2487	-.1144
336.000		.7338	.7452	.6111	.3908	-.0489	-.7602	-.4164	-.4906	-.0557	-.0193	.0000		-.2484	-.0719
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	.0027	-.0159	-.0424	.0708	-.0738	-.3491									
30.000	-.0253	-.0385	-.0498	.0578	-.0779	-.3814									
60.000	-.0626	-.0583	-.0344	.0928	.0086	-.3569									
90.000	-.1631	-.0949	.0272	.1009	.6123	-.3474									
120.000	-.1245	-.1839	.0756	.1141	.2657	-.3542									
135.000	-.1511	-.2027	.0900	.3764	.3561										
147.000	-.1142	-.1742	.1149	.2835	.3370	-.3474									
162.000	-.1684	-.1651	.0748	.2387	.3088										
180.000	-.1588	-.1281	.0351	.1939	.2520	-.3365									
198.000	-.3859	-.2326	.0095	.1137	.0959										
213.000	-.1908	-.2343	.0089	.0969	-.0669	-.3607									
225.000	-.1601	-.1997	.0176	.1199	.0290										
240.000	-.1574	-.2074	.0233	.0839	.0565	-.3423									
270.000	-.1541	-.1214	.0042	.0818	.4788	-.3441									
300.000	-.0705	-.0700	-.0272	.0832	-.0091	-.3383									
330.000	-.0102	-.0320	-.0383	.0733	-.0280	-.3523									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT16)

ALPHAT(1) = -6.721 BETAT (4) = 2.262

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.2852	.7354	.7221	.6183	.3943	-.0477	-.3537	-.4215	-.4426	-.0589	.0217	.0594	-.0800	-.2568	-.0976
30.000		.7360	.7514	.6033	.3906	-.0497	-.3564	-.4229	-.4265	-.0561	-.0115	.0669	-.2760	-.2639	-.0853
60.000		.7192	.7106	.6387	.4163	-.0303	-.3390	-.4144	-.1239	-.0132	.2137	-.1861	-.4966	-.2228	-.1210
90.000		.7023	.7342	.6978	.4751	.0208	-.3110	-.3831	.0451	.3452	.6107	-.2217	-.6605	-.5051	-.4688
120.000		.7718	.8300	.7758	.5629	.0889	-.2451	-.3266	.0998	.1860	.4074	.2671	.1554	-.0210	-.1668
135.000			.8935	.8259	.6048	.1503	-.2121	-.2983	.1068	.1777	.3302	.3443	.2435	-.0583	-.1505
147.000		.8230	.9316	.8622	.5446	.1827	-.1879	-.2801	-.0794	.2026	.3616	.3848	.3119	-.1734	-.0873
162.000			1.0458	.8979	.6810	.2121	-.1768	-.2331	-.3229	.2343	.4013	.4499	.3514	-.6622	-.1224
180.000	1.2852	.8820	1.1398	.9298	.7087	.2351	-.1354	-.1893	-.3310	.2374	.4143	.5109	.4483	-.0321	-.0993
198.000			1.2289	.9419	.0573	.2100	-.0832	-.2537	-.1812	.2210	.3493	.4873	.4204	-.5502	-.1852
213.000		.8658	1.2423	.8700	.0000	-.0797	-.4119	-.0956	-.1768	.2152	.4516	.4401	.3413	-.3069	-.0518
225.000			1.2037	.9337	.6382	.1675	-.1519	-.2331	-.0765	.2776	.4153	.3474	.2249	-.0170	-.0585
240.000		.8223	1.1943	.8999	.6372	.1926	-.1478	-.2608	.1130	.3186	.4827	.2364	.1748	.0207	-.0762
270.000		.7508	1.0196	.7997	.5784	.1147	-.2559	-.3107	.1355	.3950	.6129	-.2524	-.5791	-.4557	-.4798
300.000		.6995	.7917	.7149	.4875	.0406	-.3044	-.3727	-.1438	.0651	.2529	-.2328	-.4772	-.2357	-.1317
330.000		.7103	.6630	.6575	.4261	-.0256	-.3478	-.4040	-.4933	-.0597	.0543	.0000		-.2190	-.1013
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0069	-.0209	-.0568	.0725	-.0746	-.3571									
30.000	-.0142	-.0259	-.0508	.0847	-.0456	-.3656									
60.000	-.0770	-.0733	-.0447	.0871	-.0074	-.3448									
90.000	-.1701	-.1403	.0055	.0796	.5058	-.3478									
120.000	-.1848	-.2599	.0482	.0783	.6796	-.3427									
135.000	-.1871	-.2484	.0438	.1637	.1028										
147.000	-.1464	-.2189	.0391	.1552	.0332	-.3506									
162.000	-.2192	-.2467	.0182	.1461	.0001										
180.000	-.1981	-.2343	.0196	.1610	.0980	-.3468									
198.000	-.4748	-.3905	.0769	.1269	.1543										
213.000	-.0736	-.1696	.0698	.1600	.1133	-.3581									
225.000	-.0917	-.1467	.0445	.2259	.2054										
240.000	-.1067	-.1760	.0435	.0912	.2030	-.3680									
270.000	-.1911	-.1242	.0023	.0612	.5382	-.3543									
300.000	-.0753	-.0696	-.0483	.0741	.0598	-.3687									
330.000	-.0379	-.0551	-.0618	.0564	-.0582	-.3817									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 (AB1 LVAPIELHL SEALED) EXTERNAL TANK

(RETT16)

ALPHAT(3) = -2.330 BETAT (2) = -2.014

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0544	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.2866	.7590	.8007	.7307	.4999	.0413	-.2861	-.3653	-.4414	-.0067	.0656	.0864	-.0701	-.2325	-.1040
30.000		.7963	.7812	.7806	.5293	.0693	-.2678	-.3475	-.4222	-.0141	.0547	.0591	-.3201	-.1952	-.0746
60.000		.8145	.7627	.7959	.5670	.1026	-.2384	-.3236	-.2918	.0957	.3387	-.1080	-.3872	-.1754	-.0559
90.000		.8371	.7684	.8295	.6017	.1337	-.2271	-.3058	.0717	.4336	.6985	-.1713	-.4338	-.2672	-.4110
120.000		.8563	.7849	.8466	.6267	.1437	-.2120	-.2671	-.1884	.2196	.4619	.0867	.0986	.0445	-.0670
135.000			.7920	.8550	.6264	.1583	-.1914	-.2627	-.3565	.1515	.2733	.2242	.1941	.0220	-.0790
147.000		.8597	.7962	.8540	.6297	.1597	-.1770	-.2664	-.3696	.1332	.2286	.3031	.2707	-.0126	-.0475
162.000			.7992	.8479	.6194	.1483	-.1891	-.2281	-.3767	.1253	.2143	.3830	.3479	-.5987	-.0509
180.000	1.2866	.8529	.7858	.8345	.6007	.1317	-.2409	-.2770	-.3859	.1029	.1965	.4117	.4141	-.0863	-.0890
198.000			.7949	.8197	.5142	.0620	-.1773	-.3625	-.1921	.0954	.1897	.3672	.3401	-.5950	-.1842
213.000		.8260	.8194	.7324	.0000	-.2748	-.5089	-.2136	-.2561	.0808	.2286	.3210	.1987	-.2897	-.1167
225.000			.8264	.8013	.4729	-.0230	-.2500	-.3504	-.1206	.1308	.2163	.2687	.1066	-.0797	-.1237
240.000		.7926	.7744	.7739	.4982	.0506	-.2631	-.3342	.0206	.1097	.2675	.1538	.0693	-.0326	-.1324
270.000		.7896	.7888	.7415	.5009	.0366	-.2786	-.3713	.0059	.3744	.6921	-.2810	-.4126	-.5255	-.2307
300.000		.7590	.7935	.7178	.4805	.0323	-.3075	-.3518	-.2104	.0202	.2201	-.0485	-.2802	-.1869	-.0643
330.000		.7613	.8144	.7175	.4837	.0216	-.3125	-.3753	-.4585	-.0013	.0424	.0000		-.2289	-.0696
X/LT															
	.5528	.6340	.7423	.8506	.9264	.9338									
PHI															
.000	.0182	.0026	-.0405	.0962	-.0408	-.3429									
30.000	.0132	-.0074	-.0475	.0947	-.0568	-.3384									
60.000	-.0225	-.0315	-.0371	.1187	.0428	-.3367									
90.000	-.1426	-.0869	.0238	.1298	.5959	-.3408									
120.000	-.0396	.1415	.0817	.2060	.2924	-.3340									
135.000	-.1039	-.1569	.0858	.3906	.3691										
147.000	-.0602	-.1139	.1104	.3258	.3712	-.3497									
162.000	-.1300	-.1270	.0848	.2839	.3033										
180.000	-.1550	-.1361	.0501	.2313	.2159	-.3326									
198.000	-.3587	-.2323	.0288	.1595	.0675										
213.000	-.1190	-.1933	.0281	.1429	-.0168	.3354									
225.000	-.1300	-.1701	.0450	.1744	.0528										
240.000	-.1300	-.1714	.0474	.1311	.0770	-.3094									
270.000	-.1293	-.0930	.0177	.1055	.4974	-.3177									
300.000	-.0281	-.0428	-.0248	.1110	.0310	-.3143									
330.000	.0096	-.0095	-.0349	.0915	.0003	-.3266									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT16)

ALPHAT(4) = -.119 BETAT (2) = -4.104

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.2862	.7434	.7916	.7703	.5446	.0826	-.2599	-.3376	-.4190	-.0287	.0954	.0970	-.0672	-.2339	-.1328
30.000		.8275	.7855	.8147	.5948	.1284	-.2271	-.3092	-.3898	.0095	.1299	.0337	-.3237	-.1582	-.0785
60.000		.8603	.7997	.8548	.6347	.1645	-.1956	-.2829	-.2871	.1883	.4071	-.0720	-.3564	-.1659	-.0380
90.000		.8741	.8099	.8724	.6511	.1792	-.1894	-.2731	.1046	.4415	.7113	-.0938	-.3875	-.2605	-.0146
120.000		.8657	.8099	.8579	.6387	.1572	-.2022	-.2876	-.1924	.2146	.4502	-.0090	.0328	.0081	-.0146
135.000			.7954	.8413	.6160	.1515	-.2218	-.3059	-.3611	.1155	.2697	.1197	.1718	.0219	-.0505
147.000		.8400	.7761	.8255	.6026	.1371	-.2420	-.2954	-.3729	.0967	.2079	.2156	.2545	.0121	-.0638
162.000			.7846	.8032	.5732	.1130	-.2130	-.2974	-.4148	.0793	.1716	.3243	.3382	-.5599	-.0521
180.000	1.2862	.8056	.7742	.5390	.0890	-.2633	-.3444	-.3171	.0312	.1234	.3561	.3816	-.1094	-.1150	
198.000			.7794	.7479	.4446	.0215	-.2309	-.3923	-.0806	.0489	.1113	.2990	.3301	-.6310	-.1729
213.000		.7843	.8148	.6518	.0000	-.3251	-.5441	-.2562	-.2627	.0274	.1674	.2686	.1459	-.2884	-.1505
225.000			.8060	.7371	.3933	-.0698	-.2977	-.3903	-.0911	.0930	.1534	.2304	.0486	-.1388	-.1512
240.000		.7667	.7737	.7133	.4315	.0078	-.3136	-.3694	-.0185	.0557	.2016	.0974	.0051	-.0953	-.1458
270.000		.7494	.7797	.6983	.4553	.0028	-.3025	-.3842	-.0017	.3101	.6848	-.2093	-.3700	-.2272	-.1853
300.000		.7521	.7939	.7036	.4643	.0168	-.3302	-.3913	-.1413	.0148	.1804	.0419	-.2346	-.1820	-.0725
330.000		.7538	.7720	.7304	.4999	.0359	-.3018	-.3650	-.4528	.0178	.0487	.0000		-.2218	-.1108
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	.0002	-.0019	-.0271	.0972	-.0375	-.3313									
30.000	-.0082	-.0062	-.0365	.1085	-.0488	-.3351									
60.000	-.0172	-.0229	-.0200	.1601	.0816	-.3224									
90.000	-.1272	-.0462	.0477	.1568	.5816	-.3238									
120.000	-.0617	-.0843	.1177	.2827	.3734	-.3358									
135.000	-.0637	-.1183	.1218	.4437	.4457										
147.000	-.0138	-.0775	.1460	.4029	.4529	-.3460									
162.000	-.0844	-.0964	.1195	.3671	.3693										
180.000	-.1476	-.1005	.0843	.3033	.2602	-.3289									
198.000	-.2745	-.1594	.0570	.1946	.1804										
213.000	-.1823	-.2359	.0299	.1534	-.0553	-.3368									
225.000	-.1385	-.1699	.0526	.1902	.0705										
240.000	-.1295	-.1601	.0624	.1618	.0835	-.3224									
270.000	-.1058	-.0789	.0384	.1373	.5112	-.3162									
300.000	-.0193	-.0301	-.0032	.1253	.0644	-.3148									
330.000	-.0046	-.0112	-.0177	.0953	-.0307	-.3179									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT16)

ALPHAT(5) = 2.085 BETAT (3) = 2.222

SECTION (1)EXTERNAL TANK	DEPENDENT VARIABLE CP														
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2871	.3362	.3904	.4445	.4987
PHI															
.000	1.2682	.7580	.9244	.8237	.6025	.1378	-.2155	-.2947	-.3841	-.1225	.1429	.1466	-.0140	-.2138	-.1077
30.000		.7600	.9493	.7894	.5701	.1078	-.2402	-.3206	-.4020	.0451	.0988	.1186	-.1929	-.1831	-.0983
60.000		.7715	.9335	.7551	.5300	.0710	-.2519	-.3441	-.2436	.0540	.2616	.0234	-.2773	-.1542	-.0602
90.000		.7597	.9440	.7251	.4999	.0416	-.2977	-.3691	.0076	.3722	.7138	-.0659	-.3999	-.1764	-.0431
120.000		.7880	.9301	.7070	.4842	.0183	-.3142	-.3808	-.0606	.0461	.2882	-.0021	-.0427	-.1307	-.0163
135.000			.9312	.7110	.4765	.0283	-.3081	-.3566	-.1336	.0397	.0907	.1962	.1069	-.1344	-.0535
147.000		.7543	.9207	.7164	.4849	.0295	-.2812	-.3586	-.0893	.0376	.0883	.2182	.1865	-.1677	-.0331
162.000			.8815	.7228	.4852	.0270	-.2883	-.3763	-.0924	.0625	.1182	.2300	.2215	-.5930	-.0619
180.000	1.2682	.7802	.8375	.7312	.4896	.0259	-.3037	-.3392	-.0147	.0376	.0603	.2344	.3619	-.1990	-.0418
198.000			.8311	.7564	.4050	-.0355	-.2468	-.3787	-.1417	.0366	.1070	.2472	.2811	-.5065	-.0933
213.000		.8180	.8428	.7507	.0000	-.2679	-.4946	-.2430	-.3102	.0424	.1357	.2658	.1959	-.2572	-.0161
225.000			.8371	.7833	.5079	.0300	-.2149	-.3719	-.2745	.0519	.1804	.1192	.0431	-.0859	-.0174
240.000		.8358	.8354	.8031	.5420	.1091	-.2815	-.2939	-.2312	.1443	.3691	-.0497	-.0374	-.0833	.0184
270.000		.8473	.8240	.8348	.6039	.1308	-.1936	-.2835	.0434	.4237	.6916	-.2422	-.2963	-.1733	-.0184
300.000		.8223	.8943	.8495	.6225	.1605	-.2169	-.2946	-.3137	.1760	.3988	.0417	-.3168	-.1094	-.0365
330.000		.7607	1.0964	.8458	.6236	.1525	-.2105	-.2869	-.3838	.0408	.1395	.0000		-.1375	-.0692
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	.0164	.0200	-.0292	.1088	-.0122	-.3039									
30.000	.0127	.0120	-.0326	.1110	-.0299	-.3104									
60.000	-.0261	-.0188	-.0255	.1350	.0753	-.2991									
90.000	-.0371	-.0629	.0325	.1742	.4634	-.2973									
120.000	-.0823	-.1348	.0319	.1867	.1101	-.2891									
135.000	-.0863	-.1301	.0990	.2540	.1523										
147.000	-.0385	-.1119	.1000	.2391	.0963	-.2898									
162.000	-.1207	-.1554	.0858	.2310	-.0034										
180.000	-.1244	-.1547	.0848	.2486	.0837	-.2895									
198.000	-.3500	-.2959	.1142	.2486	.1701										
213.000	-.0061	-.0953	.0973	.2793	.2100	-.3138									
225.000	-.0104	-.0605	.0730	.3093	.2827										
240.000	-.0061	-.0690	.0955	.2253	.2226	-.2833									
270.000	-.0068	-.0302	.0300	.1628	.4326	-.2993									
300.000	-.0128	-.0080	-.0099	.1358	.0738	-.2962									
330.000	.0069	.0032	-.0264	.0955	.0217	-.3157									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT16)

ALPHAT (S) = 4.279 BETAT (S) = 6.467

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.2890	.7163	.9553	.8533	.6411	.1802	-.1808	-.2633	-.3509	-.0727	.1964	.1200	-.0293	-.1904	-.1264
30.000		.6311	.9772	.7495	.5398	.0838	-.2585	-.3377	-.4153	.0509	.0998	.1189	-.1564	-.2112	-.1408
60.000		.6119	1.0318	.6645	.4491	.0040	-.3136	-.3905	-.0657	.0077	.0886	.1636	-.2541	-.1742	-.0952
90.000		.6354	.7139	.5218	.3934	-.0447	-.3596	-.4255	-.0414	.2437	.7067	-.0840	-.3758	-.1213	-.0831
120.000		.6819	.6940	.5996	.3787	-.0680	-.3797	-.4235	-.0553	-.0172	.1237	-.0194	-.0955	-.1894	-.0832
135.000			.7041	.5993	.3737	-.0530	-.3538	-.4120	-.0691	.0005	.0221	.2127	.0877	-.2362	-.1298
147.000		.7045	.7483	.6057	.3847	-.0500	-.3417	-.4262	-.0650	-.0199	.0371	.1508	.1526	-.3029	-.1545
162.000			.7401	.6279	.3987	-.0480	-.3509	-.4122	-.0445	-.0056	.0367	.1893	.1695	-.7228	-.2560
180.000	1.2890	.7065	.7327	.6584	.4107	-.0460	-.3236	-.3927	-.1068	-.0053	.0726	.2262	.3147	-.2989	-.2581
198.000			.7576	.7125	.3437	-.1014	-.3017	-.3745	-.4230	-.0070	.0969	.2269	.2841	-.5019	-.1566
213.000		.7439	.7112	.6668	.0000	-.3796	-.5651	-.2622	-.4328	-.0247	.2011	.2137	.2207	-.2685	.0042
225.000			.8039	.7848	.5424	.0908	-.1813	-.3438	-.2941	.0577	.2298	-.0231	.0745	-.0781	.0056
240.000		.8052	.9716	.8305	.5988	.1645	-.2189	-.3114	-.0932	.1592	.3642	-.1845	-.0499	-.1489	.0384
270.000		.8739	1.0519	.9175	.7005	.2296	-.1507	-.1884	.2065	.4197	.6831	-.2132	-.2366	-.1899	-.0128
300.000		.9099	1.0915	.9575	.7445	.2809	-.1140	-.1955	-.0298	.3240	.5286	.0654	-.3437	-.0654	-.0011
330.000		.8705	1.0835	.9335	.7240	.2526	-.1301	-.2096	-.3149	.1326	.2963	.0000		-.0958	-.0542
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0646	-.0161	-.0037	.0656	-.0113	-.3159									
30.000	-.0358	-.0154	.0064	.0920	-.0109	-.3248									
60.000	-.0271	-.0241	.0196	.1162	.0878	-.3053									
90.000	-.0669	-.0931	.0695	.1703	.4068	-.3084									
120.000	-.1111	-.1555	.1012	.1862	.0645	-.3025									
135.000	-.1191	-.1592	.0968	.2684	.1511										
147.000	-.1017	-.1532	.0991	.2640	.1013	-.2971									
162.000	-.1844	-.2512	.0474	.2038	.0094										
180.000	-.2447	-.2554	.0305	.2021	.1777	-.2868									
198.000	-.4483	-.4188	.1032	.2478	.4682										
213.000	-.0244	-.0367	.0968	.3465	.3661	-.2848									
225.000	.0692	.0467	.1167	.4082	.4313										
240.000	.0595	.0217	.1110	.3293	.3214	-.3032									
270.000	.0321	.0024	.0714	.2107	.4218	-.3049									
300.000	.0009	-.0047	.0379	.1697	.1115	-.3151									
330.000	-.0308	-.0155	.0135	.1113	.0288	-.3168									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 LVAP (ELHL SEALED) EXTERNAL TANK

(RETT17) (21 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
 BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = .900 RN/FT = 2.250
 ELV-18 = 10.000 ELV-05 = 4.000
 RUDDER = .000 SPDRK = .000

ALPHAT (1) = -6.602 BETAT (1) = -4.024

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.1574	.5335	.6104	.4407	.2134	-.2783	-.5760	-.4116	-.1280	-.0318	.0633	-.2096	-.2618	-.1512	-.0743
30.000		.4489	.8532	.4809	.2685	-.2267	-.4950	-.4733	-.1786	-.0635	.0649	-.3709	-.3540	-.2048	-.0949
60.000		.4600	.9142	.5712	.3652	-.1353	-.3263	-.2760	-.1513	-.0298	.1192	-.5501	-.5515	-.3427	-.1238
90.000		.5205	.9986	.6849	.4783	-.0205	-.1944	-.0683	.1004	.2549	.4748	-.5930	-.5650	-.4354	-.3215
120.000		.6181	1.0776	.7726	.5679	.0584	-.1573	-.0829	.0885	.2623	.4539	-.0540	-.0040	-.1313	-.1596
135.000			1.1010	.9036	.5896	.1005	-.1650	-.1143	.0366	.2056	.4081	.1028	.1132	-.1562	-.1543
147.000		.8564	1.1106	.8139	.6007	.1073	-.1761	-.1396	.0116	.1765	.4073	.1865	.1877	-.2148	-.1188
162.000			1.1096	.8036	.5936	.0902	-.1948	-.1725	-.0191	.1513	.4035	.2707	.2227	-.9449	-.2278
180.000	1.1574	.6288	1.0870	.7710	.5628	.0554	-.2231	-.1990	-.0349	.1370	.3841	.3199	.2307	-.4128	-.2781
198.000			1.0706	.7213	.4647	-.0280	-.2678	-.1806	-.0406	.1300	.3513	.2853	.1583	-.9510	-.3554
213.000		.5190	1.1092	.5077	.0000	-.4650	-.6535	-.1085	-.0664	.0967	.2506	.1935	.0158	-.2715	-.3586
225.000			.9510	.6181	.3149	-.1439	-.3993	-.1491	-.0074	.1536	.3237	.1132	-.0830	-.4312	-.3055
240.000		.4187	.9312	.5919	.3198	-.1458	-.3550	-.1311	.0568	.2258	.3443	.0018	-.1163	-.3325	-.2292
270.000		.4128	.8854	.5001	.2589	-.2397	-.2377	-.0679	.1052	.2432	.3821	-.5412	-.5530	-.4483	-.2019
300.000		.4435	.6768	.4528	.2045	-.2781	-.3679	-.1806	-.0539	.0366	.1200	-.4532	-.4473	-.3238	-.1067
330.000		.4691	.5901	.4349	.1737	-.2982	-.6089	-.2327	-.1026	.0024	.0702	.0000		-.1733	-.0773
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0305	-.0164	-.0234	-.0514	-.3390	-.3135									
30.000	-.0491	-.0335	-.0352	-.0460	-.3075	-.3718									
60.000	-.0434	-.0115	-.0046	.0101	-.1289	-.3446									
90.000	-.0841	-.0387	-.0314	-.0472	.4935	-.3193									
120.000	-.0377	.0219	.0917	.0646	.1708	-.3038									
135.000	-.0328	.0227	.1109	.3502	.2730										
147.000	-.0438	.0537	.1500	.2487	.2396	-.2841									
162.000	-.0430	-.0165	.0822	.2038	.1918										
180.000	-.1203	-.0429	.0586	.1488	.1413	-.2894									
198.000	-.1614	-.0544	.0681	-.0084	.0159										
213.000	-.1698	-.1020	.0470	-.0326	-.1627	-.2954									
225.000	-.1237	-.0467	.0366	.0439	-.0796										
240.000	-.0895	-.0234	.0416	-.0066	-.0648	-.2937									
270.000	-.0488	-.0346	.0143	-.0179	.4267	-.3209									
300.000	-.0236	-.0065	-.0041	-.0241	-.2000	-.3209									
330.000	-.0172	-.0072	-.0072	-.0446	-.2933	-.3322									

ORIGINAL PAGE IS
 OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT17)

ALPHAT (1) * -6.560 BETAT (4) * 2.251

SECTION (1)	EXTERNAL TANK														DEPENDENT VARIABLE CP														
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987														
PHI																													
.000	1.1606	.6476	.7052	.4498	.2047	-.2721	-.5673	-.3357	-.1224	-.0211	.0734	-.1904	-.2859	-.1630	-.0699														
30.000		.5416	.5712	.4468	.2010	-.2728	-.5722	-.2421	-.1079	-.0015	.0846	-.2749	-.3809	-.1816	-.0744														
60.000		.4582	.7337	.4692	.2270	-.2475	-.3448	-.2018	-.0668	.0289	.1313	-.4885	-.5340	-.3399	-.1142														
90.000		.4605	.9221	.5342	.2901	-.1868	-.2311	-.0725	.1136	.2622	.4402	-.5283	-.6100	-.4520	-.2387														
120.000		.4658	.9654	.6132	.3910	-.1047	-.2710	-.1284	.0740	.2564	.3951	-.0263	-.0839	-.2825	-.2285														
135.000			.9970	.6691	.4367	-.0360	-.2821	-.1695	.0172	.1948	.3608	.0844	.0088	-.3415	-.2440														
147.000		.5469	1.0263	.7101	.4869	.0002	-.2665	-.1874	-.0076	.1713	.3642	.1554	.0860	-.4162	-.2065														
162.000			1.0616	.7516	.5262	.0333	-.2475	-.1919	-.0259	.1525	.3789	.2375	.1230	-1.0174	-.2701														
186.000	1.1606	.6241	1.0894	.7842	.5545	.0627	-.2178	-.1804	-.0221	.1502	.3912	.3146	.2369	-.4112	-.2750														
198.000			1.1023	.7972	.5050	.0586	-.2330	-.1411	-.0084	.1479	.2967	.2914	.2152	-.8891	-.3352														
213.000		.6344	1.0894	.7215	.0000	-.2540	-.5110	-.0210	-.0271	.1090	.3492	.2444	.1390	-.2555	-.1448														
225.000			1.0730	.7667	.4895	.0201	-.2414	-.1034	.0278	.1802	.3638	.1276	.0984	-.2493	-.1842														
240.000		.5857	1.0468	.7393	.4820	.0224	-.2049	-.0965	.0751	.4879	.4086	-.0179	-.0491	-.1899	-.1944														
270.000		.4951	.9860	.6429	.4129	-.0700	-.2193	-.0748	.0947	.2487	.4618	-.6753	-.6037	-.4612	-.3057														
300.000		.4875	.9317	.5492	.3101	-.1597	-.3433	-.2731	-.1219	-.0107	.1279	-.5253	-.4748	-.3284	-.1263														
330.000		.4906	.7778	.4808	.2392	-.2362	-.5209	-.4146	-.1600	-.0380	.0811	.0000		-.1944	-.0877														
X/LT	.5528	.6340	.7423	.8506	.9264	.9838																							
PHI																													
.000	-.0261	-.0114	-.0133	-.0452	-.3202	-.2999																							
30.000	-.0231	-.0042	-.0114	-.0345	-.3029	-.3308																							
60.000	-.0246	-.0019	-.0060	-.0135	-.1891	-.3285																							
90.000	-.0514	-.0160	.0024	-.0269	.5151	-.3061																							
120.000	-.0680	-.0083	.0462	-.0124	-.0403	-.3169																							
135.000	-.0801	-.0186	.0474	.1147	-.0094																								
147.000	-.0654	-.0053	.0554	.0857	-.0838	-.3092																							
162.000	-.1240	-.0392	.0414	.0678	-.1513																								
180.000	-.1368	-.0476	.0494	.0819	-.0163	-.3509																							
198.000	-.2820	-.1582	.1216	.0548	.1001																								
213.000	-.0248	.0001	.1430	.0899	.0137	-.3343																							
225.000	-.0726	.0119	.0911	.1730	.1189																								
240.000	-.0616	.0119	.0735	.0249	.0870	-.3220																							
270.000	-.0767	-.0251	-.0132	-.0310	.4599	-.3617																							
300.000	-.0401	-.0236	-.0074	-.0032	-.1428	-.3571																							
330.000	-.0352	-.0331	-.0250	-.0495	-.3080	-.3780																							

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT17)

ALPHATA 11 = -6.545 BETAT (S) = 4.342

SECTION (I) EXTERNAL TANK	DEPENDENT VARIABLE CP														
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.1608	.5351	.5741	.4377	.1932	-.2823	-.5825	-.4566	-.1273	-.0329	.0626	-.2058	-.2483	-.1608	-.0776
30.000		.4765	.5730	.4067	.1639	-.2977	-.5979	-.2363	-.0947	.0040	.0816	-.2593	-.3649	-.1793	-.0753
60.000		.4354	.6449	.4223	.1804	-.2928	-.3565	-.1774	-.0474	.0432	.1321	-.4744	-.5176	-.3393	-.1025
90.000		.3708	.8809	.4530	.2294	-.2442	-.2300	-.0694	.1164	.2655	.4316	-.4266	-.6319	-.4609	-.2132
120.000		.3716	.9041	.5462	.3214	-.1711	-.3564	-.1439	.0673	.2466	.3781	-.0110	-.0986	-.3222	-.2305
135.000			.9315	.6070	.3742	-.0984	-.3710	-.1896	.0006	.1788	.3400	.0987	-.0221	-.3951	-.2759
147.000		.4731	.9696	.6549	.4327	-.0494	-.3456	-.2143	-.0291	.1503	.3396	.1414	.0466	-.4772	-.2483
162.000			1.0232	.7089	.4889	-.0004	-.2946	-.2156	-.0501	.1303	.3581	.2160	.0818	-1.0032	-.3000
180.000	1.1608	.5993	1.0706	.7663	.5391	.0539	-.2384	-.1924	-.0409	.1339	.3523	.3078	.2285	-.4339	-.3514
198.000			1.1116	.8073	.5074	.0717	-.2350	-.1380	-.0169	.1353	.3362	.2941	.2407	-.8470	-.3929
213.000		.6860	1.0634	.7921	.6000	-.1977	-.4751	-.0105	-.0345	.1080	.3574	.2552	.1791	-.2674	-.0753
225.000			1.0836	.8205	.5398	.0600	-.2057	-.0885	.0290	.1773	.3412	.1356	.0427	-.1871	-.1467
240.000		.6514	1.0695	.7903	.5342	.0732	-.1715	-.0805	.0801	.2485	.4453	-.0224	-.0204	-.1324	-.1592
270.000		.5319	1.0107	.6971	.4663	-.0211	-.2029	-.0676	.0959	.2470	.4742	-.6574	-.4750	-.4420	-.3223
300.000		.4912	.9241	.5792	.3463	-.1286	-.3451	-.2872	-.1552	-.0329	.1260	-.5420	-.4807	-.3266	-.1331
330.000		.4668	.8394	.4849	.2525	-.2316	-.5155	-.4828	-.1875	-.0620	.0714	.0000		-.2037	-.0963
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0325	-.0167	-.0235	-.0589	-.3439	-.3014									
30.000	-.0148	.0014	-.0098	-.0402	-.3039	-.3226									
60.000	-.0140	.0014	-.0045	-.0170	-.1907	-.3241									
90.000	-.0412	-.0045	.0084	-.0166	-.5098	-.3060									
120.000	-.0835	-.0239	.0347	-.0093	-.0474	-.3222									
135.000	-.1068	-.0315	.0339	.1093	.0200										
147.000	-.1073	-.0330	.0396	.0952	-.0621	-.3149									
162.000	-.1601	-.0654	.0170	.0612	-.1017										
180.000	-.1881	-.0776	.0322	.0868	.0766	-.3808									
198.000	-.3836	-.2492	.1329	.0551	.2576										
213.000	-.0121	.0027	.1589	.1196	.0592	-.3415									
225.000	-.0488	.0256	.1047	.2102	.1721										
240.000	-.0469	.0214	.0879	.0008	.1363	-.3288									
270.000	-.0997	-.0365	-.0269	-.0382	.4659	-.3789									
300.000	-.0454	-.0330	-.0059	.0038	-.1267	-.3669									
330.000	-.0578	-.0399	-.0341	-.0570	-.2991	-.3936									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-D19 1A81 LVAP (ELHL SEALED) EXTERNAL TANK

(RETT17)

ALPHAT (3) = -2.250 BETAT (1) = -6.147

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.1638	.5142	.5853	.5482	.3039	-.1892	-.5096	-.5467	-.1386	-.0240	.1259	-.1823	-.2258	-.1442	-.0793
30.000		.6345	.6232	.6242	.3857	-.1033	-.4052	-.4096	-.1618	-.0297	.1558	-.3295	-.2809	-.1582	-.0752
60.000		.6969	.7704	.7123	.4807	-.0163	-.2543	-.2043	-.0617	.0714	.2594	-.4506	-.4184	-.2288	-.0868
90.000		.7456	.8803	.7747	.5444	.0500	-.1513	-.0350	.1451	.3082	.5659	-.4832	-.4369	-.3089	-.2149
120.000		.7586	.9103	.7800	.5572	.0515	-.1805	-.1051	.0541	.2025	.4061	-.1998	-.0021	-.0668	-.1075
135.000			.8925	.7679	.5372	.0405	-.2204	-.1661	-.0139	.1457	.3403	-.0135	.1164	-.0778	-.1112
147.000		.7369	.8470	.7448	.5169	.0210	-.2679	-.2119	-.0491	.1139	.3268	.1028	.1858	-.1321	-.0905
162.000			.7576	.7100	.4768	-.0257	-.3337	-.2406	-.0795	.0909	.3079	.2180	.2300	-.8356	-.2014
180.000	1.1638	.6718	.6969	.6616	.4212	-.0803	-.4424	-.2913	-.0822	.0882	.2941	.2740	.2002	-.4573	-.3069
198.000			.7019	.6121	.3171	-.1680	-.3052	-.2170	-.0586	.0924	.2718	.2380	.1122	-.8998	-.3294
213.000		.6124	.7869	.4306	.0000	-.5880	-.6882	-.1538	-.0643	.0667	.2361	.1399	-.0543	-.2753	-.3579
225.000			.6096	.5508	.1894	-.2862	-.4371	-.1599	-.0132	.1407	.2902	.0555	-.1352	-.4150	-.3001
240.000		.5736	.5736	.5176	.2259	-.2431	-.3025	-.1131	.0625	.2058	.2806	-.0949	-.1548	-.3181	-.2318
270.000		.5689	.5892	.4735	.2232	-.2637	-.2032	-.0279	.1494	.3227	.5171	-.5623	-.4286	-.3722	-.1278
300.000		.5674	.5873	.4679	.2168	-.2603	-.4698	-.1276	.0153	.1246	.2046	-.3013	-.3644	-.2742	-.0805
330.000		.5526	.5732	.4912	.2405	-.2435	-.5672	-.2753	-.0859	.0349	.1232	.0000		-.1450	-.0691
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0421	-.0350	-.0256	-.0514	-.3150	-.3417									
30.000	-.0413	-.0365	-.0263	-.0317	-.2886	-.3482									
60.000	-.0226	-.0008	.0149	.0414	-.1152	-.3175									
90.000	-.0492	-.0070	.0214	-.0090	.4609	-.3133									
120.000	-.0451	.0274	.1277	.1570	.2059	-.3053									
135.000	-.0355	.0286	.1492	.3704	.3204										
147.000	.0007	.0592	.1844	.3064	.3012	-.3095									
162.000	-.1021	-.0142	.1297	.2601	.2362										
180.000	-.1490	-.0551	.0884	.1919	.1366	-.2949									
198.000	-.1986	-.0312	.1313	.0680	.0387										
213.000	-.2361	-.1394	.0706	.0058	-.1646	-.3099									
225.000	-.1483	-.0426	.0524	.0976	-.0612										
240.000	-.1096	-.0339	.0524	.0348	-.0605	-.3037									
270.000	-.0289	-.0127	.0278	.0329	.2767	-.3248									
300.000	-.0184	-.0116	.0024	-.0046	-.1799	-.3210									
330.000	-.0301	-.0180	-.0071	-.0314	-.2872	-.3175									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT17)

ALPHAT(4) = -.100 BETAT(1) = -6.167

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.1606	.5067	.6695	.5984	.3592	-.1342	-.4644	-.4984	-.1473	-.0169	.1572	-.1644	-.2198	-.1291	-.0697
30.000		.6802	.6916	.6821	.4467	-.0442	-.3624	-.3603	-.1479	.0008	.2007	-.2918	-.2416	-.1170	-.0596
60.000		.7384	.8124	.7507	.5179	.0251	-.2255	-.1713	-.0223	.1189	.3128	-.3949	-.2976	-.1815	-.0712
90.000		.7555	.8633	.7780	.5507	.0515	-.1874	-.0324	.1421	.3154	.5759	-.4050	-.4466	-.1879	-.0739
120.000		.7376	.8268	.7468	.5175	.0176	-.2068	-.1364	.0176	.1585	.3510	-.2785	-.0320	-.0449	-.0663
135.000			.7759	.7181	.4860	-.0058	-.2588	-.2134	-.0509	.1010	.2909	-.0762	.1006	-.0567	-.0788
147.000		.6924	.7273	.6901	.4555	-.0344	-.3070	-.2684	-.0828	.0756	.2758	.0606	.1673	-.1124	-.0550
162.000			.6609	.6492	.4081	-.0811	-.3987	-.2814	-.1022	.0584	.2647	.1856	.2191	-.7618	-.1840
180.000	1.1606	.6307	.6207	.6015	.3569	-.1376	-.5038	-.2402	-.0946	.0672	.2535	.2481	.1887	-.4872	-.2862
198.000			.5348	.5594	.2511	-.2259	-.3728	-.2197	-.0581	.0764	.2216	.2115	.1015	-.7583	-.2700
213.000		.5980	.7121	.4098	.0000	-.6179	-.6505	-.1572	-.0482	.0476	.2401	.1178	-.0699	-.2797	-.2587
225.000			.6606	.5224	.1603	-.3534	-.3895	-.1682	-.0104	.1306	.2539	.0183	-.1507	-.3673	-.2270
240.000		.5733	.5946	.4923	.2010	-.2900	-.2421	-.1065	.0558	.1836	.2528	-.1558	-.1853	-.2372	-.1738
270.000		.5567	.5699	.4769	.2198	-.2703	-.2221	-.0200	.1569	.3315	.5156	-.5037	-.5387	-.1968	-.0890
300.000		.5194	.6029	.4885	.2338	-.2439	-.4878	-.1252	.0312	.1498	.2193	-.2480	-.3555	-.1723	-.0750
330.000		.5209	.6780	.5273	.2827	-.2040	-.5420	-.2787	-.0907	.0432	.1560	.0000		-.1161	-.0611
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0438	-.0333	-.0263	-.0409	-.2773	-.3305									
30.000	-.0355	-.0261	-.0115	-.0127	-.2619	-.3159									
60.000	-.0058	.0093	.0295	.0531	-.1132	-.2974									
90.000	-.0137	.0109	.0732	.0859	.4310	-.3055									
120.000	-.0306	.0326	.1416	.1753	.1674	-.3082									
135.000	-.0257	.0360	.1636	.3602	.3069										
147.000	.0168	.0645	.1921	.3142	.2980	-.3120									
162.000	-.0867	-.0032	.1452	.2719	.2242										
180.000	-.1267	-.0427	.1041	.2110	.1201	-.2939									
198.000	-.1768	-.0400	.1418	.0912	.0309										
213.000	-.2167	-.1107	.0881	.0436	-.1362	-.3016									
225.000	-.1297	-.0255	.0676	.1220	-.0536										
240.000	-.1075	-.0396	.0486	.0490	-.0720	-.3082									
270.000	-.1044	-.0624	.0314	.0632	.3399	-.3228									
300.000	-.0438	-.0248	.0037	.0087	-.1136	-.3274									
330.000	-.0344	-.0305	-.0066	-.0206	-.2550	-.3467									

 ORIGINAL PAGE IS
 OF POOR QUALITY

ARC11-019 (A81 LVAPI(LHL SEALED) EXTERNAL TANK

(RETT17)

ALPHAT(4) = -.065 BETAT (5) = 6.407

SECTION (1)EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.1633	.4893	.6862	.5871	.3477	-.1373	-.4719	-.5147	-.1508	-.0228	.1534	-.1627	-.2083	-.1428	-.0732
30.000		.5026	.7050	.5083	.2688	-.2131	-.5465	-.2975	-.0833	.0414	.1592	-.1819	-.3761	-.1317	-.0683
60.000		.5140	.6015	.4681	.2194	-.2594	-.4459	-.1190	.0362	.1495	.2185	-.2915	-.4034	-.1946	-.0822
90.000		.5547	.5803	.4491	.2047	-.2692	-.1818	-.0160	.1684	.3415	.5243	-.3403	-.5515	-.1934	-.0656
120.000		.5684	.5871	.4695	.2205	-.2674	-.2365	-.0973	.0728	.2007	.2759	-.1613	-.1648	-.2176	-.1504
135.000			.5711	.4931	.2440	-.2327	-.4461	-.1497	.0100	.1531	.2366	-.0002	-.1141	-.3312	-.2234
147.000		.5562	.6080	.5147	.2647	-.2070	-.4978	-.1847	-.0304	.1205	.2362	.0732	-.0549	-.4584	-.2158
162.000			.6126	.5504	.3017	-.1856	-.4757	-.2213	-.0711	.0840	.2443	.1442	-.0102	-.7612	-.2764
180.000	1.1633	.5863	.6494	.5948	.3428	-.1414	-.4419	-.2556	-.1004	.0559	.2154	.2324	.1759	-.5235	-.3871
198.000			.7352	.6623	.3028	-.1195	-.4168	-.2423	-.1149	.0398	.2390	.2111	.2077	-.6991	-.3585
213.000		.6752	.6916	.6411	.0000	-.4124	-.5959	-.1268	-.1907	.0133	.2544	.1536	.1592	-.2793	-.0219
225.000			.7861	.7269	.4733	-.0483	-.2902	-.1684	-.0682	.0870	.2863	-.0219	.0311	-.0909	-.0701
240.000		.7459	.8769	.7631	.5053	.0349	-.2042	-.1375	.0107	.1586	.3583	-.2484	-.0428	-.0540	-.0694
270.000		.7568	.9244	.7928	.5585	.0571	-.1395	-.0346	.1311	.3053	.5683	-.5492	-.3929	-.1957	-.0734
300.000		.7344	.8526	.7585	.5257	.0357	-.2325	-.1748	-.0328	.1116	.3040	-.3510	-.2406	-.1768	-.0746
330.000		.6573	.7406	.6784	.4470	-.0476	-.3780	-.3789	-.1682	-.0068	.1832	.0000		-.1324	-.0653
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0536	-.0389	-.0310	-.0506	-.2907	-.3293									
30.000	-.0366	-.0216	-.0139	-.0229	-.2776	-.3308									
60.000	-.0325	-.0129	.0024	.0083	-.1246	-.3054									
90.000	-.0965	-.0697	.0278	.0604	.3392	-.3281									
120.000	-.0879	-.0370	.0460	.0387	-.0600	-.3135									
135.000	-.1214	-.0473	.0635	.1759	.0514										
147.000	-.1165	-.0442	.0695	.1584	-.0296	-.3212									
162.000	-.1677	-.0875	.0278	.1037	-.1149										
180.000	-.2279	-.1126	.0239	.1128	.0918	-.3874									
198.000	-.4617	-.2925	.1423	.1421	.3618										
213.000	-.0366	-.0154	.1796	.2090	.1609	-.3412									
225.000	-.0366	.0336	.1393	.2773	.2469										
240.000	-.0344	.0283	.1275	.1712	.1540	-.3020									
270.000	-.0223	.0085	.0620	.0835	.4306	-.3294									
300.000	-.0175	-.0029	.0259	.0439	.1149	-.3229									
330.000	-.0453	-.0420	-.0164	-.0257	-.2554	-.3259									

ORIGINAL DATA
 FROM THE
 OPERATIONAL DATA
 CENTER
 WASHINGTON, DC
 20340

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT17)

ALPHAT (5) = 2.092 BETAT (4) = 6.412

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.1678	.5113	.7485	.6445	.4116	-.0782	-.4239	-.4672	-.1476	-.0046	.1905	-.1349	-.1874	-.1324	-.0702
30.000		.4544	.7792	.5466	.3143	-.1721	-.5124	-.4445	-.0818	.0525	.1928	-.1560	-.3993	-.1294	-.0608
60.000		.4977	.7962	.4862	.2433	-.2430	-.5409	-.1138	.0499	.1789	.2500	-.2299	-.3900	-.1627	-.0623
90.000		.5177	.5967	.4594	.2057	-.2734	-.1956	-.0113	.1717	.3497	.5612	-.3080	-.5146	-.2543	-.0879
120.000		.5287	.5876	.4397	.1997	-.2817	-.2773	-.0854	.0659	.1812	.2626	-.2102	-.2048	-.2176	-.1353
135.000			.5631	.4624	.2107	-.2569	-.4586	-.1319	.0116	.1392	.2116	-.0172	-.1104	-.3243	-.2003
147.000		.5105	.5853	.4796	.2340	-.2426	-.5339	-.1644	-.0249	.1144	.2100	.0643	-.0543	-.4510	-.1954
162.000			.5741	.5066	.2559	-.2306	-.4972	-.2011	-.0632	.0830	.2181	.1375	-.0068	-.7568	-.2496
180.000	1.1678	.5678	.5817	.5432	.2850	-.1980	-.4673	-.2528	-.1015	.0463	.1947	.2186	.1820	-.5483	-.3673
198.000			.6355	.6094	.2351	-.1899	-.4552	-.2684	-.1315	.0164	.1982	.1966	.2013	-.6732	-.3387
213.000		.6357	.5859	.5750	.0000	-.5143	-.6622	-.1681	-.2355	-.0276	.2220	.1417	.1438	-.2815	-.0081
225.000			.6993	.6806	.4272	-.0935	-.2936	-.1985	-.0991	.0512	.2335	-.0703	.0110	-.0845	-.0597
240.000		.7084	.6669	.7266	.4570	-.0001	-.2194	-.1739	-.0237	.1155	.3017	-.3216	-.0919	-.0484	-.0439
270.000		.7561	.6984	.7091	.5582	.0550	-.1455	-.0343	.1325	.3026	.5647	-.5559	-.3602	-.1849	-.0363
300.000		.7629	.9282	.7936	.5638	.0704	-.2011	-.1453	.0027	.1538	.3573	-.2826	-.1619	-.1247	-.0627
330.000		.7091	.8227	.7361	.5094	.0100	-.3167	-.3269	-.1439	.0255	.2308	.0000		-.1078	-.0500

X/LT .5528 .6340 .7423 .8506 .9264 .9838

PHI															
.000	-.0444	-.0369	-.0264	-.0354	-.2485	-.3130									
30.000	-.0369	-.0298	-.0174	-.0134	-.2435	-.3272									
60.000	-.0429	-.0234	.0019	.0154	-.1066	-.3023									
90.000	-.1105	-.0805	.0182	.0738	.3673	-.3264									
120.000	-.0850	-.0196	.0670	.0658	-.0537	-.3023									
135.000	-.1064	-.0359	.0738	.1831	.0560										
147.000	-.1049	-.0374	.0856	.1732	-.0219	-.3007									
162.000	-.1657	-.0790	.0416	.1171	-.1143										
180.000	-.2239	-.1074	.0408	.1227	.0954	-.3632									
198.000	-.4630	-.2788	.1512	.1531	.3435										
213.000	-.0358	-.0128	.1827	.2233	.1576	-.3372									
225.000	-.0266	.0345	.1482	.2860	.2312										
240.000	-.0320	.0247	.1334	.1852	.1154	-.3015									
270.000	-.0091	.0103	.0867	.1127	.3780	-.3253									
300.000	-.0091	.0148	.0484	.0606	-.0897	-.3038									
330.000	-.0343	-.0200	-.0021	-.0068	-.2075	-.3218									

ORIGINAL PAGE IS
 OF POOR QUALITY

ARC11-019 IAB1 LVAPIELHL SEALED) EXTERNAL TANK

(RETT17)

ALPHAT(6) = 4.246 BETAT (4) = 4.313

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.1688	.5602	.8619	.7065	.4770	-.0176	-.3720	-.4086	-.1300	.0242	.2409	-.0909	-.1466	-.0846	-.0310
30.000		.4856	.9426	.6253	.3951	-.0956	-.4549	-.4162	-.0845	.0649	.2393	-.1312	-.3269	-.0782	-.0321
60.000		.4738	.9873	.5482	.3105	-.1751	-.4928	-.1316	.0445	.1951	.2969	-.2014	-.3079	-.0823	-.0302
90.000		.5026	.8444	.4971	.2527	-.2291	-.2970	-.0363	.1533	.3269	.5340	-.3304	-.5204	-.2435	-.0899
120.000		.5508	.5978	.4703	.2253	-.2678	-.3943	-.1154	.0289	.1422	.2328	-.2841	-.2085	-.2167	-.1211
135.000			.5735	.4744	.2170	-.2565	-.5233	-.1464	-.0094	.1078	.1849	-.0456	-.0711	-.2772	-.1532
147.000		.5629	.5731	.4748	.2271	-.2543	-.5753	-.1619	-.0348	.0932	.2005	.0556	-.0058	-.3938	-.1475
162.000			.6166	.4850	.2338	-.2528	-.5944	-.1857	-.0502	.0733	.1814	.1435	.0466	-.7351	-.1972
180.000	1.1688	.5932	.6196	.5122	.2474	-.2438	-.4722	-.2320	-.0905	.0457	.1868	.2163	.2016	-.5553	-.2649
198.000			.6056	.5580	.1670	-.2790	-.4817	-.2623	-.1250	.0139	.1899	.1902	.1842	-.6828	-.2586
213.000		.6251	.6056	.5247	.0000	-.5689	-.6653	-.2031	-.1925	.0225	.1734	.1121	.0999	-.2530	-.0170
225.000			.6442	.6141	.3402	-.1834	-.3046	-.2274	-.1137	.0477	.1883	-.0900	-.0358	-.1538	-.0738
240.000		.6660	.7349	.6543	.3860	-.0844	-.2179	-.2141	-.0570	.0779	.2420	-.3690	-.1526	-.1249	-.0610
270.000		.7062	.8067	.7270	.4982	-.0161	-.2043	-.0598	.1162	.2690	.5378	-.5982	-.3805	-.2094	-.0590
300.000		.7183	.9511	.7660	.5344	.0390	-.2304	-.1463	.0250	.1882	.3748	-.2138	-.1326	-.0655	-.0073
330.000		.6720	1.0312	.7603	.5321	.0315	-.3065	-.2854	-.1056	.0667	.2735	.0000		-.0648	-.0139
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0139	-.0037	.0036	.0013	-.2129	-.2977									
30.000	-.0173	-.0037	.0032	.0094	-.2152	-.3200									
60.000	-.0195	-.0034	.0127	.0329	-.0987	-.2908									
90.000	-.0746	-.0290	.0586	.0884	.3587	-.3096									
120.000	-.0769	.0001	.0957	.0914	-.0440	-.2935									
135.000	-.0769	-.0036	.0976	.1660	.0673										
147.000	-.0728	-.0018	.1002	.1742	-.0132	-.2904									
162.000	-.1241	-.0332	.0837	.1400	-.1137										
180.000	-.1485	-.0487	.0924	.1654	.0684	-.3526									
198.000	-.3769	-.1914	.1705	.1605	.2376										
213.000	-.0199	-.0006	.1921	.2209	.1960	-.3246									
225.000	-.0353	.0251	.1387	.2790	.1893										
240.000	-.0420	.0164	.1296	.1744	.0738	-.2843									
270.000	-.0420	-.0113	.0856	.1189	.4010	-.2980									
300.000	-.0052	.0017	.0355	.0629	-.0585	-.2930									
330.000	-.0034	.0028	.0233	.0212	-.1795	-.3157									

ORIGINAL PAGE IS OF POOR QUALITY

DATE 21 OCT 75

TABIA - PRESSURE SOURCE DATA TABULATION

PAGE 2975

ARC11-019 TAB1 (VAPOR (ELHL SEALED) EXTERNAL TANK

(RETT17)

ALPHAT (7) = 6.424 BETAT (1) = -4.044

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.1631	.6033	.9615	.7681	.5416	.0449	-.3153	-.3319	-.1228	.0408	.2780	-.0569	-.1226	-.0628	-.0160
30.000		.7083	1.0798	.8072	.5830	.0871	-.2549	-.2366	-.0714	.0900	.3211	-.1351	-.1854	-.0446	.0040
60.000		.6954	1.0741	.7765	.5506	.0551	-.2014	-.1321	.0409	.2149	.4108	-.2209	-.1535	-.0533	.0161
90.000		.6284	.9494	.6878	.4616	-.0279	-.2104	-.0778	.1060	.2691	.5102	-.4306	-.3476	-.2146	-.0371
120.000		.5501	.7828	.5775	.3493	-.1463	-.3258	-.2347	-.1011	.0224	.1806	-.4610	-.2113	-.2271	-.0422
135.000			.7098	.5313	.2923	-.1844	-.3646	-.3334	-.1353	-.0057	.1402	-.1531	.0194	-.1801	-.0722
147.000		.5193	.6360	.4994	.2595	-.2165	-.3570	-.3885	-.1338	-.0003	.1544	.0232	.0966	-.2063	-.0446
162.000			.5316	.4706	.2215	-.2523	-.4857	-.3474	-.1167	.0197	.1664	.1472	.1876	-.8093	-.1393
180.000	1.1631	.5645	.5241	.4475	.1879	-.2843	-.5981	-.2119	-.0877	.0404	.1664	.2123	.2180	-.5649	-.2019
198.000			.6033	.4179	.0891	-.3711	-.4774	-.2073	-.0752	.0339	.1240	.1754	.1224	-.6427	-.2668
213.000		.5467	.6325	.4236	.0000	-.6995	-.6072	-.1883	-.0562	.0135	.1471	.1039	.0123	-.2575	-.1999
225.000			.6271	.4300	.1155	-.3880	-.3573	-.1864	-.0487	.0527	.1371	-.0275	-.1072	-.3053	-.1438
240.000		.4885	.6237	.4477	.1645	-.2832	-.2772	-.1460	-.0195	.0858	.1779	-.3202	-.2469	-.2340	-.1088
270.000		.4634	.7751	.4880	.2403	-.2440	-.2544	-.0653	.1188	.2818	.4736	-.5584	-.3956	-.2502	-.1088
300.000		.4656	.9354	.5664	.3342	-.1516	-.4933	-.1502	.0297	.2049	.3465	-.1184	-.1676	-.0793	-.0213
330.000		.5333	.8940	.6758	.4465	-.0509	-.4063	-.3207	-.1029	.0717	.2585	.0000		-.0767	-.0290
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0011	.0004	.0146	.0154	-.1871	-.2902									
30.000	.0196	.0241	.0347	.0428	-.1782	-.3041									
60.000	.0226	.0320	.0541	.0824	-.0629	-.2829									
90.000	-.0282	.0066	.0951	.1030	.3412	-.2814									
120.000	-.0222	.0222	.1407	.1857	.0655	-.2818									
135.000	-.0207	.0328	.1627	.3272	.2412										
147.000	.0199	.0655	.1943	.2998	.2536	-.3110									
162.000	-.0399	.0161	.1669	.2747	.1570										
180.000	-.0855	.0066	.1426	.2336	.0732	-.2956									
198.000	-.1254	-.0022	.1468	.1468	-.0225										
213.000	-.1314	-.0402	.1224	.1133	-.0760	-.2906									
225.000	-.0693	.0009	.1117	.1728	-.0233										
240.000	-.0629	.0016	.1030	.1101	-.0321	-.2860									
270.000	-.1073	-.0671	.0455	.1101	.4519	-.2987									
300.000	-.0124	-.0056	.0299	.0525	-.0590	-.3076									
330.000	-.0196	-.0208	.0063	.0071	-.1705	-.3353									

ORIGINAL PAGE IS OF LOWER QUALITY

APC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT17)

ALPHAT(7) = 6.410 BETAT (5) = 4.337

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.1640	.5725	.9339	.7537	.5281	.0335	-.3217	-.3366	-.1327	.0298	.2748	-.0595	-.1273	-.0595	-.0177
30.000		.5316	.9160	.6589	.4289	-.0611	-.4138	-.3407	-.0970	.0626	.2725	-.1035	-.3158	-.0831	-.0316
60.000		.4705	.9392	.5509	.3195	-.1711	-.4859	-.1513	.0330	.2020	.3235	-.1718	-.2549	-.0809	-.0159
90.000		.4732	.7510	.4753	.2309	-.2509	-.2492	-.0551	.1299	.2920	.4886	-.3276	-.4197	-.2539	-.0844
120.000		.4674	.5639	.4354	.1820	-.3065	-.3037	-.1384	-.0013	.0958	.1820	-.3321	-.2316	-.2558	-.0991
135.000			.5822	.4259	.1729	-.3035	-.4448	-.1635	-.0295	.0809	.1488	-.0527	-.0660	-.3001	-.1402
147.000		.5320	.5547	.4199	.1733	-.3062	-.5599	-.1715	-.0466	.0713	.1588	.0531	.0002	-.3976	-.1361
162.000			.5228	.4217	.1759	-.3183	-.6240	-.1877	-.0557	.0589	.1538	.1437	.0587	-.7743	-.1908
180.000	1.1640	.5484	.5568	.4536	.1786	-.3258	-.5374	-.2298	-.0993	.0327	.1639	.2115	.2101	-.5892	-.2503
198.000			.5667	.4996	.0974	-.3677	-.5138	-.2749	-.1382	-.0050	.1441	.1799	.1722	-.6875	-.2300
213.000		.5392	.5225	.4555	.0000	-.6798	-.7162	-.2256	-.2289	-.0628	.1295	.1037	.0902	-.2592	-.0290
225.000			.6330	.5516	.2859	-.2221	-.2915	-.3131	-.1471	-.0116	.1384	-.0961	-.0539	-.1836	-.0807
240.000		.5622	.8551	.5978	.3395	-.1228	-.3510	-.2519	-.1030	.0200	.1796	-.4281	-.1977	-.1941	-.0569
270.000		.6348	.9621	.7012	.4710	-.0277	-.2137	-.0777	.0920	.2581	.4998	-.5860	-.3229	-.1859	-.0399
300.000		.6893	1.0726	.7806	.5556	.0610	-.2167	-.1339	.0356	.2053	.4049	-.1669	-.0938	-.0592	.0117
330.000		.7022	1.0794	.8031	.5786	.0791	-.2578	-.2454	-.0926	.0842	.3135	.0000		-.0546	.0063
X/LT	.5528	.6340	.7423	.8506	.9284	.9838									
PHI															
.000	-.0024	-.0012	.0029	.0111	-.1923	-.2909									
30.000	-.0163	-.0110	-.0025	.0107	-.1927	-.3178									
60.000	-.0091	.0044	.0211	.0457	-.0731	-.2839									
90.000	-.0856	-.0367	.0508	.0956	.4070	-.2955									
120.000	-.0555	.0055	.0956	.0964	-.0432	-.2866									
135.000	-.0607	.0963	.1013	.1817	.0633										
147.000	-.0532	.0059	.1074	.1798	-.0132	-.2774									
162.000	-.1006	-.0329	.0941	.1474	-.1212										
180.000	-.1278	-.0432	.1002	.1630	.0510	-.3444									
198.000	-.3687	-.1907	.1790	.1508	.2009										
213.000	-.0088	.0044	.1965	.2205	.0837	-.3201									
225.000	-.0280	.0325	.1421	.2766	.1621										
240.000	-.0374	.0203	.1299	.1748	.0318	-.2874									
270.000	-.0370	-.0074	.0968	.1237	.3735	-.3013									
300.000	.0191	.0203	.0610	.0768	-.0401	-.3009									
330.000	.0085	.0127	.0393	.0387	-.1529	-.3186									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT18)

ALPHAT(2) = -4.550 BETAT (1) = -4.078

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.2824	.7141	.7190	.6715	.4404	-.0082	-.3254	-.3945	-.4715	-.0337	.0271	.0696	-.1068	-.2639	-.1118
30.000		.7408	.7062	.7141	.4898	.0379	-.2943	-.3723	-.4456	-.0289	.0930	-.0332	-.3976	-.2016	-.0967
60.000		.7843	.7663	.7841	.5660	.1047	-.2395	-.3261	-.1077	.1343	.3319	-.1712	-.4595	-.2077	-.0836
90.000		.8436	.8736	.8595	.6402	.1725	-.1966	-.2759	.1826	.4466	.6858	-.2404	-.4180	-.4542	-.5226
120.000		.8873	.9809	.9076	.6944	.2116	-.1410	-.2293	.0079	.3549	.5602	.1338	.1787	.0866	-.0552
135.000			.9847	.9187	.6982	.2289	-.1343	-.2182	-.3047	.2689	.4295	.2523	.2715	.0752	-.0682
147.000		.8942	.9789	.9174	.6992	.2286	-.1299	-.2199	-.3263	.2314	.3868	.3299	.3404	.0428	-.0602
162.000			.9594	.9026	.6815	.2095	-.1430	-.2435	-.3534	.1932	.3609	.4214	.3951	-.5640	-.1272
180.000	1.2824	.8720	.9117	.8726	.6491	.1798	-.2017	-.2688	-.3456	.1693	.3175	.4818	.4183	-.0579	-.0957
198.000			.8891	.8336	.5598	.1051	-.1424	-.3401	-.1759	.1100	.2485	.4605	.3543	-.6428	-.1955
213.000		.8129	.9655	.6693	.0000	-.2883	-.5406	-.2127	-.2165	.0725	.2625	.3616	.2173	-.3043	-.1918
225.000			.8949	.7759	.4461	-.0443	-.2717	-.3424	-.0398	.1492	.2796	.3147	.1422	-.1607	-.1791
240.000		.7445	.7361	.7398	.4628	.0126	-.2707	-.3698	.0474	.1468	.2738	.2307	.1011	-.0686	-.1968
270.000		.7309	.7135	.6820	.4430	-.0138	-.3288	-.4080	.0110	.2331	.5770	-.3046	-.5360	-.6472	-.2460
300.000		.7305	.7546	.6442	.4123	-.0279	-.3305	-.3938	-.1076	-.0165	.1440	-.0822	-.2993	-.2340	-.0900
330.000		.7349	.7542	.6419	.4133	-.0339	-.3554	-.4134	-.4574	-.0190	.0197	.0000		-.2598	-.0861
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0069	-.0199	-.0362	.0667	-.0992	-.3538									
30.000	-.0353	-.0437	-.0480	.0707	-.0832	-.3541									
60.000	-.0537	-.0504	-.0366	.1181	.0713	-.3562									
90.000	-.2072	-.1129	.0167	.1120	.6109	-.3551									
120.000	-.1002	-.1445	.0092	.1925	.3372	-.3473									
135.000	-.1246	-.1705	.0993	.4251	.4151										
147.000	-.0908	-.1418	.1192	.3450	.4052	-.3387									
162.000	-.2169	-.2524	.0863	.3084	.3607										
180.000	-.1523	-.1047	.0434	.2462	.3016	-.3295									
198.000	-.3590	-.1772	.0153	.1269	.2032										
213.000	-.2704	-.2737	-.0182	.0809	-.1399	-.3480									
225.000	-.1992	-.2099	-.0097	.1130	.0239										
240.000	-.1717	-.2082	.0099	.0894	.0224	-.3425									
270.000	-.1390	-.1094	.0092	.1024	.3659	-.3278									
300.000	-.0524	-.0605	-.0182	.0949	.0060	-.3305									
330.000	-.0086	-.0281	-.0314	.0737	-.0259	-.3459									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT18)

ALPHAT(3) = -.141 BETAT (2) = -4.102

SECTION (1) EXTERNAL TANK	DEPENDENT VARIABLE CP														
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.2829	.7392	.7942	.7712	.5455	.0842	-.2522	-.3238	-.4136	-.0285	-.0975	.1004	-.0714	-.2324	-.1299
30.000		.8250	.7871	.8186	.5959	.1330	-.2190	-.2992	-.3843	.0203	.1317	.0343	-.3261	-.1568	-.0742
60.000		.8605	.8063	.8591	.6366	.1675	-.1856	-.2716	-.2686	.1954	.4087	-.0671	-.3563	-.1669	-.0369
90.000		.8753	.8124	.8726	.6535	.1812	-.1866	-.2665	.1282	.4418	.7109	-.0931	-.3928	-.2500	-.2621
120.000		.8662	.8063	.8557	.6346	.1585	-.1987	-.2793	-.1763	.2216	.4487	-.0096	.0329	.0212	-.0088
135.000			.7891	.8398	.6153	.1538	-.2182	-.2999	-.3536	.1216	.2789	.1180	.1697	.0273	-.0456
147.000		.8385	.7807	.8260	.5992	.1401	-.2408	-.2878	-.3664	.1010	.2077	.2162	.2557	.0101	-.0624
162.000			.7641	.8024	.5717	.1136	-.2149	-.2987	-.4117	.0880	.1677	.3231	.3374	-.5594	-.0654
180.000	1.2829	.8044	.7584	.7741	.5386	.0902	-.2631	-.3457	-.3221	.0347	.1276	.3614	.3790	-.3155	-.1144
198.000			.7769	.7491	.4407	.0247	-.2280	-.3930	-.0775	.0562	.1165	.3018	.3300	-.6340	-.1752
213.000		.7841	.8136	.6520	.0000	-.3228	-.5387	-.2571	-.2483	.0402	.1683	.2710	.1454	-.2898	-.1571
225.000			.8032	.7294	.3941	-.0680	-.2944	-.3916	-.1036	.0942	.1593	.2267	.0512	-.1426	-.1534
240.000		.7645	.7722	.7073	.4290	.0097	-.3150	-.3690	-.0173	.0614	.2039	.0974	.0036	-.0967	-.1480
270.000		.7499	.7782	.6962	.4551	.0033	-.2982	-.3805	-.0009	.3076	.6872	-.2089	-.3738	-.2242	-.1816
300.000		.7486	.7907	.7019	.4662	.0200	-.3225	-.3889	-.1449	.0272	.1980	.0424	-.2421	-.1832	-.0738
330.000		.7519	.7715	.7294	.4971	.0425	-.2938	-.3619	-.4497	.0147	.0515	.0000		-.2218	-.1109
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	.0005	-.0058	-.0249	.0945	-.0341	-.3258									
30.000	-.0109	-.0085	-.0357	.1058	-.0495	-.3309									
60.000	-.0170	-.0246	-.0201	.1560	.0802	-.3230									
90.000	-.1260	-.0479	.0465	.1516	.5799	-.3175									
120.000	-.0642	-.0851	.1165	.2817	.3739	-.3292									
135.000	-.0642	-.1219	.1232	.4394	.4438										
147.000	-.0143	-.0797	.1435	.4038	.4513	-.3522									
162.000	-.0864	-.1010	.1192	.3661	.3667										
180.000	-.1478	-.0976	.0863	.3031	.2554	-.3292									
198.000	-.2737	-.1564	.0596	.1919	.1773										
213.000	-.1894	-.2379	.0321	.1526	-.0563	-.3371									
225.000	-.1424	-.1699	.0531	.1863	.0691										
240.000	-.1334	-.1598	.0643	.1600	.0797	-.3213									
270.000	-.1045	-.0780	.0375	.1384	.5023	-.3224									
300.000	-.0226	-.0333	-.0007	.1233	.0612	-.3176									
330.000	-.0041	-.0174	-.0170	.0932	-.0329	-.3173									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 (A81 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT18)

ALPHAT(3) = -.122 BETAT (4) = 4.328

SECTION (1) EXTERNAL TANK	DEPENDENT VARIABLE CP														
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.2859	.7219	.8156	.7640	.5393	.0799	-.2602	-.3341	-.4165	-.0116	.0912	.0953	-.0521	-.2341	-.1323
30.000		.7459	.7781	.7113	.4886	.0370	-.2941	-.3699	-.4426	.0116	.0473	.0600	-.2047	-.2339	-.1109
60.000		.7490	.7964	.6843	.4547	.0045	-.3095	-.3885	-.1167	.0058	.1755	-.0109	-.3106	-.1899	-.0663
90.000		.7415	.7885	.6768	.4460	-.0049	-.3287	-.3909	-.0026	.3459	.7059	-.0650	-.4338	-.2395	-.2128
120.000		.7639	.7703	.6904	.4614	-.0039	-.3115	-.3784	-.0253	.0493	.2457	.0940	.0189	-.0924	-.1223
135.000			.7470	.7106	.4689	.0186	-.2986	-.3747	-.0324	.0349	.0799	.2703	.1086	-.1336	-.1235
147.000		.7683	.7338	.7228	.4909	.0310	-.2908	-.3784	-.0171	.0575	.1138	.2243	.1664	-.2078	-.0971
162.000			.7376	.7447	.5131	.0417	-.2990	-.3623	-.0236	.0630	.0939	.2459	.2310	-.7016	-.1608
180.000	1.2859	.7737	.7667	.7751	.5329	.0538	-.2652	-.3237	-.1387	.0411	.1056	.3295	.3606	-.1437	-.1880
198.000			.8332	.8140	.4765	.0142	-.2195	-.3379	-.3538	.0524	.1758	.3254	.3305	-.5204	-.1729
213.000		.8197	.8420	.8113	.0000	-.2053	-.4710	-.2078	-.3396	.0335	.2128	.3149	.2300	-.2749	-.0049
225.000			.8748	.8552	.5909	.0029	-.1527	-.3362	-.3041	.1013	.2701	.1546	.0900	-.0133	-.0060
240.000		.8742	.8582	.8730	.6174	.1624	-.2344	-.2458	-.2340	.2241	.4359	.0061	.0290	-.0009	.0018
270.000		.8816	.8369	.8054	.6570	.1781	-.1719	-.2705	.1122	.4365	.7001	-.2186	-.3076	-.2068	-.1622
300.000		.8603	.8275	.8626	.6369	.1714	-.1911	-.2675	-.2887	.1895	.3982	-.0342	-.3248	-.1491	-.0395
330.000		.8170	.8103	.8197	.5943	.1268	-.2303	-.3017	-.3944	.0192	.1302	.0000		-.1458	-.0770
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0003	-.0016	-.0361	.0948	-.0327	-.3222									
30.000	-.0003	-.0033	-.0192	.1006	-.0415	-.3229									
60.000	-.0130	-.0217	.0004	.1297	.0576	-.3092									
90.000	-.1098	-.0936	.0504	.1351	.5700	-.3051									
120.000	-.1402	-.2064	.0909	.1629	.0765	-.3051									
135.000	-.1376	-.2051	.0774	.2444	.1455										
147.000	-.1175	-.1970	.0737	.2411	.0744	-.3164									
162.000	-.2046	-.2625	.0508	.2082	.0187										
180.000	-.2159	-.2288	.0437	.2306	.1534	-.3099									
198.000	-.4634	-.3943	.0962	.2292	.3463										
213.000	-.0180	-.1159	.0732	.3017	.3066	-.3081									
225.000	-.0043	-.0618	.0647	.3402	.3733										
240.000	-.0254	-.0997	.0745	.2591	.3241	-.3051									
270.000	-.1001	-.0594	.0342	.1503	.5806	-.3129									
300.000	-.0153	-.0283	-.0206	.1421	.0867	-.3212									
330.000	-.0204	-.0172	-.0419	.0959	-.0252	-.3383									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT19)

ALPHAT(1) = -4.532 BETAT (3) = 4.378

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4967
PHI															
.000	1.3656	.7456	.7609	.7124	.4968	.0583	-.2341	-.2978	-.3658	-.3397	-.0102	.0349	-.0133	-.1975	-.2013
30.000		.7787	.7362	.6739	.4587	.0353	-.2493	-.3134	-.3731	-.2139	-.0164	-.0073	-.1656	-.1915	-.1915
60.000		.7711	.7800	.6752	.4549	.0325	-.2480	-.3181	-.3785	-.0495	-.0199	-.0357	-.3723	-.2283	-.1167
90.000		.7552	.7421	.7149	.4852	.0565	-.2466	-.3092	-.3225	.1561	.6330	-.1073	-.4236	-.4798	-.3877
120.000		.7733	.7291	.7638	.5471	.0965	-.2043	-.2650	-.3403	.0673	.0987	.2912	.0909	.0619	-.1240
135.000			.7615	.8048	.5783	.1428	-.1681	-.2434	-.3282	.0872	.1406	.1867	.1969	.0001	-.1773
147.000		.8045	.8318	.8378	.6159	.1715	-.1455	-.2304	-.3062	.0782	.1229	.2523	.2612	-.0615	-.1277
162.000			.9877	.8797	.6538	.1999	-.1341	-.2053	-.2715	-.1940	.1470	.2580	.3550	-.5309	-.1637
180.000	1.3656	.8576	1.1531	.9229	.6888	.2279	-.1067	-.1454	-.2693	-.2300	.1947	.3409	.4809	.0962	-.1464
198.000			1.3093	.9607	.6513	.1891	-.0336	-.1817	-.2104	-.1538	.1805	.3593	.4374	-.3345	-.1896
213.000		.8862	1.2553	.9708	.0000	-.0343	-.2832	-.0543	-.2441	-.1698	.2105	.3539	.3131	-.2521	.0410
225.000			1.2538	.9818	.7068	.2093	-.0314	-.1690	-.2207	.0515	.1825	.3115	.0654	.1082	.0516
240.000		.8993	1.2391	.9701	.7160	.2739	-.0784	-.1228	-.2500	.1902	.3301	.2064	-.0501	.1732	.0587
270.000		.8764	.9985	.9203	.6945	.2386	-.0940	-.1811	-.2664	.3716	.6975	-.0570	-.4900	-.3035	-.3593
300.000		.8258	.3073	.8426	.6156	.1750	-.1531	-.2135	-.3069	.0386	.2540	-.0783	-.4963	-.2375	-.112
330.000		.7759	.7575	.7671	.5443	.1059	-.2142	-.2705	-.3474	-.2452	-.0202	.0000		-.2044	-.1242
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0753	-.0110	-.0468	-.0263	-.0524	-.3050									
30.000	-.0598	-.0100	-.0433	-.0090	.0029	-.2983									
60.000	-.0639	-.0482	-.0535	.0420	.0506	-.2821									
90.000	-.1484	-.1377	-.0369	.0812	.4249	-.2767									
120.000	-.0668	-.2261	-.0268	.1083	.0934	-.2741									
135.000	-.0983	-.2255	-.0554	.1794	.1471										
147.000	-.0646	-.1943	-.0646	.1928	.0879	-.2837									
162.000	-.1327	-.1965	-.0428	.1666	.0969										
180.000	-.1144	-.1508	-.1101	.1915	.2298	-.2834									
198.000	-.3556	-.3145	-.1018	.1657	.3518										
213.000	.0070	-.1050	-.1041	.2227	.2659	-.2892									
225.000	.0032	-.0611	-.1270	.2369	.3290										
240.000	-.0176	-.0853	-.1350	.1490	.3116	-.3157									
270.000	-.0753	-.1250	-.0881	.0570	.6518	-.2979									
00.000	-.0643	-.0919	-.0731	.0103	.1339	-.3050									
330.000	-.0885	-.0741	-.0664	-.0261	-.0304	-.3195									

ORIGINAL PAGE IS OF POOR QUALITY

DATE 21 OCT 75

IABIA - PRESS.RE SOURCE DATA TABULATION

PAGE 2999

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT19)

ALPHAT(3) = 4.277 BETAT (1) = -4.099

SECTION (1)EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.3684	.7447	1.0552	.9199	.7022	.2464	-.0945	-.1663	-.2576	-.2332	.1297	.1477	.0763	-.1074	-.1193
30.000		.8342	1.2481	.9611	.7445	.2859	-.0633	-.1431	-.2273	-.1988	.1755	.1164	-.1413	-.1176	-.0460
60.000		.8896	1.0810	.9599	.7397	.2811	-.0611	-.1444	-.2324	.1717	.3262	.1448	-.3972	-.1055	-.0059
90.000		.8826	.9246	.9167	.6956	.2398	-.1072	-.1809	-.2582	.3639	.7037	-.0229	-.2852	-.2021	-.0441
120.000		.8339	.8371	.8402	.6214	.1644	-.1574	-.2204	-.2922	.0414	.2252	-.0901	-.1178	-.2034	-.0726
135.000			.8056	.8056	.5826	.1367	-.1730	-.2394	-.3236	-.0578	.0338	.0096	.1130	-.0025	-.1559
147.000		.8020	.7845	.7796	.5545	.1064	-.1917	-.2687	-.3459	-.1560	.0403	.0522	.2190	.1087	-.1675
162.000			.7799	.7494	.5208	.0501	-.2372	-.2822	-.3427	-.1366	.0577	.1321	.3584	-.2024	-.4114
180.000	1.3684	.7966	.8018	.7250	.4845	.0736	-.2165	-.3089	-.3571	-.0163	.0342	.1159	.4006	-.0140	-.2112
198.000			.8126	.7008	.3908	.0619	-.2134	-.3322	-.3341	-.0375	.0271	.1321	.2544	-.4430	-.0653
213.000		.7667	.8246	.6872	.0000	-.2091	-.4222	-.2426	-.3513	-.0307	.0635	.1430	.1876	-.2148	-.1136
225.000			.8065	.6978	.3879	.0253	-.2305	-.3348	-.3629	-.0211	.0267	.1296	.0681	-.1225	-.1464
240.000		.7451	.8240	.7085	.4327	.0733	-.2683	-.3045	-.3903	-.0053	.0248	.0124	-.0467	-.2011	-.0950
270.000		.7072	.8126	.7325	.4968	.0427	-.2458	-.3045	-.3652	.1440	.6124	-.1200	-.2026	-.1519	-.0350
300.000		.6502	1.1760	.7811	.5542	.1190	-.2013	-.2611	-.3394	.0517	.0696	.2721	-.1802	-.1205	-.0688
330.000		.6562	1.1087	.8514	.6288	.1802	-.1539	-.2222	-.3101	-.2701	.1022	.0000	-.1244	-.1329	
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0701	-.0455	-.0189	.0187	.0270	-.2525									
30.000	-.0379	-.0215	-.0154	.0464	.0244	-.2590									
60.000	-.0130	-.0155	-.0148	.0958	.1004	-.2357									
90.000	-.0010	-.0247	-.0094	.1402	.2289	-.2160									
120.000	.0227	.0110	-.0247	.3059	.3691	-.2341									
135.000	.0025	-.0183	-.0177	.4364	.5035										
147.000	.0839	.0260	.0355	.4259	.5412	-.2664									
152.000	.0018	-.0090	-.0084	.3889	.4559										
180.000	.0119	.0171	.0181	.3222	.3354	-.2545									
198.000	-.1108	-.0740	.0321	.2199	.2701										
213.000	-.0941	-.1597	.0315	.1685	-.0401	-.2887									
225.000	-.0433	-.0775	.0388	.1932	.1110										
240.000	-.0480	-.0743	.0477	.1681	.0788	-.2457									
270.000	-.0493	-.0546	.0241	.1242	.3477	-.2415									
300.000	-.0653	-.0282	-.0033	.0363	.1345	-.2509									
330.000	-.0777	-.0463	-.0192	.0141	.0365	-.2554									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT20)

ALPHAT (1) = -.164 BETAT (4) = .103

SECTION (1) EXTERNAL TANK				DEPENDENT VARIABLE CP											
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.4369	.8657	.9702	.8574	.6238	.1893	-.1073	-.1783	-.2450	-.2342	.0732	.0557	.0930	-.0523	-.1267
30.000		.8617	.9745	.8513	.6210	.1884	-.1058	-.1774	-.2453	-.2283	.0836	.0297	-.1237	-.1066	-.1030
60.000		.8704	.9568	.8494	.6201	.1866	-.1018	-.1764	-.2462	-.0501	.0845	.1669	-.3715	-.2059	-.0701
90.000		.8788	1.0150	.8519	.6176	.1896	-.1187	-.1814	-.2419	.1816	.5952	.1509	-.3259	-.2674	-.2340
120.000		.8828	1.0305	.8497	.6225	.1810	-.1072	-.1700	-.2422	-.0482	.1068	.1847	-.2419	-.0448	-.0095
135.000			1.0274	.8581	.6177	.1856	-.1057	-.1743	-.2490	-.2207	.1140	.2318	.1274	.0328	-.1017
147.000		.8874	1.0376	.8602	.6223	.1832	-.1134	-.1802	-.2348	-.2257	.1247	.1847	.2353	.0897	-.2140
162.000			1.0292	.8602	.6189	.1826	-.1156	-.1560	-.2431	-.2238	.1288	.1866	.2692	-.2510	-.1654
180.000	1.4369	.8936	1.0468	.8615	.6073	.2129	-.1023	-.1827	-.2338	-.2269	.1257	.1692	.4337	.1877	-.1417
198.000			1.0505	.8652	.5109	.1973	-.0760	-.2019	-.2183	-.2044	.0925	.1491	.3709	-.2358	-.1319
213.000		.8880	1.0628	.8565	.0000	-.0488	-.2668	-.1129	-.2534	-.2482	.0601	.2089	.2504	-.2324	.0272
225.000			1.0548	.8766	.5367	.1921	-.0822	-.1973	-.2386	-.1960	.0768	.1888	-.0226	.0087	-.0700
240.000		.8778	1.0254	.8770	.5846	.2304	-.1310	-.1684	-.2533	-.0773	.0972	.1782	-.2173	-.0024	-.0125
270.000		.8643	1.0023	.8766	.6211	.1710	-.1285	-.1734	-.2461	.1657	.5573	.0598	-.3005	-.2513	-.2272
300.000		.8661	.9837	.8687	.6229	.1961	-.1134	-.1712	-.2520	-.1120	.0859	.1764	-.2934	-.1839	-.0713
330.000		.8683	.9698	.8665	.6254	.1869	-.1211	-.1787	-.2533	-.2262	.0812	.0000		-.1088	-.1000
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0969	-.0462	-.0121	.0016	.0104	-.2654									
30.000	-.0720	-.0499	-.0174	.0001	.0644	-.2786									
60.000	-.0382	-.0373	-.0369	.0266	.1149	-.2595									
90.000	-.1372	-.1485	-.0921	.0840	.5403	-.2519									
120.000	-.0180	-.0348	-.1209	.1763	.3356	-.2485									
135.000	.0066	-.0494	-.1122	.3687	.3191										
147.000	.0272	-.0333	-.0738	.2845	.2779	-.3188									
162.000	-.0173	-.0252	-.1460	.2540	.2811										
180.000	-.0057	-.0066	-.0931	.2208	.2161	-.2934									
198.000	-.1710	-.1646	-.0322	.1831	.1172										
213.000	.0558	-.0292	-.0479	.1900	.1203	-.2855									
225.000	-.0078	-.0718	-.0066	.2468	.1831										
240.000	-.0265	-.0721	-.0938	.1463	.2468	-.2673									
270.000	-.1535	-.1460	-.0667	.0430	.5253	-.2701									
300.000	-.0382	-.0502	-.0353	.0119	.1008	-.2691									
330.000	-.0742	-.0546	-.0173	-.0069	.0747	-.2795									

ORIGINAL DATA FROM
 CONTROL SYSTEM

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT21)

ALPHAT(1) = -.072 BETAT (7) = 6.477

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4997
PHI															
.000	1.3672	.6866	.8637	.8035	.5818	.1413	-.1770	-.2486	-.3201	-.2997	.0328	.0569	.0111	-.1781	-.1591
30.000		.7015	.8556	.7254	.5054	.0792	-.2229	-.2916	-.3575	-.2603	.0229	.0594	-.1110	-.1762	-.1804
60.000		.7164	.7756	.6906	.4633	.0384	-.2442	-.3131	-.3718	-.0110	-.0141	.1079	-.2613	-.1844	-.1094
90.000		.7455	.7715	.6723	.4482	.0289	-.2641	-.3217	-.3426	.1424	.6313	.0495	-.3669	-.2189	-.2776
120.000		.7623	.7728	.6900	.4655	.0327	-.2650	-.3182	-.3693	.0088	.0241	.1580	-.0244	-.0882	-.1804
135.000			.7487	.7130	.4756	.0616	-.2454	-.2954	-.3677	.0088	.0447	.1498	.1215	-.1116	-.2433
147.000		.7547	.7386	.7314	.5004	.0801	-.2169	-.2926	-.3620	.0216	.0800	.1555	.1792	-.1556	-.2367
162.000			.7526	.7608	.5277	.1015	-.2112	-.2795	-.3404	.0162	.0472	.1517	.2336	-.5504	-.3097
180.000	1.3672	.7791	.7921	.8019	.5623	.1228	-.1824	-.2324	-.3255	-.2545	.1108	.2253	.3934	.0187	-.1930
198.000			.8718	.8677	.5158	.0845	-.1261	-.2313	-.2887	-.1869	.0575	.2354	.3522	-.3274	-.1804
213.000		.8622	.8392	.8452	.0000	-.1572	-.3489	-.1152	-.3185	-.1552	.0960	.2745	.2234	-.2587	.0158
225.000			.9271	.9301	.6773	.2321	-.0308	-.2002	-.2129	.0530	.1387	.1085	-.0626	.0956	.0438
240.000		.9278	.9834	.9616	.7087	.2939	-.0995	-.1428	-.2420	.1607	.3730	.0441	-.2651	.0306	.0721
270.000		.9414	.9888	.9870	.7649	.3021	-.0444	-.1136	-.2292	.4138	.7285	-.0101	-.3531	-.2455	-.2436
300.000		.9182	.9878	.9581	.7344	.2848	-.0798	-.1523	-.2327	.1539	.3794	.0720	-.4309	-.1660	-.0549
330.000		.8599	.8727	.8865	.6666	.2145	-.1200	-.1929	-.2869	-.2060	.0819	.0000		-.1757	-.0700
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.1170	-.0517	-.0492	-.0239	-.0236	-.3127									
30.000	-.0772	-.0263	-.0327	-.0361	-.0050	-.2834									
60.000	-.0423	-.0285	-.0223	-.0765	.1101	-.2976									
90.000	-.0934	-.1224	.0224	.1089	.5439	-.2780									
120.000	-.0376	-.1867	.0313	.1724	.1329	-.3030									
135.000	-.0916	-.1781	-.0077	.2378	.1652										
147.000	-.0784	-.1778	-.0064	.2397	.1130	-.3046									
162.000	-.1597	-.2443	-.0077	.2045	.0748										
180.000	-.1682	-.1686	-.0941	.2162	.2229	-.2892									
198.000	-.3718	-.3254	-.0747	.2292	.5556										
213.000	-.0277	-.0672	-.0337	.3080	.4476	-.2847									
225.000	.0525	-.0090	-.0604	.3253	.4937										
240.000	.0566	-.0181	-.0595	.2653	.4735	-.3018									
270.000	-.1427	-.1192	-.0652	.1018	.5569	-.2908									
300.000	-.0291	-.0688	-.0366	.0592	.1565	-.3020									
330.000	-.0665	-.0755	-.0591	-.0341	.0071	-.3174									

ORIGINAL PAGE IS OF POOR QUALITY

DATE 21 OCT 75

IA81A - PRESSURE SOURCE DATA TABULATION

PAGE 3019

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT22)

ALPHAT (1) = -.167 BETAT (4) = .112

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.2904	.8287	.9742	.7751	.5532	.0913	-.2500	-.3320	-.4128	-.0778	.0902	.1134	-.0338	-.2157	-.1105
30.000		.7367	1.0490	.7741	.5529	.0913	-.2514	-.3334	-.4118	.0094	.0653	.0977	-.2576	-.1875	-.0791
60.000		.7495	.9183	.7799	.5536	.0890	-.2487	-.3320	-.3629	.0635	.2927	-.0499	-.3172	-.1781	-.0417
90.000		.7950	.8546	.7831	.5549	.0910	-.2615	-.3378	.0142	.3904	.7086	-.0837	-.4075	-.2470	-.2123
120.000		.8223	.8428	.7845	.5552	.0843	-.2645	-.3344	-.1717	.1092	.3513	.0360	-.0075	-.0443	-.0470
135.000			.8442	.7892	.5552	.0970	-.2601	-.3072	-.3855	.0826	.1652	.2004	.1051	-.0476	-.0580
147.000		.8324	.8465	.7925	.5589	.0993	-.2282	-.3099	-.4064	.0799	.1423	.2496	.2008	-.0860	-.0370
162.000			.8459	.7909	.5559	.0906	-.2329	-.3323	-.3885	.0843	.1447	.2844	.2784	-.5673	-.0537
180.000	1.2904	.8273	.8439	.7915	.5492	.0830	-.2709	-.3033	-.1252	.0635	.1011	.2921	.3927	-.1576	-.0243
198.000			.8553	.7925	.4692	.0140	-.2077	-.3690	-.2070	.0557	.1169	.2891	.3026	-.5118	-.1071
213.000		.8055	.8630	.7747	.0000	-.2690	-.4903	-.2282	-.3151	.0581	.1880	.2678	.1776	-.2876	-.0423
225.000			.9000	.7941	.4945	.0060	-.2326	-.3555	-.2371	.0826	.1492	.2230	.0364	-.0637	-.0574
240.000		.7782	.9322	.7921	.5252	.0873	-.2679	-.3077	-.1435	.1119	.3339	.0511	-.0006	-.0453	-.0453
270.000		.7475	.9937	.7884	.5549	.0896	-.2306	-.3252	-.0080	.3785	.6950	-.2326	-.3276	-.2023	-.1472
300.000		.7495	1.0524	.7817	.5509	.0989	-.2709	-.3256	-.3740	.0693	.2763	-.0041	-.2809	-.1552	-.0514
330.000		.8081	1.0138	.7767	.5542	.0893	-.2628	-.3343	-.4281	.0050	.0697	.0000		-.1766	-.0812
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	.0260	.0203	-.0339	.0998	-.0431	-.3347									
30.000	.0247	.0173	-.0346	.1119	-.0076	-.3514									
60.000	-.0024	-.0091	-.0255	.1284	.0367	-.3337									
90.000	-.1142	-.0730	.0294	.1240	.5875	-.3183									
120.000	-.0952	-.1457	.0910	.1952	.2163	-.3207									
135.000	-.0902	-.1450	.0943	.3520	.2487										
147.000	-.0455	-.1154	.1149	.2704	.1809	-.3388									
162.000	-.1223	-.1534	.0876	.2421	.1130										
180.000	-.1226	-.1329	.0721	.2259	.0370	-.3374									
198.000	-.3259	-.2625	.0836	.2136	-.0226										
213.000	-.0471	-.1336	.0846	.2019	.0476	-.3327									
225.000	-.0755	-.1201	.0627	.2579	.1611										
240.000	-.0755	-.1275	.0654	.1648	.1608	-.3170									
270.000	-.0839	-.0642	.0229	.1182	.5227	-.3310									
300.000	-.0054	-.0194	-.0247	.1219	.0507	-.3344									
330.000	.0203	.0075	-.0321	.1096	.0163	-.3484									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT23) (04 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
 BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.400 RN/FT = 2.250
 ELV-18 = .000 ELV-08 = .000
 RUDDER = .000 SPDGRK = .000

BETAT (1) = .144 ALPHAT (1) = -6.846

SECTION (1)	EXTERNAL TANK														
	DEPENDENT VARIABLE CP														
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.4318	.7110	.7826	.6599	.4602	.0644	-.1921	-.2499	-.3043	-.2922	-.0131	.0161	.0262	-.1067	-.1857
30.000		.7052	.7823	.6998	.4783	.0736	-.1884	-.2514	-.3040	-.2919	-.0291	-.0686	-.1535	-.2054	-.1298
60.000		.7361	.7417	.7486	.5179	.1104	-.1626	-.2301	-.2897	-.0612	.0048	-.0491	-.5455	-.2700	-.1059
90.000		.7578	.7340	.6169	.5934	.1717	-.1290	-.1875	-.2535	.1466	.5447	.0308	-.5953	-.2286	-.2525
120.000		.8151	.7891	.9037	.6864	.2389	-.0703	-.1401	-.2080	.0810	.1854	.4064	.0649	.1597	.0720
135.000			.8334	.9489	.7217	.2855	-.0474	-.1151	-.1779	-.1720	.1920	.2316	.2654	.1202	.0355
147.000		.8761	.8553	.9770	.7520	.3138	-.0304	-.0857	-.1618	-.1636	.2152	.2783	.3486	.1539	-.0516
162.000			.8939	1.0029	.7738	.3319	-.0135	-.0643	-.1658	-.1410	.2217	.2653	.4406	-.2619	-.0911
180.000	1.4318	.9192	.9393	1.0110	.7791	.3518	-.0016	-.0785	-.1395	-.1391	.2337	.2696	.5520	.2755	-.0065
198.000			.9940	1.0026	.6968	.3144	.0373	-.1070	-.1268	-.1203	.2167	.2647	.4634	-.2345	-.0424
213.000		.8520	1.0521	.8799	.0000	-.0040	-.2264	-.0209	-.1829	-.1729	.1471	.2854	.3480	-.2511	.1249
225.000			1.0385	.9736	.6290	.2171	-.0292	-.1265	-.1996	-.1560	.2023	.2634	.2084	.1089	.0528
240.000		.7934	.9155	.9166	.6412	.2576	-.0758	-.1225	-.2212	.0876	.1860	.3937	.0921	.1573	.0592
270.000		.7631	.7625	.8279	.5951	.1791	-.1145	-.1863	-.2694	.1374	.5014	.0256	-.5447	-.2458	-.2617
300.000		.7336	.7520	.7504	.5185	.1128	-.1819	-.2318	-.2954	-.0709	-.0084	-.0632	-.4336	-.2621	-.1218
330.000		.7104	.7869	.7026	.4819	.0702	-.1998	-.2485	-.3195	-.2880	-.0275	.0000		-.1970	-.1260
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.1067	-.0273	-.0074	-.0257	.0057	-.2844									
30.000	-.0917	-.0405	-.0303	-.0278	.0088	-.3013									
60.000	-.0869	-.0687	-.0529	-.0151	.1387	-.2919									
90.000	-.0635	-.1553	-.0807	.0432	.6023	-.2878									
120.000	.0051	-.0635	-.1370	.0596	.2558	-.2972									
135.000	.0535	-.1157	-.1670	.2621	.2574										
147.000	.0829	-.0848	-.1039	.1905	.2114	-.2875									
162.000	.0220	-.0554	-.1293	.1632	.2981										
180.000	.0572	.0120	-.1692	.1421	.2608	-.2834									
198.000	-.1728	-.1723	-.1020	.1005	.1710										
213.000	.1083	-.0529	-.1100	.1095	.0446	-.2790									
225.000	.0511	-.0431	-.1324	.1528	.1025										
240.000	.0002	-.0582	-.1392	.0589	.1619	-.2841									
270.000	-.0549	-.1618	-.0905	.0282	.5037	-.2899									
300.000	-.0821	-.0993	-.0567	-.0250	.1259	-.2931									
330.000	-.0944	-.0628	-.0291	-.0344	.0163	-.3016									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT23)

BETAT (1) = .092 ALPHAT(5) = 2.066

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.4350	.9579	1.0608	.9041	.6718	.2348	-.0761	-.1464	-.2219	-.2139	.1085	.0657	.1209	-.0317	-.1076
30.000		.8994	1.0893	.8943	.6623	.2259	-.0779	-.1529	-.2235	-.2148	.1154	.0650	-.0872	-.0783	-.0864
60.000		.8926	1.0577	.8743	.6402	.2084	-.0896	-.1646	-.2347	-.0620	.1097	.2243	-.3641	-.1425	-.0449
90.000		.8836	1.0320	.8511	.6144	.1854	-.1241	-.1841	-.2499	.1759	.5977	.1410	-.2032	-.2268	-.0747
120.000		.8682	.9961	.8267	.5920	.1566	-.1343	-.1909	-.2549	-.0655	.0768	.1144	-.2328	-.1126	-.0928
135.000			.9810	.8218	.5799	.1548	-.1327	-.1943	-.2685	-.2375	.0805	.2153	.0816	.0387	-.1586
147.000		.8626	.9738	.8193	.5784	.1456	-.1442	-.2089	-.2632	-.2459	.0950	.1608	.1977	.0916	-.2413
162.000			.9748	.8171	.5682	.1281	-.1559	-.1906	-.2666	-.2509	.0962	.1636	.2271	-.2557	-.1565
180.000	1.4350	.8567	.9668	.8143	.5510	.1612	-.1401	-.2120	-.2611	-.2522	.0874	.1311	.4237	.1610	-.1580
198.000			.9640	.8236	.4565	.1547	-.1154	-.2324	-.2821	-.2293	.0619	.1361	.3376	-.2268	-.1429
213.000		.8620	.9680	.8177	.0000	-.0718	-.2898	-.1462	-.2790	-.2678	.0343	.1769	.2345	-.2240	-.0067
225.000			.9721	.8366	.5142	.1780	-.1101	-.2210	-.2558	-.2121	.0390	.1680	-.0601	.0200	-.1147
240.000		.8638	.9829	.8486	.5642	.1948	-.1439	-.2033	-.2662	-.0775	.0782	.0927	-.2070	-.0993	-.0528
270.000		.8773	1.0128	.8713	.6250	.1755	-.1235	-.1909	-.2502	.1608	.5530	.0813	-.2833	-.2097	-.0581
300.000		.8918	1.0453	.8906	.6492	.2157	-.1062	-.1630	-.2389	-.1320	.1086	.2482	-.2416	-.1325	-.0421
330.000		.9005	1.0799	.9038	.6712	.2285	-.0926	-.1565	-.2399	-.2086	.1136	.0000		-.0811	-.0795
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0789	-.0417	-.0183	.0109	-.0199	-.2589									
30.000	-.0635	-.0451	-.0235	.0127	-.0453	-.2778									
60.000	-.0282	-.0417	-.0285	.0496	.1017	-.2561									
90.000	-.0512	-.0950	-.0591	.0819	.3929	-.2529									
120.000	-.0098	-.0303	-.0808	.2049	.3503	-.2599									
135.000	-.0061	-.0121	-.0724	.4436	.3403										
147.000	-.0148	-.0077	-.0572	.3311	.3005	-.3083									
162.000	-.1197	.0022	-.1218	.2945	.2770										
180.000	-.0776	-.0124	-.0229	.2629	.2052	-.2847									
198.000	-.1845	-.1330	.0165	.2328	.1290										
213.000	-.0024	-.0189	-.0158	.2328	.1444	-.2869									
225.000	-.0260	-.0130	-.0403	.2788	.2209										
240.000	-.0230	-.0201	-.0490	.1735	.2651	-.2614									
270.000	-.0531	-.0653	-.0437	.0660	.4350	-.2649									
300.000	-.0346	-.0532	-.0254	.0322	.0992	-.2693									
330.000	-.0635	-.0554	-.0204	.0024	.0613	-.2819									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT24)

BETAT (1) = .110 ALPHAT(2) = -4.593

SECTION (1)	EXTERNAL TANK														
DEPENDENT VARIABLE CP															
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4897
PHI															
.000	1.3668	.7968	.8110	.7196	.4975	.0701	-.2185	-.2870	-.3551	-.3309	-.0032	.0543	.0080	-.1712	-.1979
30.000		.7917	.7980	.7357	.5101	.0792	-.2157	-.2835	-.3481	-.2712	-.0138	-.0218	-.1998	-.1883	-.1448
60.000		.7942	.7676	.7695	.5425	.1059	-.1940	-.2693	-.3392	-.0159	.0851	-.0593	-.4713	-.2599	-.1126
90.000		.8063	.7733	.8186	.5940	.1509	-.1736	-.2423	-.3148	.2459	.6588	-.0866	-.4958	-.3691	-.4057
120.000		.8587	.8190	.8748	.6569	.1951	-.1353	-.2050	-.2722	.1307	.2020	.2533	.0038	.1261	-.0247
135.000			.8269	.9042	.6773	.2310	-.1204	-.1752	-.2579	.0730	.1824	.3168	.2089	.0760	-.0534
147.000		.8974	.8564	.9254	.6955	.2467	-.0925	-.1571	-.2551	-.1413	.1943	.2994	.2810	.0567	-.1031
162.000			.8850	.9403	.7119	.2564	-.0697	-.1627	-.2494	-.2270	.2110	.3152	.4186	-.4634	-.1613
180.000	1.3668	.9234	.9011	.9454	.7125	.2608	-.1027	-.1461	-.2449	-.2090	.2193	.3248	.5253	.1267	-.0325
198.000			.9362	.9384	.6352	.2039	-.0390	-.2109	-.2160	-.1182	.1654	.3229	.4262	-.3959	-.1308
213.000		.8755	1.0035	.8521	.0000	-.1092	-.3316	-.0940	-.2732	-.1368	.1863	.3324	.2837	-.2494	.0022
225.000			1.0089	.9237	.6000	.1333	-.1011	-.2078	-.2799	.0601	.1895	.2816	.1343	.0514	-.0210
240.000		.8279	.9270	.8835	.6157	.1955	-.1343	-.1931	-.2940	.1294	.1911	.2603	.0187	.1071	-.0213
270.000		.8044	.7806	.8266	.5927	.1515	-.1578	-.2446	-.3232	.2423	.6425	-.1317	-.4859	-.3897	-.4048
300.000		.7901	.7522	.7788	.5415	.1119	-.2189	-.2668	-.3402	-.0175	.0707	-.0634	-.4251	-.2384	-.1132
330.000		.7945	.7961	.7395	.5114	.0761	-.2290	-.2881	-.3665	-.2716	-.0131	.0000		-.1858	-.1451
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0605	-.0070	-.0262	-.0137	-.0267	-.2897									
30.000	-.0539	-.0215	-.0405	.0028	-.0244	-.3064									
60.000	-.0592	-.0564	-.0586	.0359	.0382	-.2884									
90.000	-.1045	-.1556	-.0969	.0759	.5948	-.2820									
120.000	-.0756	-.1759	-.1588	.1108	.2328	-.2929									
135.000	-.0551	-.2028	-.1315	.3474	.2421										
147.000	-.0910	-.1616	-.1115	.2312	.1853	-.2864									
162.000	-.0611	-.1451	-.1277	.2045	.1943										
180.000	-.0476	-.1163	-.0734	.1858	.1352	-.2820									
198.000	-.3130	-.2910	-.0636	.1565	.0530										
213.000	-.0049	-.1350	-.0845	.1476	.0295	-.2849									
225.000	-.0441	-.1236	-.0985	.2142	.1072										
240.000	-.0683	-.1553	-.0909	.0922	.1519	-.2833									
270.000	-.1095	-.1632	-.0851	.0411	.4878	-.2865									
300.000	-.0677	-.0725	-.0559	.0180	.0279	-.2945									
330.000	-.0658	-.0329	-.0347	-.0164	.0058	-.3035									

ORIGINAL PAGE IS OF POOR QUALITY

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3033

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT24)

BETAT (1) = .087 ALPHAT(4) = -.146

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4997
PHI															
.000	1.3686	.8446	1.0139	.8230	.6022	.1560	-.1628	-.2339	-.3085	-.2794	.0650	.1013	.0536	-.1391	-.1644
30.000		.7695	1.0795	.8252	.6010	.1567	-.1622	-.2311	-.3054	-.2711	.0618	.0396	-.1380	-.1486	-.1257
60.000		.7834	.9622	.8331	.6035	.1573	-.1578	-.2336	-.3079	-.0483	.1312	.0602	-.3483	-.2037	-.0753
90.000		.8357	.8976	.8341	.6060	.1579	-.1636	-.2339	-.3066	.2672	.6747	.0479	-.3845	-.2820	-.3228
120.000		.8579	.8779	.8363	.6101	.1523	-.1608	-.2355	-.3117	.0701	.1605	.1152	-.1840	-.0538	-.0372
135.000			.8842	.8436	.6079	.1655	-.1690	-.2365	-.2987	.0354	.1119	.2600	.1079	-.0208	-.1011
147.000		.8252	.8827	.8429	.6135	.1718	-.1738	-.2235	-.2955	-.0341	.1431	.1813	.2353	.0008	-.1890
162.000			.8853	.8454	.6079	.1718	-.1475	-.2189	-.3139	-.1380	.1415	.2048	.3008	-.4443	-.2299
180.000	1.3686	.8544	.8784	.8429	.6013	.1787	-.1722	-.2259	-.3057	-.2118	.1376	.1946	.4675	.0603	-.1241
198.000			.8917	.8464	.5169	.1268	-.1237	-.2701	-.3078	-.1319	.1241	.2165	.3620	-.3920	-.1503
213.000		.8357	.8905	.8265	.0000	-.1377	-.3546	-.1589	-.3216	-.1813	.1245	.2480	.2276	-.2446	-.0233
225.000			.9369	.8169	.5410	.1161	-.1408	-.2602	-.3054	.0005	.0788	.2480	-.0374	-.0218	-.0769
240.000		.8072	.9889	.8422	.5736	.1837	-.1931	-.2164	-.3256	.0665	.1437	.1181	-.1892	-.0123	-.0363
270.000		.7815	1.0344	.8381	.6054	.1620	-.1674	-.2231	-.3224	.2480	.6542	-.0627	-.3305	-.2441	-.2224
300.000		.7929	1.0959	.8312	.6019	.1636	-.1690	-.2415	-.3211	.0457	.1184	.0898	-.3633	-.1729	-.0655
330.000		.8481	1.0455	.8237	.6032	.1538	-.1703	-.2355	-.3169	-.2757	.0573	.0000		-.1540	-.1211
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0674	-.0095	-.0093	.0006	-.0114	-.2740									
30.000	-.0585	-.0089	-.0163	.0169	.0294	-.2978									
60.000	-.0369	-.0274	-.0372	.0578	.0622	-.2801									
90.000	-.1186	-.1397	-.0851	.0772	.5856	-.2746									
120.000	-.0224	-.1241	-.1057	.1788	.3104	-.2724									
135.000	-.0142	-.1200	-.0778	.4178	.3040										
147.000	.0669	-.0994	-.0328	.2986	.2429	-.3081									
162.000	-.0469	-.1248	-.0188	.2605	.2076										
180.000	-.0387	-.0867	-.0061	.2399	.1402	-.2888									
198.000	-.2600	-.2549	.0016	.2135	.0596										
213.000	.0279	-.0927	-.0216	.2052	.0866	-.2901									
225.000	-.0394	-.0816	-.0407	.2616	.1710										
240.000	-.0482	-.1007	-.0407	.1514	.2096	-.2801									
270.000	-.0758	-.1219	-.0369	.0612	.5361	-.2820									
300.000	-.0406	-.0496	-.0337	.0300	.0760	-.2791									
330.000	-.0579	-.0229	-.0165	.0002	.0429	-.2955									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT24)

BETAT (1) = .103 ALPHAT(6) = 4.262

SECTION (1) EXTERNAL TANK	DEPENDENT VARIABLE CP														
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.3684	.6786	1.1305	.9226	.7067	.2485	-.0919	-.1662	-.2542	-.2326	.1386	.1695	.1043	-.0973	-.1246
30.000		.7533	1.3369	.9069	.6897	.2349	-.1029	-.1805	-.2602	-.2377	.1408	.1144	-.0639	-.1216	-.0865
60.000		.7549	1.2765	.8679	.6468	.1962	-.1300	-.2093	-.2879	.1047	.1747	.1479	-.3753	-.1237	-.0333
90.000		.7546	1.0335	.8151	.5945	.1512	-.1789	-.2443	-.2984	.3233	.7277	-.0028	-.3162	-.2214	-.0701
120.000		.8119	.7778	.7817	.5510	.0976	-.1986	-.2630	-.3379	-.0033	.1814	-.0241	-.1102	-.2420	-.1045
135.000			.8204	.7633	.5286	.0835	-.2122	-.2814	-.3528	-.0223	.0326	.1268	.0722	-.0837	-.1836
147.000		.8112	.8573	.7430	.5170	.0706	-.2290	-.2903	-.3410	-.0271	.0690	.1205	.2215	-.0345	-.2144
162.000			.8806	.7290	.5018	.0803	-.2227	-.2746	-.3601	-.0156	.0529	.1535	.2487	-.2858	-.2519
180.000	1.3684	.9014	.9139	.7316	.4883	.0989	-.2354	-.2892	-.3519	.0024	.0117	.1227	.3724	-.0647	-.0535
198.000			.9132	.7357	.3925	.0542	-.1922	-.3245	-.3309	-.0104	.0271	.1284	.2700	-.3191	-.0998
213.000		.8099	.9129	.7328	.0000	-.1561	-.3994	-.2192	-.3671	-.0522	.0771	.1710	.2037	-.2198	-.0780
225.000			.9123	.7606	.4782	.1039	-.1814	-.3067	-.3358	-.0217	.0297	.1287	-.0095	-.0862	-.1114
240.000		.8204	.8746	.7881	.5189	.1531	-.2189	-.2784	-.3512	.0130	.1437	-.0162	-.1084	-.2176	-.0575
270.000		.7823	.9716	.8220	.5904	.1316	-.1871	-.2542	-.3178	.2436	.6471	-.1020	-.2842	-.1955	-.0535
300.000		.7521	1.2744	.8690	.6468	.2003	-.1326	-.2001	-.2937	.0957	.1611	.2133	-.2458	-.1098	-.0204
330.000		.7498	1.3372	.9108	.6927	.2346	-.1128	-.1820	-.2669	-.2302	.1473	.0000		-.1174	-.0932
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0475	-.0208	-.0079	.0283	.0303	-.2574									
30.000	-.0526	-.0179	-.0104	.0331	.0193	-.2654									
60.000	-.0384	-.0233	-.0139	.0687	.1068	-.2522									
90.000	-.0230	-.0517	-.0025	.1428	.3614	-.2474									
120.000	.0107	-.0466	.0188	.2316	.2513	-.2496									
135.000	.0136	-.1371	.0436	.3748	.3327										
147.000	.0432	-.0088	.0686	.3392	.3112	-.2477									
162.000	.0306	-.0256	.0658	.3109	.2417										
180.000	.0032	-.0004	.0738	.2940	.1741	-.2564									
198.000	-.1061	-.1218	.0776	.2593	.1088										
213.000	-.0050	-.0682	.0646	.2507	.1194	-.2648									
225.000	-.0195	-.0406	.0327	.2755	.1796										
240.000	-.0038	-.0355	.0404	.1934	.1654	-.2464									
270.000	-.0337	-.0472	.0133	.1225	.3578	-.2493									
300.000	-.0375	-.0339	-.0090	.0493	.1091	-.2545									
330.000	-.0519	-.0323	-.0099	.0238	.0356	-.2641									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 (ABI LVAP(ELHL SEALED) EXTERNAL TANK

(RETT25)

BETAT (1) = .099 ALPHAT(3) = -2.353

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.2849	.7932	.8172	.7202	.4912	.0336	-.2957	-.3724	-.4511	-.0190	.0603	.0812	-.0656	-.2328	-.1008
30.000		.7746	.7898	.7246	.4986	.0416	-.2920	-.3694	-.4467	-.0105	.0405	.0853	-.2985	-.2278	-.0726
60.000		.7986	.7932	.7486	.5160	.0547	-.2763	-.3596	-.2354	.0558	.3109	-.1029	-.3891	-.1860	-.0632
90.000		.8061	.7726	.7762	.5451	.0804	-.2712	-.3411	.0435	.4122	.6974	-.1714	-.4527	-.2679	-.3410
120.000		.8230	.7709	.8008	.5780	.0958	-.2415	-.3140	-.0506	.1477	.3929	.1107	.0892	.0011	-.0987
135.000			.7739	.8194	.5854	.1209	-.2236	-.3043	-.2568	.1173	.2136	.2610	.1727	-.0272	-.0893
147.000	.8416		.7783	.8285	.5988	.1296	-.2148	-.3022	-.3312	.1153	.2020	.3110	.2403	-.0636	-.0444
162.000			.7840	.8369	.6021	.1283	-.2212	-.3194	-.3397	.1272	.1917	.3495	.3174	-.6105	-.0846
180.000	1.2849	.8460	.7894	.8379	.5998	.1209	-.2523	-.2757	-.3861	.1146	.1736	.3816	.4161	-.1048	-.0562
198.000			.8342	.8369	.5250	.0563	-.1797	-.3532	-.2547	.1071	.1903	.3650	.3403	-.5511	-.1678
213.000	.8078		.8659	.7924	.0000	-.2375	-.4923	-.2043	-.2693	.0965	.2536	.3363	.2244	-.2915	-.0763
225.000			.9010	.8317	.5237	.0165	-.2253	-.3394	-.1773	.1443	.2136	.2792	.1159	-.0488	-.0766
240.000		.8003	.8153	.8126	.5441	.0891	-.2452	-.3133	-.0225	.1378	.3768	.1255	.0836	-.0093	-.0870
270.000		.8010	.7597	.7854	.5495	.0781	-.2594	-.3539	.0302	.4023	.6899	-.2630	-.4023	-.4700	-.2536
300.000		.8000	.7904	.7579	.5217	.0617	-.2766	-.3455	-.2665	.0531	.2868	-.0748	-.2941	-.1849	-.0615
330.000		.7807	.8052	.7325	.5024	.0399	-.3029	-.3607	-.4503	-.0098	.0501	.0090		-.2157	-.0692
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	.0161	-.0001	-.0503	.0935	-.0539	-.3343									
30.000	.0117	-.0053	-.0500	.1034	-.0344	-.3562									
60.000	-.0244	-.0350	-.0405	.1099	.0086	-.3432									
90.000	-.1525	-.1081	.0118	.0980	.5985	-.3353									
120.000	-.1311	-.1848	.0669	.1430	.1994	-.3315									
135.000	-.1247	-.1820	.0750	.3318	.2253										
147.000	-.0806	-.1503	.0932	.2357	.1450	-.3387									
162.000	-.1709	-.1817	.0603	.2077	.0958										
180.000	-.1622	-.1702	.0424	.1958	.0374	-.3274									
198.000	-.3918	-.3063	.0529	.1691	-.0343										
213.000	-.0826	-.1645	.0600	.1677	.0176	-.3353									
225.000	-.0983	-.1493	.0360	.2349	.1310										
240.000	-.1113	-.1655	.0407	.1294	.1467	-.3308									
270.000	-.1448	-.1094	.0028	.0803	.4846	-.3350									
300.000	-.0300	-.0510	-.0411	.1001	.0159	-.3412									
330.000	.0054	-.0169	-.0475	.0946	-.0119	-.3576									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 JAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT25)

BETAT (1) = .102 ALPHAT (5) = 2.038

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.2866	.7597	.9751	.8214	.5984	.1316	-.2192	-.3020	-.3913	-.1499	.1331	.1450	-.0159	-.2104	-.1052
30.000		.7651	1.0399	.8118	.5897	.1262	-.2258	-.3095	-.3923	.0350	.1074	.1218	-.2244	-.1539	-.0861
60.000		.7895	.9477	.7959	.5696	.1038	-.2389	-.3216	-.3812	.0919	.3239	-.0034	-.2787	-.1468	-.0463
90.000		.7905	.9302	.7717	.5451	.0817	-.2705	-.3418	-.0152	.3846	.7088	-.0769	-.3752	-.1948	-.0436
120.000		.7692	.9383	.7458	.5244	.0516	-.2901	-.3634	-.1767	.0735	.3369	-.0300	-.0426	-.1208	-.0071
135.000			.9511	.7427	.5102	.0539	-.3039	-.3560	-.3710	.0483	.1153	.1391	.1170	-.0996	-.0370
147.000		.7557	.9690	.7397	.5098	.0519	-.2901	-.3425	-.4008	.0446	.0999	.2100	.1969	-.1121	-.0413
162.000			.9805	.7357	.5005	.0425	-.2725	-.3672	-.2392	.0426	.1043	.2454	.2604	-.5237	-.0456
180.000	1.2866	.7864	.9761	.7323	.4908	.0368	-.3164	-.3456	-.0250	.0272	.0547	.2340	.3638	-.2020	-.0109
198.000			.9741	.7394	.4067	-.0299	-.2540	-.4024	-.0246	.0129	.0622	.2434	.2746	-.4911	-.0584
213.000		.8145	.9694	.7394	.0000	-.2914	-.5088	-.2613	-.2950	.0293	.1330	.2431	.1739	-.2801	-.0186
225.000			.9805	.7509	.4590	-.0082	-.2573	-.3875	-.1465	.0538	.1033	.1563	.0297	-.0968	-.0456
240.000		.8084	1.0173	.7606	.4971	.0734	-.3120	-.3290	-.0974	.1032	.3092	-.0229	-.0464	-.1018	-.0059
270.000		.7735	1.0331	.7817	.5510	.0881	-.2414	-.3243	.0125	.3948	.6943	-.2379	-.3233	-.1745	-.0259
300.000		.7704	1.0345	.8018	.5761	.1189	-.2535	-.3300	-.3381	.1042	.3301	.0512	-.3014	-.1263	-.0483
330.000		.7735	1.0348	.8176	.5949	.1286	-.2353	-.3121	-.4012	.0406	.1074	.0000		-.1567	-.0823
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	.0204	.0233	-.0260	.0966	-.0313	-.3269									
30.000	.0167	.0170	-.0290	.1076	-.0098	-.3423									
60.000	-.0144	-.0031	-.0179	.1363	.0629	-.3201									
90.000	-.0368	-.0529	.0250	.1610	.4591	-.3098									
120.000	-.0599	-.1136	.0917	.2089	.1926	-.3105									
135.000	-.0655	-.1146	.0991	.3420	.2388										
147.000	-.0348	-.0900	.1190	.2822	.1876	-.3235									
162.000	-.0913	-.1271	.1020	.2538	.1003										
180.000	-.0916	-.1072	.0909	.2403	.0454	-.3180									
198.000	-.2681	-.2263	.1044	.2177	-.0122										
213.000	-.0255	-.1129	.1020	.2221	.0583	-.3160									
225.000	-.0582	-.0967	.0696	.2752	.1882										
240.000	-.0415	-.0879	.0726	.1810	.1467	-.3043									
270.000	-.0171	-.0394	.0294	.1571	.4222	-.3077									
300.000	-.0231	-.0195	-.0193	.1315	.0778	-.3159									
330.000	.0136	.0057	-.0271	.1056	.0114	-.3377									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT25)

BETAT (1) = .121 ALPHAT (7) = 6.410

SECTION (1)	EXTERNAL TANK														
X/LT	DEPENDENT VARIABLE CP														
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.2861	.6929	1.0911	.9199	.7072	.2353	-.1365	-.2219	-.3182	-.2504	.2300	.2030	.0354	-.1527	-.0718
30.000		.7658	1.2507	.8903	.6805	.2106	-.1612	-.2475	-.3358	-.0820	.1996	.1627	-.1586	-.1137	-.0778
60.000		.7040	1.1292	.8223	.6083	.1461	-.2087	-.2940	-.3687	.1468	.3451	.1128	-.2595	-.1086	-.0487
90.000		.6783	1.1117	.7416	.5250	.0693	-.2619	-.3543	-.0067	.3515	.6502	-.1573	-.2946	-.2048	-.0099
120.000		.6848	.8154	.6774	.4548	-.0055	-.3263	-.4001	-.2622	.0332	.3308	-.1718	-.1070	-.1782	.0021
135.000			.6861	.6602	.4244	-.0152	-.3530	-.4254	-.3149	-.0310	.0937	.0058	.1268	-.1537	.0057
147.000		.6993	.6966	.6552	.4137	-.0229	-.3671	-.4156	-.1619	-.0286	.0185	.1229	.2222	-.1248	.0014
162.000			.7826	.6380	.3997	-.0303	-.3408	-.4171	-.0779	-.0214	.0394	.1708	.2577	-.4055	-.0314
180.000	1.2861	.7462	.8065	.6236	.3819	-.0289	-.3779	-.4043	-.0438	-.0156	.0038	.1678	.3425	-.2784	-.0066
198.000			.7783	.6414	.2776	-.0954	-.3247	-.4539	-.0610	-.0333	.0322	.1756	.2392	-.4226	.0077
213.000		.7313	.7931	.6289	.0000	-.3236	-.5616	-.3118	-.2858	-.0159	.0390	.2046	.2036	-.2546	-.0250
225.000			.7668	.6654	.3906	-.0182	-.3024	-.4374	-.1705	-.0224	.0684	.0331	.0273	-.1588	-.0274
240.000		.6848	.9697	.6888	.4334	.0466	-.3432	-.4046	-.1852	.0349	.2700	-.1657	-.1268	-.1711	.0047
270.000		.6581	1.1237	.7544	.5267	.0700	-.2974	-.3631	-.0050	.3396	.6356	-.2727	-.2728	-.2156	-.0036
300.000		.6989	.1281	.8316	.6113	.1572	-.2134	-.2882	-.3394	.1454	.3356	.1571	-.2129	-.0965	-.0471
330.000		.7610	1.2370	.8981	.6834	.2103	-.1649	-.2406	-.3421	.0609	.2013	.0000		-.1066	-.0799
X/LT	.5526	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	.0084	.0504	.0193	.0764	.0502	-.3050									
30.000	.0181	.0464	.0119	.1080	.0500	-.3067									
60.000	.0281	.0390	.0193	.1502	.1465	-.2814									
90.000	.0157	-.0207	.0655	.2032	.4045	-.2756									
120.000	-.0057	-.0440	.1123	.2315	.1192	-.2777									
135.000	-.0164	-.0420	.1278	.3338	.2405										
147.000	-.0050	-.0254	.1463	.3112	.2173	-.3023									
162.000	-.0421	-.0497	.1399	.2852	.1034										
180.000	-.0368	-.0379	.1355	.2741	.0433	-.2937									
198.000	-.1358	-.1016	.1467	.2403	-.0044										
213.000	-.0532	-.0750	.1345	.2423	.0560	-.3050									
225.000	-.0188	-.0383	.1038	.2721	.1433										
240.000	.0019	-.0335	.1075	.2035	.0839	-.2948									
270.000	.0200	-.0168	.0646	.1902	.4355	-.2855									
300.000	.0293	.0308	.0210	.1428	.1695	-.2879									
330.000	.0163	.0375	.0163	.0943	.0674	-.3145									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 1AB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT26)

ALPHAT(2) = -4.441 BETAT (1) = -6.135

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3504	.4445	.4987
PHI															
.000	1.1577	.5110	.7001	.4796	.2382	-.2398	-.5431	-.5567	-.1413	-.0370	.0833	-.2091	-.2358	-.1512	-.0759
30.000		.4883	.8922	.5534	.3237	-.1566	-.4455	-.4469	-.1909	-.0629	.0940	-.3704	-.3190	-.1755	-.0851
60.000		.5026	.9765	.6589	.4350	-.0514	-.2750	-.2398	-.1171	.0116	.1883	-.5095	-.4702	-.2667	-.0925
90.000		.5881	.9682	.7588	.5336	.0478	-.1432	-.0383	.1268	.2855	.5309	-.5757	-.3004	-.4154	-.2439
120.000		.6452	1.0423	.8010	.5804	.0849	-.1421	-.0784	.0764	.2358	.4258	-.1343	.0129	-.0757	-.1197
135.000			1.0749	.8025	.5782	.0942	-.1711	-.1274	.0155	.1743	.3753	.0444	.1322	-.0821	-.1167
147.000		.6505	1.0590	.7882	.5658	.0778	-.2043	-.1677	-.0220	.1419	.3657	.1439	.2007	-.1346	-.0855
162.000			.9901	.7618	.5302	.0414	-.2439	-.2129	-.0546	.1128	.3515	.2431	.2379	-.8648	-.2155
180.000	1.1577	.5677	.9302	.7068	.4781	-.0144	-.2522	-.2685	-.0690	.1017	.3326	.2931	.2055	-.4444	-.3204
198.000			1.0274	.6461	.3705	-.1083	-.2945	-.2098	-.0618	.1033	.2987	.2514	.1213	-.9388	-.3512
213.000		.4629	1.0813	.4325	.0000	-.5726	-.6996	-.1496	-.0766	.0800	.2186	.1576	-.0405	-.2946	-.3711
225.000			.9185	.5306	.2139	-.2386	-.4239	-.1606	-.0163	.1422	.2856	.0762	-.1202	-.4334	-.3249
240.000		.4675	.9080	.5152	.2360	-.2151	-.3371	-.1231	.0579	.2137	.3085	-.0518	-.1365	-.3426	-.2480
270.000		.5510	.6412	.4568	.2075	-.2735	-.1957	-.0413	.1331	.2863	.4447	-.6306	-.4550	-.4405	-.1636
300.000		.5340	.7087	.4238	.1805	-.2843	-.3896	-.1413	-.0087	.0853	.1503	-.3690	-.3765	-.3077	-.0825
330.000		.4909	.5685	.4493	.1938	-.2836	-.5967	-.2280	-.0893	.0197	.0983	.0000		-.1591	-.0700
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0441	-.0332	-.0389	-.0648	-.3366	-.3727									
30.000	-.0557	-.0460	-.0416	-.0451	-.3015	-.3861									
60.000	-.0351	-.0089	.0098	.0306	-.1053	-.3485									
90.000	-.0546	-.0174	.0049	-.0319	.4798	-.3344									
120.000	-.0242	.0324	.1204	.1245	.1987	-.3194									
135.000	-.0257	.0340	.1405	.3729	.3203										
147.000	-.0170	.0642	.1748	.2888	.2678	-.3221									
162.000	-.0993	-.0148	.1116	.2392	.2297										
180.000	-.1540	-.0578	.0654	.1703	.1356	-.3206									
198.000	-.1960	-.0416	.1173	.0363	.0343										
213.000	-.2286	-.1587	.0526	-.0235	-.2055	-.3244									
225.000	-.1600	-.0507	.0340	.0618	-.0789										
240.000	-.1180	-.0442	.0389	.0048	-.0720	-.3309									
270.000	-.0332	-.0038	.0223	.0060	.3264	-.3505									
300.000	-.0100	-.0046	-.0008	-.0185	-.1982	-.3485									
330.000	-.0250	-.0167	-.0129	-.0506	-.3137	-.3512									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 (A81 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT26)

ALPHAT(3) = -2.213 BETAT (4) = 6.404

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4997
PHI															
.000	1.1635	.5490	.6134	.5290	.2930	-.1936	-.5167	-.5468	-.1471	-.0324	.1181	-.1860	-.2034	-.1558	-.0803
30.000		.5434	.5542	.4683	.2272	-.2507	-.5675	-.2412	-.0828	.0300	.1239	-.2033	-.3265	-.1551	-.0706
60.000		.5449	.5971	.4358	.1986	-.2774	-.3893	-.1253	.0189	.1301	.1964	-.3539	-.4333	-.2729	-.0803
90.000		.5504	.5577	.4475	.2009	-.2751	-.1872	-.0257	.1584	.3321	.5292	-.4072	-.4583	-.3511	-.1156
120.000		.4248	.8448	.4759	.2377	-.2492	-.3397	-.1071	.0767	.2221	.3039	-.1068	-.1546	-.2890	-.1949
135.000			.9149	.5088	.2643	-.2049	-.4789	-.1647	.0064	.1618	.2624	.0306	-.0947	-.3972	-.2678
147.000		.4975	.9043	.5444	.3076	-.1733	-.4778	-.1999	-.0351	.1238	.2613	.0911	-.0345	-.5116	-.2535
162.000			.9488	.5846	.3441	-.1354	-.4494	-.2356	-.0754	.0888	.2678	.1573	.0060	-.8401	-.3196
180.000	1.1635	.4793	.9708	.6402	.3987	-.0821	-.3907	-.2618	-.0928	.0708	.2486	.2526	.1852	-.5044	-.4192
198.000			1.0483	.7091	.3731	-.0491	-.3650	-.2154	-.0902	.0639	.2816	.2375	.2237	-.7445	-.4012
213.000		.5775	.8785	.7046	.0000	-.3111	-.5542	-.0901	-.1540	.0420	.2678	.1940	.1743	-.2779	-.0500
225.000			.9167	.7711	.5157	.0081	-.2572	-.1391	-.0351	.1184	.3270	.0313	.0494	-.1025	-.0959
240.000		.6385	1.0990	.7912	.5394	.0690	-.1747	-.1019	.0392	.1948	.3958	-.1741	-.0117	-.0661	-.1041
270.000		.6240	1.0872	.7855	.5571	.0588	-.1397	-.0362	.1282	.2972	.5610	-.5776	-.3877	-.3490	-.1852
300.000		.5580	1.0332	.7166	.4833	.0032	-.2555	-.2063	-.0773	.0574	.2486	-.4227	-.3089	-.2383	-.0887
330.000		.5474	.9420	.6207	.3877	-.1055	-.4139	-.4079	-.1919	-.0392	.1329	.0000		-.1685	-.0735
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0491	-.0383	-.0344	-.0599	-.3291	-.3548									
30.000	-.0259	-.0142	-.0174	-.0376	-.3119	-.3276									
60.000	-.0094	-.0007	-.0015	-.0069	-.1807	-.3348									
90.000	-.0191	-.0087	.0231	.0310	.3288	-.3268									
120.000	-.0896	-.0303	.0393	.0193	-.0518	-.3226									
135.000	-.1173	-.0439	.0457	.1455	.0252										
147.000	-.1241	-.0503	.0541	.1353	-.0591	-.3341									
162.000	-.1885	-.0988	.0101	.0754	-.1241										
180.000	-.2440	-.1247	.0090	.0936	.0864	-.3893									
198.000	-.4675	-.3041	.1332	.1163	.3909										
213.000	-.0428	-.0121	.1741	.1922	.1615	-.3444									
225.000	-.0424	.0324	.1313	.2787	.2522										
240.000	-.0379	.0283	.1219	.1521	.1833	-.3096									
270.000	-.0503	-.0080	.0245	.0021	.4666	-.3574									
300.000	-.0289	-.0132	.0162	.0301	-.1199	-.3524									
330.000	-.0495	-.0499	-.0304	-.0449	-.2877	-.4019									

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3063

ARC(1-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT26)

ALPHAT(5) = 2.054 BETAT (1) = -6.170

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.1615	.5228	.7371	.6513	.4134	-.0812	-.4227	-.4704	-.1519	-.0093	.1873	-.1407	-.2026	-.1181	-.0546
30.000		.7105	.7693	.7319	.4992	.0030	-.3164	-.3189	-.1295	.0236	.2346	-.2529	-.2159	-.1006	-.0477
60.000		.7560	.8611	.7807	.5496	.0522	-.2037	-.1481	.0031	.1562	.3571	-.3470	-.2132	-.1381	-.0522
90.000		.7533	.8721	.7705	.5429	.0465	-.1553	-.0420	.1344	.3053	.5722	-.4027	-.3769	-.1910	-.0322
120.000		.7014	.7864	.7047	.4782	-.0252	-.2388	-.1757	-.0273	.1091	.2964	-.3523	-.0753	-.0659	-.0458
135.000			.7337	.6546	.4311	-.0583	-.3087	-.2613	-.0919	.0550	.2392	-.1246	.0843	-.0666	-.0561
147.000		.6468	.6589	.6298	.3912	-.0943	-.3583	-.3291	-.1115	.0351	.2304	.0309	.1513	-.1105	-.0450
162.000			.6112	.5855	.3435	-.1428	-.4288	-.3668	-.1136	.0309	.2188	.1637	.2111	-.7390	-.1694
180.000	1.1615	.5869	.5976	.5435	.2919	-.1958	-.5481	-.2229	-.1021	.0481	.2135	.2308	.1850	-.5183	-.2764
198.000			.6120	.5088	.1877	-.2803	-.4511	-.2138	-.0611	.0573	.1651	.1933	.0961	-.7224	-.2598
213.000		.5762	.6805	.3945	.0000	-.6605	-.6481	-.1807	-.0418	.0286	.2354	.1121	-.0727	-.2945	-.2370
225.000			.6419	.4751	.1275	-.3938	-.3916	-.1693	-.0120	.1091	.1950	-.0032	-.1560	-.3388	-.2038
240.000		.5554	.5643	.4706	.1753	-.3010	-.2606	-.1101	.0405	.1562	.2311	-.2062	-.2150	-.2165	-.1671
270.000		.5436	.6082	.4706	.2141	-.2781	-.2382	-.0269	.1508	.3309	.5384	-.5020	-.5075	-.2267	-.1044
300.000		.5155	.6850	.4970	.2487	-.2281	-.5178	-.1299	.0340	.1685	.2484	-.1947	-.2873	-.1319	-.0608
330.000		.4688	.7614	.5594	.3208	-.1721	-.5219	-.3463	-.1021	.0479	.1793	.0000		-.1075	-.0615
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0443	-.0334	-.0226	-.0371	-.2530	-.3317									
30.000	-.0266	-.0135	-.0033	-.0045	-.2369	-.3310									
60.000	-.0123	.0124	.0403	.0519	-.1049	-.3158									
90.000	-.0071	.0097	.0857	.0933	.3526	-.3175									
120.000	-.0304	.0259	.1409	.1855	.1197	-.3283									
135.000	-.0266	.0324	.1674	.3626	.2886										
147.000	.0230	.0597	.1943	.3159	.2890	-.3244									
162.000	-.0799	-.0013	.1512	.2765	.2116										
180.000	-.1224	-.0415	.1140	.2154	.1058	-.2984									
198.000	-.1778	-.0491	.1519	.1047	.0139										
213.000	-.2056	-.1029	.0984	.0607	-.1359	-.3125									
225.000	-.1174	-.0218	.0745	.1333	-.0558										
240.000	-.1036	-.0358	.0669	.0681	-.0765	-.3267									
270.000	-.1080	-.0824	.0202	.0684	.3556	-.3368									
300.000	-.0431	-.0335	.0005	.0055	-.1064	-.3399									
330.000	-.0409	-.0369	-.0132	-.0232	-.2358	-.3552									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT26)

ALPHAT(6) = 4.229 BETAT (1) = -6.156

SECTION (1)EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PH:															
.000	1.1611	.5568	.7968	.7013	.4732	-.0192	-.3707	-.4135	-.1437	.0070	.2220	-.1045	-.1627	-.0915	-.0432
30.000		.7343	.9207	.7836	.5584	.0632	-.2690	-.2739	-.1056	.0561	.2822	-.2017	-.1880	-.0637	-.0182
60.000		.7625	.9821	.8084	.5813	.0875	-.1758	-.1279	.0290	.1912	.4009	-.2826	-.1615	-.0554	-.0055
90.000		.7264	.9351	.7507	.5330	.0435	-.1618	-.0485	.1267	.2920	.5534	-.4441	-.3501	-.1994	-.0559
120.000		.6476	.7991	.6645	.4339	-.0602	-.2743	-.2081	-.0691	.0576	.2460	-.4203	-.1241	-.1195	-.0298
135.000			.7004	.6093	.3756	-.1016	-.3337	-.3108	-.1293	.0104	.1842	-.1586	.0667	-.0927	-.0564
147.000		.5794	.6706	.5691	.3318	-.1403	-.3330	-.3886	-.1351	.0035	.1961	.0182	.1434	-.1225	-.0350
162.000			.6074	.5259	.2858	-.1959	-.4289	-.4899	-.1241	.0146	.1896	.1524	.2114	-.6994	-.1576
180.000	1.1611	.5331	.5875	.4865	.2385	-.2373	-.5651	-.2561	-.4932	.0416	.1827	.2218	.1911	-.5444	-.2674
198.000			.6029	.4602	.1310	-.3189	-.4819	-.1996	-.0638	.0435	.1270	.1796	.1042	-.6896	-.2565
213.000		.5515	.6972	.3945	.0000	-.6951	-.6403	-.1943	-.0336	.0161	.2147	.1117	-.0512	-.2843	-.2231
225.000			.6341	.4238	.0970	-.3998	-.4353	-.1679	-.0147	.0911	.1533	-.0105	-.1430	-.3330	-.1920
240.500		.5440	.5624	.4425	.1490	-.3003	-.2972	-.1079	.0275	.1299	.2071	-.2484	-.2469	-.2235	-.1572
270.000		.4687	.5699	.4578	.2028	-.2757	-.3190	-.0321	.1440	.3183	.5168	-.5564	-.4985	-.2242	-.1145
300.000		.4671	.6689	.5068	.2679	-.2089	-.5628	-.1290	.0389	.1900	.2792	-.1449	-.2581	-.0806	-.0354
330.000		.4668	.8129	.5992	.3648	-.1269	-.4834	-.5043	-.1000	.0549	.2086	.0000		-.0889	-.0492
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0316	-.0275	-.0171	-.0223	-.2266	-.3271									
30.000	-.0074	.0024	.0134	.0115	-.2131	-.3320									
60.000	-.0006	.0140	.0413	.0680	-.0744	-.3129									
90.000	-.0298	.0005	.0911	.1116	.3722	-.3072									
120.000	-.0148	.0340	.1545	.1988	.0963	-.3183									
135.000	-.0126	.0336	.1753	.3496	.2701										
147.000	.0270	.0645	.2043	.3163	.2827	-.3244									
162.000	-.0690	.0095	.1657	.2780	.2017										
180.000	-.1078	-.0277	.1222	.2204	.0917	-.3110									
198.000	-.1694	-.0447	.1529	.1177	.0070										
213.000	-.1911	-.0955	.1112	.0741	-.1282	-.3156									
225.000	-.1065	-.0146	.0851	.1508	-.0473										
240.000	-.1046	-.0266	.0825	.0861	-.0645	-.3095									
270.000	-.1020	-.0545	.0454	.0823	.3636	-.3269									
300.000	-.0313	-.0205	.0080	.0194	-.1023	-.3230									
330.000	-.0395	-.0349	-.0120	-.0115	-.2098	-.3563									

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAS1 LVAP(ELHL SEALED) EXTERNAL TANK

(RETT26)

ALPHAT(6) = 4.241 BETAT (5) = 6.424

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT	.0000	.0092	.0184	.0400	.0644	.1294	.1944	.2106	.2323	.2594	.2821	.3362	.3904	.4445	.4987
PHI															
.000	1.1610	.5410	.8341	.6908	.4606	-.0309	-.3788	-.4219	-.1587	-.0073	-.2138	-.1097	-.1534	-.2152	-.0486
30.000		.4571	.8333	.5783	.3474	-.1443	-.4929	-.4246	-.1008	.0435	.2138	-.1339	-.3572	-.1083	-.0543
60.000		.4380	.8880	.4860	.2462	-.2321	-.5354	-.1316	.0435	.1847	.2659	-.1939	-.3341	-.0883	-.0329
90.000		.4582	.5558	.4368	.1873	-.2879	-.2104	-.0285	.1551	.3237	.5260	-.3454	-.5239	-.2552	-.0933
120.000		.5150	.6053	.4213	.1722	-.3169	-.2598	-.1020	.0435	.1405	.2058	-.2648	-.2351	-.2288	-.1421
135.000			.5817	.4175	.1721	-.2935	-.4293	-.1391	-.0009	.1127	.1922	-.0374	-.1035	-.3141	-.1904
147.000		.5185	.5840	.4315	.1871	-.2913	-.4796	-.1653	-.0317	.0920	.1775	.0573	-.0423	-.4539	-.1859
162.000			.5662	.4508	.1992	-.2818	-.5108	-.2086	-.0659	.0643	.1814	.1307	-.0055	-.7726	-.2493
180.000	1.1610	.4750	.6600	.4856	.2232	-.2570	-.5036	-.2554	-.1114	.0256	.1659	.2087	.1767	-.5849	-.3449
198.000			.6597	.5496	.1574	-.2666	-.5040	-.2939	-.1524	-.0108	.1703	.1761	.1869	-.6608	-.3145
213.000		.5490	.5990	.4285	.0000	-.6068	-.7440	-.1907	-.2963	-.0715	.1595	.1186	.1257	-.2865	-.0119
225.000			.6878	.5180	.3703	-.1479	-.3016	-.2676	-.1471	.0057	.1760	-.0975	-.0180	-.1065	-.0509
240.000		.5902	.8685	.6728	.4196	-.0428	-.2370	-.2272	-.0797	.0557	.2456	-.4030	-.1424	-.1087	-.0359
270.000		.7140	.9688	.7683	.5452	.0504	-.1585	-.0474	.1093	.2838	.5422	-.5799	-.3704	-.1906	-.0505
300.000		.7375	1.1024	.8128	.5893	.0984	-.1816	-.1282	.0211	.1806	.3906	-.2272	-.1174	-.0535	-.0047
330.000		.7197	.9589	.7785	.5565	.0624	-.2786	-.2813	-.1278	.0420	.2683	.0000		-.0685	-.0219
X/LT	.5528	.6340	.7423	.8506	.9264	.9838									
PHI															
.000	-.0391	-.0294	-.0183	-.0311	-.2422	-.3245									
30.000	-.0343	-.0264	-.0138	-.0125	-.2349	-.3441									
60.000	-.0264	-.0129	.0002	.0083	-.1241	-.3145									
90.000	-.0707	-.0326	.0527	.0773	.3474	-.3364									
120.000	-.0883	-.0167	.0826	.0803	-.0624	-.3222									
135.000	-.1071	-.0270	.0833	.1902	.0502										
147.000	-.1029	-.0296	.0943	.1774	-.0291	-.3207									
162.000	-.1506	-.0716	.0463	.1182	-.1317										
180.000	-.2245	-.1083	.0425	.1224	.0908	-.3778									
198.000	-.4668	-.2800	.1529	.1546	.3156										
213.000	-.0391	-.0152	.1916	.2308	.1402	-.3563									
225.000	-.0271	.0328	.1605	.3010	.2175										
240.000	-.0249	.0233	.1435	.1998	.0957	-.3253									
270.000	-.0354	-.0073	.0865	.1132	.3972	-.3399									
300.000	-.0031	.0006	.0421	.0653	-.0697	-.3288									
330.000	-.0151	-.0081	.0076	.0062	-.1994	-.3346									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(SBHL UNSEALD) MISC. ORIFICES

(RETC01) (02 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
 BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0300 SCALE

PARAMETRIC DATA

MACH * 1.100 RN/FT * 3.000
 ELV-IB = .000 ELV-OB * .000
 RUDDER = .000 SPOBRK * 55.000

BETA0 (1) = .005 ALPHA0(1) = -6.286

SECTION (1) MISC. ORIFICES		DEPENDENT VARIABLE CP													
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2698	-.3093	-.3044	-.2989	-.3169	-.3187	-.2754	-.2872	-.3549	-.3091	-.3209	-.3167	-.2757	-.2724	-.3413
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000
.000	-.3250	-.2812	-.2648	-.3175	.0000	-.3648	-.3930	-.3280	-.8086	-.8078	-.8167	-.8289	-.8000	-.6964	-.7086

BETA0 (1) = -.006 ALPHA0(2) = -4.148

SECTION (1) MISC. ORIFICES		DEPENDENT VARIABLE CP													
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2509	-.2987	-.2874	-.2432	-.3018	-.3000	-.2601	-.2730	-.3390	-.2862	-.3136	-.3016	-.2584	-.2549	-.3200
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000
.000	-.3100	-.2616	-.2549	-.3011	.0000	-.3580	-.3732	-.3057	-.7861	-.7956	-.8011	-.8119	-.7799	-.7036	-.6744

BETA0 (1) = -.021 ALPHA0(3) = -2.025

SECTION (1) MISC. ORIFICES		DEPENDENT VARIABLE CP													
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2637	-.3014	-.2813	-.2451	-.3001	-.2988	-.2624	-.2718	-.3196	-.2969	-.3277	-.3032	-.2703	-.2515	-.3222
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000
.000	-.3060	-.2710	-.2413	-.3003	.0000	-.3375	-.3609	-.2807	-.7801	-.7956	-.7948	-.8055	-.7715	-.7135	-.6496

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 1A81 LVAP(SBHL UNSEALED) MISC. ORIFICES

(RETC01)

BETA0 (1) = -.030 ALPHA0(4) = .092

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2576 -.3018 -.2684 -.2514 -.3052 -.3033 -.2572 -.2620 -.3168 -.2937 -.3206 -.3091 -.2590 -.2515 -.3396

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000937.0000938.0000939.0000940.0000941.0000942.0000943.0000

.000 -.3164 -.2653 -.2465 .0000 .0000 .0000 .0000 .0000 -.7816 -.7891 -.7891 -.7984 -.7656 -.7059 -.6284

BETA0 (1) = -.026 ALPHA0(5) = 2.226

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2626 -.3130 -.2794 -.2765 -.3019 -.3027 -.2609 -.2754 -.3174 -.3171 -.3313 -.3283 -.2478 -.2340 -.3441

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000937.0000938.0000939.0000940.0000941.0000942.0000943.0000

.000 -.3243 -.2380 -.2320 -.2808 .0000 -.3197 -.3406 -.2470 -.7770 -.7734 -.7814 -.7871 -.7555 -.6886 -.6046

BETA0 (1) = -.018 ALPHA0(6) = 4.337

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2554 -.3106 -.2725 -.2565 -.2956 -.2992 -.2689 -.2798 -.3418 -.3182 -.3365 -.3253 -.2326 -.2179 -.3487

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000937.0000938.0000939.0000940.0000941.0000942.0000943.0000

.000 -.3363 -.2348 -.2114 -.2713 .0000 -.3222 -.3515 -.2750 -.7752 -.7327 -.7609 -.7557 -.7251 -.6624 -.5789

DATE 21 OCT 75

IA81A - PRESSURE SOURCE DATA TABULATION

PAGE 3079

ARC11-019 IA81 LVAP(SBHL UNSEALED) MISC. ORIFICES

(RETC01)

BETA0 (1) = -.001 ALPHAO(7) = 6.460

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2537	-.3142	-.2754	-.2565	-.2984	-.3002	-.2516	-.2790	-.2818	-.3227	-.3499	-.3266	-.2310	-.2172	-.3501
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000
.000	-.3388	-.2300	-.2152	-.2609	.0000	-.3487	-.3600	-.2808	-.7675	-.7164	-.7342	-.7334	-.7148	-.6549	-.5642

BETA0 (1) * .009 ALPHAO(8) = 8.583

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2587	-.3185	-.2987	-.2692	-.3056	-.3121	-.2659	-.2948	-.2557	-.3336	-.3559	-.3375	-.2210	-.2155	-.3617
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000
.000	-.3452	-.2275	-.2178	-.2554	.0000	-.3562	-.3584	-.2481	-.7501	-.7051	-.7230	-.7201	-.7049	-.6379	-.5423

ARC11-019 IAB1 LVAP(SBHL SEALED) MISC. ORIFICES

(RETC02) (02 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
 BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = .600 RN/FT = 3.200
 ELV-18 = .000 ELV-08 = .000
 RUDDER = .000 SPDBRK = 55.000

BETA0 (1) = -.006 ALPHAO(1) = -6.155

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.1811 -.2273 -.1934 -.1891 -.2331 -.2335 -.1996 -.1952 -.2288 -.2284 -.2591 -.2457 -.1909 -.1870 -.2411

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000 937.0000 938.0000 939.0000 940.0000 941.0000 942.0000 943.0000

.000 -.2404 -.1731 -.1934 -.1998 -.3046 -.2944 -.3201 -.2321 -.6935 -.7922 -.5523 -1.0521 -.7995 -.4315 -.2276

BETA0 (1) = -.020 ALPHAO(2) = -4.065

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.1665 -.2145 -.1771 -.1811 -.2189 -.2189 -.1902 -.1884 -.2221 -.2061 -.2461 -.2327 -.1800 -.1786 -.2334

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000 937.0000 938.0000 939.0000 940.0000 941.0000 942.0000 943.0000

.000 -.2238 -.1622 -.1761 -.2012 -.2689 -.2903 -.3100 -.2148 -.7200 -.8130 -.5517 -1.0866 -.7722 -.4048 -.1951

BETA0 (1) = -.028 ALPHAO(3) = -1.995

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.1685 -.1979 -.1718 -.1856 -.2157 -.2121 -.1879 -.1829 -.2286 -.1090 -.2440 -.2236 -.1782 -.1789 -.2257

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000 937.0000 938.0000 939.0000 940.0000 941.0000 942.0000 943.0000

.000 -.2133 -.1605 -.1789 -.1989 -.2833 -.2762 -.3023 -.1949 -.7110 -.8167 -.5548 -1.0836 -.7775 -.4008 -.1880

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3081

ARC11-019 IAB1 LVAP(SBHL SEALED) MISC. ORIFICES

(RETC02)

BETA0 (1) = -.031 ALPHA0(4) = .078

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.1759	-.1951	-.1755	-.1860	-.2065	-.2111	-.1938	-.1863	-.2338	-.1902	-.2528	-.2207	-.1867	-.1803	-.2215
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000
.000	-.2183	-.1675	-.1803	-.1923	-.2604	-.2646	-.2907	-.1812	-.7317	-.6282	-.5712	-1.1034	-.7872	-.3937	-.2024

BETA0 (1) = -.032 ALPHA0(5) = 2.167

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.1597	-.1797	-.1612	-.1685	-.1982	-.2000	-.1815	-.1750	-.2256	-.1794	-.2462	-.1982	-.1811	-.1698	-.2092
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000
.000	-.2064	-.1673	-.1740	-.1851	-.2601	-.2559	-.2788	-.1678	-.7400	-.8427	-.5883	-1.0975	-.7640	-.4181	-.2023

BETA0 (1) = -.026 ALPHA0(6) = 4.242

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.1607	-.1771	-.1669	-.1658	-.1976	-.1983	-.1788	-.1658	-.2164	-.1667	-.2236	-.1944	-.1787	-.1666	-.2212
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000
.000	-.2069	-.1680	-.1666	-.1881	-.2614	-.2600	-.2819	-.1590	-.7297	-.8230	-.5894	-1.0879	-.7709	-.3959	-.2086

ARC11-019 IAB1 LVAP(SBHL SEALED) MISC. ORIFICES

(RETC02)

BETA0 (1) = -.007 ALPHAG(7) = 6.338

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.1669	-.1776	-.1629	-.1552	-.1941	-.1959	-.1752	-.1647	-.2140	-.1618	-.2104	-.1907	-.1634	-.1533	-.2241
TAP NO	205.0000	206.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000
	.000	-.2119	-.1652	-.1598	-.1811	-.2546	-.2676	-.2863	-.1656	-.7251	-.8230	-.5731	-1.0017	-.7713	-.3939	-.2059

ARC11-019 IABI LVAP(SBHL SEALED) MISC. ORIFICES

(RETC03) (02 OCT 74)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
 BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0300 SCALE

MACH = .900 RN/FT = 3.500
 ELV-18 = .000 ELV-08 = .000
 RUDDER = .000 SPOBRK = 55.000

BETA0 (1) = .027 ALPHA0(1) = -6.277

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2230	-.2805	-.2738	-.2768	-.3025	-.3082	-.2669	-.2769	-.2968	-.2822	-.3019	-.3030	-.2670	-.2620	-.3273
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000	
	.000	-.3169	-.2572	-.2786	-.2871	-.3064	-.3050	-.3304	-.2681	-.6676	-.7034	-.6478	-.9111	-.8259	-.6209	-.4641

BETA0 (1) = .004 ALPHA0(2) = -4.157

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2296	-.2745	-.2750	-.2642	-.2935	-.2927	-.2585	-.2558	-.3020	-.2699	-.2986	-.3048	-.2566	-.2502	-.3150
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000	
	.000	-.2998	-.2445	-.2561	-.2817	-.2932	-.2944	-.3085	-.2405	-.6669	-.7148	-.6320	-.9155	-.8234	-.6105	-.4321

BETA0 (1) = -.020 ALPHA0(3) = -2.045

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2209	-.2598	-.2529	-.2618	-.2793	-.2791	-.2564	-.2586	-.2836	-.2603	-.2960	-.2829	-.2431	-.2448	-.2944
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000	
	.000	-.2858	-.2348	-.2427	-.2753	-.2926	-.2898	-.3119	-.2228	-.6948	-.7487	-.6424	-.9699	-.8473	-.6246	-.4183

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(SBHL SEALED) MISC. ORIFICES

(RETC03)

BETA0 (1) = -.030 ALPHA0(4) = .070

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2141 -.2552 -.2284 -.2397 -.2641 -.2695 -.2544 -.2454 -.2866 -.2415 -.2824 -.2691 -.2338 -.2276 -.2861

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000 937.0000 938.0000 939.0000 940.0000 941.0000 942.0000 943.0000

.000 -.2768 -.2300 -.2302 -.2664 -.2835 -.2897 -.3062 -.2071 -.6961 -.7586 -.6240 -.9836 -.8479 -.6148 -.3982

BETA0 (1) = -.035 ALPHA0(5) = 2.209

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2170 -.2483 -.2190 -.2404 -.2500 -.2517 -.2473 -.2367 -.2657 -.2287 -.2749 -.2644 -.2344 -.2296 -.2761

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000 937.0000 938.0000 939.0000 940.0000 941.0000 942.0000 943.0000

.000 -.2580 -.2220 -.2215 -.2643 -.2766 -.2766 -.2928 -.2024 -.6941 -.7525 -.5956 -1.0041 -.8497 -.6040 -.3824

BETA0 (1) = -.028 ALPHA0(6) = 4.323

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2118 -.2318 -.1983 -.2261 -.2439 -.2382 -.2175 -.2201 -.2603 -.2136 -.2657 -.2463 -.2065 -.2139 -.2637

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000 937.0000 938.0000 939.0000 940.0000 941.0000 942.0000 943.0000

.000 -.2475 -.2089 -.2093 -.2752 -.2799 -.2877 -.3041 -.2052 -.6942 -.7580 -.5693 -1.0183 -.8409 -.5705 -.3440

DATE 21 OCT 75

IA81A - PRESSURE SOURCE DATA TABULATION

PAGE 3085

ARC11-019 IA81 LVAP(SBHL SEALED) MISC. ORIFICES

(RETC03)

BETA0 (1) = .066 ALPHA0(7) = 6.247

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.1987	-.2211	-.1888	-.2039	-.2409	-.2421	-.2152	-.2194	-.2409	-.2036	-.2612	-.2377	-.2298	-.2317	-.2439
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000
.000	-.2355	-.2331	-.2266	-.2722	-.2812	-.2895	-.3032	-.2062	-.6900	-.7662	-.5534	-1.0121	-.8271	-.5586	-.3401

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 LVAP(SBHL SEALED) MISC. ORIFICES

(RETC04) (02 OCT 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
 BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.100 RN/FT = 3.000
 ELV-1B = .000 ELV-CB = .000
 RUDDER = .000 SFDRBK = 55.000

BETA0 (1) = .066 ALPHA0(1) = -4.854

SECTION (1) MISC. ORIFICES		DEPENDENT VARIABLE CP														
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2574	-.3022	-.2966	-.2587	-.3097	-.3087	-.2670	-.2820	-.3434	-.3018	-.3186	-.3083	-.2774	-.2667	-.3265
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000	
	.000	-.3156	-.2859	-.2649	-.3131	-.3706	-.3569	-.3802	-.3176	-.7981	-.8345	-.7569	-.9379	-.8709	-.6867	-.6362

BETA0 (1) = .066 ALPHA0(2) = -3.849

SECTION (1) MISC. ORIFICES		DEPENDENT VARIABLE CP														
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2651	-.3054	-.2927	-.2532	-.3093	-.3069	-.2661	-.2773	-.3382	-.2905	-.3131	-.3069	-.2732	-.2625	-.3254
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000	
	.000	-.3154	-.2832	-.2555	-.3029	-.3630	-.3569	-.3719	-.3092	-.7935	-.8391	-.7572	-.9414	-.8672	-.6818	-.6232

BETA0 (1) = .067 ALPHA0(3) = -1.842

SECTION (1) MISC. ORIFICES		DEPENDENT VARIABLE CP														
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2658	-.3066	-.2831	-.2562	-.3076	-.3087	-.2620	-.2741	-.3166	-.3021	-.3222	-.3056	-.2679	-.2547	-.3294
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000	
	.000	-.3174	-.2764	-.2462	-.3032	-.3367	-.3390	-.3507	-.2803	-.7936	-.8404	-.7474	-.9392	-.8616	-.6719	-.6013

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3087

ARC11-019 IAB1 LVAP(SBHL SEALED) MISC. ORIFICES

(RETC04)

BETA0 (1) = .067 ALPHA0(4) = .164

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2560	-.3054	-.2702	-.2509	-.2945	-.2958	-.2629	-.2631	-.3208	-.2936	-.3210	-.3056	-.2554	-.2514	-.3289
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000
.000	-.3081	-.2532	-.2437	-.2974	-.3126	-.3202	-.3458	-.2554	-.7981	-.8554	-.7464	-.9324	-.8554	-.6754	-.5919

BETA0 (1) = .067 ALPHA0(5) = 2.192

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2636	-.3081	-.2758	-.2812	-.3024	-.3006	-.2666	-.2734	-.3353	-.3158	-.3265	-.3265	-.2435	-.2315	-.3398
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000
.000	-.3253	-.2470	-.2343	-.2830	-.3161	-.3165	-.3390	-.2516	-.7891	-.8493	-.7439	-.9097	-.8364	-.6664	-.5742

BETA0 (1) = .066 ALPHA0(6) = 4.200

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2518	-.3079	-.2756	-.2583	-.3010	-.3023	-.2550	-.2827	-.2890	-.3200	-.3307	-.3303	-.2331	-.2196	-.3518
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000
.000	-.3380	-.2276	-.2231	-.2667	-.3324	-.3204	-.3508	-.2737	-.7687	-.8292	-.7321	-.8940	-.8140	-.6551	-.5569

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IABI LVAP(SBHL SEALED) MISC. ORIFICES

(RETC04)

BETA0 (1) = .066 ALPHA0(7) = 5.218

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2531	-.3161	-.2745	-.2505	-.2964	-.2972	-.2515	-.2840	-.2812	-.3135	-.3457	-.3236	-.2358	-.2233	-.3421
TAP NO	205.0000	206.0000	207.0000	208.0000	209.0000	210.0000	211.0000	212.0000	213.0000	214.0000	215.0000	216.0000	217.0000	218.0000	219.0000
.000	-.3419	-.2331	-.2128	-.2684	-.3375	-.3410	-.3580	-.2845	-.7635	-.8136	-.7302	-.8796	-.8063	-.6590	-.5386

DATE 21 OCT 75

LABIA - PRESSURE SOURCE DATA TABULATION

PAGE 3089

ARC11-019 LABI LVAPI58HL SEALED) MISC. ORIFICES

(RETC05) (02 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
 BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.250 RN/FT = 2.250
 ELV-1B = .000 ELV-0B = .000
 RUDDER = .000 SPOBRK = 55.000

BETA0 (1) = .069 ALPHAO(1) = -5.882

SECTION (1) MISC. ORIFICES		DEPENDENT VARIABLE CP															
TAP NO		1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2234	-.2559	-.2679	-.2370	-.2721	-.2698	-.2290	-.2481	-.2487	-.2274	-.2612	-.2631	-.2462	-.2374	-.2879	
TAP NO		205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	10940.0000	941.0000	942.0000	943.0000	
	.000	-.2726	-.2496	-.2318	-.2850	-.3155	-.2992	-.3254	-.2743	-.6753	-.7023	-.6546	-.7642	-.7000	-.5765	-.5953	

BETA0 (1) = .070 ALPHAO(2) = -3.880

SECTION (1) MISC. ORIFICES		DEPENDENT VARIABLE CP															
TAP NO		1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2198	-.2579	-.2570	-.2359	-.2705	-.2667	-.2257	-.2444	-.2556	-.2394	-.2699	-.2625	-.2350	-.2234	-.2859	
TAP NO		205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	10940.0000	941.0000	942.0000	943.0000	
	.000	-.2778	-.2356	-.2078	-.2711	-.2991	-.2868	-.3077	-.2473	-.6712	-.7003	-.6515	-.7579	-.6945	-.5732	-.5820	

BETA0 (1) = .070 ALPHAO(3) = -1.873

SECTION (1) MISC. ORIFICES		DEPENDENT VARIABLE CP															
TAP NO		1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2276	-.2625	-.2528	-.2512	-.2622	-.2600	-.2447	-.2523	-.2771	-.2574	-.2755	-.2781	-.2286	-.2109	-.2887	
TAP NO		205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	10940.0000	941.0000	942.0000	943.0000	
	.000	-.2802	-.2143	-.2140	-.2646	-.2708	-.2708	-.2896	-.2102	-.6658	-.6930	-.6490	-.7528	-.6981	-.5707	-.5590	

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 1A81 LVAP(SBHL SEALED) MISC. ORIFICES

(RETCOS)

BETA0 (1) = .070 ALPHAO(4) = .113

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2310 -.2559 -.2440 -.2478 -.2559 -.2553 -.2430 -.2459 -.2697 -.2656 -.2748 -.2740 -.2193 -.2034 -.2869

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000 937.0000 938.0000 939.0000 940.0000 941.0000 942.0000 943.0000

.000 -.2715 -.2093 -.2087 -.2654 -.2576 -.2588 -.2798 -.1942 -.6658 -.6961 -.6431 -.7508 -.6845 -.5639 -.5484

BETA0 (1) = .070 ALPHAO(5) = 2.177

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2309 -.2493 -.2331 -.2435 -.2490 -.2509 -.2400 -.2374 -.2699 -.2616 -.2721 -.2637 -.2068 -.1955 -.2863

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000 937.0000 938.0000 939.0000 940.0000 941.0000 942.0000 943.0000

.000 -.2612 -.1977 -.1980 -.2648 -.2646 -.2560 -.2741 -.1907 -.6648 -.6971 -.6385 -.7541 -.6819 -.5589 -.5321

BETA0 (1) = .070 ALPHAO(6) = 4.185

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2358 -.2717 -.2455 -.2549 -.2627 -.2588 -.2521 -.2521 -.2772 -.2798 -.2937 -.2939 -.1835 -.1835 -.2989

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000 937.0000 938.0000 939.0000 940.0000 941.0000 942.0000 943.0000

.000 -.2776 -.1788 -.1916 -.2340 -.2876 -.2697 -.2950 -.2230 -.6686 -.6991 -.6404 -.7616 -.6822 -.5601 -.5364

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3091

ARC11-019 IAB1 LVAP(SBHL SEALED) MISC. ORIFICES

(RETC05)

BETA0 (1) = .069 ALPHA0(7) = 6.212

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2268	-.2782	-.2388	-.2504	-.2578	-.2633	-.2461	-.2448	-.2913	-.2824	-.2932	-.2841	-.1850	-.1759	-.2941
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000
.000	-.2900	-.1806	-.1812	-.2289	-.2840	-.2754	-.2954	-.2216	-.6607	-.6986	-.6316	-.7588	-.6802	-.5517	-.5281

BETA0 (1) = .069 ALPHA0(8) = 7.214

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2349	-.2852	-.2426	-.2581	-.2655	-.2623	-.2409	-.2510	-.2745	-.2767	-.2890	-.2906	-.1816	-.1751	-.3034
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	937.0000	938.0000	939.0000	940.0000	941.0000	942.0000	943.0000
.000	-.2943	-.1823	-.1785	-.2278	-.2941	-.3015	-.3043	-.2116	-.6620	-.6966	-.6307	-.7589	-.6817	-.5516	-.5239

ARC11-019 IAB1 LVAP(ELHL UNSEALED) MISC. ORIFICES

(RETC06) (02 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
 BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = .600 RN/FT = 2.250
 ELV-1B = 8.000 ELV-0B = 4.000
 RUDDER = .000 SPDBRK = .000

ALPHA(1) = -6.048 BETA(1) = -.007

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.1601 -.1871 -.1659 -.1754 -.1802 -.1791 -.1814 -.1809 -.2140 -.2130 -.2366 -.2137 -.1604 -.1578 -.2148

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2096 -.1439 -.1677 -.1775 -.3110 -.2862 -.3175 -.2372

ALPHA(2) = -4.013 BETA(1) = -4.061

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.1703 -.1951 -.1740 -.1856 -.1867 -.1819 -.1959 -.1880 -.2337 -.1938 -.2452 -.2156 -.1678 -.1423 -.2410

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2224 -.1454 -.1567 -.2086 -.2885 -.2860 -.3176 -.2172

ALPHA(2) = -3.984 BETA(2) = .011

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.1661 -.1921 -.1687 -.1735 -.1788 -.1788 -.1841 -.1773 -.2177 -.2014 -.2329 -.2149 -.1662 -.1569 -.2118

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2025 -.1486 -.1651 -.1782 -.3001 -.2787 -.3134 -.2200

DATE 21 OCT 75

IA81A - PRESSURE SOURCE DATA TABULATION

PAGE 3093

ARC11-019 IA81 LVAP(ELHL UNSEALED) MISC. ORIFICES

(RETC06)

ALPHA(2) = -3.968 BETA(3) = 4.081

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.1708	-.2000	-.1771	-.1841	-.1936	-.1984	-.1900	-.1789	-.2284	-.2274	-.2442	-.2129	-.1718	-.2025	-.2223
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								

.000 -.2124 -.1510 -.2020 -.1853 -.2489 -.2596 -.2949 -.1795

ALPHA(3) = .074 BETA(1) = -6.097

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.1706	-.1981	-.1749	-.1833	-.1849	-.1796	-.1942	-.1842	-.2256	-.1748	-.2481	-.2109	-.1675	-.1737	-.2321
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								

.000 -.2119 -.1572 -.1706 -.2028 -.2792 -.2726 -.3170 -.2118

ALPHA(3) = .072 BETA(2) = -4.067

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.1624	-.1915	-.1645	-.1730	-.1788	-.1830	-.1950	-.1819	-.2354	-.1814	-.2197	-.2075	-.1625	-.1651	-.2324
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								

.000 -.2008 -.1594 -.1641 .0000 .0000 .0000 .0000 .0000

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAG: LVAP(ELHL UNSEALED) MISC. ORIFICES

(RETC06)

ALPHA(3) = .076 BETA(3) = -.005

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.1634	-.1815	-.1703	-.1693	-.1740	-.1746	-.1799	-.1726	-.2403	-.1915	-.2151	-.1990	-.1564	-.1538	-.2182

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
.000	-.2011	-.1590	-.1616	-.1781	-.2785	-.2729	-.2934	-.1815

ALPHA(3) = .087 BETA(4) = 4.063

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.1799	-.2091	-.1804	-.1735	-.1916	-.1857	-.1938	-.1791	-.2498	-.2063	-.2435	-.2179	-.1650	-.1909	-.2267

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
.000	-.2158	-.1489	-.1904	-.1795	-.2315	-.2487	-.2823	-.1547

ALPHA(3) = .090 BETA(5) = 6.100

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.1723	-.2079	-.1814	-.1654	-.1888	-.1814	-.1968	-.1831	-.2295	-.2131	-.2490	-.2166	-.1694	-.1907	-.2281

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
.000	-.2109	-.1424	-.1959	-.1963	-.2393	-.2434	-.2705	-.1652

DATE 21 OCT 75

IABIA - PRESSURE SOURCE DATA TABULATION

PAGE 3055

ARC11-019 IAB1 LVAP(ELHL UNSEALED) MISC. ORIFICES

(RETC05)

ALPHA0(4) * 4.240 BETA0 (1) * -4.061

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1684 -.1918 -.1939 -.1731 -.1662 -.1684 -.1964 -.1777 -.2306 -.1790 -.2153 -.2041 -.2334 -.1386 -.2463

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2156 -.1277 -.1516 -.1704 -.2911 -.2540 -.2932 -.1857

ALPHA0(4) = 4.239 BETA0 (2) = -.008

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1523 -.1730 -.1693 -.1423 -.1645 -.1624 -.1746 -.1553 -.2305 -.1684 -.1981 -.1785 -.1553 -.1424 -.2162

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.1987 -.1449 -.1563 -.1696 -.2657 -.2540 -.2789 -.1698

ALPHA0(4) = 4.236 BETA0 (3) = 4.070

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1641 -.1897 -.1780 -.1530 -.1732 -.1759 -.1915 -.1715 -.2479 -.1847 -.2410 -.2096 -.1508 -.1737 -.2262

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2033 -.1216 -.1674 -.1629 -.2478 -.2503 -.2889 -.1574

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL UNSEALD) MISC. ORIFICES

(RETC06)

ALPHA(5) = 8.382 BETA(1) = -.008

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.1560 -.1840 -.1708 -.1385 -.1634 -.1618 -.1804 -.1631 -.2243 -.1683 -.1856 -.1884 -.1413 -.1345 -.2355

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.1998 -.1402 -.1532 -.1616 -.2693 -.2836 -.3020 -.1733

ALPHA(6) = 10.453 BETA(1) = .004

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.1442 -.1792 -.1601 -.1271 -.1489 -.1495 -.1829 -.1575 -.2309 -.1734 -.1929 -.1797 -.1225 -.1231 -.2239

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.1953 -.1215 -.1470 -.1568 -.2804 -.2988 -.3003 -.1883

DATE 21 OCT 75

IABIA - PRESSURE SOURCE DATA TABULATION

PAGE 3097

ARC11-019 IAB1 LVAP(ELHL UNSEALD) MISC. ORIFICES

(RETC07) (02 OCT 74)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
 BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0300 SCALE

MACH * .900 RN/FT = 2.250
 ELV-1B * 8.000 ELV-08 = 4.000
 RUDDER * .000 SPDBRK = .000

ALPHA0 (1) = -11.207 BETA0 (1) = -4.037

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000
 .000 -.2120 -.2660 -.2593 -.2264 -.2648 -.2660 -.2346 -.2373 -.2765 -.2561 -.2480 -.2678 -.2523 -.2485 -.2769

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2701 -.2531 -.2258 -.2850 -.3310 -.3018 -.3613 -.2924

ALPHA0 (1) = -8.684 BETA0 (2) = -2.018

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000
 .000 -.2075 -.2545 -.2564 -.2190 -.2572 -.2557 -.2266 -.2374 -.2734 -.2614 -.2556 -.2591 -.2350 -.2324 -.2835

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2751 -.2320 -.2331 -.2695 -.3403 -.2916 -.3556 -.2901

ALPHA0 (1) = -6.128 BETA0 (3) = .034

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000
 .000 -.2164 -.2672 -.2660 -.2483 -.2518 -.2503 -.2439 -.2606 -.2676 -.2804 -.2784 -.2744 -.2368 -.2314 -.2847

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2771 -.2303 -.2406 -.2639 -.3128 -.2914 -.3517 -.2667

ARC11-019 IAB1 LVAP(ELHL UNSEAL) MISC. ORIFICES

(RETC07)

ALPHAO(1) = -6.115 BETAO (4) = 2.098

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2260	-.2619	-.2458	-.2541	-.2548	-.2580	-.2484	-.2518	-.2522	-.2775	-.2763	-.2714	-.2576	-.2698	-.2775
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.2748	-.2435	-.2717	-.2773	-.2947	-.2880	-.3301	-.2316							

ALPHAO(1) = -6.107 BETAO (5) = 4.143

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2316	-.2684	-.2684	-.2569	-.2628	-.2644	-.2485	-.2501	-.2450	-.2738	-.2800	-.2721	-.2706	-.2821	-.2782
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.2718	-.2405	-.2760	-.2821	-.2719	-.2562	-.2970	-.2046							

ALPHAO(2) = -4.084 BETAO (1) = -6.127

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2133	-.2583	-.2391	-.2250	-.2544	-.2548	-.2378	-.2417	-.2884	-.2370	-.2564	-.2561	-.2482	-.2376	-.2675
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.2591	-.2421	-.2263	-.3030	-.3037	-.3097	-.3753	-.2978							

DATE 21 OCT 75

IABIA - PRESSURE SOURCE DATA TABULATION

PAGE 3099

ARC11-019 IAB1 LVAP(ELHL UNSEALD) MISC. ORIFICES

(RETC07)

ALPHA0(2) = -4.075 BETA0 (2) = -4.085

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2057	-.2561	-.2385	-.2186	-.2608	-.2639	-.2354	-.2423	-.2861	-.2457	-.2573	-.2569	-.2479	-.2403	-.2716
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.2649	-.2501	-.2241	-.2904	-.3420	-.3111	-.3637	-.2883							

ALPHA0(2) = -4.057 BETA0 (3) = .023

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2123	-.2505	-.2438	-.2434	-.2438	-.2406	-.2362	-.2432	-.2633	-.2653	-.2645	-.2672	-.2258	-.2258	-.2710
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.2672	-.2266	-.2254	-.2685	-.2991	-.2785	-.3295	-.2447							

ALPHA0(2) = -4.038 BETA0 (4) = 4.117

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2283	-.2561	-.2466	-.2498	-.2561	-.2550	-.2450	-.2442	-.2469	-.2660	-.2738	-.2575	-.2556	-.2720	-.2694
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.2694	-.2372	-.2644	-.2775	-.2581	-.2510	-.2854	-.1947							

ARC11-019 IAB1 LVAP(ELHL UNSEALED) MISC. ORIFICES

(RETC07)

ALPHA0(2) = -4.037 BETA0 (5) = 6.169

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2380	-.2633	-.2542	-.2558	-.2621	-.2566	-.2540	-.2455	-.2459	-.2695	-.2722	-.2661	-.2673	-.2921	-.2737

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
.000	-.2680	-.2409	-.2753	-.2895	-.2411	-.2433	-.2636	-.1804

ALPHA0(3) = -2.013 BETA0 (1) = -6.133

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2106	-.2473	-.2201	-.2212	-.2477	-.2457	-.2207	-.2281	-.2745	-.2262	-.2550	-.2403	-.2416	-.2250	-.2597

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
.000	-.2513	-.2338	-.2220	-.2954	-.3412	-.3163	-.3690	-.2796

ALPHA0(3) = -2.004 BETA0 (2) = -2.060

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.1943	-.2432	-.2299	-.1998	-.2413	-.2456	-.2119	-.2181	-.2643	-.2327	-.2470	-.2431	-.2222	-.2211	-.2642

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
.000	-.2537	-.2204	-.2219	-.2666	-.3319	-.2961	-.3472	-.2734

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3101

ARC11-019 IAB1 LYAP(ELHL UNSEALED) MISC. ORIFICES

(RETC07)

ALPHA0(3) = -1.959 BETA0 (3) = 2.058

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2223	-.2541	-.2419	-.2451	-.2392	-.2451	-.2485	-.2419	-.2586	-.2524	-.2698	-.2570	-.2505	-.2627	-.2612
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.2577	-.2270	-.2608	-.2746	-.2522	-.2629	-.2987	-.1922							

ALPHA0(3) = -1.958 BETA0 (4) = 6.150

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2312	-.2568	-.2442	-.2399	-.2494	-.2478	-.2487	-.2436	-.2440	-.2584	-.2720	-.2586	-.2529	-.2769	-.2651
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.2582	-.2258	-.2647	-.2874	-.2462	-.2511	-.2734	-.1825							

ALPHA0(4) = .059 BETA0 (1) = -6.145

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2065	-.2495	-.2203	-.2270	-.2448	-.2479	-.2245	-.2214	-.2590	-.2133	-.2528	-.2438	-.2358	-.2225	-.2571
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.2495	-.2232	-.2156	-.2959	-.3312	-.3144	-.3588	-.2660							

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP (ELHL UNSEALED) MISC. ORIFICES

(RETC07)

ALPHA0(4) = .063 BETA0 (2) = -4.101

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2041	-.2461	-.2213	-.2107	-.2567	-.2602	-.2232	-.2205	-.2655	-.2182	-.2467	-.2462	-.2311	-.2239	-.2694
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.2558	-.2300	-.2114	-.2833	-.3281	-.3042	-.3430	-.2534							

ALPHA0(4) = .066 BETA0 (3) = -.005

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2128	-.2431	-.2203	-.2281	-.2270	-.2273	-.2298	-.2199	-.2510	-.2305	-.2514	-.2516	-.2181	-.2162	-.2577
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.2516	-.2215	-.2135	-.2602	-.2881	-.2915	-.3087	-.2116							

ALPHA0(4) = .078 BETA0 (4) = 4.088

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2139	-.2450	-.2230	-.2316	-.2423	-.2442	-.2267	-.2294	-.2131	-.2267	-.2665	-.2474	-.2356	-.2573	-.2584
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.2550	-.2113	-.2508	-.2884	-.2444	-.2586	-.2851	-.1814							

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3103

ARC11-019 IAB1 LVAP(ELHL UNSEALED) MISC. ORIFICES

(RETC07)

ALPHA0(4) = .082 BETA0 (5) = 6.135

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2300	-.2612	-.2257	-.2328	-.2418	-.2470	-.2389	-.2288	-.2160	-.2323	-.2734	-.2625	-.2388	-.2598	-.2628
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.2621	-.2129	-.2564	-.2968	-.2587	-.2650	-.2804	-.1821							

ALPHA0(5) = 2.177 BETA0 (1) = -6.133

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2091	-.2463	-.2114	-.2149	-.2393	-.2420	-.2164	-.2153	-.2551	-.2184	-.2559	-.2433	-.2297	-.2202	-.2502
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.2403	-.2160	-.2149	-.2949	-.3301	-.3071	-.3401	-.2513							

ALPHA0(5) = 2.184 BETA0 (2) = -2.056

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.1992	-.2328	-.2023	-.2019	-.2281	-.2289	-.2035	-.2085	-.2428	-.2131	-.2374	-.2305	-.2211	-.2124	-.2505
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.2358	-.2195	-.2128	-.2766	-.3077	-.2894	-.3144	-.2268							

ARC11-019 IABI LVAP(ELHL UNSEALD) MISC. ORIFICES

(RETC07)

ALPHA0(5) = 2.185 BETA0 (3) = 2.047

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2054	-.2301	-.2081	-.2211	-.2293	-.2258	-.2135	-.2135	-.2319	-.2142	-.2496	-.2353	-.2297	-.2372	-.2425

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
.000	-.2380	-.2126	-.2414	-.2754	-.2626	-.2685	-.2860	-.1845

ALPHA0(5) = 2.186 BETA0 (4) = 6.135

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2321	-.2637	-.2313	-.2361	-.2527	-.2467	-.2337	-.2303	-.2167	-.2268	-.2731	-.2665	-.2504	-.2638	-.2688

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
.000	-.2588	-.2165	-.2653	-.3024	-.2558	-.2736	-.2882	-.1879

ALPHA0(6) = 4.257 BETA0 (1) = -6.123

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2096	-.2511	-.2155	-.2233	-.2519	-.2488	-.2200	-.2243	-.2508	-.2120	-.2631	-.2488	-.2340	-.2223	-.2704

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
.000	-.2518	-.2170	-.2109	-.2898	-.3325	-.2941	-.3336	-.2434

DATE 21 OCT 75

IA81A - PRESSURE SOURCE DATA TABULATION

PAGE 3105

ARC11-019 IA81 LVAP(ELHL UNSEALD) MISC. ORIFICES

(RETC07)

ALPHA0(6) = 4.260 BETA0 (2) = -4.081

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2062	-.2355	-.2039	-.2137	-.2309	-.2320	-.2068	-.2087	-.2375	-.2075	-.2444	-.2345	-.2311	-.2141	-.2504
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.2390	-.2168	-.1998	-.2809	-.3122	-.2862	-.3245	-.2283							

ALPHA0(6) = 4.257 BETA0 (3) = -.003

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2046	-.2277	-.2054	-.2199	-.2164	-.2179	-.2111	-.2065	-.2342	-.2104	-.2407	-.2311	-.2103	-.2016	-.2383
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.2353	-.2020	-.1971	-.2617	-.2844	-.2822	-.3004	-.1980							

ALPHA0(6) = 4.257 BETA0 (4) = 4.093

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2054	-.2373	-.2062	-.2117	-.2290	-.2251	-.2128	-.2120	-.2244	-.2162	-.2476	-.2392	-.2221	-.2343	-.2411
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.2324	-.1906	-.2290	-.2784	-.2561	-.2686	-.2897	-.1906							

ARC11-019 IAB1 LVAP(EL4L UNSEALD) MISC. ORIFICES

(RETC07)

ALPHA(6) = 4.251 BETA(5) = 6.145

SECTION (1) MISC. ORIF. CES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2190	-.2504	-.2124	-.2147	-.2402	-.2418	-.2190	-.2152	-.2117	-.2105	-.2642	-.2499	-.2271	-.2442	-.2567
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.2499	-.1934	-.2389	-.2949	-.2659	-.2764	-.2987	-.2085							

ALPHA(7) = 6.353 BETA(1) = -4.069

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2037	-.2402	-.2119	-.2103	-.2288	-.2327	-.2116	-.2178	-.2381	-.2105	-.2566	-.2360	-.2269	-.2144	-.2519
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.2364	-.2212	-.2004	-.2719	-.3241	-.2959	-.3229	-.2232							

ALPHA(7) = 6.352 BETA(2) = -2.035

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2010	-.2293	-.2018	-.2144	-.2301	-.2321	-.2070	-.2073	-.2397	-.2031	-.2493	-.2275	-.2229	-.2164	-.2536
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.2339	-.2115	-.2081	-.2662	-.3139	-.2990	-.3221	-.2226							

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3107

ARC11-019 IAB1 LVAP(ELHL UNSEALD) MISC. ORIFICES

(RETC07)

ALPHA(7) = 6.347 BETA(3) = .010

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.1994	-.2315	-.2037	-.2088	-.2276	-.2276	-.2090	-.2017	-.2318	-.2040	-.2480	-.2352	-.2136	-.2117	-.2393
TAP NO	205.0000	206.0000	207.0000	208.0000	209.0000	210.0000	211.0000	212.0000	213.0000	214.0000	215.0000	216.0000	217.0000	218.0000	219.0000

.000	-.2299	-.2128	-.2019	-.2576	-.2915	-.2863	-.3049	-.2026
------	--------	--------	--------	--------	--------	--------	--------	--------

ALPHA(7) = 6.344 BETA(4) = 2.069

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2042	-.2230	-.2093	-.2187	-.2285	-.2293	-.2166	-.2066	-.2285	-.2112	-.2463	-.2317	-.2276	-.2295	-.2431
TAP NO	205.0000	206.0000	207.0000	208.0000	209.0000	210.0000	211.0000	212.0000	213.0000	214.0000	215.0000	216.0000	217.0000	218.0000	219.0000

.000	-.2416	-.2112	-.2283	-.2634	-.2741	-.2808	-.3006	-.2072
------	--------	--------	--------	--------	--------	--------	--------	--------

ALPHA(7) = 6.340 BETA(5) = 4.114

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2035	-.2279	-.2129	-.2161	-.2282	-.2235	-.2214	-.2195	-.2350	-.2222	-.2582	-.2372	-.2182	-.2330	-.2414
TAP NO	205.0000	206.0000	207.0000	208.0000	209.0000	210.0000	211.0000	212.0000	213.0000	214.0000	215.0000	216.0000	217.0000	218.0000	219.0000

.000	-.2361	-.1901	-.2216	-.2687	-.2632	-.2758	-.3055	-.2156
------	--------	--------	--------	--------	--------	--------	--------	--------

ARC11-019 IAB1 LVAP(ELHL UNSEALED) MISC. ORIFICES

(RETC03) (02 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
 BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.100 RN/FT = 3.000
 ELV-1B = 8.000 ELV-0B = 4.000
 RUDDER = .000 SPOBRK = .000

ALPHA(1) = .064 BETA(1) = -6.230

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000
 .000 -.2624 -.3172 -.2848 -.2894 -.3005 -.2961 -.2892 -.2960 -.3302 -.3145 -.3456 -.3243 -.2473 -.2356 -.3399
 TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000
 .000 -.3210 -.2518 -.2396 -.3138 -.3650 -.3453 -.3939 -.2925

ALPHA(1) = .071 BETA(2) = -4.159

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000
 .000 -.2636 -.3236 -.2695 -.2850 -.3057 -.3096 -.2842 -.2875 -.3145 -.3198 -.3471 -.3330 -.2482 -.2377 -.3510
 TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000
 .000 -.3345 -.2562 -.2357 -.3014 -.3581 -.3482 -.3935 -.2980

ALPHA(1) = .075 BETA(3) = -.029

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000
 .000 -.2762 -.3045 -.2550 -.2713 -.2977 -.2962 -.2879 -.2780 -.3507 -.3278 -.3230 -.3098 -.2467 -.2475 -.3373
 TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000
 .000 -.3010 -.2485 -.2450 -.2635 -.3231 -.3280 -.3540 -.2700

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3109

ARC11-019 IAB1 LVAP(ELHL UNSEALED) MISC. ORIFICES

(RETC08)

ALPHA0(1) = .094 BETA0 (4) = 4.123

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2844	-.3173	-.2873	-.2779	-.3054	-.3054	-.3020	-.2877	-.3432	-.3221	-.3501	-.3323	-.2420	-.2417	-.3490
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.3318	-.2455	-.2460	-.2887	-.3202	-.3216	-.3288	-.2383							

ALPHA0(1) = .103 BETA0 (5) = 5.207

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2926	-.3206	-.2913	-.2823	-.2885	-.2898	-.3092	-.2934	-.3362	-.3194	-.3479	-.3410	-.2450	-.2550	-.3542
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.3252	-.2374	-.2497	-.3002	-.3012	-.2983	-.3032	-.2229							

ALPHA0(2) = 2.216 BETA0 (1) = -6.219

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2564	-.3226	-.2719	-.2853	-.2952	-.2959	-.2876	-.2893	-.3023	-.3222	-.3461	-.3274	-.2368	-.2191	-.3384
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.3204	-.2346	-.2224	-.2992	-.3579	-.3434	-.3811	-.2929							

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL UNSEALED) MISC. ORIFICES

(RETC08)

ALPHA(2) = 2.214 BETA(2) = -2.090

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2668 -.3056 -.2436 -.2616 -.2844 -.2841 -.2670 -.2665 -.2888 -.3208 -.3412 -.3226 -.2372 -.2262 -.3351

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3129 -.2372 -.2227 -.2797 -.3372 -.3308 -.3601 -.2819

ALPHA(2) = 2.224 BETA(3) = 2.058

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2635 -.3026 -.2601 -.2611 -.2857 -.2951 -.2801 -.2775 -.2969 -.3346 -.3356 -.3164 -.2293 -.2146 -.3502

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3269 -.2226 -.2311 -.2655 -.3232 -.3124 -.3429 -.2553

ALPHA(2) = 2.234 BETA(4) = 6.197

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2890 -.3258 -.2921 -.2859 -.3022 -.3043 -.3142 -.2920 -.2976 -.3228 -.3577 -.3372 -.2316 -.2482 -.3573

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3570 -.2362 -.2507 -.2853 -.2975 -.2943 -.3098 -.2239

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3111

ARC11-019 IAB1 LVAP(ELHL UNSEALD) MISC. ORIFICES

(RETC08)

ALPHA0(3) = 4.330 BETA0 (1) = -4.129

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2676	-.3128	-.2585	-.2795	-.2945	-.2999	-.2784	-.2744	-.2637	-.3295	-.3354	-.3213	-.2368	-.2183	-.3428

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
--------	----------	----------	----------	----------	----------	----------	----------	----------

	.000	-.3258	-.2378	-.2171	-.2805	-.3528	-.3447	-.3710	-.2910
--	------	--------	--------	--------	--------	--------	--------	--------	--------

ALPHA0(3) = 4.329 BETA0 (2) = -.008

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2583	-.3048	-.2550	-.2656	-.2787	-.2800	-.2779	-.2693	-.3108	-.3184	-.3403	-.3158	-.2252	-.2057	-.3305

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
--------	----------	----------	----------	----------	----------	----------	----------	----------

	.000	-.3116	-.2339	-.2102	-.2549	-.3345	-.3222	-.3548	-.2761
--	------	--------	--------	--------	--------	--------	--------	--------	--------

ALPHA0(3) = 4.334 BETA0 (3) = 4.139

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2782	-.3152	-.2922	-.2881	-.3046	-.3041	-.3027	-.2918	-.3060	-.3233	-.3503	-.3415	-.2123	-.2285	-.3614

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
--------	----------	----------	----------	----------	----------	----------	----------	----------

	.000	-.3435	-.2175	-.2290	-.2666	-.3201	-.3063	-.3328	-.2428
--	------	--------	--------	--------	--------	--------	--------	--------	--------

ARC11-019 IA81 LVAP(ELHL UNSEALD) MISC. ORIFICES

(RETC08)

ALPHA(3) = 4.334 BETA(4) = 6.220

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2901 -.3331 -.3007 -.2945 -.3067 -.3106 -.3172 -.3000 -.3223 -.3282 -.3586 -.3471 -.2242 -.2387 -.3696

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3443 -.2229 -.2387 -.2769 -.3036 -.2953 -.3154 -.2350

DATE 21 OCT 75

IABIA - PRESSURE SOURCE DATA TABULATION

PAGE 3113

ARC(1-019 IAB) LVAP(ELHL UNSEALED) MISC. ORIFICES

(RETC09) (02 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
 BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.100 RN/FT = 2.250
 ELV-1B = 8.000 ELV-CB = 4.000
 RUDDER = .000 SPDBRK = .000

ALPHA(1) = -6.236 BETA(1) = -4.085

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000
 .000 -.2768 -.3276 -.2885 -.2864 -.3331 -.3338 -.2901 -.2979 -.3756 -.3141 -.3449 -.3309 -.2828 -.2758 -.3542

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 - .3409 -.2924 -.2632 -.3412 -.3790 -.3748 -.4133 -.3386

ALPHA(1) = -6.225 BETA(2) = -2.030

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000
 .000 -.3039 -.3583 -.2929 -.2957 -.3377 -.3442 -.2968 -.2971 -.3936 -.3341 -.3642 -.3544 -.2782 -.2696 -.3704

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3581 -.2945 -.2622 -.3205 -.3945 -.3791 -.4131 -.3457

ALPHA(1) = -6.193 BETA(3) = .032

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000
 .000 -.3128 -.3411 -.2829 -.2867 -.3283 -.3256 -.2930 -.2924 -.3875 -.3458 -.3485 -.3402 -.2826 -.2723 -.3628

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3382 -.2760 -.2670 -.3195 -.3843 -.3643 -.3987 -.3394

ARC11-019 IAB1 LVAP(ELHL UNSEALD) MISC. ORIFICES

(RETC09)

ALPHA0(1) = -6.179 BETA0 (4) = 2.098

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2854	-.3136	-.2771	-.2364	-.3105	-.3108	-.3011	-.2923	-.3948	-.3468	-.3319	-.3163	-.2824	-.2788	-.3246
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.3123	-.2761	-.2848	-.3349	-.3588	-.3470	-.3834	-.3129							

ALPHA0(1) = -6.167 BETA0 (5) = 4.163

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2853	-.3160	-.2895	-.2860	-.3112	-.3112	-.2995	-.2890	-.3878	-.3348	-.3294	-.3185	-.2888	-.2855	-.3472
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.3158	-.2808	-.2868	-.3393	-.3324	-.3252	-.3534	-.2773							

ALPHA0(2) = -4.143 BETA0 (1) = -6.157

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2752	-.3223	-.2817	-.2844	-.3102	-.3116	-.2844	-.2888	-.3670	-.3026	-.3348	-.3264	-.2766	-.2626	-.3324
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.3181	-.2792	-.2506	-.3346	-.3753	-.3635	-.4080	-.3285							

ARC11-019 IAB1 LVAP(ELHL UNSEALED) MISC. ORIFICES

(RETC09)

ALPHA0(2) = -4.132 BETA0 (2) = -4.105

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2710	-.3280	-.2823	-.2823	-.3204	-.3170	-.2847	-.2908	-.3546	-.3165	-.3381	-.3323	-.2621	-.2531	-.3506
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.3320	-.2737	-.2462	-.3293	-.3729	-.3650	-.4062	-.3301							

ALPHA0(2) = -4.101 BETA0 (3) = .017

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2884	-.3270	-.2722	-.2791	-.3104	-.3115	-.2875	-.2858	-.3810	-.3380	-.3363	-.3276	-.2754	-.2628	-.3456
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.3206	-.2920	-.2561	-.3052	-.3710	-.3556	-.3814	-.3206							

ALPHA0(2) = -4.075 BETA0 (4) = 4.131

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2858	-.3134	-.2875	-.2786	-.3055	-.3041	-.2996	-.2853	-.3621	-.3271	-.3329	-.3223	-.2673	-.2696	-.3426
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.3196	-.2636	-.2676	-.3125	-.3317	-.3206	-.3549	-.2863							

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IA81 LVAP(ELHL UNSEALD) MISC. ORIFICES

(RETC09)

ALPHA0(2) = -4.067 BETA0 (5) = 6.191

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2908 -.3180 -.2939 -.2832 -.3011 - .3015 -.2990 -.2871 -.3450 -.3156 -.3257 -.3199 -.2763 -.2866 -.3452

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.3172 -.2673 -.2806 -.3308 -.2904 -.2972 -.3165 -.2453

ALPHA0(3) = -2.045 BETA0 (1) = -6.165

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2680 -.3197 -.2804 -.2873 -.3049 -.3087 -.2813 -.2911 -.3470 -.3104 -.3304 -.3215 -.2663 -.2483 -.3354

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.3158 -.2643 -.2453 -.3242 -.3741 -.3679 -.4076 -.3173

ALPHA0(3) = -2.034 BETA0 (2) = -2.072

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2880 -.3384 -.2740 -.2801 -.3144 -.3161 -.2874 -.2867 -.3420 -.3271 -.3464 -.3473 -.2595 -.2473 -.3569

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.3390 -.2635 -.2396 -.3045 -.3517 -.3445 -.3965 -.2984

DATE 21 OCT 75

1A81A - PRESSURE SOURCE DATA TABULATION

PAGE 3117

ARC1: 019 1A81 LVAP (ELHL UNSEALED) MISC. ORIFICES

(RETC09)

ALPHA(3) = -1.993 BETA(3) = 2.059

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 .2756 -.3059 -.2618 -.2700 -.2928 -.2911 -.2826 -.2735 -.3472 -.3229 -.3296 -.3123 -.2492 -.2512 -.3340

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3017 -.2439 -.2572 -.3007 -.3263 -.3440 -.3614 -.2871

ALPHA(3) = -1.978 BETA(4) = 6.163

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2927 -.3251 -.3061 -.2889 -.3010 -.3003 -.3092 -.2963 -.3530 -.3204 -.3252 -.3299 -.2688 -.2799 -.3503

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3306 -.2612 -.2682 -.3176 -.2961 -.2967 -.3049 -.2398

ALPHA(4) = .052 BETA(1) = -6.173

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2678 -.3278 -.2854 -.2906 -.3064 -.3047 -.2888 -.3014 -.3207 -.3221 -.3377 -.3301 -.2608 -.2448 -.3425

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3248 -.2585 -.2435 -.3185 -.3664 -.3480 -.3962 -.3018

ARC11-019 IAB1 LVAP(ELHL UNSEALD) MISC. ORIFICES

(RETC09)

ALPHA0(4) = .055 BETA0 (2) = -4.122

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2752	-.3335	-.2804	-.2901	-.3177	-.3194	-.2834	-.2889	-.3146	-.3234	-.3474	-.3352	-.2557	-.2377	-.3502

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3376 -.2587 -.2364 -.3085 -.3594 -.3535 -.3945 -.2991

ALPHA0(4) = .063 BETA0 (3) = -.022

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2782	-.3103	-.2647	-.2758	-.3082	-.3051	-.2946	-.2844	-.3470	-.3357	-.3313	-.3120	-.2566	-.2529	-.3498

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3107 -.2566 -.2543 -.2871 -.3264 -.3241 -.3552 -.2670

ALPHA0(4) = .079 BETA0 (4) = 4.095

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2941	-.3262	-.2999	-.2885	-.3145	-.3131	-.3095	-.2942	-.3383	-.3268	-.3458	-.3428	-.2493	-.2510	-.3521

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3358 -.2470 -.2503 -.2958 -.3212 -.3195 -.3268 -.2392

DATE 21 OCT 75

LABIA - PRESSURE SOURCE DATA TABULATION

PAGE 3119

ARC11-019 LAB1 LVAP(ELHL UNSEALED) MISC. ORIFICES

(RETC09)

ALPHA0(4) = .086 BETA0 (5) = 6.161

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2985 -.3411 -.3134 -.2913 -.3037 -.3037 -.3137 -.2961 -.3314 -.3243 -.3406 -.3468 -.2524 -.2624 -.3552

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.3331 -.2507 -.2580 -.3154 -.3026 -.3046 -.3115 -.2242

ALPHA0(5) = 2.173 BETA0 (1) = -6.160

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2722 -.3301 -.2784 -.2898 -.3056 -.3056 -.2871 -.2966 -.2925 -.3197 -.3441 -.3307 -.2475 -.2272 -.3467

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.3254 -.2428 -.2338 -.3000 -.3596 -.3468 -.3851 -.2997

ALPHA0(5) = 2.175 BETA0 (2) = -2.076

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2698 -.3132 -.2526 -.2661 -.2953 -.2950 -.2729 -.2759 -.2908 -.3268 -.3431 -.3204 -.2386 -.2250 -.3383

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.3167 -.2403 -.2217 -.2908 -.3342 -.3309 -.3507 -.2808

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 AB1 LVAP(ELHL UNSEALD) MISC. ORIFICES

(RETC09)

ALPHA0(5) = 2.187 BETA0 (3) = 2.048

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2744	-.3075	-.2665	-.2827	-.2954	-.3099	-.2976	-.2738	-.2945	-.3336	-.3590	-.3449	-.2270	-.2280	-.3436
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.3376	-.2220	-.2343	-.2739	-.3234	-.3116	-.3427	-.2625							

ALPHA0(5) = 2.192 BETA0 (4) = 6.163

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2919	-.3241	-.3054	-.2860	-.3023	-.3026	-.3021	-.2892	-.3154	-.3249	-.3486	-.3302	-.2371	-.2501	-.3495
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.3242	-.2401	-.2554	-.2938	-.3094	-.3048	-.3215	-.2248							

ALPHA0(6) = 4.247 BETA0 (1) = -6.141

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2671	-.3311	-.2788	-.2919	-.3053	-.3067	-.2876	-.2915	-.2817	-.3017	-.3444	-.3379	-.2471	-.2274	-.3526
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.3300	-.2381	-.2281	-.2951	-.3599	-.3652	-.3783	-.2921							

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3121

ARC11-019 IAB1 LVAP(ELHL UNSEALED) MISC. ORIFICES

(RETC09)

ALPHA(6) * 4.249 BETA(2) = -4.095

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2652	-.3161	-.2597	-.2813	-.2955	-.2986	-.2765	-.2812	-.2731	-.3242	-.3418	-.3208	-.2410	-.2174	-.3421
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.3195	-.2367	-.2131	-.2660	-.3618	-.3480	-.3756	-.3011							

ALPHA(6) = 4.254 BETA(3) = -.002

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2714	-.3152	-.2513	-.2730	-.2903	-.2924	-.2789	-.2785	-.3006	-.3292	-.3370	-.3276	-.2362	-.2222	-.3393
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.3290	-.2355	-.2175	-.2662	-.3436	-.3243	-.3584	-.2782							

ALPHA(6) = 4.256 BETA(4) = 4.108

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2955	-.3262	-.2544	-.2965	-.3131	-.3138	-.3063	-.2998	-.3148	-.3270	-.3491	-.3499	-.2222	-.2369	-.3685
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.3479	-.2249	-.2366	-.2757	-.3294	-.3137	-.3396	-.2491							

C.7

ARC11-019 IAB1 LVAP(ELHL UNSEALED) MISC. ORIFICES

(RET09)

ALPHA(6) = 4.255 BETA(5) = 6.174

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2948	-.3393	-.3058	-.2999	-.3106	-.3096	-.3180	-.3047	-.3200	-.3285	-.3543	-.3532	-.2237	-.2461	-.3662

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000	-.3375	-.2294	-.2441	-.2878	-.3096	-.2991	-.3207	-.2414
------	--------	--------	--------	--------	--------	--------	--------	--------

ALPHA(7) = 6.369 BETA(1) = -4.073

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2693	-.3318	-.2679	-.2868	-.3002	-.3019	-.2775	-.2840	-.2873	-.3069	-.3441	-.3378	-.2303	-.2157	-.3547

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000	-.3331	-.2319	-.2177	-.2722	-.3622	-.3657	-.3746	-.2867
------	--------	--------	--------	--------	--------	--------	--------	--------

ALPHA(7) = 6.370 BETA(2) = -2.035

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2664	-.3287	-.2702	-.2877	-.3012	-.2974	-.2828	-.2931	-.2814	-.3167	-.3472	-.3382	-.2264	-.2185	-.3509

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000	-.3482	-.2221	-.2185	-.2651	-.3606	-.3672	-.3774	-.3118
------	--------	--------	--------	--------	--------	--------	--------	--------

ORIGINAL PAGE IS OF POOR QUALITY

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3123

ARC11-019 IAB1 LVAP(ELHL UNSEALD) MISC. ORIFICES

(RETC09)

ALPHA(7) = 6.369 BETA(3) = 0

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2049 -.3151 -.2563 -.2756 -.2866 -.2917 -.2830 -.2766 -.3142 -.3243 -.3402 -.3292 -.2265 -.2152 -.3415

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3319 -.2225 -.2162 -.2543 -.3399 -.3432 -.3572 -.2873

ALPHA(7) = 6.366 BETA(4) = 2.074

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2663 -.3069 -.2932 -.2963 -.3007 -.3083 -.2942 -.2925 -.3286 -.3286 -.3543 -.3446 -.2063 -.2079 -.3560

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3546 -.2079 -.2196 -.2486 -.3316 -.3231 -.3516 -.2777

ALPHA(7) = 6.365 BETA(5) = 4.127

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2751 -.3255 -.3053 -.3001 -.3156 -.3139 -.3188 -.3110 -.3428 -.3323 -.3468 -.3574 -.2078 -.2181 -.3661

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3488 -.2101 -.2208 -.2622 -.3226 -.3180 -.3432 -.2523

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC10) (02 OCT 74)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
 BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0300 SCALE

MACH = 1.100 RN/FT = 2.250
 ELV-18 = 8.000 ELV-09 = 4.000
 RUDDER = .000 SPD8RK = .000

BETA0 (1) = .019 ALPHA0(1) = -6.200

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.3042 -.3452 -.3094 -.2908 -.3290 -.3297 -.3083 -.2965 -.4260 -.3462 -.3458 -.3435 -.2766 -.2766 -.3628

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3372 -.3062 -.2740 -.3212 -.3801 -.3632 -.3961 -.3390

BETA0 (1) = .001 ALPHA0(2) = -4.091

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2913 -.3312 -.2772 -.2831 -.3178 -.3154 -.2851 -.2924 -.3849 -.3326 -.3333 -.3374 -.2800 -.2693 -.3464

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3261 -.2912 -.2630 -.3083 -.3686 -.3562 -.3829 -.3196

BETA0 (1) = -.016 ALPHA0(3) = -2.000

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2729 -.3186 -.2640 -.2736 -.2976 -.2994 -.2935 -.2830 -.3593 -.3303 -.3242 -.3117 -.2524 -.2484 -.3299

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3047 -.2709 -.2494 -.2994 -.3571 -.3531 -.3747 -.2959

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3125

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC10)

BETA0 (1) = -.022 ALPHA0(4) = .085

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2768 -.3098 -.2576 -.2706 -.3005 -.2998 -.2919 -.2780 -.3664 -.3270 -.3205 -.3116 -.2539 -.2466 -.3365

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3059 -.2562 -.2509 -.2889 -.3210 -.3232 -.3506 -.2695

BETA0 (1) = -.019 ALPHA0(5) = 2.189

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2758 -.3112 -.2538 -.2713 -.2933 -.2937 -.2845 -.2747 -.3312 -.3193 -.3227 -.3121 -.2454 -.2391 -.3407

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3048 -.2464 -.2344 -.2819 -.3300 -.3193 -.3476 -.2613

BETA0 (1) = -.014 ALPHA0(6) = 4.274

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2711 -.3214 -.2584 -.2725 -.2966 -.2997 -.2870 -.2751 -.2910 -.3191 -.3493 -.3292 -.2413 -.2237 -.3468

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3339 -.2380 -.2217 -.2617 -.3402 -.3262 -.3562 -.2779

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC10)

BETA0 (1) = .001 ALPHA0(7) = 6.376

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2705	-.3172	-.2585	-.2797	-.2907	-.2883	-.2811	-.2716	-.2885	-.3148	-.3360	-.3291	-.2247	-.2131	-.3400
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.3268	-.2234	-.2135	-.2507	-.3432	-.3413	-.3563	-.2797							

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC11) (02 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
 BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.250 RN/FT = 2.250
 ELV-1B = 8.000 ELV-0B = 4.000
 RUDDER = .000 SPDBRK = .000

ALPHA(1) = -6.258 BETA(1) = -4.078

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000
 .000 -.2417 -.2883 -.2443 -.2349 -.2734 -.2725 -.2384 -.2400 -.2734 -.2018 -.2913 -.2905 -.2239 -.2208 -.3002

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000
 .000 -.2883 -.2286 -.2089 -.2813 -.3037 -.2984 -.3400 -.2713

ALPHA(1) = -6.244 BETA(2) = -2.027

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000
 .000 -.2563 -.3065 -.2712 -.2528 -.2874 -.2897 -.2436 -.2537 -.2896 -.2156 -.3001 -.3019 -.2378 -.2259 -.3116

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000
 .000 -.3026 -.2450 -.2175 -.2793 -.3303 -.3195 -.3451 -.2872

ALPHA(1) = -6.209 BETA(3) = .049

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000
 .000 -.2393 -.2775 -.2348 -.2309 -.2671 -.2684 -.2367 -.2326 -.3000 -.2364 -.2796 -.2753 -.2422 -.2256 -.2847

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000
 .000 -.2694 -.2556 -.2250 -.2780 -.3149 -.3047 -.3318 -.2709

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IA81 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC11)

ALPHA(1) = -6.193 BETA(4) = 2.114

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000
.000 -.2431 -.2670 -.2350 -.2421 -.2641 -.2635 -.2552 -.2488 -.3189 -.2610 -.2782 -.2642 -.2304 -.2301 -.2873

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2679 -.2244 -.2335 -.2805 -.3138 -.3057 -.3325 -.2599

ALPHA(1) = -6.191 BETA(5) = 4.175

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000
.000 -.2418 -.2719 -.2434 -.2437 -.2690 -.2661 -.2513 -.2446 -.3249 -.2618 -.2733 -.2736 -.2295 -.2353 -.2992

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2692 -.2226 -.2285 -.2887 -.2990 -.2855 -.3083 -.2396

ALPHA(2) = -4.161 BETA(1) = -6.152

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000
.000 -.2432 -.2889 -.2371 -.2410 -.2756 -.2756 -.2498 -.2469 -.2817 -.2007 -.3011 -.2970 -.2315 -.2234 -.3058

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2942 -.2331 -.2159 -.2890 -.3103 -.2998 -.3375 -.2638

DATE 21 OCT 75

TABIA - PRESSURE SOURCE DATA TABULATION

PAGE 3129

ARC11-019 TAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC11)

ALPHA(2) = -4.149 BETA(2) = -4.101

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2630	-.2833	-.2730	-.2675	-.2817	-.2833	-.2790	-.2705	-.3010	-.2177	-.3003	-.2847	-.1963	-.2048	-.3190

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
.000	-.2975	-.1926	-.2082	-.2723	-.2861	-.2827	-.3315	-.2505

ALPHA(2) = -4.119 BETA(3) = .013

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2453	-.2741	-.2463	-.2417	-.2712	-.2676	-.2573	-.2478	-.3184	-.2490	-.2675	-.2742	-.2239	-.2180	-.2992

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
.000	-.2745	-.2161	-.2086	-.2590	-.2948	-.2865	-.3077	-.2480

ALPHA(2) = -4.090 BETA(4) = 4.141

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2442	-.2701	-.2445	-.2429	-.2666	-.2653	-.2484	-.2408	-.3290	-.2637	-.2707	-.2682	-.2225	-.2291	-.2954

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
.000	-.2732	-.2213	-.2275	-.2716	-.2858	-.2806	-.2984	-.2382

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC11)

ALPHA(2) = -4.088 BETA(5) = 6.203

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2468 -.2765 -.2546 -.2384 -.2643 -.2662 -.2510 -.2424 -.3310 -.2599 -.2687 -.2774 -.2268 -.2349 -.2967

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2739 -.2221 -.2321 -.2928 -.2537 -.2636 -.2746 -.2149

ALPHA(3) = -2.044 BETA(1) = -6.169

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2570 -.2914 -.2479 -.2583 -.2804 -.2768 -.2764 -.2671 -.3022 -.2143 -.2974 -.2855 -.2257 -.2110 -.3171

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2977 -.1991 -.2119 -.2739 -.3053 -.2951 -.3271 -.2407

ALPHA(3) = -2.029 BETA(2) = -2.075

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2552 -.2810 -.2639 -.2510 -.2710 -.2729 -.2717 -.2606 -.3219 -.2409 -.2736 -.2807 -.2055 -.2111 -.3125

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2913 -.2042 -.2092 -.2717 -.2868 -.2908 -.3296 -.2421

DATE 21 OCT 75

1A81A - PRESSURE SOURCE DATA TABULATION

PAGE 3131

ARC11-019 1A81 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC11)

ALPHA(3) = -2.008 BETA(3) = 2.060

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2304 -.2611 -.2268 -.2258 -.2536 -.2553 -.2494 -.2382 -.3314 -.2624 -.2608 -.2593 -.2093 -.2084 -.2912

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2606 -.2058 -.2171 -.2599 -.2778 -.2917 -.3092 -.2297

ALPHA(3) = -1.995 BETA(4) = 6.179

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2528 -.2833 -.2713 -.2434 -.2570 -.2596 -.2592 -.2502 -.3242 -.2694 -.2767 -.2818 -.2143 -.2202 -.2989

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2813 -.2115 -.2237 -.2779 -.2509 -.2518 -.2644 -.1974

ALPHA(4) = .066 BETA(1) = -6.174

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2638 -.2884 -.2719 -.2651 -.2661 -.2671 -.2791 -.2635 -.3211 -.2304 -.2921 -.2849 -.1836 -.2020 -.3112

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2961 -.1861 -.1930 -.2641 -.2963 -.2984 -.3289 -.2353

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAPI(LHL SEALED) MISC ORIFICES

(RETC11)

ALPHA0(4) = .072 BETA0 (2) = -4.124

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2617 -.2829 -.2735 -.2632 -.2709 -.2729 -.2764 -.2647 -.3314 -.2434 -.2823 -.2815 -.1913 -.1932 -.3122

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2431 -.1957 -.1938 -.2515 -.2830 -.2877 -.3276 -.2360

ALPHA0(4) = .075 BETA0 (3) = -.018

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2389 -.2684 -.2408 -.2389 -.2599 -.2590 -.2556 -.2435 -.3333 -.2702 -.2524 -.2611 -.2148 -.1995 -.2998

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2715 -.2126 -.2067 -.2570 -.2618 -.2587 -.2812 -.1997

ALPHA0(4) = .088 BETA0 (4) = 4.105

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2398 -.2680 -.2486 -.2314 -.2550 -.2573 -.2494 -.2392 -.3282 -.2621 -.2681 -.2706 -.1956 -.2047 -.2937

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2706 -.1987 -.2087 -.2603 -.2653 -.2683 -.2757 -.1973

DATE 21 OCT 75

IABIA - PRESSURE SOURCE DATA TABULATION

PAGE 3133

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC11)

ALPHA(4) = .092 BETA(5) = 6.164

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2515 -.2796 -.2612 -.2431 -.2563 -.2570 -.2643 -.2480 -.3089 -.2710 -.2805 -.2821 -.1999 -.2161 -.3077

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2837 -.2020 -.2186 -.2626 -.2567 -.2533 -.2516 -.1879

ALPHA(5) = 1.116 BETA(1) = -6.171

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2640 -.2948 -.2705 -.2708 -.2692 -.2692 -.2839 -.2715 -.3350 -.2405 -.2989 -.2962 -.1842 -.1949 -.3169

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3018 -.1896 -.1893 -.2610 -.2971 -.3011 -.3269 -.2389

ALPHA(5) = 1.120 BETA(2) = -2.081

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2496 -.2762 -.2499 -.2571 -.2619 -.2603 -.2571 -.2546 -.3297 -.2587 -.2657 -.2690 -.1986 -.1933 -.3169

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2856 -.1924 -.2011 -.2591 -.2721 -.2774 -.3060 -.2168

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3134

ARC11-019 IAB1 (VAP(ELHL SEALED) MISC. ORIFICES

(RETC11)

ALPHA0(5) = 1.132 BETA0 (3) = 2.044

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2284 -.2609 -.2252 -.2252 -.2430 -.2453 -.2506 -.2324 -.2917 -.2627 -.2480 -.2557 -.2053 -.2031 -.2874

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2567 -.2081 -.2125 -.2486 -.2636 -.2599 -.2725 -.1932

ALPHA0(5) = 1.141 BETA0 (4) = 6.168

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2500 -.2814 -.2601 -.2419 -.2562 -.2578 -.2694 -.2531 -.2885 -.2713 -.2840 -.2838 -.1962 -.2127 -.3120

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2823 -.1962 -.2112 -.2611 -.2651 -.2682 -.2735 -.1919

ALPHA0(6) = 3.217 BETA0 (1) = -6.163

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2537 -.2909 -.2492 -.2544 -.2709 -.2731 -.2775 -.2632 -.3217 -.2512 -.3017 -.2956 -.1741 -.1791 -.3177

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2975 -.1869 -.1748 -.2446 -.3097 -.3042 -.3236 -.2320

DATE 21 OCT 75

IABIA - PRESSURE SOURCE DATA TABULATION

PAGE 3135

ARC11-019 IABI L/JAP(ELHL SEALED) MISC. ORIFICES

(RETC11)

ALPHA(6) = 3.218 BETA(2) = -4.114

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2504 -.2827 -.2498 -.2472 -.2701 -.2669 -.2725 -.2569 -.3344 -.2582 -.2756 -.2773 -.1754 -.1735 -.3095

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2857 -.1860 -.1735 -.2394 -.2879 -.2824 -.3070 -.2246

ALPHA(6) = 3.223 BETA(3) = -.012

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2378 -.2621 -.2285 -.2356 -.2466 -.2472 -.2483 -.2365 -.3208 -.2645 -.2702 -.2542 -.1946 -.1881 -.2901

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2633 -.1834 -.1896 -.2392 -.2740 -.2688 -.2909 -.2140

ALPHA(6) = 3.229 BETA(4) = 4.104

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2402 -.2670 -.2411 -.2331 -.2544 -.2521 -.2586 -.2414 -.2974 -.2704 -.2713 -.2702 -.1767 -.1929 -.3018

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2683 -.1851 -.1967 -.2383 -.2754 -.2742 -.2852 -.2045

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 1A81 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC11)

ALPHA(6) = 3.228 BETA(5) = 6.167

SECTION (1)MISC. ORIFICES	DEPENDENT VARIABLE CP														
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2588	-.2654	-.2588	-.2517	-.2718	-.2688	-.2745	-.2550	-.2933	-.2805	-.2933	-.2894	-.1816	-.2082	-.3219
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.2922	-.1873	-.2123	-.2430	-.2654	-.2638	-.2758	-.1984							

ALPHA(7) = 5.320 BETA(1) = -4.097

SECTION (1)MISC. ORIFICES	DEPENDENT VARIABLE CP														
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2430	-.2795	-.2294	-.2342	-.2636	-.2646	-.2561	-.2421	-.3038	-.2637	-.2847	-.2912	-.1971	-.1797	-.3096
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.2818	-.1987	-.1737	-.2226	-.3048	-.2941	-.3134	-.2456							

ALPHA(7) = 5.323 BETA(2) = -2.054

SECTION (1)MISC. ORIFICES	DEPENDENT VARIABLE CP														
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2342	-.2673	-.2232	-.2300	-.2540	-.2550	-.2457	-.2336	-.3058	-.2699	-.2638	-.2723	-.1906	-.1800	-.3008
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.2679	-.1931	-.1754	-.2189	-.3081	-.2956	-.3232	-.2539							

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3137

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC11)

ALPHA(7) = 5.325 BETA(3) = .002

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2368 -.2659 -.2410 -.2339 -.2513 -.2510 -.2533 -.2374 -.3230 -.2667 -.2638 -.2603 -.1831 -.1775 -.2994

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2678 -.1863 -.1784 -.2192 -.2907 -.2665 -.2993 -.2312

ALPHA(7) = 5.323 BETA(4) = 2.067

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2328 -.2612 -.2260 -.2283 -.2499 -.2473 -.2463 -.2348 -.2997 -.2641 -.2733 -.2645 -.1718 -.1784 -.3026

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2670 -.1734 -.1855 -.2167 -.2859 -.2718 -.3007 -.2226

ALPHA(7) = 5.325 BETA(5) = 4.125

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2555 -.2759 -.2526 -.2462 -.2649 -.2646 -.2624 -.2507 -.3295 -.2663 -.2923 -.2904 -.1769 -.1916 -.3110

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2838 -.1822 -.2004 -.2228 -.2750 -.2710 -.2854 -.2029

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC12) (02 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 INCHES YMRP = 5000 IN. YT
 BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.400 RN/FT = 2.250
 ELV-1B = 8.000 ELV-0B = .000
 RUDDER = .000 SPDBRK = .000

ALPHA0 (1) = -6.305 BETA0 (1) = -4.079

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000
 .000 -.2611 -.2952 -.2870 -.2728 -.3012 -.3040 -.2830 -.2687 -.2032 -.1625 -.2960 -.2893 -.2221 -.2194 -.3211
 TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000
 .000 -.3009 -.2258 -.2224 -.2696 -.3033 -.3048 -.3237 -.2538

ALPHA0 (1) = -6.288 BETA0 (2) = -2.026

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000
 .000 -.2505 -.2751 -.2697 -.2508 -.2813 -.2810 -.2671 -.2581 -.2157 -.1823 -.2798 -.2781 -.2055 -.2137 -.3015
 TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000
 .000 -.2845 -.2052 -.2118 -.2662 -.2975 -.2918 -.3185 -.2594

ALPHA0 (1) = -6.273 BETA0 (3) = .028

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000
 .000 -.2403 -.2605 -.2435 -.2463 -.2642 -.2655 -.2535 -.2473 -.2321 -.2129 -.2693 -.2567 -.2172 -.2187 -.2849
 TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000
 .000 -.2667 -.2126 -.2266 -.2718 -.2955 -.2929 -.3135 -.2549

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3139

ARC11-019 IAB1 LVAP(ELML SEALED) MISC. ORIFICES

(RETC12)

ALPHA0 (1) = -6.241 BETA0 (4) = 2.117

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2376 -.2593 -.2366 -.2388 -.2587 -.2602 -.2462 -.2400 -.2468 -.2310 -.2639 -.2611 -.2182 -.2207 -.2790

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2629 -.2164 -.2240 -.2693 -.2981 -.2853 -.3095 -.2407

ALPHA0 (11) = -6.229 BETA0 (5) = 4.174

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2470 -.2751 -.2584 -.2423 -.2738 -.2735 -.2469 -.2444 -.2590 -.2540 -.2726 -.2780 -.2251 -.2302 -.2905

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2777 -.2247 -.2287 -.2754 -.2850 -.2778 -.2984 -.2311

ALPHA0 (2) = -4.192 BETA0 (1) = -6.158

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2454 -.2808 -.2534 -.2566 -.2808 -.2780 -.2643 -.2525 -.2165 -.1545 -.2851 -.2807 -.2338 -.2298 -.2947

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2855 -.2301 -.2213 -.2806 -.3116 -.3173 -.3344 -.2443

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 TAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC12)

ALPHA(2) = -4.180 BETA(2) = -4.103

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2640	-.2839	-.2707	-.2707	-.2902	-.2912	-.2732	-.2620	-.2249	-.1763	-.2809	-.2760	-.1947	-.1907	-.3135
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							

.000	-.2870	-.1904	-.1926	-.2617	-.2973	-.3050	-.3203	-.2391							
------	--------	--------	--------	--------	--------	--------	--------	--------	--	--	--	--	--	--	--

ALPHA(2) = -4.157 BETA(3) = -.002

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2452	-.2635	-.2499	-.2455	-.2654	-.2663	-.2565	-.2462	-.2484	-.2208	-.2608	-.2556	-.2106	-.2096	-.2833
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							

.000	-.2684	-.2075	-.2173	-.2587	-.2814	-.2811	-.2984	-.2340							
------	--------	--------	--------	--------	--------	--------	--------	--------	--	--	--	--	--	--	--

ALPHA(2) = -4.134 BETA(4) = 4.138

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2311	-.2607	-.2406	-.2271	-.2569	-.2575	-.2385	-.2336	-.2663	-.2410	-.2580	-.2638	-.2125	-.2155	-.2772
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							

.000	-.2623	-.2094	-.2161	-.2680	-.2643	-.2649	-.2856	-.2182							
------	--------	--------	--------	--------	--------	--------	--------	--------	--	--	--	--	--	--	--

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3141

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC12)

ALPHA0(2) = -4.123 BETA0 (5) = 0.209

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2427 -.2720 -.2685 -.2288 -.2528 -.2619 -.2396 -.2368 -.2864 -.2535 -.2634 -.2756 -.2151 -.2242 -.2851

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2738 -.2096 -.2230 -.2792 -.2263 -.2332 -.2416 -.1859

ALPHA0(3) = -2.103 BETA0 (1) = -6.173

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2526 -.2778 -.2715 -.2696 -.2746 -.2724 -.2709 -.2619 -.2396 -.1709 -.2774 -.2671 -.1888 -.1863 -.2951

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2614 -.1933 -.1857 -.2602 -.2991 -.3110 -.3203 -.2290

ALPHA0(3) = -2.089 BETA0 (2) = -2.072

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2513 -.2718 -.2545 -.2504 -.2756 -.2765 -.2650 -.2535 -.2517 -.2077 -.2653 -.2619 -.1869 -.1856 -.2944

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2728 -.1850 -.1911 -.2531 -.2698 -.2854 -.2997 -.2196

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC12)

ALPHA(3) = -2.053 BETA(3) = 2.068

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2360 -.2615 -.2351 -.2294 -.2565 -.2559 -.2465 -.2354 -.2732 -.2323 -.2543 -.2529 -.2036 -.2050 -.2760

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2574 -.2033 -.2161 -.2499 -.2568 -.2679 -.2850 -.1997

ALPHA(3) = -2.034 BETA(4) = 6.180

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2399 -.2704 -.2689 -.2241 -.2522 -.2537 -.2387 -.2328 -.2997 -.2520 -.2529 -.2662 -.2036 -.2118 -.2799

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2702 -.2036 -.2136 -.2629 -.2213 -.2213 -.2306 -.1743

ALPHA(4) = .003 BETA(1) = -6.180

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2589 -.2740 -.2630 -.2759 -.2709 -.2747 -.2697 -.2608 -.2626 -.2031 -.2694 -.2624 -.1796 -.1577 -.2946

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2748 -.1799 -.1577 -.2597 -.2968 -.3073 -.3178 -.2351

DATE 21 OCT 75

IABIA - PRESSURE SOURCE DATA TABULATION

PAGE 3143

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC12)

ALPHA0 (4) = .006 BETA0 (2) = -4.126

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2561 -.2744 -.2533 -.2659 -.2832 -.2851 -.2657 -.2573 -.2617 -.2106 -.2676 -.2647 -.1753 -.1470 -.3046

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2790 -.1774 -.1452 -.2505 -.2815 -.2956 -.3088 -.2268

ALPHA0 (4) = .015 BETA0 (3) = -.027

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2304 -.2565 -.2330 -.2263 -.2540 -.2547 -.2462 -.2338 -.2697 -.2261 -.2366 -.2474 -.2027 -.1865 -.2729

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2565 -.2005 -.2033 -.2519 -.2573 -.2675 -.2828 -.2034

ALPHA0 (4) = .024 BETA0 (4) = 4.105

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2360 -.2627 -.2492 -.2243 -.2548 -.2551 -.2509 -.2367 -.2968 -.2453 -.2596 -.2596 -.1912 -.1967 -.2788

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2615 -.1930 -.2049 -.2491 -.2422 -.2488 -.2545 -.1755

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IABI LVAP(ELHL SEALED) MISC. ORIFICES

(RETC12)

ALPHA(4) = .038 BETA(5) = 6.165

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2389 -.2669 -.2619 -.2263 -.2430 -.2405 -.2437 -.2382 -.3026 -.2564 -.2524 -.2654 -.1892 -.1992 -.2791

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2673 -.1892 -.2025 -.2497 -.2182 -.2173 -.2250 -.1567

ALPHA(5) = 2.130 BETA(1) = -6.171

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2573 -.2838 -.2693 -.2545 -.2705 -.2709 -.2763 -.2602 -.2769 -.2227 -.2661 -.2745 -.1800 -.1182 -.3019

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2821 -.1845 -.1590 -.2552 -.2972 -.2990 -.3092 -.2310

ALPHA(5) = 2.133 BETA(2) = -2.078

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2452 -.2679 -.2380 -.2509 -.2663 -.2641 -.2544 -.2463 -.2817 -.2401 -.2500 -.2542 -.1806 -.1590 -.2920

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2676 -.1742 -.1614 -.2361 -.2620 -.2641 -.2794 -.1971

DATE 21 OCT 75

IABIA - PRESSURE SOURCE DATA TABULATION

PAGE 3145

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC12)

ALPHA(5) = 2.141 BETA(4) = 2.056

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 195.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2280 -.2570 -.2290 -.2148 -.2462 -.2485 -.2395 -.2241 -.2798 -.2334 -.2330 -.2451 -.1852 -.1874 -.2709

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2512 -.1931 -.1995 -.2358 -.2532 -.2412 -.2580 -.1888

ALPHA(5) = 2.152 BETA(4) = 6.169

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 195.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2419 -.2696 -.2617 -.2343 -.2450 -.2450 -.2503 -.2438 -.2914 -.2580 -.2509 -.2658 -.1765 -.1953 -.2834

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2728 -.1792 -.2032 -.2483 -.2304 -.2319 -.2376 -.1622

ALPHA(6) = 4.219 BETA(1) = -6.158

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 195.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2542 -.2787 -.2620 -.2451 -.2633 -.2636 -.2661 -.2518 -.2778 -.2302 -.2583 -.2742 -.1762 -.1805 -.3083

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2821 -.1763 -.1583 -.2380 -.2887 -.2782 -.2955 -.2116

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC12)

ALPHA(6) = 4.218 BETA(2) = -4.108

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2477 -.2818 -.2654 -.2477 -.2698 -.2691 -.2674 -.2640 -.2941 -.2491 -.2581 -.2673 -.1757 -.1441 -.2965

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2761 -.1888 -.1750 -.2292 -.2837 -.2810 -.2959 -.2286

ALPHA(6) = 4.224 BETA(3) = -.013

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2300 -.2527 -.2231 -.2263 -.2483 -.2489 -.2399 -.2270 -.2863 -.2443 -.2325 -.2405 -.1825 -.1728 -.2719

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2497 -.1813 -.1834 -.2140 -.2715 -.2607 -.2813 -.2227

ALPHA(6) = 4.226 BETA(4) = 4.116

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2374 -.2619 -.2506 -.2248 -.2478 -.2490 -.2509 -.2354 -.2827 -.2524 -.2431 -.2553 -.1729 -.1836 -.2808

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2632 -.1799 -.1948 -.2268 -.2619 -.2493 -.2652 -.1889

DATE 21 OCT 75

1AB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3147

ARC11-019 1AB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC12)

ALPHA(6) = 4.218 BETA(5) = 6.193

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2403 -.2683 -.2535 -.2277 -.2454 -.2457 -.2513 -.2364 -.2711 -.2553 -.2491 -.2518 -.1671 -.1911 -.2819

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2670 -.1701 -.1938 -.2327 -.2308 -.2242 -.2344 -.1680

ALPHA(7) = 6.323 BETA(1) = -4.082

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2366 -.2662 -.2328 -.2237 -.2546 -.2552 -.2534 -.2367 -.3004 -.2549 -.2571 -.2633 -.1892 -.1746 -.2955

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2672 -.1931 -.1876 -.2280 -.2902 -.2890 -.2988 -.2292

ALPHA(7) = 6.327 BETA(2) = -2.045

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2415 -.2702 -.2459 -.2409 -.2585 -.2591 -.2585 -.2437 -.3050 -.2675 -.2523 -.2593 -.1726 -.1619 -.2946

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2675 -.1841 -.1820 -.2148 -.2912 -.2724 -.3002 -.2344

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC12)

ALPHA(7) = 6.326 BETA(3) = .008

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2308 -.2578 -.2415 -.2242 -.2437 -.2453 -.2513 -.2312 -.2987 -.2625 -.2343 -.2494 -.1935 -.1837 -.2804

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2573 -.1968 -.1837 -.2069 -.2797 -.2549 -.2859 -.2212

ALPHA(7) = 6.323 BETA(4) = 2.079

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2292 -.2591 -.2182 -.2185 -.2412 -.2408 -.2429 -.2267 -.2993 -.2500 -.2379 -.2518 -.1714 -.1678 -.2816

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2575 -.1711 -.1863 -.2198 -.2702 -.2469 -.2783 -.2083

ALPHA(7) = 6.317 BETA(5) = 4.142

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2436 -.2688 -.2512 -.2310 -.2531 -.2537 -.2555 -.2400 -.3070 -.2577 -.2527 -.2649 -.1748 -.1891 -.2889

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2715 -.1845 -.1979 -.2336 -.2583 -.2514 -.2622 -.1850

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3149

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC13) (02 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
 BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = .600 RN/FT = 2.250
 ELV-IB = 8.000 ELV-OB = .000
 RUDDER = .000 SPDBRK = .000

ALPHA(1) = -6.055 BETA(1) = -.005

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.1587 -.1941 -.1726 -.1777 -.1833 -.1792 -.1823 -.1839 -.2211 -.2186 -.2334 -.2123 -.1596 -.1561 -.2168

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2133 -.1501 -.1626 -.1823 -.3103 -.2805 -.3187 -.2373

ALPHA(2) = -4.020 BETA(1) = -4.064

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.1776 -.1999 -.1833 -.1854 -.1885 -.1869 -.2004 -.1901 -.2369 -.1850 -.2364 -.2156 -.1645 -.1533 -.2348

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2232 -.1488 -.1599 -.2090 -.2838 -.2774 -.3143 -.2144

ALPHA(2) = -3.985 BETA(2) = .001

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.1568 -.1784 -.1604 -.1692 -.1779 -.1784 -.1737 -.1737 -.2201 -.1992 -.2262 -.2035 -.1568 -.1583 -.2105

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2070 -.1432 -.1573 -.1878 -.3042 -.2819 -.3157 -.2140

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC13)

ALPHA(2) = -3.974 BETA(3) = 4.077

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.1731 -.2021 -.1824 -.1747 -.1923 -.1933 -.1910 -.1838 -.2362 -.2315 -.2449 -.2151 -.1726 -.2035 -.2227

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2126 -.1544 -.1994 -.1853 -.2411 -.2521 -.2934 -.1809

ALPHA(3) = .096 BETA(1) = -6.101

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.1672 -.1881 -.1787 -.1813 -.1755 -.1766 -.1876 -.1835 -.2153 -.1647 -.2429 -.2090 -.1773 -.1732 -.2274

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2034 -.1522 -.1660 -.2063 -.2902 -.2765 -.3222 -.2091

ALPHA(3) = .098 BETA(2) = -4.070

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.1554 -.1907 -.1612 -.1859 -.1760 -.1781 -.1914 -.1746 -.2255 -.1730 -.2103 -.2035 -.1716 -.1690 -.2293

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.1948 -.1566 -.1628 -.1934 -.2785 -.2714 -.3054 -.1983

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3151

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC13)

ALPHA(3) = .086 BETA(3) = -.016

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.1803 -.1766 -.1650 -.1624 -.1771 -.1745 -.1788 -.1684 -.2310 -.1893 -.2143 -.1938 -.1604 -.1552 -.2159

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2015 -.1994 -.1650 -.1773 -.2736 -.2675 -.2904 -.1851

ALPHA(3) = .117 BETA(4) = 4.075

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.1733 -.1994 -.1827 -.1733 -.1869 -.1890 -.1963 -.1741 -.2449 -.2129 -.2454 -.2086 -.1596 -.1872 -.2255

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2117 -.1408 -.1877 -.1785 -.2336 -.2430 -.2719 -.1515

ALPHA(3) = .121 BETA(5) = 6.104

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.1752 -.2040 -.1862 -.1710 -.1946 -.1851 -.1970 -.1809 -.2318 -.2151 -.2505 -.2177 -.1680 -.2034 -.2270

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2131 -.1424 -.1890 -.1945 -.2325 -.2410 -.2665 -.1554

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC13)

ALPHA(4) = 4.241 BETA(1) = -4.062

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.1578	-.1885	-.1859	-.1739	-.1661	-.1713	-.1876	-.1716	-.2346	-.1726	-.2057	-.1930	-.1336	-.1473	-.2417

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2148 -.1326 -.1508 -.1758 -.2857 -.2547 -.2927 -.1893

ALPHA(4) = 4.240 BETA(2) = -.004

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.1499	-.1712	-.1572	-.1385	-.1634	-.1597	-.1764	-.1537	-.2264	-.1640	-.1862	-.1806	-.1553	-.1461	-.2136

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.1964 -.1538 -.1558 -.1710 -.2636 -.2631 -.2805 -.1711

ALPHA(4) = 4.238 BETA(3) = 4.073

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.1665	-.1951	-.1826	-.1582	-.1759	-.1774	-.1855	-.1788	-.2495	-.1907	-.2402	-.2056	-.1492	-.1690	-.2244

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2015 -.1141 -.1675 -.1684 -.2359 -.2591 -.2862 -.1565

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3153

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC13)

ALPHA(5) = 8.385 BETA(1) = -.010

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.1450 -.1648 -.1585 -.1315 -.1518 -.1487 -.1784 -.1526 -.2222 -.1634 -.1778 -.1750 -.1380 -.1360 -.2136

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.1913 -.1319 -.1456 -.1656 -.2768 -.2768 -.2969 -.1809

ALPHA(6) = 10.456 BETA(1) = .002

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.1538 -.1861 -.1741 -.1470 -.1637 -.1663 -.1812 -.1638 -.2301 -.1755 -.1873 -.1910 -.1467 -.1452 -.2374

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2104 -.1330 -.1559 -.1537 -.2832 -.2986 -.3080 -.1846

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC(4) (02 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
 BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.400 RN/FT = 2.250
 ELV-IB = 8.000 ELV-CB = -4.000
 RUDDER = .000 SPDGRK = .000

ALPHA(1) = -6.312 BETA(1) = -4.066

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2715	-.3027	-.2844	-.2573	-.3062	-.3078	-.2708	-.2708	-.2118	-.1643	-.3062	-.2999	-.2375	-.2362	-.3207
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.3024	-.2304	-.2304	-.2745	-.3053	-.3026	-.3251	-.2546							

ALPHA(1) = -6.295 BETA(2) = -2.013

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2643	-.2915	-.2805	-.2564	-.2899	-.2893	-.2538	-.2510	-.2277	-.1917	-.2877	-.2905	-.2191	-.2246	-.3033
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.2920	-.2264	-.2179	-.2742	-.3015	-.2910	-.3157	-.2586							

ALPHA(1) = -6.258 BETA(3) = .056

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2427	-.2658	-.2484	-.2563	-.2708	-.2724	-.2584	-.2522	-.2444	-.2239	-.2783	-.2612	-.2216	-.2225	-.2890
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.2713	-.2164	-.2289	-.2758	-.2986	-.2971	-.3160	-.2583							

DATE 21 OCT 75

IABIA - PRESSURE SOURCE DATA TABULATION

PAGE 3155

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC14)

ALPHA(1) = -6.244 BETA(4) = 2.126

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2386 -.2616 -.2379 -.2433 -.2625 -.2616 -.2519 -.2463 -.2537 -.2401 -.2751 -.2641 -.2215 -.2254 -.2852

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2666 -.2205 -.2291 -.2742 -.3011 -.2897 -.3140 -.2457

ALPHA(1) = -6.233 BETA(5) = 4.187

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2502 -.2796 -.2641 -.2467 -.2770 -.2777 -.2470 -.2442 -.2612 -.2541 -.2774 -.2772 -.2297 -.2318 -.2906

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2806 -.2257 -.2312 -.2817 -.2900 -.2831 -.3026 -.2524

ALPHA(2) = -4.284 BETA(1) = -6.151

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2386 -.2740 -.2494 -.2469 -.2740 -.2746 -.2665 -.2566 -.2215 -.1584 -.2898 -.2821 -.2332 -.2204 -.2940

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2867 -.2308 -.2159 -.2802 -.3131 -.3191 -.3374 -.2446

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC14)

ALPHA0(2) = -4.193 BETA0 (2) = -4.092

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2627 -.2797 -.2687 -.2684 -.2907 -.2894 -.2739 -.2668 -.2305 -.1815 -.2875 -.2741 -.1971 -.1937 -.3152

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2859 -.1907 -.1949 -.2663 -.2964 -.3054 -.3222 -.2393

ALPHA0(2) = -4.164 BETA0 (3) = .031

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2500 -.2689 -.2557 -.2531 -.2724 -.2721 -.2616 -.2510 -.2563 -.2261 -.2684 -.2656 -.2167 -.2170 -.2931

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2753 -.2152 -.2252 -.2662 -.2849 -.2819 -.3026 -.2339

ALPHA0(2) = -4.142 BETA0 (4) = 4.151

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2420 -.2698 -.2474 -.2366 -.2651 -.2673 -.2471 -.2422 -.2779 -.2443 -.2670 -.2681 -.2178 -.2205 -.2821

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2684 -.2168 -.2205 -.2723 -.2666 -.2669 -.2871 -.2188

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3157

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC14)

ALPHA(2) = -4.129 BETA(5) = 6.220

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2405 -.2689 -.2676 -.2301 -.2648 -.2635 -.2384 -.2365 -.2861 -.2514 -.2620 -.2679 -.2113 -.2247 -.2853

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2731 -.2146 -.2247 -.2809 -.2237 -.2338 -.2401 -.1832

ALPHA(3) = -2.093 BETA(1) = -6.169

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2530 -.2798 -.2691 -.2637 -.2767 -.2789 -.2750 -.2654 -.2455 -.1763 -.2812 -.2727 -.2234 -.1917 -.2968

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2849 -.2112 -.1920 -.2633 -.3018 -.3138 -.3255 -.2313

ALPHA(3) = -2.078 BETA(2) = -2.063

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2570 -.2797 -.2617 -.2567 -.2804 -.2800 -.2696 -.2581 -.2593 -.2130 -.2668 -.2719 -.1986 -.1953 -.3028

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2805 -.1962 -.2017 -.2622 -.2664 -.2857 -.3040 -.2199

ORIGINAL PAGE IS
OF POOR QUALITY

ARC!!-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC14)

ALPHA0(3) = -2.057 BETA0 (3) = 2.077

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2439	-.2686	-.2389	-.2363	-.2620	-.2617	-.2511	-.2396	-.2807	-.2421	-.2598	-.2599	-.2119	-.2138	-.2838

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000	-.2648	-.2116	-.2260	-.2636	-.2581	-.2779	-.2930	-.2078
------	--------	--------	--------	--------	--------	--------	--------	--------

ALPHA0(3) = -2.039 BETA0 (4) = 6.185

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2376	-.2666	-.2638	-.2215	-.2474	-.2490	-.2358	-.2327	-.2978	-.2468	-.2513	-.2659	-.2014	-.2111	-.2787

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000	-.2675	-.2035	-.2117	-.2666	-.2253	-.2262	-.2349	-.1785
------	--------	--------	--------	--------	--------	--------	--------	--------

ALPHA0(4) = .021 BETA0 (1) = -6.181

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2557	-.2743	-.2604	-.2696	-.2718	-.2724	-.2708	-.2612	-.2689	-.2084	-.2693	-.2629	-.1770	-.1511	-.2955

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000	-.2760	-.1785	-.1526	-.2596	-.2948	-.3081	-.3192	-.2447
------	--------	--------	--------	--------	--------	--------	--------	--------

DATE 21 OCT 75

IABIA - PRESSURE SOURCE DATA TABULATION

PAGE 3159

ARC11-019 IABI LVAP(ELHL SEALED) MISC. ORIFICES

(RETC14)

ALPHA(4) = .023 BETA(2) = -4.121

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2553 -.2733 -.2537 -.2660 -.2808 -.2814 -.2712 -.2613 -.2700 -.2200 -.2715 -.2633 -.1759 -.1476 -.3017

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2779 -.1786 -.1698 -.2513 -.2774 -.2936 -.3068 -.2269

ALPHA(4) = .027 BETA(3) = -2.070

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2492 -.2758 -.2496 -.2499 -.2732 -.2745 -.2608 -.2493 -.2735 -.2195 -.2555 -.2626 -.1940 -.1748 -.2922

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2720 -.1894 -.1691 -.2510 -.2578 -.2783 -.2939 -.2119

ALPHA(4) = .027 BETA(4) = -.007

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2428 -.2665 -.2418 -.2371 -.2640 -.2640 -.2517 -.2421 -.2816 -.2362 -.2464 -.2533 -.2106 -.1913 -.2792

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2618 -.2100 -.2093 -.2509 -.2524 -.2663 -.2822 -.2011

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC14)

ALPHA0(4) = .038 BETA0 (5) = 4.112

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2437 -.2706 -.2566 -.2288 -.2601 -.2595 -.2489 -.2393 -.3005 -.2449 -.2579 -.2633 -.1950 -.1975 -.2807

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2633 -.1993 -.2075 -.2515 -.2449 -.2512 -.2575 -.1764

ALPHA0(4) = .051 BETA0 (6) = 6.174

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2377 -.2646 -.2592 -.2292 -.2412 -.2409 -.2411 -.2368 -.3005 -.2548 -.2514 -.2540 -.1911 -.2036 -.2789

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2655 -.1917 -.2072 -.2548 -.2301 -.2304 -.2364 -.1676

ALPHA0(5) = 2.131 BETA0 (1) = -6.166

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2526 -.2810 -.2677 -.2516 -.2690 -.2690 -.2752 -.2599 -.2814 -.2283 -.2699 -.2705 -.1746 -.1191 -.3013

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2806 -.1819 -.1557 -.2610 -.2994 -.3030 -.3135 -.2338

DATE 21 OCT 75

IABIA - PRESSURE SOURCE DATA TABULATION

PAGE 3161

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC14)

ALPHA(5) = 2.132 BETA(2) = -2.063

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2468	-.2705	-.2405	-.2535	-.2670	-.2667	-.2574	-.2540	-.2869	-.2469	-.2534	-.2616	-.1892	-.1715	-.2957
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							

.000 -.2738 -.1841 -.1682 -.2433 -.2642 -.2726 -.2847 -.2006

ALPHA(5) = 2.136 BETA(3) = 2.064

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2277	-.2576	-.2340	-.2166	-.2494	-.2513	-.2396	-.2250	-.2811	-.2352	-.2340	-.2463	-.1933	-.1915	-.2713
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							

.000 -.2554 -.1994 -.2033 -.2424 -.2554 -.2496 -.2623 -.1920

ALPHA(5) = 2.148 BETA(4) = 6.175

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2382	-.2650	-.2537	-.2284	-.2372	-.2363	-.2477	-.2362	-.2828	-.2530	-.2520	-.2574	-.1699	-.1925	-.2754
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							

.000 -.2613 -.1727 -.1958 -.2474 -.2342 -.2345 -.2423 -.1714

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC14)

ALPHA(6) = 4.219 BETA(1) = -6.143

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2570 -.2810 -.2567 -.2482 -.2617 -.2652 -.2716 -.2579 -.2878 -.2414 -.2648 -.2737 -.1822 -.1200 -.3051

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2823 -.1755 -.1633 -.2425 -.2900 -.2789 -.2972 -.2153

ALPHA(6) = 4.218 BETA(2) = -4.089

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2522 -.2749 -.2522 -.2380 -.2698 -.2670 -.2646 -.2531 -.2972 -.2503 -.2568 -.2659 -.1779 -.1426 -.2942

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2787 -.1892 -.1746 -.2346 -.2834 -.2852 -.2968 -.2249

ALPHA(6) = 4.218 BETA(3) = .008

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2337 -.2516 -.2322 -.2331 -.2511 -.2524 -.2424 -.2334 -.2925 -.2521 -.2384 -.2477 -.1843 -.1782 -.2741

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2550 -.1785 -.1874 -.2186 -.2678 -.2552 -.2747 .2136

DATE 21 OCT 75

1A81A - PRESSURE SOURCE DATA TABULATION

PAGE 3153

ARC11-019 (A81 LVAP(ELHL SEALED) MISC. ORIFICES

(PRTC14)

ALPHA0(6) = 4.217 BETA0 (4) = 4.126

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2370 -.2657 -.2508 -.2278 -.2512 -.2515 -.2527 -.2405 -.2275 -.2555 -.2465 -.2598 -.1781 -.1898 -.2799

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2653 -.1845 -.2007 -.2297 -.2608 -.2461 -.2617 -.1843

ALPHA0(6) = 4.218 BETA0 (5) = 6.196

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2415 -.2696 -.2538 -.2293 -.2494 -.2475 -.2504 -.2380 -.2690 -.2551 -.2467 -.2632 -.1694 -.1941 -.2864

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2681 -.1728 -.1996 -.2368 -.2405 -.2321 -.2438 -.1792

ALPHA0(7) = 6.327 BETA0 (1) = -4.066

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2446 -.2759 -.2418 -.2339 -.2639 -.2645 -.2589 -.2443 -.3067 -.2623 -.2607 -.2743 -.1977 -.1864 -.3011

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2740 -.1959 -.1944 -.2360 -.2969 -.2948 -.3038 -.2263

ORIGINAL PAGE IS OF POOR QUALITY

DATE 21 OCT 75

IA81A - PRESSURE SOURCE DATA TABULATION

PAGE 3164

ARC11-019 IA81 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC14)

ALPHA0(7) = 6.327 BETA0 (2) = -2.028

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2532 -.2766 -.2494 -.2346 -.2592 -.2605 -.2642 -.2496 -.3108 -.2729 -.2623 -.2686 -.1773 -.1788 -.3000

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2735 -.1984 -.1895 -.2182 -.2927 -.2780 -.3032 -.2369

ALPHA0(7) = 6.325 BETA0 (3) = .021

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2337 -.2653 -.2407 -.2243 -.2517 -.2485 -.2567 -.2424 -.3099 -.2732 -.2455 -.2564 -.1945 -.1862 -.2854

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2604 -.2045 -.1881 -.2154 -.2885 -.2641 -.2942 -.2230

ALPHA0(7) = 6.323 BETA0 (4) = 2.091

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2377 -.2706 -.2295 -.2244 -.2484 -.2484 -.2513 -.2326 -.3058 -.2566 -.2429 -.2573 -.1773 -.1755 -.2887

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2606 -.1776 -.1910 -.2214 -.2709 -.2535 -.2778 -.1981

DATE 21 OCT 75

IABIA - PRESSURE SOURCE DATA TABULATION

PAGE 3165

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC14)

ALPHA(7) = 6.316 BETA(5) = 4.148

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2409	-.2664	-.2462	-.2257	-.2500	-.2516	-.2527	-.2357	-.3055	-.2552	-.2502	-.2594	-.1722	-.1856	-.2671
TAP NO	205.0000	206.0000	207.0000	208.0000	209.0000	210.0000	211.0000	212.0000	213.0000	214.0000	215.0000	216.0000	217.0000	218.0000	219.0000	220.0000
	.000	-.2701	-.1832	-.1987	-.2369	-.2616	-.2553	-.2661	-.1891							

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC15) (02 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
 BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = .900 RN/FT = 2.250
 ELV-1B = 8.000 ELV-0B = 6.000
 RUDDER = .000 SPOBRK = .000

ALPHA0 (1) = -6.170 BETA0 (1) = -4.069

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000
 .000 -.2059 -.2556 -.2471 -.2125 -.2525 -.2548 -.2300 -.2296 -.2721 -.2560 -.2537 -.2599 -.2443 -.2351 -.2706

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2626 -.2470 -.2260 -.2867 -.3397 -.3038 -.3642 -.2905

ALPHA0 (1) = -6.165 BETA0 (2) = -2.034

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000
 .000 -.2037 -.2579 -.2594 -.2179 -.2629 -.2637 -.2309 -.2411 -.2505 -.2531 -.2543 -.2600 -.2362 -.2317 -.2850

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2714 -.2389 -.2355 -.2747 -.3492 -.3013 -.3634 -.2952

ALPHA0 (1) = -6.129 BETA0 (3) = .031

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000
 .000 -.2150 -.2699 -.2673 -.2424 -.2525 -.2536 -.2401 -.2568 -.2534 -.2804 -.2732 -.2800 -.2416 -.2306 -.2815

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2841 -.2325 -.2367 -.2763 -.3248 -.2984 -.3550 -.2781

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3167

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC15)

ALPHA0(1) = -6.118 BETA0 (4) = 2.093

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2323 -.2721 -.2636 -.2559 -.2574 -.2597 -.2494 -.2528 -.2467 -.2866 -.2870 -.2779 -.2639 -.2741 -.2835

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2793 -.2468 -.2729 -.2692 -.2944 -.2932 -.3322 -.2378

ALPHA0(1) = -6.110 BETA0 (5) = 4.138

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2362 -.2663 -.2639 -.2578 -.2655 -.2690 -.2601 -.2537 -.2507 -.2885 -.2764 -.2703 -.2616 -.2827 -.2740

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2793 -.2355 -.2774 -.2737 -.2729 -.2603 -.2970 -.2073

ALPHA0(2) = -4.082 BETA0 (1) = -6.131

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2162 -.2589 -.2351 -.2304 -.2551 -.2566 -.2366 -.2389 -.2876 -.2366 -.2745 -.2610 -.2508 -.2365 -.2690

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2667 -.2467 -.2274 -.2898 -.3445 -.3078 -.3717 -.2906

ARC11-019 IA81 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC15)

ALPHA(2) = -4.072 BETA(2) = -4.082

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2062 -.2483 -.2340 -.2174 -.2591 -.2580 -.2270 -.2316 -.2744 -.2429 -.2505 -.2553 -.2379 -.2265 -.2724

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2644 -.2367 -.2163 -.2760 -.3237 -.2939 -.3555 -.2759

ALPHA(2) = -4.058 BETA(3) = .016

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2105 -.2573 -.2531 -.2403 -.2446 -.2403 -.2334 -.2444 -.2608 -.2612 -.2764 -.2662 -.2263 -.2297 -.2799

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2715 -.2213 -.2301 -.2686 -.2964 -.2788 -.3323 -.2466

ALPHA(2) = -4.039 BETA(4) = 4.120

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2247 -.2537 -.2475 -.2475 -.2502 -.2495 -.2414 -.2334 -.2357 -.2657 -.2665 -.2577 -.2543 -.2783 -.2672

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2615 -.2254 -.2638 -.2601 -.2648 -.2526 -.2891 -.2028

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3169

ARC1: -019 IAB: LVAP(ELHL SEALED) MISC. ORIFICES

(RETC15)

ALPHA0(2) = -4.035 BETA0 (5) = 6.171

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2357	-.2656	-.2582	-.2493	-.2570	-.2528	-.2496	-.2415	-.2457	-.2744	-.2713	-.2679	-.2618	-.2831	-.2690

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2603 -.2340 -.2713 -.2939 -.2492 -.2461 -.2671 -.1869

ALPHA0(3) = -2.011 BETA0 (1) = -6.134

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2189	-.2640	-.2335	-.2254	-.2574	-.2593	-.2262	-.2235	-.2761	-.2239	-.2553	-.2631	-.2483	-.2305	-.2740

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2675 -.2437 -.2354 -.2902 -.3529 -.3110 -.3710 -.2795

ALPHA0(3) = -2.000 BETA0 (2) = -2.052

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.1998	-.2544	-.2379	-.2036	-.2456	-.2456	-.2224	-.2266	-.2663	-.2323	-.2519	-.2547	-.2297	-.2256	-.2683

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2558 -.2188 -.2154 -.2610 -.3301 -.2898 -.3455 -.2634

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC15)

ALPHA(3) = -1.985 BETA(3) = 2.064

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2190 -.2491 -.2344 -.2414 -.2410 -.2445 -.2330 -.2315 -.2440 -.2413 -.2648 -.2574 -.2460 -.2604 -.2672

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2615 -.2224 -.2585 -.2582 -.2523 -.2658 -.3001 -.1961

ALPHA(3) = -1.973 BETA(4) = 6.153

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2293 -.2561 -.2366 -.2421 -.2522 -.2464 -.2431 -.2397 -.2370 -.2561 -.2633 -.2576 -.2454 -.2756 -.2699

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2584 -.2217 -.2702 -.2765 -.2436 -.2482 -.2704 -.1793

ALPHA(4) = .079 BETA(1) = -6.140

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2066 -.2462 -.2093 -.2117 -.2412 -.2389 -.2236 -.2201 -.2545 -.2136 -.2546 -.2448 -.2245 -.2127 -.2574

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2448 -.2131 -.2142 -.2991 -.3353 -.3082 -.3555 -.2633

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3171

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC15)

ALPHA0(4) = .084 BETA0 (2) = -4.099

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1943 -.2329 -.1954 -.1989 -.2379 -.2356 -.2117 -.2128 -.2537 -.2167 -.2465 -.2319 -.2091 -.2019 -.2531

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2394 -.2015 -.1913 -.2750 -.3252 -.3026 -.3371 -.2502

ALPHA0(4) = .085 BETA0 (3) = -.004

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1957 -.2273 -.2157 -.2227 -.2211 -.2173 -.2145 -.2072 -.2449 -.2327 -.2476 -.2366 -.2018 -.2041 -.2487

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2309 -.2007 -.1923 -.2554 -.2885 -.2885 -.3070 -.2161

ALPHA0(4) = .097 BETA0 (4) = 4.092

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2175 -.2550 -.2265 -.2296 -.2468 -.2507 -.2303 -.2338 -.2196 -.2376 -.2683 -.2565 -.2339 -.2535 -.2661

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2588 -.2212 -.2515 -.2772 -.2497 -.2589 -.2831 -.1795

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC15)

ALPHA0(4) = .102 BETA0 (5) = 6.138

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2236 -.2515 -.2243 -.2263 -.2395 -.2414 -.2340 -.2321 -.2130 -.2332 -.2657 -.2576 -.2294 -.2538 -.2564

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2545 -.2035 -.2465 -.2860 -.2427 -.2539 -.2711 -.1749

ALPHA0(5) = 2.176 BETA0 (1) = -6.134

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2018 -.2425 -.2107 -.2185 -.2398 -.2363 -.2185 -.2162 -.2539 -.2132 -.2498 -.2398 -.2178 -.2113 -.2573

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2410 -.2007 -.2018 -.2826 -.3186 -.2960 -.3374 -.2477

ALPHA0(5) = 2.181 BETA0 (2) = -2.059

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.1916 -.2300 -.1951 -.2044 -.2199 -.2198 -.2045 -.2034 -.2412 -.2187 -.2431 -.2292 -.2166 -.2026 -.2414

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2269 -.2045 -.1919 -.2665 -.3119 -.2938 -.3149 -.2288

DATE 21 OCT 75

1A81A - FRESSURE SOURCE DATA TABULATION

PAGE 3173

ARC11-019 1A81 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC15)

ALPHA0(5) = 2.185 BETA0 (3) = 2.048

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2003 -.2310 -.2069 -.2178 -.2217 -.2248 -.2149 -.2068 -.2290 -.2214 -.2463 -.2375 -.2298 -.2321 -.2402

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2329 -.2031 -.2310 -.2636 -.2646 -.2700 -.2830 -.1776

ALPHA0(5) = 2.183 BETA0 (4) = 6.140

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2186 -.2562 -.2244 -.2252 -.2493 -.2485 -.2269 -.2280 -.2026 -.2250 -.2595 -.2601 -.2269 -.2525 -.2662

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2609 -.2132 -.2544 -.2803 -.2488 -.2630 -.2798 -.1774

ALPHA0(6) = 4.251 AO (1) = -6.118

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2012 -.2468 -.2096 -.2108 -.2353 -.2411 -.2175 -.2152 -.2425 -.2110 -.2520 -.2473 -.2244 -.2079 -.2549

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2409 -.2026 -.2026 -.2851 -.3268 -.2953 -.3360 -.2420

ARC11-019 IAB1 LVAP (ELHL SEALED) MISC. ORIFICES

(RETC15)

ALPHA0(6) = 4.253 BETA0 (2) = -4.076

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.1929 -.2288 -.1987 -.2064 -.2238 -.2265 -.2016 -.2024 -.2389 -.2016 -.2499 -.2286 -.2187 -.2031 -.2499

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2354 -.2092 -.1875 -.2651 -.3070 -.2836 -.3150 -.2199

ALPHA0(6) = 4.252 BETA0 (3) = .002

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.1985 -.2282 -.2012 -.2089 -.2178 -.2220 -.2064 -.2022 -.2424 -.2124 -.2477 -.2332 -.1945 -.1908 -.2385

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2340 -.1945 -.1908 -.2485 -.2922 -.2803 -.3053 -.1934

ALPHA0(6) = 4.253 BETA0 (4) = 4.095

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2031 -.2332 -.2063 -.2113 -.2297 -.2258 -.2115 -.2084 -.2195 -.2130 -.2474 -.2396 -.2250 -.2300 -.2392

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2338 -.1895 -.2174 -.2726 -.2618 -.2618 -.2921 -.1849

DATE 21 OCT 75

1A01A - PRESSURE SOURCE DATA TABULATION

PAGE 3175

ARC11-019 1A01 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC15)

ALPHA(6) = 4.245 BETA(5) = 6.148

SECTION (1) MISC. ORIFICES		DEPENDENT VARIABLE CP														
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2068	-.2522	-.2150	-.2095	-.2351	-.2437	-.2086	-.2120	-.2021	-.2093	-.2592	-.2503	-.2206	-.2366	-.2530
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.2530	-.1936	-.2473	-.2755	-.2575	-.2698	-.2958	-.2112							

ALPHA(7) = 5.304 BETA(1) = -4.072

SECTION (1) MISC. ORIFICES		DEPENDENT VARIABLE CP														
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2025	-.2387	-.2036	-.2138	-.2332	-.2290	-.2063	-.2037	-.2361	-.2048	-.2487	-.2377	-.2255	-.2124	-.2557
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.2385	-.2136	-.2010	-.2687	-.3288	-.2966	-.3249	-.2196							

ALPHA(7) = 5.305 BETA(2) = -2.036

SECTION (1) MISC. ORIFICES		DEPENDENT VARIABLE CP														
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.1967	-.2283	-.1959	-.2032	-.2152	-.2152	-.2002	-.2002	-.2302	-.2002	-.2366	-.2295	-.2185	-.2033	-.2440
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.2257	-.2059	-.1999	-.2565	-.3146	-.2833	-.3188	-.2191							

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELML SEALED) MISC. ORIFICES

(RETC15)

ALPHA(7) = 5.302 BETA(3) = .007

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.1911 -.2154 -.1849 -.1965 -.2104 -.2081 -.1998 -.2009 -.2317 -.1986 -.2438 -.2137 -.1959 -.1883 -.2349

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2216 -.1932 -.1861 -.2505 -.2956 -.2895 -.3132 -.2163

ALPHA(7) = 5.302 BETA(4) = 2.065

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.1951 -.2226 -.1998 -.2118 -.2172 -.2133 -.2050 -.2061 -.2282 -.2099 -.2411 -.2244 -.2168 -.2232 -.2365

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2251 -.1959 -.2202 -.2611 -.2754 -.2773 -.2980 -.1916

ALPHA(7) = 5.298 BETA(5) = 4.107

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.1982 -.2332 -.2099 -.2173 -.2281 -.2227 -.2167 -.2109 -.2251 -.2174 -.2468 -.2365 -.2125 -.2327 -.2430

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2327 -.1877 -.2198 -.2705 -.2596 -.2772 -.3017 -.2006

DATE 21 OCT 75

IABIA - PRESSURE SOURCE DATA TABULATION

PAGE 3177

ARC11-019 IABI LVAP(ELHL SEALED) MISC. ORIFICES

(RETC16) (02 OCT 74)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
 BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0300 SCALE

MACH = 1.100 RN/FT = 2.250
 ELV-10 = 8.000 ELV-08 = 6.000
 RUDDER = .000 SPD3RK = .000

ALPHA(1) = -6.246 BETA(1) = -4.078

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.2829	-.3391	-.2919	-.2909	-.3339	-.3367	-.2808	-.2909	-.3784	-.2710	-.3389	-.3418	-.2869	-.2768
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							

.000 -.3401 -.2927 -.2639 -.3418 -.3833 -.3765 -.4170 -.3411

ALPHA(1) = -6.234 BETA(2) = -2.033

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.3047	-.3523	-.2958	-.2876	-.3393	-.3376	-.2853	-.2930	-.3903	-.3149	-.3573	-.3489	-.2753	-.2659
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							

.000 -.3496 -.2907 -.2612 -.3216 -.3878 -.3776 -.4068 -.3410

ALPHA(1) * -6.194 BETA(3) = .038

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.2974	-.3358	-.2823	-.2840	-.3245	-.3266	-.3134	-.2992	-.4343	-.3404	-.3434	-.3365	-.2835	-.2720
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							

.000 -.3334 -.2984 -.2673 -.3190 -.3897 -.3706 -.4007 -.3420

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC16)

ALPHA(1) = -6.181 BETA(4) = 2.103

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2857 -.3173 -.2816 -.2888 -.3118 -.3128 -.3034 -.2929 -.3939 -.3480 -.3311 -.3185 -.2838 -.2814 -.3364

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3188 -.2773 -.2831 -.3270 -.3652 -.3526 -.3877 -.3140

ALPHA(1) = -6.169 BETA(5) = 4.159

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2911 -.3196 -.2914 -.2883 -.3152 -.3155 -.3012 -.2948 -.3920 -.3306 -.3279 -.3198 -.2871 -.2877 -.3451

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3174 -.2800 -.2844 -.3350 -.3488 -.3314 -.3635 -.2898

ALPHA(2) = -4.136 BETA(1) = -6.157

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2728 -.3228 -.2752 -.2906 -.3156 -.3156 -.2853 -.2886 -.3673 -.2631 -.3330 -.3267 -.2743 -.2602 -.3368

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3217 -.2776 -.2541 -.3373 -.3809 -.3694 -.4099 -.3285

DATE 21 OCT 75

IABIA - PRESSURE SOURCE DATA TABULATION

PAGE 3179

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC16)

ALPHA(2) = -4.125 BETA(2) = -4.102

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2784 -.3271 -.2784 -.2870 -.3237 -.3240 -.2830 -.2870 -.3654 -.2729 -.3355 -.3338 -.2831 -.2590 -.3503

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3331 -.2809 -.2493 -.3242 -.3762 -.3694 -.4078 -.3271

ALPHA(2) = -4.108 BETA(3) = .014

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2849 .3226 -.2705 -.2787 -.3127 -.3096 -.2824 -.2757 -.3838 -.3245 -.3282 -.3257 -.2722 -.2580 -.3446

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3176 -.2873 -.2563 -.3038 -.3743 -.3610 -.3852 -.3201

ALPHA(2) = -4.082 BETA(4) = 4.132

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2838 -.3156 -.2914 -.2842 -.3090 -.3070 -.2974 -.2856 -.3600 -.3238 -.3285 -.3213 -.2702 -.2729 -.3481

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3203 -.2665 -.2712 -.3133 -.3367 -.3268 -.3558 -.2882

ARC11-019 IA81 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC16)

ALPHA0(2) = -4.074 BETA0 (5) = 6.189

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2901	-.3204	-.2946	-.2835	-.3001	-.3011	-.2981	-.2883	-.3478	-.3146	-.3231	-.3194	-.2734	-.2856	-.3454

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000	-.3167	-.2656	-.2778	-.3313	-.2908	-.3013	-.3167	-.2455
------	--------	--------	--------	--------	--------	--------	--------	--------

ALPHA0(3) = -2.033 BETA0 (1) = -6.165

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2758	-.3230	-.2854	-.2947	-.3123	-.3120	-.2839	-.2893	-.3563	-.2762	-.3407	-.3292	-.2690	-.2548	-.3404

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000	-.3228	-.2697	-.2565	-.3184	-.3687	-.3619	-.3956	-.3062
------	--------	--------	--------	--------	--------	--------	--------	--------

ALPHA0(3) = -2.021 BETA0 (2) = -2.073

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.3011	-.3465	-.2812	-.2946	-.3266	-.3249	-.2895	-.2912	-.3610	-.3232	-.3523	-.3520	-.2605	-.2514	-.3685

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000	-.3462	-.2655	-.2449	-.3047	-.3584	-.3489	-.3934	-.3005
------	--------	--------	--------	--------	--------	--------	--------	--------

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3181

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC16)

ALPHA0(3) = -2.004 BETA0 (3) = 2.061

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2749 -.3020 -.2625 -.2714 -.2920 -.2948 -.2854 -.2739 -.3599 -.3237 -.3250 -.3100 -.2559 -.2593 -.3255

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.3025 -.2468 -.2620 -.3003 -.3257 -.3356 -.3615 -.2818

ALPHA0(3) = -1.987 BETA0 (4) = 6.166

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2941 -.3307 -.3089 -.2882 -.2972 -.2937 -.3003 -.2864 -.3467 -.3175 -.3236 -.3328 -.2661 -.2735 -.3477

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.3227 -.2546 -.2634 -.3126 -.2951 -.2944 -.3077 -.2419

ALPHA0(4) = .070 BETA0 (1) = -6.166

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2714 -.3311 -.2807 -.2882 -.3036 -.3033 -.2848 -.2923 -.3324 -.3024 -.3402 -.3346 -.2538 -.2376 -.3427

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.3181 -.2501 -.2363 -.3180 -.3704 -.3461 -.3888 -.2919

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC16)

ALPHA(4) = .076 BETA(2) = -4.111

SECTION (1)MISC. ORIFICES	DEPENDENT VARIABLE CP															
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2725	-.3318	-.2766	-.2876	-.3143	-.3154	-.2869	-.2853	-.3281	-.3177	-.3474	-.3377	-.2534	-.2382	-.3489
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.3354	-.2537	-.2372	-.3063	-.3583	-.3494	-.3924	-.2987							

ALPHA(4) = .084 BETA(3) = -.007

SECTION (1)MISC. ORIFICES	DEPENDENT VARIABLE CP															
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2774	-.3080	-.2661	-.2784	-.2980	-.2987	-.2943	-.2808	-.3552	-.3281	-.3295	-.3116	-.2552	-.2531	-.3406
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.3062	-.2545	-.2504	-.2902	-.3230	-.3254	-.3523	-.2708							

ALPHA(4) = .099 BETA(4) = 4.099

SECTION (1)MISC. ORIFICES	DEPENDENT VARIABLE CP															
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2968	-.3281	-.2930	-.2848	-.3109	-.3147	-.3100	-.2999	-.3516	-.3208	-.3472	-.3369	-.2490	-.2527	-.3578
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.3328	-.2500	-.2497	-.2874	-.3214	-.3238	-.3292	-.2429							

DATE 21 OCT 75

IABIA - PRESSURE SOURCE DATA TABULATION

PAGE 3183

ARC11-019 IAB1 LVAPI(LHL SEALED) MISC. ORIFICES

(RETC16)

ALPHA(4) = .104 BETA(5) = 6.156

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.3030	-.3353	-.3027	-.2910	-.3010	-.2955	-.3096	-.2954	-.3346	-.3238	-.3441	-.3424	-.2465	-.2563	-.3532
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								

.000 -.3330 -.2435 -.2533 -.3069 -.3057 -.3005 -.3067 -.2268

ALPHA(5) = 2.179 BETA(1) = -6.160

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2713	-.3348	-.2837	-.2960	-.3087	-.3067	-.2880	-.2944	-.3392	-.3052	-.3483	-.3396	-.2472	-.2306	-.3578
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								

.000 -.3332 -.2397 -.2323 -.2978 -.3622 -.3455 -.3857 -.2971

ALPHA(5) = 2.183 BETA(2) = -2.076

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2702	-.3093	-.2462	-.2654	-.2921	-.2907	-.2730	-.2716	-.3030	-.3199	-.3388	-.3220	-.2377	-.2276	-.3388
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								

.000 -.3105 -.2418 -.2269 -.2815 -.3347 -.3269 -.3599 -.2795

REMOVED PAGE 31 FROM QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC16)

ALPHA(5) = 2.194 BETA(3) = 2.052

SECTION (1) MISC. ORIFICES	DEPENDENT VARIABLE CP															
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2669	-.2947	-.2597	-.2652	-.2982	-.3002	-.2912	-.2770	-.3128	-.3321	-.3484	-.3084	-.2361	-.2195	-.3391
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.3296	-.2283	-.2239	-.2795	-.3301	-.3161	-.3462	-.2578							

ALPHA(5) = 2.199 BETA(4) = 6.158

SECTION (1) MISC. ORIFICES	DEPENDENT VARIABLE CP															
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2980	-.3300	-.3045	-.2760	-.2949	-.3079	-.3067	-.2871	-.2956	-.3104	-.3469	-.3384	-.2363	-.2488	-.3485
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.3384	-.2342	-.2532	-.2915	-.3033	-.2958	-.3166	-.2256							

ALPHA(6) = 4.246 BETA(1) = -6.141

SECTION (1) MISC. ORIFICES	DEPENDENT VARIABLE CP															
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2717	-.3431	-.2820	-.2957	-.3101	-.3060	-.2896	-.2949	-.2939	-.3074	-.3512	-.3418	-.2371	-.2179	-.3539
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.3327	-.2293	-.2236	-.2914	-.3683	-.3679	-.3823	-.2978							

DATE 21 OCT 75

1A81A - PRESSURE SOURCE DATA TABULATION

PAGE 3185

ARC11-019 (AB) LYAP (ELHL SEALED) MISC. ORIFICES

(RETC16)

ALPHA(6) = 4.252 BETA(2) = -4.091

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2777 -.3231 -.2653 -.2846 -.3049 -.3055 -.2846 -.2832 -.2907 -.3282 -.3496 -.3313 -.2425 -.2219 -.3492

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3273 -.2418 -.2229 -.2797 -.3610 -.3489 -.3771 -.2996

ALPHA(6) = 4.259 BETA(3) = -.003

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2710 -.3181 -.2641 -.2676 -.2920 -.2879 -.2854 -.2708 -.3023 -.3155 -.3388 -.3226 -.2307 -.2178 -.3415

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3229 -.2367 -.2154 -.2633 -.3429 -.3269 -.3600 -.2815

ALPHA(6) = 4.261 BETA(4) = 4.109

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2874 -.3228 -.2981 -.2926 -.3060 -.3039 -.3032 -.2944 -.3079 -.3241 -.3485 -.3469 -.2170 -.2278 -.3573

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3405 -.2183 -.2298 -.2728 -.3273 -.3164 -.3406 -.2483

ARC11-019 IAB1 LVAPI(ELHL SEALED) MISC. ORIFICES

(RETC16)

ALPHA0(6) = 4.259 BETA0 (5) = 5.170

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2997	-.3421	-.3021	-.2987	-.3070	-.3107	-.3160	-.3015	-.3255	-.3289	-.3526	-.3535	-.2225	-.2437	-.3586
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.3410	-.2245	-.2424	-.2830	-.3137	-.3034	-.3219	-.2402							

ALPHA0(7) = 6.364 BETA0 (1) = -4.074

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2753	-.3426	-.2767	-.2935	-.3097	-.3093	-.2901	-.2907	-.2941	-.3275	-.3589	-.3471	-.2275	-.2137	-.3582
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.3448	-.2302	-.2167	-.2716	-.3607	-.3655	-.3795	-.2908							

ALPHA0(7) = 6.367 BETA0 (2) = -2.043

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2723	-.3287	-.2675	-.2895	-.3008	-.3005	-.2836	-.2860	-.2883	-.3323	-.3461	-.3421	-.2218	-.2117	-.3576
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.3498	-.2205	-.2124	-.2612	-.3598	-.3632	-.3775	-.3025							

DATE 21 OCT 75

IABIA - PRESSURE SOURCE DATA TABULATION

PAGE 3187

ARC11-019 IABI LVAP(ELHL SEALED) MISC. ORIFICES

(RETC16)

ALPHA0(7) = 6.367 BETA0 (3) = .008

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2666 -.3171 -.2594 -.2738 -.2907 -.2903 -.2783 -.2735 -.2820 -.3185 -.3367 -.3296 -.2237 -.2079 -.3421

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.3357 -.2224 -.2109 -.2504 -.3432 -.3442 -.3602 -.2863

ALPHA0(7) = 6.364 BETA0 (4) = 2.073

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2712 -.3049 -.2860 -.2915 -.3008 -.3021 -.2986 -.2962 -.3229 -.3249 -.3493 -.3479 -.1989 -.1999 -.3556

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.3529 -.2026 -.2154 -.2523 -.3335 -.3236 -.3533 -.2755

ALPHA0(7) = 6.359 BETA0 (5) = 4.124

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2855 -.3385 -.3148 -.3113 -.3234 -.3217 -.3157 -.3090 -.3431 -.3320 -.3478 -.3678 -.2094 -.2232 -.3773

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.3644 -.2148 -.2293 -.2613 -.3261 -.3142 -.3408 -.2495

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC17) (19 OCT 74)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
 BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0300 SCALE

MACH = .900 RN/FT = 2.250
 ELV-18 = 10.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000

ALPHA0(1) = -6.178 BETA0 (1) = -4.055

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2180 -.2688 -.2625 -.2293 -.2684 -.2668 -.2333 -.2471 -.2536 -.2517 -.2620 -.2730 -.2554 -.2519 -.2799

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2750 -.2592 -.2381 -.2863 -.3418 -.3046 -.3667 -.2887

ALPHA0(1) = -6.167 BETA0 (2) = -2.018

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2117 -.2586 -.2645 -.2293 -.2676 -.2602 -.2311 -.2384 -.2534 -.2568 -.2565 -.2574 -.2317 -.2317 -.2907

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2700 -.2282 -.2229 -.2694 -.3460 -.3023 -.3669 -.2965

ALPHA0(1) = -6.142 BETA0 (3) = .046

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2127 -.2664 -.2703 -.2571 -.2586 -.2571 -.2387 -.2577 -.2440 -.2814 -.2681 -.2782 -.2392 -.2354 -.2946

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2816 -.2350 -.2461 -.2712 -.3252 -.2941 -.3541 -.2783

DATE 21 OCT 75

IABIA - PRESSURE SOURCE DATA TABULATION

PAGE 3189

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC17)

ALPHA0(1) = -6.130 BETA0 (4) = 2.104

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2346 -.2708 -.2673 -.2622 -.2688 -.2696 -.2510 -.2544 -.2426 -.2884 -.2904 -.2791 -.2722 -.2833 -.2871

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2886 -.2531 -.2829 -.2714 -.2954 -.2965 -.3351 -.2402

ALPHA0(1) = -6.123 BETA0 (5) = 4.151

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2392 -.2639 -.2581 -.2605 -.2585 -.2670 -.2579 -.2576 -.2389 -.2876 -.2785 -.2713 -.2633 -.2895 -.2751

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2789 -.2440 -.2762 -.2782 -.2714 -.2644 -.3002 -.2059

ALPHA0(2) = -4.089 BETA0 (1) = -6.119

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2210 -.2661 -.2447 -.2370 -.2599 -.2591 -.2348 -.2386 -.2943 -.2405 -.2531 -.2641 -.2588 -.2477 -.2756

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2680 -.2596 -.2390 -.2968 -.3466 -.3047 -.3716 -.2901

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC17)

ALPHA(2) = -4.079 BETA(2) = -4.073

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2106 -.2529 -.2447 -.2196 -.2606 -.2598 -.2218 -.2340 -.2694 -.2371 -.2534 -.2576 -.2477 -.2394 -.2763

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2687 -.2477 -.2230 -.2791 -.3307 -.2988 -.3588 -.2803

ALPHA(2) = -4.065 BETA(3) = .030

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2075 -.2544 -.2529 -.2536 -.2498 -.2467 -.2431 -.2457 -.2518 -.2633 -.2675 -.2725 -.2310 -.2283 -.2858

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2744 -.2241 -.2317 -.2693 -.2941 -.2757 -.3398 -.2489

ALPHA(2) = -4.044 BETA(4) = 4.123

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2340 -.2656 -.2496 -.2520 -.2559 -.2539 -.2444 -.2452 -.2448 -.2694 -.2763 -.2735 -.2605 -.2662 -.2716

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2678 -.2317 -.2697 -.2682 -.2582 -.2520 -.2913 -.1970

DATE 21 OCT 75

IABIA - PRESSURE SOURCE DATA TABULATION

PAGE 3191

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC17)

ALPHA(2) = -4.041 BETA(5) = 6.175

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.2393	-.2623	-.2545	-.2510	-.2607	-.2549	-.2549	-.2450	-.2363	-.2664	-.2774	-.2539	-.2567	-.2864

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.2687	-.2319	-.2799	-.2857	-.2440	-.2393	-.2635

ALPHA(3) = -2.003 BETA(1) = -6.127

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.2073	-.2514	-.2210	-.2155	-.2471	-.2471	-.2247	-.2304	-.2739	-.2289	-.2496	-.2518	-.2327	-.2250

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.2511	-.2311	-.2189	-.2853	-.3481	-.3117	-.3695

ALPHA(3) = -1.993 BETA(2) = -2.044

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.1927	-.2395	-.2221	-.1973	-.2364	-.2403	-.2095	-.2201	-.2559	-.2319	-.2468	-.2393	-.2159	-.2148

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
	.000	-.2512	-.2140	-.2099	-.2632	-.3338	-.2961	-.3473

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC17)

ALPHA0(3) = -1.979 BETA0 (3) = 2.069

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2218	-.2479	-.2456	-.2507	-.2437	-.2429	-.2358	-.2373	-.2500	-.2481	-.2745	-.2557	-.2461	-.2725	-.2698
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							

.000	-.2618	-.2220	-.2572	-.2667	-.2557	-.2599	-.3026	-.1987							
------	--------	--------	--------	--------	--------	--------	--------	--------	--	--	--	--	--	--	--

ALPHA0(3) = -1.967 BETA0 (4) = 6.153

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2326	-.2576	-.2502	-.2439	-.2525	-.2521	-.2470	-.2401	-.2374	-.2600	-.2703	-.2629	-.2621	-.2798	-.2662
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							

.000	-.2644	-.2288	-.2733	-.2746	-.2478	-.2509	-.2762	-.1814							
------	--------	--------	--------	--------	--------	--------	--------	--------	--	--	--	--	--	--	--

ALPHA0(4) = .077 BETA0 (1) = -6.130

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2178	-.2551	-.2252	-.2213	-.2485	-.2477	-.2271	-.2279	-.2695	-.2294	-.2638	-.2504	-.2378	-.2237	-.2668
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							

.000	-.2500	-.2172	-.2088	-.2439	-.3297	-.3066	-.3551	-.2586							
------	--------	--------	--------	--------	--------	--------	--------	--------	--	--	--	--	--	--	--

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3193

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC17)

ALPHA0(4) = .082 BETA0 (2) = -4.088

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2048 -.2485 -.2168 -.2075 -.2466 -.2477 -.2180 -.2169 -.2637 -.2192 -.2515 -.2434 -.2252 -.2248 -.2605

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2545 -.2195 -.2085 -.2713 -.3306 -.3056 -.3449 -.2535

ALPHA0(4) = .083 BETA0 (3) = .004

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2064 -.2437 -.2204 -.2313 -.2321 -.2285 -.2173 -.2123 -.2486 -.2341 -.2517 -.2211 -.1879 -.1936 -.2408

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2257 -.1845 -.1834 -.2580 -.2945 -.2918 -.3045 -.2217

ALPHA0(4) = .096 BETA0 (4) = 4.096

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2147 -.2520 -.2236 -.2275 -.2380 -.2419 -.2259 -.2259 -.2133 -.2263 -.2600 -.2508 -.2348 -.2478 -.2520

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2478 -.2089 -.2436 -.2862 -.2506 -.2556 -.2836 -.1820

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. CRIFICES

(PETC17)

ALPHA(4) = .101 BETA(5) = 6.143

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2194 -.2489 -.2303 -.2276 -.2342 -.2419 -.2334 -.2323 -.2162 -.2308 -.2664 -.2486 -.2333 -.2451 -.2547

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2520 -.2035 -.2531 -.2948 -.2532 -.2632 -.2774 -.1790

ALPHA(5) = 2.172 BETA(1) = -6.124

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2062 -.2498 -.2187 -.2191 -.2478 -.2459 -.2193 -.2204 -.2506 -.2128 -.2544 -.2536 -.2287 -.2112 -.2658

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2494 -.2108 -.2081 -.2751 -.3191 -.2968 -.3338 -.2416

ALPHA(5) = 2.177 BETA(2) = -2.050

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.1947 -.2346 -.2032 -.2098 -.2222 -.2249 -.1996 -.2037 -.2406 -.2129 -.2391 -.2313 -.2233 -.2191 -.2404

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2363 -.2142 -.2096 -.2733 -.3060 -.2883 -.3153 -.2287

DATE 21 OCT 75

IASIA - PRESSURE SOURCE DATA TABULATION

PAGE 3195

ARC11-019 IAS1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC17)

ALPHA0(5) = 2.180 BETA0 (3) = 2.054

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2121 -.2467 -.2152 -.2257 -.2378 -.2390 -.2182 -.2068 -.2128 -.2102 -.2531 -.2499 -.2377 -.2404 -.2564

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2457 -.2140 -.2343 -.2672 -.2638 -.2695 -.2829 -.1753

ALPHA0(5) = 2.179 BETA0 (4) = 6.141

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2089 -.2484 -.2156 -.2238 -.2347 -.2363 -.2238 -.2227 -.2173 -.219E -.2612 -.2495 -.2233 -.2475 -.2591

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2506 -.1937 -.2425 -.2911 -.2536 -.2632 -.2847 -.1878

ALPHA0(6) = 4.252 BETA0 (1) = -6.110

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2064 -.2505 -.2149 -.2207 -.2451 -.2401 -.2188 -.2203 -.2432 -.2115 -.2646 -.2512 -.2230 -.2097 -.2676

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2459 -.2032 -.2036 -.2806 -.3284 -.2869 -.3303 -.2424

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC17)

ALPHA0(6) = 4.257 BETA0 (2) = -4.071

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.1986	-.2349	-.2036	-.2082	-.2306	-.2249	-.2038	-.2049	-.2228	-.2027	-.2508	-.2343	-.2116	-.2093	-.2555

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	
	.000	-.2343	-.2085	-.1922	-.2709	-.3124	-.2885	-.3243	-.2172

ALPHA0(6) = 4.252 BETA0 (3) = .005

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2027	-.2385	-.2155	-.2171	-.2206	-.2217	-.2098	-.2083	-.2228	-.2110	-.2540	-.2426	-.2075	-.2036	-.2480

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	
	.000	-.2361	-.1987	-.1968	-.2575	-.2845	-.2791	-.3005	-.2053

ALPHA0(6) = 4.251 BETA0 (4) = 4.101

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2040	-.2349	-.2107	-.2138	-.2283	-.2310	-.2148	-.2136	-.2275	-.2213	-.2498	-.2392	-.2231	-.2311	-.2446

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	
	.000	-.2400	-.1931	-.2334	-.2703	-.2621	-.2686	-.2985	-.1924

DATE 21 OCT 75

IABIA - PRESSURE SOL. DATA TABULATION

PAGE 3197

ARC11-019 1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC17)

ALPHA(6) = 4.247 BETA(5) = 6.153

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2127 -.2555 -.2208 -.2162 -.2380 -.2368 -.2159 -.2105 -.2070 -.2070 -.2604 -.2506 -.2280 -.2395 -.2586

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2471 -.1967 -.2299 -.2812 -.2595 -.2741 -.2975 -.2104

ALPHA(7) = 6.350 BETA(1) = -4.053

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2056 -.2409 -.2063 -.2164 -.2347 -.2308 -.2077 -.2111 -.2340 -.2012 -.2572 -.2365 -.2231 -.2102 -.2601

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2361 -.2106 -.2010 -.2691 -.3218 -.2930 -.3210 -.2273

ALPHA(7) = 6.348 BETA(2) = -2.025

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2015 -.2344 -.2081 -.2150 -.2286 -.2282 -.2115 -.2047 -.2207 -.1956 -.2545 -.2345 -.2178 -.2163 -.2505

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2365 -.2075 -.2026 -.2610 -.3103 -.2965 -.3153 -.2177

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC17)

ALPHA(7) = 6.344 BETA(3) = .018

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	205.0000
	.000	-.2047	-.2292	-.2055	-.2090	-.2238	-.2238	-.2164	-.2050	-.2259	-.2004	-.2511	-.2273	-.2018	-.2041	-.2368

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2224 -.1968 -.1946 -.2566 -.3007 -.2926 -.3150 -.2113

ALPHA(7) = 6.340 BETA(4) = 2.076

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	205.0000
	.000	-.2013	-.2281	-.2184	-.2204	-.2250	-.2309	-.2177	-.2139	-.2242	-.2135	-.2464	-.2321	-.2298	-.2267	-.2397

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2401 -.2000 -.2191 -.2558 -.2746 -.2819 -.3053 -.2096

ALPHA(7) = 6.335 BETA(5) = 4.123

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	205.0000
	.000	-.2005	-.2300	-.2094	-.2129	-.2253	-.2284	-.2153	-.2153	-.2252	-.2218	-.2543	-.2357	-.2185	-.2273	-.2429

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2391 -.1930 -.2250 -.2801 -.2617 -.2778 -.2994 -.2082

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3199

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(PRTC18) (02 OCT 74)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
 BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0300 SCALE

MACH = 1.100 RN/FT = 2.250
 ELV-18 = 10.000 ELV-DB = 4.000
 RUDDER = .000 SPDBRK = .000

ALPHA(1) = -6.223 BETA(1) = .032

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.3004 -.3386 -.2873 -.2859 -.3262 -.3303 -.3070 -.2978 -.4176 -.3371 -.3242 -.3420 -.2886 -.2805 -.3671

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3309 -.3035 -.2775 -.3150 -.3795 -.3679 -.3982 -.3431

ALPHA(2) = -4.129 BETA(1) = -4.089

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2776 -.3295 -.2752 -.2900 -.3226 -.3223 -.2857 -.2908 -.3773 -.2918 -.3438 -.3384 -.2675 -.2607 -.3535

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3313 -.2759 -.2543 -.3237 -.3802 -.3676 -.4061 -.3341

ALPHA(2) = -4.111 BETA(2) = .021

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2912 -.3252 -.2750 -.2767 -.3032 -.3132 -.2977 -.2869 -.4072 -.3244 -.3248 -.3294 -.2730 -.2608 -.3378

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3233 -.2861 -.2564 -.2999 -.3691 -.3531 -.3806 -.3211

REPRODUCTION OF THIS PAGE IS AT YOUR OWN RISK

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC18)

ALPHA(2) = -4.085 BETA(3) = 4.129

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000
 .000 -.2834 -.3130 -.2862 -.2755 -.2996 -.2989 -.2995 -.2859 -.3843 -.3214 -.3248 -.3223 -.2646 -.2659 -.3443

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000
 .000 -.3142 -.2619 -.2639 -.3166 -.3424 -.3301 -.3633 -.2953

ALPHA(3) = .045 BETA(1) = -6.157

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000
 .000 -.2740 -.3234 -.2689 -.2915 -.3073 -.3032 -.2937 -.2877 -.3686 -.2907 -.3440 -.3310 -.2562 -.2386 -.3448

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000
 .000 -.3198 -.2541 -.2403 -.3126 -.3636 -.3483 -.3895 -.2929

ALPHA(3) = .049 BETA(2) = -4.107

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000
 .000 -.2828 -.3299 -.2663 -.2869 -.3162 -.3189 -.2883 -.2862 -.3501 -.3096 -.3444 -.3414 -.2534 -.2379 -.3519

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000
 .000 -.3323 -.2598 -.2402 -.3066 -.3612 -.3551 -.3913 -.2990

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3201

ARC11-019 IAB1 LVAP1ELHL SEALED) MISC. ORIFICES

(RETC18)

ALPHA(3) = .052 BETA(3) = -.012

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000
.000 -.2773 -.3038 -.2614 -.2728 -.3003 -.2990 -.2901 -.2813 -.3764 -.3185 -.3148 -.3044 -.2482 -.2428 -.3473

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000
.000 -.3088 -.2492 -.2482 -.2869 -.3311 -.3283 -.3574 -.2791

ALPHA(3) = .069 BETA(4) = 4.104

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000
.000 -.2967 -.3285 -.3023 -.2878 -.3112 -.3130 -.3133 -.2950 -.3642 -.3262 -.3374 -.3408 -.2496 -.2506 -.3554

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000
.000 -.3303 -.2479 -.2540 -.2910 -.3217 -.3210 -.3337 -.2448

ALPHA(3) = .076 BETA(5) = 6.162

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000
.000 -.2961 -.3299 -.3044 -.2892 -.2958 -.2971 -.3118 -.2986 -.3555 -.3227 -.3339 -.3361 -.2484 -.2582 -.3534

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000
.000 -.3269 -.2433 -.2511 -.3057 -.3042 -.3011 -.3089 -.2193

ARC11-019 IA81 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC18)

ALPHA0(4) = 4.250 BETA0 (1) = -4.085

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2769	-.3206	-.2597	-.2807	-.3020	-.3031	-.2984	-.2783	-.3067	-.3155	-.3452	-.3269	-.2451	-.2245	-.3492

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
.000	-.3245	-.2403	-.2214	-.2792	-.3653	-.3516	-.3793	-.3044

ALPHA0(4) = 4.253 BETA0 (2) = .000

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2718	-.3045	-.2518	-.2625	-.2855	-.2873	-.2827	-.2681	-.3145	-.3084	-.3274	-.3164	-.2276	-.2117	-.3401

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
.000	-.3097	-.2388	-.2171	-.2619	-.3444	-.3291	-.3629	-.2829

ALPHA0(4) = 4.255 BETA0 (3) = 4.115

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2893	-.3262	-.2938	-.2893	-.3010	-.3024	-.3067	-.2928	-.3189	-.3196	-.3521	-.3398	-.2170	-.2316	-.3544

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000
.000	-.3344	-.2238	-.2343	-.2743	-.3282	-.3193	-.3449	-.2476

DATE 21 OCT 75

1A81A - PRESSURE SOURCE DATA TABULATION

PAGE 3203

ARC11-019 1A81 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC18)

ALPHA(5) = 6.356 BETA(1) = .011

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	0196.0000	0197.0000	0198.0000	0199.0000	0200.0000	0201.0000	0202.0000	0203.0000	0204.0000
.000	-.2765	-.3134	-.2648	-.2748	-.2893	-.2896	-.2880	-.2758	-.3090	-.3130	-.3360	-.3225	-.2272	-.2154	-.3397
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.3120	-.2248	-.2184	-.2517	-.3447	-.3409	-.3624	-.2907							

REPRODUCTION OF DOCUMENT IS PROHIBITED

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC19) (02 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 370.0000 IN. XT
 LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
 BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.250 RN/FT = 2.250
 ELV-1B = 10.000 ELV-0B = 4.000
 RUDDER = .000 SPOBRK = .000

ALPHA0(1) = -4.169 BETA0 (1) = -4.066

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000
 .000 -.2569 -.2796 -.2673 -.2540 -.2731 -.2705 -.2742 -.2636 -.3016 -.2155 -.2812 -.2741 -.1969 -.2032 -.3129
 TAP NO 205.0000 206.0000 207.0000 207.0000 207.0000 207.0000 207.0000 207.0000 207.0000 207.0000 207.0000 207.0000 207.0000 207.0000 207.0000
 .000 -.2910 -.1927 -.2073 -.2665 -.2905 -.2831 -.3258 -.2525

ALPHA0(1) = -4.149 BETA0 (2) = .018

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000
 .000 -.2521 -.2871 -.2511 -.2498 -.2751 -.2738 -.2682 -.2525 -.3182 -.2519 -.2659 -.2834 -.2314 -.2225 -.3041
 TAP NO 205.0000 206.0000 207.0000 207.0000 207.0000 207.0000 207.0000 207.0000 207.0000 207.0000 207.0000 207.0000 207.0000 207.0000 207.0000
 .000 -.2862 -.2254 -.2203 -.2536 -.2990 -.2843 -.3093 -.2528

ALPHA0(1) = -4.104 BETA0 (3) = 4.148

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000
 .000 -.2373 -.2676 -.2422 -.2353 -.2597 -.2577 -.2481 -.2388 -.3275 -.2545 -.2640 -.2640 -.2156 -.2217 -.2920
 TAP NO 205.0000 206.0000 207.0000 207.0000 207.0000 207.0000 207.0000 207.0000 207.0000 207.0000 207.0000 207.0000 207.0000 207.0000 207.0000
 .000 -.2614 -.2118 -.2191 -.2705 -.2882 -.2773 -.2982 -.2425

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3205

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC19)

ALPHA0(2) = .052 BETA0 (1) = -4.119

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2500	-.2785	-.2652	-.2535	-.2645	-.2652	-.2714	-.2599	-.3223	-.2367	-.2730	-.2721	-.1881	-.1935	-.3068
TAP NO	205.0000	206.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	

	.000	-.2858	-.1910	-.1932	-.2473	-.2848	-.2871	-.3202	-.2372
--	------	--------	--------	--------	--------	--------	--------	--------	--------

ALPHA0(2) = .055 BETA0 (2) = -.007

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2369	-.2641	-.2352	-.2269	-.2531	-.2512	-.2481	-.2363	-.3251	-.2557	-.2401	-.2525	-.2073	-.1880	-.2922
TAP NO	205.0000	206.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	

	.000	-.2668	-.2029	-.2045	-.2457	-.2578	-.2552	-.2764	-.2006
--	------	--------	--------	--------	--------	--------	--------	--------	--------

ALPHA0(2) = .067 BETA0 (3) = 4.107

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2408	-.2703	-.2473	-.2284	-.2541	-.2551	-.2530	-.2389	-.3350	-.2575	-.2584	-.2682	-.1567	-.2034	-.2957
TAP NO	205.0000	206.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	207.0000	

	.000	-.2670	-.2012	-.2108	-.2511	-.2623	-.2591	-.2768	-.1964
--	------	--------	--------	--------	--------	--------	--------	--------	--------

ARC11-019 1A81 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC19)

ALPHA(3) = 4.242 BETA(1) = -4.090

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2419	-.2753	-.2334	-.2221	-.2601	-.2620	-.2540	-.2371	-.3248	-.2568	-.2572	-.2756	-.1968	-.1790	-.3100

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	
	.000	-.2768	-.1988	-.1787	-.2321	-.2983	-.2870	-.3141	-.2445

ALPHA(3) = 4.243 BETA(2) = .004

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2358	-.2602	-.2316	-.2313	-.2433	-.2459	-.2476	-.2316	-.3248	-.2670	-.2440	-.2535	-.1786	-.1767	-.2927

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	
	.000	-.2649	-.1818	-.1850	-.2228	-.2837	-.2835	-.2934	-.2210

ALPHA(3) = 4.242 BETA(3) = 4.125

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2446	-.2699	-.2437	-.2362	-.2544	-.2521	-.2536	-.2405	-.3142	-.2686	-.2651	-.2674	-.1759	-.1947	-.3046

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	
	.000	-.2744	-.1842	-.2001	-.2352	-.2724	-.2666	-.2879	-.2081

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3207

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC20) (02 OCT 74)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
 BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0300 SCALE

MACH = 1.400 RN/FT = 2.250
 ELV-1B = .000 ELV-0B = .000
 RUDDER = .000 SPOBRK = .000

ALPHA0 (1) = .017 BETA0 (1) = -6.173

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2474 -.2837 -.2824 -.2774 -.2881 -.2910 -.2740 -.2653 -.2538 -.2060 -.2861 -.2820 -.1851 -.1826 -.3034

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2913 -.1786 -.1733 -.2641 -.2923 -.3089 -.3199 -.2500

ALPHA0 (1) = .018 BETA0 (2) = -4.117

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2495 -.2738 -.2723 -.2732 -.2868 -.2880 -.2655 -.2599 -.2543 -.2124 -.2882 -.2709 -.1825 -.1835 -.3050

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2852 -.1779 -.1760 -.2502 -.2817 -.2968 -.3099 -.2378

ALPHA0 (1) = .024 BETA0 (3) = -2.072

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2481 -.2674 -.2513 -.2617 -.2750 -.2763 -.2517 -.2464 -.2598 -.2151 -.2697 -.2598 -.1889 -.1777 -.2917

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2704 -.1846 -.1861 -.2494 -.2627 -.2818 -.2994 -.2163

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC20)

ALPHA(1) = .023 BETA(4) = -.006

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2277 -.2485 -.2340 -.2438 -.2517 -.2520 -.2351 -.2327 -.2597 -.2299 -.2532 -.2503 -.2038 -.1883 -.2720

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2562 -.1976 -.2007 -.2512 -.2599 -.2737 -.2876 -.2021

ALPHA(1) = .030 BETA(5) = 2.059

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2255 -.2520 -.2318 -.2331 -.2467 -.2473 -.2146 -.2202 -.2607 -.2313 -.2452 -.2497 -.2021 -.1944 -.2605

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2500 -.1968 -.2005 -.2595 -.2564 -.2655 -.2664 -.1844

ALPHA(1) = .032 BETA(6) = 4.116

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2333 -.2702 -.2661 -.2269 -.2611 -.2639 -.2213 -.2250 -.2753 -.2421 -.2607 -.2683 -.1989 -.2023 -.2776

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2720 -.2001 -.1989 -.2533 -.2549 -.2580 -.2637 -.1878

DATE 21 OCT 75

1A81A - PRESSURE SOURCE DATA TABULATION

PAGE 3209

ARC11-019 1A81 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC20)

ALPHA(1) = .044 BETA(7) = 6.175

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2327	-.2728	-.2743	-.2198	-.2560	-.2567	-.2306	-.2278	-.2870	-.2526	-.2576	-.2748	-.1946	-.1999	-.2804
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.2754	-.1937	-.1989	-.2558	-.2358	-.2352	-.2408	-.1745							

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RE1021) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
 BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.250 RN/FT = 2.250
 ELV-1B = .000 ELV-0B = .000
 RUDDER = .000 SPDBRK = .000

ALPHA(1) = .038 BETA(1) = -6.160

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.2273	-.2819	-.2664	-.2780	-.2709	-.2693	-.2383	-.2592	-.2643	-.2094	-.2900	-.2847	-.2200	-.2010
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
	.000	-.2876	-.1874	-.1960	-.2839	-.2982	-.2976	-.3330	-.2381						

ALPHA(1) = .045 BETA(2) = -4.114

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.2424	-.2725	-.2674	-.2719	-.2696	-.2696	-.2637	-.2592	-.2732	-.2309	-.2841	-.2806	-.1966	-.1928
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
	.000	-.2920	-.1916	-.1937	-.2664	-.2766	-.2859	-.3311	-.2377						

ALPHA(1) = .047 BETA(3) = -2.070

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.2442	-.2686	-.2612	-.2641	-.2648	-.2648	-.2572	-.2487	-.2804	-.2471	-.2801	-.2750	-.2068	-.2074
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
	.000	-.2829	-.1976	-.2042	-.2603	-.2656	-.2781	-.3153	-.2137						

DATE 21 OCT 75

IABIA - PRESSURE SOURCE DATA TABULATION

PAGE 3211

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC21)

ALPHA(1) = .054 BETA(4) = -.008

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2300	-.2500	-.2355	-.2465	-.2530	-.2533	-.2421	-.2377	-.2744	-.2560	-.2671	-.2582	-.2107	-.1961	-.2797
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.2655	-.2037	-.2025	-.2646	-.2628	-.2650	-.2872	-.1999							

ALPHA(1) = .082 BETA(5) = 2.056

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2242	-.2558	-.2274	-.2319	-.2539	-.2520	-.2246	-.2268	-.2576	-.2585	-.2636	-.2619	-.2099	-.2061	-.2784
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.2578	-.2061	-.2064	-.2647	-.2734	-.2821	-.2878	-.2047							

ALPHA(1) = .087 BETA(6) = 4.111

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2385	-.2764	-.2637	-.2375	-.2663	-.2683	-.2270	-.2317	-.2899	-.2606	-.2730	-.2801	-.2052	-.2093	-.2938
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000								
	.000	-.2823	-.2064	-.2080	-.2617	-.2731	-.2731	-.2807	-.2022							

ORIGINAL PAGE IS
SI EDVA 07A0580

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC21)

ALPHA(1) = .091 BETA(7) = 6.170

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000	
	.000	-.2470	-.2841	-.2812	-.2450	-.2628	-.2596	-.2424	-.2399	-.2799	-.2646	-.2853	-.2890	-.2071	-.2195	-.3074
TAP NO	205.0000	206.0000	207.0000	2787.0000	333.0000	9934.0000	935.0000	936.0000								
	.000	-.2902	-.2062	-.2125	-.2753	-.2737	-.2682	-.2766	-.2016							

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3213

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC22) (03 OCT 74)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
 BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0300 SCALE

MACH = 1.100 RN/FT = 2.250
 ELV-1B = .000 ELV-0B = .000
 RUDDER = .000 SPOBRK = .000

ALPHA0 (1) = .039 BETA0 (1) = -6.151

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2444 -.3156 -.3004 -.2678 -.3008 -.2991 -.2651 -.2857 -.2543 -.2282 -.3169 -.3156 -.2751 -.2541 -.3267

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3085 -.2710 -.2460 -.3285 -.3649 -.3489 -.4021 -.3033

ALPHA0 (1) = .042 BETA0 (2) = -4.101

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2571 -.3106 -.2842 -.2698 -.3017 -.3027 -.2597 -.2783 -.3130 -.2375 -.3133 -.3110 -.2656 -.2508 -.3228

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3097 -.2720 -.2390 -.3261 -.3545 -.3413 -.3961 -.2963

ALPHA0 (1) = .047 BETA0 (3) = -2.062

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2640 -.3154 -.2750 -.2756 -.2990 -.3007 -.2605 -.2746 -.3006 -.2770 -.3218 -.3084 -.2636 -.2525 -.3212

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3087 -.2724 -.2394 -.3201 -.3342 -.3328 -.3723 -.2776

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC22)

ALPHA(1) = .053 BETA(4) = -.007

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2776	-.3178	-.2683	-.2903	-.3037	-.2978	-.2636	-.2683	-.3129	-.2920	-.3122	-.3148	-.2698	-.2531	-.3299
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.3158	-.2722	-.2516	-.3050	-.3168	-.3260	-.3529	-.2634							

ALPHA(1) = .079 BETA(5) = 2.058

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2643	-.3000	-.2773	-.2794	-.2972	-.3007	-.2710	-.2781	-.2936	-.3105	-.3206	-.3165	-.2488	-.2454	-.3306
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.3084	-.2400	-.2451	-.2948	-.3268	-.3220	-.3411	-.2561							

ALPHA(1) = .083 BETA(6) = 4.107

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2772	-.3159	-.3015	-.2810	-.3005	-.3008	-.2789	-.2769	-.3231	-.3143	-.3258	-.3220	-.2553	-.2549	-.3476
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.3307	-.2492	-.2431	-.3053	-.3218	-.3191	-.3280	-.2465							

DATE 21 OCT 75

IABIA - PRESSURE SOURCE DATA TABULATION

PAGE 3215

ARC11-019 IAS1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC22)

ALPHA(1) = .090 BETA(7) = 6.163

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2836 -.3207 -.3125 -.2802 -.2922 -.2929 -.2886 -.2872 -.3082 -.3075 -.3214 -.3298 -.2806 -.2877 -.3467

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3265 -.2549 -.2586 -.3167 -.3121 -.3073 -.3148 -.2429

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC23) (02 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
 BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0300 SCALE

MACH = 1.400 RN/FT = 2.250
 ELV-18 = .000 ELV-08 = .000
 RUDDER = .000 SPDBRK = .000

PARAMETRIC DATA

BETA0 (1) = .033 ALPHA0(1) = -6.272

SECTION (1) MISC. ORIFICES	DEPENDENT VARIABLE CP																
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000		
	.000	-.2240	-.2477	-.2621	-.2429	-.2643	-.2659	-.2245	-.2464	-.1939	-.2032	-.2613	-.2540	-.2250	-.2176	-.2723	
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000									
	.000	-.2692	-.2299	-.2154	-.2133	-.3045	-.3101	-.3202	-.2971								

BETA0 (1) = .011 ALPHA0(2) = -4.160

SECTION (1) MISC. ORIFICES	DEPENDENT VARIABLE CP																
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000		
	.000	-.2234	-.2616	-.2572	-.2584	-.2647	-.2657	-.2437	-.2518	-.2255	-.2180	-.2654	-.2687	-.2089	-.2015	-.2873	
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000									
	.000	-.2740	-.2006	-.2077	-.2561	-.2816	-.2891	-.3007	-.2290								

BETA0 (1) = -.007 ALPHA0(3) = -2.069

SECTION (1) MISC. ORIFICES	DEPENDENT VARIABLE CP																
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000		
	.000	-.2278	-.2584	-.2495	-.2606	-.2650	-.2656	-.2468	-.2424	-.2520	-.2236	-.2688	-.2956	-.2015	-.1935	-.2835	
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000									
	.000	-.2684	-.1956	-.2009	-.2513	-.2763	-.2921	-.3049	-.2139								

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3217

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC23)

BETA0 (1) = -.022 ALPHA0(4) = .024

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2262 -.2477 -.2325 -.2407 -.2530 -.2524 -.2363 -.2314 -.2596 -.2298 -.2543 -.2496 -.2031 -.1883 -.2725

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2576 -.2013 -.2006 -.2533 -.2575 -.2719 -.2450 -.1983

BETA0 (1) = -.018 ALPHA0(5) = 2.134

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2274 -.2472 -.2255 -.2384 -.2500 -.2494 -.2353 -.2310 -.2691 -.2291 -.2428 -.2467 -.1968 -.1838 -.2755

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2588 -.1953 -.1956 -.2482 -.2634 -.2609 -.2756 -.1985

BETA0 (1) = -.008 ALPHA0(6) = 4.218

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2317 -.2550 -.2323 -.2449 -.2519 -.2528 -.2400 -.2335 -.2784 -.2474 -.2642 -.2568 -.1789 -.1767 -.2773

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2587 -.1733 -.1826 -.2226 -.2790 -.2680 -.2874 -.2271

ARC11-019 1A81 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC23)

BETA0 (1) = -.002 ALPHA0(7) = 5.273

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2338 -.2609 -.2363 -.2439 -.2571 -.2580 -.2416 -.2373 -.2824 -.2595 -.2716 -.2650 -.1818 -.1738 -.2829

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2690 -.1766 -.1778 -.2154 -.2891 -.2703 -.2969 -.2371

C. 8

DATE 21 OCT 75

IABIA - PRESSURE SOURCE DATA TABULATION

PAGE 3219

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC24) (03 OCT 74)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
 BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0300 SCALE

MACH = 1.250 RN/FT = 2.250
 ELV-1B = .000 ELV-0B = .000
 RUDDER = .000 SPDBRK = .000

BETA0 (1) = .028 ALPHA0(1) = -6.248

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2211 -.2582 -.2634 -.2376 -.2705 -.2683 -.2307 -.2472 -.2498 -.2193 -.2564 -.2562 -.2435 -.2371 -.2803

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2676 -.2527 -.2299 -.2888 -.3199 -.3084 -.3344 -.2788

BETA0 (1) = .001 ALPHA0(2) = -4.131

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2323 -.2631 -.2556 -.2343 -.2709 -.2683 -.2264 -.2372 -.2617 -.2353 -.2636 -.2599 -.2424 -.2300 -.2847

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2736 -.2434 -.2199 -.2694 -.2984 -.2888 -.3119 -.2474

BETA0 (1) = -.012 ALPHA0(3) = -2.038

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2297 -.2653 -.2511 -.2524 -.2618 -.2630 -.2449 -.2500 -.2760 -.2551 -.2751 -.2757 -.2223 -.2093 -.2878

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2792 -.2150 -.2147 -.2634 -.2765 -.2787 -.2970 -.2124

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC24)

BETA0 (1) = -.024 ALPHA0(4) = .059

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2311	-.2564	-.2379	-.2515	-.2625	-.2593	-.2387	-.2371	-.2746	-.2545	-.2698	-.2632	-.2162	-.2000	-.2871

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000	-.2721	-.2111	-.2064	-.2615	-.2610	-.2642	-.2835	-.1924
------	--------	--------	--------	--------	--------	--------	--------	--------

BETA0 (1) = -.019 ALPHA0(5) = 2.162

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2319	-.2546	-.2371	-.2495	-.2576	-.2579	-.2402	-.2357	-.2787	-.2605	-.2666	-.2563	-.2095	-.2012	-.2875

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000	-.2709	-.2031	-.2041	-.2542	-.2581	-.2587	-.2773	-.1975
------	--------	--------	--------	--------	--------	--------	--------	--------

BETA0 (1) = -.013 ALPHA0(6) = 4.248

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2242	-.2617	-.2245	-.2442	-.2517	-.2497	-.2441	-.2349	-.2769	-.2680	-.2823	-.2646	-.1770	-.1792	-.2817

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000	-.2665	-.1789	-.1881	-.2367	-.2850	-.2718	-.2978	-.2239
------	--------	--------	--------	--------	--------	--------	--------	--------

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3221

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC24)

BETA0 (1) = .001 ALPHAO(7) = 6.352

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
.000	-.2306	-.2698	-.2335	-.2406	-.2497	-.2487	-.2346	-.2401	-.2748	-.2713	-.2792	-.2729	-.1860	-.1730	-.2847
TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000							
.000	-.2716	-.1908	-.1812	-.2255	-.2858	-.2887	-.3022	-.2257							

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 1A81 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC25) (03 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 INCHES YMRP = .0000 IN. YT
 BREF = 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.100 RN/FT = 2.250
 ELV-1B = .000 ELV-OB = .000
 RUDDER = .000 SPDBRK = .000

BETA0 (1) = .018 ALPHA0(1) = -6.220

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000
 .000 -.2722 -.3210 -.2987 -.2788 -.3145 -.3162 -.2763 -.2864 -.3506 -.3010 -.3199 -.3177 -.2947 -.2839 -.3335
 TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000
 .000 -.3200 -.2974 -.2751 -.3287 -.3707 -.3673 -.3888 -.3295

BETA0 (1) = .000 ALPHA0(2) = -4.109

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000
 .000 -.2659 -.3075 -.2821 -.2622 -.3034 -.3030 -.2643 -.2700 -.3405 -.2825 -.3017 -.2992 -.2773 -.2648 -.3133
 TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000
 .000 -.3022 -.2847 -.2615 -.3185 -.3685 -.3647 -.3818 -.3141

BETA0 (1) = -.015 ALPHA0(3) = -2.020

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000
 .000 -.2633 -.3027 -.2688 -.2654 -.2942 -.2983 -.2604 -.2654 -.3130 -.2803 -.3137 -.2961 -.2739 -.2607 -.3170
 TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000
 .000 -.3039 -.2803 -.2519 -.3121 -.3470 -.3395 -.3654 -.2853

DATE 21 OCT 75

IA81A - PRESSURE SOURCE DATA TABULATION

PAGE 3223

ARC11-019 IA81 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC25)

BETA0 (1) = -.024 ALPHA0(4) = .066

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2656 -.3084 -.2763 -.2794 -.2967 -.2970 -.2656 -.2649 -.3123 -.2971 -.3184 -.3038 -.2723 -.2642 -.3227

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3004 -.2699 -.2595 -.3093 -.3282 -.3330 -.3590 -.2643

BETA0 (1) = -.019 ALPHA0(5) = 2.167

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2719 -.3110 -.2668 -.2806 -.2992 -.2985 -.2647 -.2671 -.2891 -.3044 -.3162 -.3054 -.2623 -.2484 -.3291

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3043 -.2576 -.2454 -.2899 -.3320 -.3227 -.3511 -.2586

BETA0 (1) = -.015 ALPHA0(6) = 4.256

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2573 -.3081 -.2624 -.2724 -.2861 -.2892 -.2585 -.2646 -.2750 -.2919 -.3169 -.3105 -.2421 -.2272 -.3240

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.3051 -.2438 -.2205 -.2798 -.3438 -.3335 -.3622 -.2779

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC25)

BETA0 (1) = .000 ALPHA0(7) = 6.355

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2607 -.3123 -.2689 -.2700 -.2951 -.2975 -.2819 -.2683 -.2720 -.3025 -.3296 -.3090 -.2403 -.2240 -.3391

TAP NO 205.0000 206.0000 207.0000 208.0000 209.0000 210.0000 211.0000 212.0000 213.0000 214.0000

.000 -.3246 -.2372 -.2230 -.2667 -.3462 -.3567 -.3649 -.2756

DATE 21 OCT 75

IABIA - PRESSURE SOURCE DATA TABULATION

PAGE 3225

ARC11-019 IABI LVAP(ELHL SEALED) MISC. ORIFICES

(RETC26) (02 OCT 74)

REFERENCE DATA

SREF * 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF * 1297.0000 INCHES YMRP = .0000 IN. YT
 BREF * 1297.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE * .0300 SCALE

PARAMETRIC DATA

MACH * .900 RN/F7 * 2.250
 ELV-1B * .000 ELV-0B * .000
 RUDDER * .000 SFDBRK * .000

ALPHA0 (1) = -6.182 BETA0 (1) = -4.055

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2139 -.2601 -.2465 -.2290 -.2562 -.2621 -.2354 -.2450 -.2748 -.2427 -.2549 -.2655 -.2662 -.2563 -.2620

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2655 -.2674 -.2464 -.3151 -.3438 -.3157 -.3705 -.2894

ALPHA0 (1) = -6.173 BETA0 (2) = -2.019

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2091 -.2517 -.2405 -.2195 -.2471 -.2551 -.2331 -.2361 -.2666 -.2535 -.2519 -.2548 -.2548 -.2593 -.2612

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2638 -.2555 -.2469 -.2984 -.3442 -.3053 -.3572 -.2900

ALPHA0 (1) = -6.160 BETA0 (3) = .037

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2257 -.2577 -.2511 -.2573 -.2464 -.2479 -.2462 -.2500 -.2810 -.2711 -.2608 -.2547 -.2551 -.2551 -.2693

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2677 -.2479 -.2540 -.2808 -.3061 -.3050 -.3370 -.2591

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC26)

ALPHA(1) = -6.132 BETA(4) = 2.107

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2321 -.2634 -.2576 -.2526 -.2541 -.2487 -.2454 -.2481 -.2945 -.2796 -.2732 -.2709 -.2876 -.2910 -.2709

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2743 -.2652 -.2883 -.2838 -.2950 -.2969 -.3272 -.2286

ALPHA(1) = -6.123 BETA(5) = 4.151

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2442 -.2667 -.2570 -.2612 -.2643 -.2624 -.2523 -.2527 -.2884 -.2797 -.2721 -.2693 -.2815 -.2979 -.2758

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2750 -.2624 -.2845 -.2898 -.2766 -.2627 -.3000 -.2085

ALPHA(2) = -4.098 BETA(1) = -6.117

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2187 -.2634 -.2580 -.2407 -.2692 -.2673 -.2433 -.2483 -.2805 -.2323 -.2566 -.2642 -.2714 -.2664 -.2697

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2717 -.2691 -.2505 -.3152 -.3406 -.3161 -.3761 -.2855

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3227

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC26)

ALPHA(2) = -4.086 BETA(2) = -4.069

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.2106	-.2482	-.2280	-.2160	-.2451	-.2420	-.2285	-.2358	-.2719	-.2350	-.2477	-.2557	-.2473	-.2496

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	
	.000	-.2519	-.2488	-.2282	-.2990	-.3462	-.3208	-.3692	-.2901

ALPHA(2) = -4.071 BETA(3) = .025

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.2162	-.2499	-.2449	-.2480	-.2410	-.2406	-.2376	-.2387	-.2800	-.2609	-.2628	-.2578	-.2578	-.2456

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	
	.000	-.2608	-.2418	-.2391	-.2901	-.2948	-.2979	-.3286	-.2415

ALPHA(2) = -4.050 BETA(4) = 4.127

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	196.0000	197.0000	198.0000	199.0000	200.0000	201.0000	202.0000	203.0000	204.0000
	.000	-.2333	-.2581	-.2441	-.2554	-.2616	-.2589	-.2506	-.2479	-.2895	-.2651	-.2662	-.2616	-.2884	-.2932

TAP NO	205.0000	206.0000	207.0000	787.0000	933.0000	934.0000	935.0000	936.0000	
	.000	-.2703	-.2551	-.2890	-.2926	-.2560	-.2494	-.2839	-.1985

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-019 (AB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC26)

ALPHA0(2) = -4.048 BETA0 (5) = 6.181

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2454 -.2756 -.2659 -.2667 -.2729 -.2698 -.2553 -.2527 -.2682 -.2504 -.2716 -.2724 -.2925 -.3104 -.2754

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2781 -.2640 -.2933 -.2932 -.2491 -.2518 -.2668 -.1815

ALPHA0(3) = -2.011 BETA0 (1) = -6.125

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2088 -.2491 -.2293 -.2224 -.2445 -.2499 -.2296 -.2342 -.2701 -.2235 -.2468 -.2512 -.2538 -.2477 -.2437

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2546 -.2489 -.2344 -.3036 -.3397 -.3247 -.3682 -.2842

ALPHA0(3) = -1.998 BETA0 (2) = -2.045

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2016 -.2384 -.2119 -.2073 -.2365 -.2377 -.2139 -.2124 -.2483 -.2260 -.2384 -.2370 -.2332 -.2483 -.2439

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2419 -.2321 -.2356 -.2827 -.3325 -.3172 -.3433 -.2591

DATE 21 OCT 75

1A81A - PRESSURE SOURCE DATA TABULATION

PAGE 3229

ARC11-019 1A81 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC26)

ALPHA(3) = -1.984 BETA(3) = 2.071

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2187 -.2453 -.2392 -.2357 -.2357 -.2353 -.2388 -.2338 -.2776 -.2506 -.2578 -.2443 -.2686 -.2751 -.2493

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2595 -.2428 -.2671 -.2781 -.2469 -.2637 -.2994 -.1913

ALPHA(3) = -1.975 BETA(4) = 6.155

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2307 -.2598 -.2400 -.2396 -.2466 -.2512 -.2488 -.2484 -.2679 -.2419 -.2748 -.2587 -.2709 -.2884 -.2560

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2617 -.2408 -.2816 -.2956 -.2501 -.2608 -.2738 -.1843

ALPHA(4) = .071 BETA(1) = -6.134

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2120 -.2476 -.2236 -.2201 -.2557 -.2511 -.2283 -.2261 -.2580 -.2181 -.2477 -.2462 -.2546 -.2432 -.2554

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2493 -.2481 -.2409 -.3148 -.3294 -.3224 -.3562 -.2664

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC26)

ALPHA0(4) = .076 BETA0 (2) = -4.088

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2054 -.2406 -.2139 -.2151 -.2433 -.2448 -.2160 -.2145 -.2505 -.2126 -.2388 -.2404 -.2408 -.2412 -.2518

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2442 -.2416 -.2309 -.2925 -.3338 -.3177 -.3442 -.2523

ALPHA0(4) = .079 BETA0 (3) = .002

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2075 -.2307 -.2067 -.2133 -.2237 -.2256 -.2162 -.2108 -.2409 -.2162 -.2356 -.2274 -.2453 -.2384 -.2377

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2300 -.2338 -.2323 -.2670 -.2986 -.3028 -.3185 -.2213

ALPHA0(4) = .084 BETA0 (4) = 4.101

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2198 -.2470 -.2276 -.2420 -.2509 -.2493 -.2335 -.2324 -.2586 -.2332 -.2593 -.2496 -.2637 -.2808 -.2618

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2591 -.2408 -.2728 -.3103 -.2581 -.2711 -.2948 -.1950

DATE 21 OCT 75

IAB1A - PRESSURE SOURCE DATA TABULATION

PAGE 3231

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC26)

ALPHA(4) = .089 BETA(5) = 6.149

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2280 -.2539 -.2373 -.2404 -.2570 -.2504 -.2445 -.2376 -.2502 -.2300 -.2707 -.2509 -.2657 -.2880 -.2626

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2653 -.2338 -.2751 -.3091 -.2594 -.2697 -.2835 -.1889

ALPHA(5) = 2.166 BETA(1) = -6.124

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2126 -.2428 -.2145 -.2192 -.2389 -.2385 -.2188 -.2169 -.2481 -.2104 -.2439 -.2400 -.2441 -.2381 -.2514

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2415 -.2305 -.2229 -.3019 -.3301 -.3086 -.3358 -.2515

ALPHA(5) = 2.174 BETA(2) = -2.053

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2009 -.2209 -.1993 -.2089 -.2266 -.2278 -.2133 -.2054 -.2463 -.2118 -.2342 -.2191 -.2429 -.2379 -.2376

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2281 -.2447 -.2319 -.2867 -.3130 -.3011 -.3165 -.2274

ARC11-C19 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC26)

ALPHA(5) = 2.176 BETA(3) = 2.058

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2101 -.2299 -.2140 -.2167 -.2233 -.2248 -.2159 -.2106 -.2495 -.2273 -.2360 -.2274 -.2533 -.2602 -.2384

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2362 -.2228 -.2506 -.2892 -.2674 -.2731 -.2895 -.1836

ALPHA(5) = 2.176 BETA(4) = 6.147

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2238 -.2475 -.2242 -.2312 -.2464 -.2413 -.2333 -.2218 -.2490 -.2245 -.2593 -.2507 -.2511 -.2736 -.2553

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2583 -.2181 -.2564 -.3099 -.2572 -.2718 -.2901 -.2030

ALPHA(6) = 4.242 BETA(1) = -6.110

SECTION (1)MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000196.0000197.0000198.0000199.0000200.0000201.0000202.0000203.0000204.0000

.000 -.2127 -.2398 -.2069 -.2240 -.2402 -.2333 -.2199 -.2179 -.2381 -.2134 -.2586 -.2395 -.2410 -.2364 -.2490

TAP NO 205.0000206.0000207.0000787.0000933.0000934.0000935.0000936.0000

.000 -.2364 -.2345 -.2307 -.3039 -.3352 -.2989 -.3389 -.2395

DATE 21 OCT 75

1A81A - PRESSURE SOURCE DATA TABULATION

PAGE 3233

ARC11-019 1A81 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC26)

ALPHA(6) = 4.246 BETA(2) = -4.074

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2001 -.2252 -.2040 -.1997 -.2190 -.2202 -.2102 -.2000 -.2337 -.2042 -.2280 -.2184 -.2396 -.2294 -.2275

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2211 -.2328 -.2245 -.2935 -.3348 -.2989 -.3283 -.2373

ALPHA(6) = 4.244 BETA(3) = .001

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.1971 -.2222 -.1959 -.2106 -.2179 -.2102 -.2099 -.2042 -.2407 -.2035 -.2190 -.2204 -.2265 -.2337 -.2310

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2151 -.2265 -.2129 -.2378 -.2998 -.2975 -.3185 -.2084

ALPHA(6) = 4.243 BETA(4) = 4.105

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2062 -.2334 -.2256 -.2240 -.2322 -.2365 -.2187 -.2065 -.2496 -.2221 -.2351 -.2321 -.2585 -.2692 -.2466

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2463 -.2253 -.2612 -.2913 -.2622 -.2836 -.3080 -.2050

ARC11-019 1A81 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC26)

ALPHA(6) = 4.240 BETA(5) = 6.155

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2198 -.2419 -.2190 -.2302 -.2430 -.2422 -.2251 -.2213 -.2453 -.2244 -.2594 -.2487 -.2513 -.2764 -.2585

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2574 -.2243 -.2669 -.3001 -.2714 -.2822 -.3093 -.2263

ALPHA(7) = 6.337 BETA(1) = -4.058

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.1982 -.2221 -.1990 -.2071 -.2256 -.2225 -.2054 -.1974 -.2292 -.2008 -.2220 -.2193 -.2375 -.2337 -.2413

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2269 -.2330 -.2223 -.2957 -.3442 -.3046 -.3324 -.2422

ALPHA(7) = 6.337 BETA(2) = -2.026

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.1978 -.2213 -.2024 -.2024 -.2193 -.2132 -.2114 -.2034 -.2452 -.2060 -.2159 -.2152 -.2420 -.2379 -.2311

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2103 -.2250 -.2164 -.2818 -.3186 -.3055 -.3243 -.2276

DATE 21 OCT 75

IABIA - PRESSURE SOURCE DATA TABULATION

PAGE 3235

ARC11-019 IAB1 LVAP(ELHL SEALED) MISC. ORIFICES

(RETC26)

ALPHA(7) = 6.335 BETA(3) = .015

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2082 -.2330 -.2125 -.2137 -.2295 -.2280 -.2107 -.2050 -.2425 -.2062 -.2228 -.2312 -.2433 -.2365 -.2369

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2255 -.2342 -.2270 -.2770 -.3092 -.3118 -.3149 -.2112

ALPHA(7) = 6.332 BETA(4) = 2.074

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.2003 -.2193 -.2111 -.2131 -.2220 -.2208 -.2146 -.2073 -.2442 -.2100 -.2214 -.2203 -.2511 -.2515 -.2363

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2306 -.2207 -.2321 -.2873 -.2844 -.2951 -.3184 -.2160

ALPHA(7) = 6.327 BETA(5) = 4.123

SECTION (1) MISC. ORIFICES DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 196.0000 197.0000 198.0000 199.0000 200.0000 201.0000 202.0000 203.0000 204.0000

.000 -.1988 -.2265 -.2103 -.2080 -.2169 -.2207 -.2207 -.2135 -.2549 -.2275 -.2389 -.2254 -.2429 -.2440 -.2296

TAP NO 205.0000 206.0000 207.0000 787.0000 933.0000 934.0000 935.0000 936.0000

.000 -.2307 -.2167 -.2391 -.2904 -.2688 -.2948 -.3226 -.2352

MATERIAL SOURCE DATA