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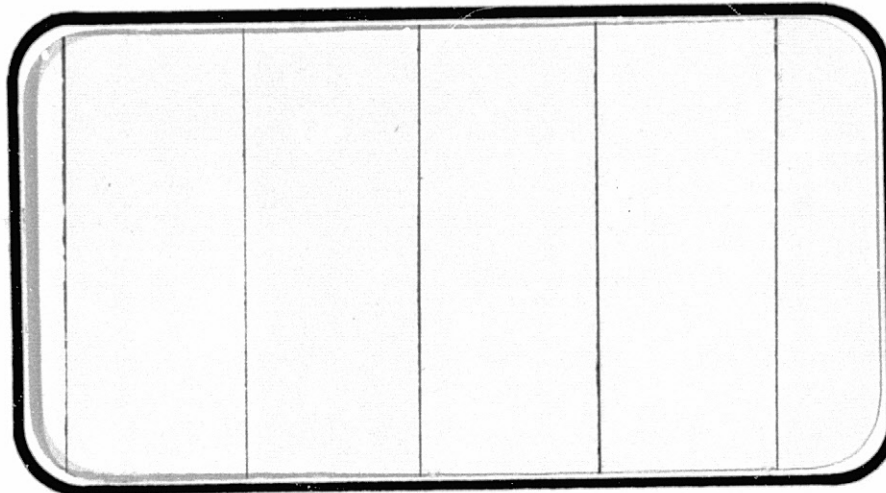
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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

NASA CR-

141544



(NASA-CR-141544) RESULTS OF A JET PLUME EFFECTS TEST ON THE ROCKWELL INTERNATIONAL INTEGRATED SPACE SHUTTLE VEHICLE USING A VEHICLE 5 CONFIGURATION 0.02-SCALE MODEL (88-OTS) IN THE 11 X 11 FOOT LEG OF THE

N75-27046

G3/18 Unclass 28869

SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT



JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANAGEMENT services



June, 1975

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RESULTS OF A JET PLUME EFFECTS TEST
ON THE ROCKWELL INTERNATIONAL INTEGRATED
SPACE SHUTTLE VEHICLE USING A VEHICLE 5
CONFIGURATION 0.02-SCALE MODEL (88-OTS)
IN THE 11'x 11 FOOT LEG OF THE NASA/AMES
RESEARCH CENTER UNITARY PLAN WIND TUNNEL (IA19)
VOLUME 2 OF 3

By

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Wind Tunnel Operations
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Prepared under NASA Contract Number NAS9-13247

By

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for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number ARC 11-014
NASA Series Number: IA19
Model Number: 88-OTS
Test Dates: 9-16 through 9-24-74
Occupancy Hours: 120

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RESULTS OF A JET PLUME EFFECTS TEST
ON THE ROCKWELL INTERNATIONAL INTEGRATED
SPACE SHUTTLE VEHICLE USING A VEHICLE 5
CONFIGURATION 0.02-SCALE MODEL (88-OTS)
IN THE 11 x 11 FOOT LEG OF THE NASA/AMES
RESEARCH CENTER UNITARY PLAN WIND TUNNEL (IA19)

By

M. E. Nichols, Rockwell International Space Division

ABSTRACT

Presented in this report are results of jet plume effects Test IA19 using a Vehicle 5 configuration integrated Space Shuttle Vehicle 0.02-scale model in the NASA/Ames Research Center 11 x 11-foot leg of the Unitary Plan Wind Tunnel. Testing was conducted between 16 September and 24 September 1974.

The primary objective of this test was the determination of jet plume power effects on the integrated vehicle static pressure distribution. Secondary objectives were to determine: 1) elevon, Main Propulsion System nozzle and Solid Rocket Booster nozzle effectiveness and 2) elevon hinge moments. MPS and SRB nozzle conditions were set according to calibration data obtained at Rockwell International/Rocketdyne Division's Rocket Nozzle Test Facility.

Mach numbers tested were at 0.90, 1.10, 1.25 and 1.40. Angle of attack was varied from -8° to $+8^\circ$ while the angle of sideslip was varied from -4° to $+4^\circ$. Reynolds number was changed with Mach number, as shown in Table 1.

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PLOTTED COEFFICIENTS SCHEDULE:

- | | |
|--|---------------------|
| A) CHEI, CHEO, CABO, CABS, CABT versus ALPHA | G) DELCP versus X/L |
| B) CHEI, CHEO, CABO, CABS, CABT versus BETA | H) CP versus X/C |
| C) DCHEI, DCHEO versus ALPHA | I) DELCP versus X/C |
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| E) CHEI, CHEO, CABO, CABS, CABT versus MACH | K) DELCP versus PHI |
| F) CP versus X/L | |

INTRODUCTION

A vehicle 5 configuration 0.02-scale Integrated Space Shuttle Model was tested in the ARC Unitary Plan Wind Tunnel. The testing was conducted in the 11 x 11-foot section between 16 September and 24 September 1974. Cold flow through the Main Propulsion System (MPS) nozzle and the Solid Rocket Booster (SRB) nozzle was used to simulate jet plume effects. This test was designated IA19.

This report for the IA19 test contains a tabular listing of all source force and pressure data. Selected force plots that illustrate power setting effects on the integrated vehicle static axial pressure distribution and elevon hinge moment are included. These plots also show elevon control deflection effectiveness and the effect of gimbal control deflection. Pressure plots that illustrate power setting effects on the local pressure distribution for the Orbiter, External Tank (ET) and SRB are also included. This information is arranged in the following manner:

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The pressure data were recorded for each component. The fourth character in each dataset identifier (i.e., REUBXX, B for fuselage) represents the individual component. The following list indicates the symbol for each component.

SYMBOL	COMPONENT
B	Orbiter fuselage
E	Upper body flap surface
F	Lower body flap surface
G	Orbiter base
I	External tank base
K	SRB base
R	Upper wing surface
S	Solid Rocket Booster (SRB)
T	External tank
V	Vertical tail surface
W	Lower wing surface

NOMENCLATURE
General

<u>SYMBOL</u>	<u>SADSAC 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
l_{REF} c	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

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NOMENCLATURE (Continued)

Body-Axis System

<u>SYMBOL</u>	<u>SADSAC 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	CLN	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
L/D _F	L/DF	lift to forebody drag ratio; C_L/C_{D_f}

NOMENCLATURE (Continued)
Additions to Standard List

<u>Symbol</u>	<u>SADSAC Symbol</u>	<u>Definition</u>
A_i		model base area, denoted by associated tap number subscript, ft ²
C_{ABO}	CABO	Orbiter base axial force coefficient
C_{ABS}	CABS	SRB base axial force coefficient
C_{ABT}	CABT	ET base axial force coefficient
\bar{c}_E		M. A. C. of total elevon panel (inbd plus outbd), in.
CH_{EI}	CHEI	hinge moment coefficient for inboard elevon
CH_{EO}	CHEO	hinge moment coefficient for outboard elevon
CH_{ET}	CHET	total elevon hinge moment coefficient
Cp_i		model pressure coefficient, denoted by a subscript i
CPR_j	PR	ratio of prototype nozzle chamber pressure to freestream static pressure, denoted by a subscript j
EPR_j		ratio of nozzle exit pressure to freestream static pressure, denoted by a subscript j
HM_{EI}		hinge moment of inboard elevon, in-lbs
HM_{EO}		hinge moment of outboard elevon, in-lbs
Pc_j		nozzle chamber pressure, denoted by a nozzle number subscript, psia
Pe_j		nozzle exit pressure, denoted by a nozzle number subscript, psia
S_E		total elevon planform area for one wing panel, ft ²

D

NOMENCLATURE (Continued)

l	L	length of body, in
$b/2$	B	wing semi-span, in
b_v	BV	vertical tail span, in
x	X	distance from component nose, in
y	Y	lateral distance from centerline, in
z	Z	vertical distance measured from W. L. 500 (vertical tail reference root chord), in
c	C	local wing chord, in
c_v	CV	local vertical tail chord, in
x/l	X/L	longitudinal position/body length
x/c	X/C	local chordwise position/local wing chord length
x/c	X/CV	local chordwise position/local vertical tail chord length
η	ZY/B	local spanwise position/wing semi-span
η_v	Z/BV	local spanwise position/vertical tail span
ΔC_p	DELCP	pressure coefficient increment due to power/plume effect, power on - power off
ΔC_{HEI}	DCHEI	hinge moment coefficient increment for inboard elevon due to power/plume effect, power on-power off
ΔC_{HEO}	DCHEO	hinge moment coefficient increment for outboard elevon due to power/plume effect, power on-power off
	OFF LOW NOM HI	MPS and SRB power settings, see Tabulated Force Data for specific values of pressure ratio

NOMENCLATURE (Concluded)

$T_{T\text{MPS}}$ MPS air supply total temperature, °R
 $T_{T\text{SRB}}$ SRB air supply total temperature, °R

Angles:

α_{N_j} pitch-angle of nozzle centerline in a plane parallel to the plane of symmetry, degrees
 ψ_{N_j} yaw-angle of nozzle centerline in a plane parallel to a waterline plane, degrees
 γ_{N_j} pitch-angle of nozzle centerline in a plane which yaws with the nozzle, degrees

Subscripts:

E	ELV	elevon
i		surface tap number
j		nozzle number
I	IB	inboard
O	OB	outboard
N		nozzle
1		top MPS nozzle
2		L. H. MPS nozzle
3		R. H. MPS nozzle
4		L. H. SRB nozzle
5		R. H. SRB nozzle
T		total condition

D

DATA REMARKS

Good data confidence can be attributed to Test IA19 on the basis of model and instrumentation performance throughout the test program.

Hinge-moment data, for the inboard and outboard elevons, should be good in all cases presented, as no particular anomalies occurred.

Surface pressure-tap data is also trustworthy, as very few taps consistently indicated any plugged or leaking conditions during repeated Scanivalve-system checks.

Some scatter and error, on the order of 2 percent of the maxima, is to be expected in the measured and computed SRB nozzle chamber-pressure parameters. Pressure variations during the runs account for some scatter, and a correction term had to be applied to precalibrated values when the pressure probes for the SRB nozzles failed during the test.

CONFIGURATIONS INVESTIGATED

The 88-OTS model was a 0.02-scale representation of the Launch-Configuration Space Shuttle Vehicle 5, with Solid Rocket Motor and Main Propulsion System plume-simulation capability.

Various elevon settings and nozzle gimbal angles were set during the test to determine incremental effects of control deflections, as shown in the run-schedule (collation) sheets, Table 2.

Nozzle chamber-total pressures were controllable for appropriate plume-shape simulations. The nozzles were precalibrated by Rockwell.

The model was instrumented as follows:

- 1) 362 model surface pressure taps (See Table IV) monitored by 11 scavivalve modules in 3 gangs.
- 2) 5 nozzle chamber-total pressure probes monitored by large capacity transducers.
- 3) 5 nozzle exit-static pressure taps monitored on separate transducers.
- 4) Inboard and outboard elevon hinge-moment strain gauges on the left wing.
- 5) Total-temperature thermocouple probes in the SRM and MPS air-supply systems.
- 6) Pendulum dangleometer mounted in the ET for angle-of-attack measurements.

The following nomenclature was used to designate model components:

<u>Component</u>	<u>Defintion</u>
AT ₂₈	Attach structure
AT ₃₁	Attach structure
AT ₃₂	Attach structure

CONFIGURATIONS INVESTIGATED (Continued)

B ₆₂	Body
C ₁₂	Canopy
E ₅₂	Elevon
F ₁₀	Body flap
FL ₁₀	Feedline
FL ₁₁	Feedline
FR ₁₀	Aft attach cross beam
M ₁₆	OMS pod
N ₈₇	MPS nozzles
N ₈₈	SRB nozzle
N ₈₉	OMS nozzles
PS ₁₁	SRB protuberances
PS ₁₂	SRB protuberances
PS ₁₃	SRB protuberances
PS ₁₄	SRB protuberances
PS ₁₇	SRB protuberances
PS ₁₈	SRB protuberances
PS ₁₉	SRB protuberances
PT ₁₂	ET protuberances

CONFIGURATIONS INVESTIGATED (Concluded)

PT ₂₂	ET protuberances
PT ₂₃	ET protuberances
PT ₂₄	ET protuberances
PT ₂₅	ET protuberances
PT ₂₆	ET protuberances
PT ₂₇	ET protuberances
R ₅	Rudder
S ₂₂	Solid rocket booster
T ₂₈	External tank
V ₈	Vertical tail
W ₁₂₇	Wing

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

The data reduction procedures for Test IA19 involve calculation of: operating nozzle chamber-total and exit-static pressures and pressure ratios for the SRB and MPS nozzles, elevon (inboard and outboard) panel hinge moments and hinge-moment coefficients, and pressure coefficients for the 362 static taps on the Orbiter, External Tank, and Solid Rocket Boosters.

Equations used for reduction of data were as follows:

a) Elevon hinge moment:

$$C_{HEI} = \frac{HM_{EI}}{q S_E \bar{c}_E}$$

$$C_{HEO} = \frac{HM_{EO}}{q S_E \bar{c}_E}$$

$$C_{HET} = C_{HEI} + C_{HEO}$$

b) Nozzle pressure parameters:

$$CPR_j = \frac{P_{c_j}}{P_\infty} \quad j = 1 \rightarrow 5$$

$$EPR_j = \frac{P_{e_j}}{P_\infty} \quad j = 1 \rightarrow 5$$

c) Model pressure coefficients:

$$C_{p_i} = \frac{P_i - P_\infty}{q}$$

$i = 101 - 172$ Top of Rt. wing

$i = 201 - 265$ Bottom of Rt. wing

①

DATA REDUCTION (Continued)

i = 301 - 389 Orbiter fuselage

i = 401 - 439 Rt. side of vertical tail

i = 501 - 573 External tank

i = 601 - 624 Rt. SRB

d) Base pressure coefficients:

$$C_{A_{BS}} = \sum_{i=621}^{624} \frac{C_{p_i} A_i}{S}$$

$$C_{A_{B0}} = \sum_{i=369}^{381} \frac{C_{p_i} A_i}{S} \quad C_{A_{BT}} = \sum_{i=541}^{573} \frac{C_{p_i} A_i}{S}$$

The following reference dimensions and constants were used in the reduction of data:

<u>Base Areas</u> <u>Model Scale, Ft²</u>	<u>Model Scale, Ft²</u>	<u>Model Scale, Ft²</u>
A ₃₆₉ = 0.0000	A ₅₄₁ = 0.0066	A ₅₅₈ = 0.0089
A ₃₇₀ = 0.0095	A ₅₄₂ = 0.0008	A ₅₅₉ = 0.0089
A ₃₇₁ = 0.0095	A ₅₄₃ = 0.0008	A ₅₆₀ = 0.0089
A ₃₇₂ = 0.0074	A ₅₄₄ = 0.0008	A ₅₆₁ = 0.0089
A ₃₇₃ = 0.0074	A ₅₄₅ = 0.0008	A ₅₆₂ = 0.0133
A ₃₇₄ = 0.0081	A ₅₄₆ = 0.0012	A ₅₆₃ = 0.0177
A ₃₇₅ = 0.0049	A ₅₄₇ = 0.0016	A ₅₆₄ = 0.0177
A ₃₇₆ = 0.0024	A ₅₄₈ = 0.0016	A ₅₆₅ = 0.0177
A ₃₇₇ = 0.0049	A ₅₄₉ = 0.0016	A ₅₆₆ = 0.0177

DATA REDUCTION (Concluded)

$A_{378} = 0.0081$
 $A_{379} = 0.0095$
 $A_{380} = 0.0060$
 $A_{381} = 0.0095$
 $A_{621} = 0.0119$
 $A_{622} = 0.0119$
 $A_{623} = 0.0119$
 $A_{624} = 0.0119$

$A_{550} = 0.0016$
 $A_{551} = 0.0016$
 $A_{552} = 0.0016$
 $A_{553} = 0.0016$
 $A_{554} = 0.0008$
 $A_{555} = 0.0008$
 $A_{556} = 0.0008$
 $A_{557} = 0.0008$

$A_{567} = 0.0177$
 $A_{568} = 0.0177$
 $A_{569} = 0.0177$
 $A_{570} = 0.0133$
 $A_{571} = 0.0089$
 $A_{572} = 0.0089$
 $A_{573} = 0.0089$

Reference Dimensions

C_E

S_E

S

Full Scale

90.7 in.

210 ft²

2690 ft²

Model Scale

1.814 in.

0.0840 ft²

1.076 ft²

TABLE I.

TEST # IA19		DATE : 9-24-74	
TEST CONDITIONS			
MACH NUMBER	REYNOLDS NUMBER (per foot)	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.9	4.35×10^6	4.93	150
1.10	4.64×10^6	5.83	150
1.25	4.70×10^6	6.18	150
1.40	4.55×10^6	6.32	150

BALANCE UTILIZED: _____

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	_____	_____	_____
SF	_____	_____	_____
AF	_____	_____	_____
PM	_____	_____	_____
RM	_____	_____	_____
YM	_____	_____	_____

COMMENTS:

TABLE II.

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TEST: IA19 ARC II, 97-014		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: 9/24/74						
DATA SET IDENTIFIER	CONFIGURATION	SCHED.		CONTROL DEFLECTION				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) α									
		α	β	SeI	SeO	SR	SFB		MPS	MACH	-8	-4	0	4	8	S1*	S2*	S3*
REU001	OTS (WITH STRUT TUFTS)	B		8	4	0	OFF		OFF	0.9		52	53	54		u16	u10	u10
02										1.1		37	38	39				
03										1.25		1	2	3				
04									Y	1.4		65	25	24				
05							NOM		NOM	0.9		57	56	55				
06										1.1		43	44	45				
07										1.25		10	11	12				
08									Y	1.4		26	27	28				
09							LOW		NOM	0.9		69	70	71				
10										1.1		49	50	51				
11										1.25		7	8	9				
12									Y	1.4		35	33	34				
13							NOM		OFF	0.9		60	58	59				
14										1.1		48	47	46				
15										1.25		13	14	15				
Y 16	Y			Y	Y	Y	Y	Y	Y	1.4		29	30	31		Y	Y	Y

TEST RUN NUMBERS

29

1	7	13	19	25	31	37	43	49	55	61	67	75	76
SRBPR	MPSPR	CHEI	CHEO	CABO	CABT	CABS	CP	MACH		ALPHA	BETA		
α OR β SCHEDULES		COEFFICIENTS						* MPS NOZZLE DEFLECTION (EXAMPLE: U16° = UP 16 DEG.)					
		B > @ $\alpha = -4, \beta = 0$						IDVAR (1) IDVAR (2) NDV					
		$\alpha = 0, \beta = -4, 0, 4$						(EXAMPLE: U16° = UP 16 DEG.)					

$\alpha = 4, \beta = 0$
 $\alpha = -8, +8, \beta = 0$

TABLE II. - Continued.

TEST: IA19 ARC11, 97-019		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: 9/24/74					
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		CONTROL DEFLECTION				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) α								
		α	β	SEI	SEO	SR	SRB		MPS	MACH	-8	-4	0	4	8	S1*	S2*
REU017	OTS (WITH STRUT & TUFTS)	B	B	4	0	HI		HI	0.9		66	67	68		U16	U10	U10
18	↓								1.1		40	41	42				
19	↓								1.25		18	19	20				
20	↓								1.4		62	63	64				
21	OTS (WITH STRUT)			0		OFF		OFF	1.4		72	73	74				
22	↓					NOM		NOM	1.4		76	77	78				
23	↓			0		OFF		OFF	0.9		100	101	102				
24	↓								1.1		94	95	96				
25	↓								1.25		88	89	90				
26	↓								1.4		82	83	84				
27	↓					NOM		NOM	0.9		97	98	99				
28	↓								1.1		91	92	93				
29	↓								1.25		85	86	87				
30	↓								1.4		79	80	81				
31	↓					OFF		OFF	0.9		106	107	108		U18 ¹ RB	U17 ¹ L6.7	U7 ⁰
32	↓								1.1		124	125	126				
33	↓								1.25		112	113	114				
34	↓								1.4		118	119	120				

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TEST RUN NUMBERS

1	7	13	19	25	31	37	43	49	55	61	67	75	76
SRBPR	MPSPR	CHEI	CHE \emptyset	CAB \emptyset	CABT	CABS	CP	MACH		ALPHA	BETA		
COEFFICIENTS										IDVAR (1)	IDVAR (2)	NDV	
α OR β		_____					_____						
SCHEDULES		_____					_____						

TABLE II. - Continued.

TEST: IA 19 ARC 11, 97-014		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: 9/24/74						
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		CONTROL DEFLECTION				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) α									
		α	β	SEI	SEO	SR	SRB		MPS	MACH	-8	-4	0	4	8	S_1^*	S_2^*	S_3^*
REU035	OTS (WITH STRUT)		B	0	0	0	NOM		NOM	0.9		103	104	105		u18.1° 8.8°	u17.1° 6.7°	u17°
36	↓									1.1		121	122	123				
37	↓									1.25		109	110	111				
38	↓						Y		Y	1.4		115	116	117		Y	Y	Y
39	OTS (NO STRUT)						OFF		OFF	0.9	161	162	163	164	165	u16°	u10°	u10°
40	↓									1.1	151	152	153	154	155			
41	↓									1.25	138	139	140	141	142			
42	↓						Y		Y	1.4	127	128	130	131	132			
43	↓						NOM		OFF	0.9	166	167	168	169	170			
44	↓									1.1	156	157	158	159	160			
45	↓									1.25	143	144	145	146	147			
46	↓			Y			Y		Y	1.4	133	134	135	136	137			
47	↓			B			OFF		OFF	1.4		174	172	173				
48	↓			B	Y		NOM		OFF	1.4		175	176	177				
49	↓			B	4		OFF		OFF	0.9		196	197	198				
50	↓									1.1		190	191	192				
51	↓									1.25		184	185	186				
52	↓			Y	Y	Y	Y		Y	1.4		178	179	180		Y	Y	Y

TEST RUN NUMBERS

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

COEFFICIENTS

IDVAR (1) IDVAR (2) NDV

α OR β _____

SCHEDULES _____

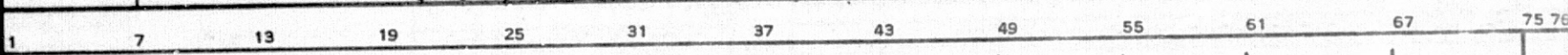
31

TABLE II. - Concluded.

TEST: IA19 ARC 11, 97-014		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: 9/24/74					
DATA SET IDENTIFIER	CONFIGURATION	SCHED.		CONTROL DEFLECTION				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)								
		α	β	SE1	SE2	SR	SRB		MPS	MACH	-8	-4	0	4	8	S1	S2
REU 53	OTS (NO STRUT)		B	8	4	0	NOM	OFF	0.9		199	200	201		416	419	418
↓ 54	↓								1.1		193	194	195				
↓ 55	↓								1.25		187	188	189				
↓ 56	↓								1.4		181	182	183				
REU 57	OTS (WITH STRUT & TRUETS)						NOM +	NOM +	1.25		4	5	6				
↓ 58	repeat						LOW	NOM	1.4		32	36					
↓ 59	repeat						NOM	OFF	1.25		16	17					
↓ 60							HI	NOM	1.25		21						

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TEST RUN NUMBERS



COEFFICIENTS

IDVAR (1) IDVAR (2) NDV

α OR β
SCHEDULES

TABLE III MODEL DIMENSIONAL DATA

MODEL COMPONENT: ATTACH STRUCTURE - AT₂₈

GENERAL DESCRIPTION: Rear orbiter to ET attach structure (LH and RH)
(2 members)

MODEL SCALE: 0.020

DRAWING NO.: VC78-000002

DIMENSIONS:

		<u>FULL SCALE</u>	<u>MODEL SCALE</u>	
Member #1 Attach Stations	X _O	1317.00	26.34	
	Y _O	- 96.50 (LH)	- 1.93 (LH)	
		96.50 (RH)	1.93 (RH)	
	Z _O	267.50	5.35	
	X _T	2058.00	41.6	
	Y _T	- 125.68 (LH)	- 2.5136 (LH)	
		125.68 (RH)	2.5136 (RH)	
	Z _T	515.5	10.31	
	Member #2 Attach Stations	X _O	1317.00	26.34
		Y _O	- 96.50 (LH)	- 1.93 (LH)
		96.50 (RH)	1.93 (RH)	
Z _O		267.50	5.35	
X _T		1872.00	37.44	
Y _T		- 125.68 (LH)	- 2.5136 (LH)	
		125.68 (RH)	2.5136 (RH)	
Z _T		504.5	10.09	
Member #1 Dia.			11.5	0.230
Member #2 Dia.			15.5	0.31

TABLE III (CONT'D)

MODEL COMPONENT: ATTACH STRUCTURE - AT₃₁

GENERAL DESCRIPTION: Rear ET to SRB attach structure (LH & RH)

(3 members)

MODEL SCALE: 0.020

DRAWING NO.: VL78-000063, VL78-000062B, VL78-000066

DIMENSIONS:		FULL SCALE	MODEL SCALE
Member #1	X _T	2058.00	41.16
	Y _T	- 171.50 (LH)	- 3.43
		171.50 (RH)	3.43
	Z _T	457.00	9.14
	X _S	1511.00	30.22
	Y _S	53.24	1.0648
	Z _S	57.00	1.14
Member #2	X _T	2058.00	41.16
	Y _T	- 163.85	- 3.277
	Z _T	449.81	8.996
	X _S	1511.00	30.22
	Y _S	76.56	1.5312
	Z _S	15.73	0.3146
Member #3	X _T	2058.00	41.16
	Y _T	- 161.72	- 3.2344
	Z _T	343.00	6.86
	X _S	1511.00	30.22
	Y _S	53.24	1.0648
	Z _S	- 57.00	- 1.14

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TABLE III (CONT'D)

MODEL COMPONENT: ATTACH STRUCTURE - AT₃₂

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

MODEL SCALE: 0.020

DRAWING NUMBER: VC78-000002

DIMENSIONS:		FULL SCALE	MODEL SCALE
Member #1	X _O	388.15	7.763
	Y _O	0.0	0.0
	Z _O	LWR ML	LWR ML
	X _T	1129.9	22.598
	Y _T	46.50	0.930
	Z _T	562.58	11.252
	Member #2	X _O	388.15
Y _O		0	0.00
Z _O		LWR ML	LWR ML
X _T		1129.9	22.598
Y _T		- 46.50	- 0.930
Z _T		562.58	11.252
Diameter of members (In.):		6.0	0.120

TABLE III (CONT'D)

MODEL COMPONENT: BODY - B62

GENERAL DESCRIPTION: Configuration 140C fuselage, MCR 200-R4. Similar to 140A/B except with revised aft body.

MODEL SCALE: 0.020

DRAWING NUMBER: VI.70-000140C, 00200B, -00202C, -000203, -000205A

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length (OML: Fwd Sta $X_0 = 235$), In.	<u>1293.3</u>	<u>25.866</u>
Max. Width (@ $X_0 = 1528.3$), In.	<u>264.0</u>	<u>5.280</u>
Max. Depth (@ $X_0 = 1464$), In.	<u>250.0</u>	<u>5.000</u>
Fineness Ratio	<u>4.899</u>	<u>4.899</u>
Area - Ft ²		
Max. Cross-Sectional	<u>340.885</u>	<u>0.136354</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III (CONT'D)

MODEL COMPONENT: CANOPY - C₁₂

GENERAL DESCRIPTION: Configuration 140C orbiter canopy used with
Body - B₆₂

MODEL SCALE: 0.020

DRAWING NUMBER VI:70-000140C, -000202B, -000204

<u>DIMENSION:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length ($X_0 = 434.643$ to 516), In.	<u>143.357</u>	<u>2.867</u>
Max Width (@ $X_0 = 513.127$), In.	<u>152.412</u>	<u>3.048</u>
Max Depth (@ $Z_0 = 501$ to 449.39), In.	<u>51.61</u>	<u>1.032</u>
Fineness Ratio	<u> </u>	<u> </u>
Area		
Max Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III (CONT'D)

MODEL COMPONENT ELEVON - E52

GENERAL DESCRIPTION Elevon for Configuration 140C, Hingeline
at $X_o = 1387$, elevon split line $X_s = 312.5$, 6.0" gaps, beveled edges, and
centerbodies.

MODEL SCALE: 0.020

DRAWING NUMBER VI70-000140C, -006089, -006092, SSA-01260

DIMENSIONS (Data for one side)	FULL SCALE	MODEL SCALE
Area - Ft ²	<u>210.0</u>	<u>0.0820</u>
Span (equivalent), In. ($Y_o = 119.99$), In.	<u>349.2</u>	<u>6.984</u>
Inb'd equivalent chord, In. ($Y_o = 469.19$)	<u>118.0</u>	<u>2.360</u>
Outb'd equivalent chord, In.	<u>55.19</u>	<u>1.1038</u>
Ratio movable surface chord/ total surface chord	<u> </u>	<u> </u>
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.4004</u>	<u>0.4004</u>
Sweep Back Angles, degrees	<u> </u>	<u> </u>
Leading Edge	<u>0.0</u>	<u>0.0</u>
Trailing Edge	<u>- 10.056</u>	<u>- 10.056</u>
Hingeline (Product of Area & \bar{c})	<u>0.00</u>	<u>0.00</u>
Area Moment (Normal to hingeline), Ft ³	<u>1587.25</u>	<u>0.012698</u>
Mean Aerodynamic Chord, In.	<u>90.7</u>	<u>1.814</u>
Hingeline dihedral (origin at $Z_o = 261.3509$), deg.	<u>5.228986</u>	<u>5.228986</u>

TABLE III (CONT'D)

MODEL COMPONENT: BODY FLAP - F10GENERAL DESCRIPTION: Configuration 140C Body Flap. Hingeline located
at $X_0 = 1532$, $Z_0 = 287.00$ MODEL SCALE: 0.020MODEL DRAWING: SS-A01261

DRAWING NUMBER

VL70-000140C

<u>DIMENSION:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length ($X_0 = 1525.5$ to 1613), In.	<u>87.50</u>	<u>1.750</u>
Max Width (@ L.E. $X_0 = 1525.5$), In.	<u>256.00</u>	<u>5.120</u>
Max Depth (@ $X_0 = 1532$), In.	<u>19.798</u>	<u>0.39596</u>
Fineness Ratio	<u></u>	<u></u>
Area - Ft ²		
Max Cross-Sectional	<u>35.196</u>	<u>0.0140784</u>
Planform	<u>135.00</u>	<u>0.0540</u>
Wetted	<u></u>	<u></u>
Base ($X_0 = 1613$)	<u>4.89</u>	<u>0.001956</u>

TABLE III (CONT'D)

MODEL COMPONENT: FEEDLINE FL₁₀GENERAL DESCRIPTION: LH₂ feedline on upper left-hand side of T₂₈

MODEL SCALE: 0.020

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

DIMENSIONS:

		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	2071.5	41.430
	Y _T	- 70.0	- 1.400
	Z _T	573.934	11.479
Trailing edge at:	X _T	2081.8	41.636
	Y _T	- 70.00	- 1.400
	Z _T	584.059	11.682
Diameter of line (17.0 I.D.)		18.160	0.3632

TABLE III (CONT'D)

MODEL COMPONENT: FEEDLINE - FL₁₁

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

MODEL SCALE: 0.020

DRAWING NUMBER: VL78-000063, VL78-000062B

DIMENSIONS:

		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	1000.667	20.013
	Y _T	70.00	1.400
	Z _T	150.519	3.010
Trailing edge at:	X _T	2071.5	41.43
	Y _T	70.00	1.400
	Z _T	573.934	11.479
Diameter of line (17.0 I.D.)		18.16 O.D.	0.3632

TABLE III (CONT'D)

MODEL COMPONENT: FAIRING - FR₁₀

GENERAL DESCRIPTION: Aft attach cross beam

MODEL SCALE: 0.020

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

DIMENSIONS:

		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at	X _T	2052.0	41.04
Length		193.00	3.86
Width		15.00	0.30

TABLE III (CONT'D)

MODEL COMPONENT: OMS POD - M₁₆

GENERAL DESCRIPTION: Configuration 140C OMS Pod

MODEL SCALE: 0.020

DRAWING NUMBER VI70-008401, VI70-008410 (as of 5/16/75)

<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>5.170</u>
Max Width (@ $X_0 = 1511$), In.	<u>136.80</u>	<u>2.736</u>
Max Depth (@ $X_0 = 1511$), In.	<u>74.70</u>	<u>1.494</u>
Fineness Ratio	<u>2.484</u>	<u>2.484</u>
Area - Ft ²		
Max Cross-Sectional	<u>58.864</u>	<u>0.02355</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III (CONT'D)

MODEL COMPONENT: MPS NOZZLES - N₈₇

GENERAL DESCRIPTION: Flow-through MPS nozzles with gimbal capability.

There is a metric shroud around each nozzle for measuring hinge moments about the gimbal point.

MODEL SCALE: 0.020

DRAWING NUMBER: SS-A01261

DIMENSIONS:	FULL SCALE	MODEL SCALE
MACH NO. (0.6, 0.9, 1.1, 1.25, 1.4)		
Length - In.		
Gimbal Point to Exit Plane	<u>157.0</u>	<u>2.14</u>
Throat to Exit Plane	<u>131.55</u>	<u>3.6311</u>
Diameter - In.		
Exit	<u>90.435</u>	<u>1.8087</u>
Throat	<u>23.3502</u>	<u>0.467004</u>
Inlet		
Area - ft ²		
Exit	<u>44.607</u>	<u>0.01784</u>
Throat	<u>2.974</u>	<u>0.0011895</u>
Gimbal Point (Station) - In.		
Upper Nozzle		
X ₀	<u>1445</u>	<u>28.90</u>
Y ₀	<u>0</u>	<u>0</u>
Z ₀	<u>443</u>	<u>8.86</u>
Lower Nozzles		
X ₀	<u>1468.17</u>	<u>29.3634</u>
Y ₀	<u>± 53.0</u>	<u>1.06</u>
Z ₀	<u>242.74</u>	<u>4.8528</u>
Null Position - Deg.		
Upper Nozzle		
Pitch	<u>16°</u>	<u>16°</u>
Yaw	<u>0°</u>	<u>0°</u>
Lower Nozzle		
Pitch	<u>10°</u>	<u>10°</u>
Yaw	<u>OUTB'D 3°30'</u>	<u>OUTB'D 3°30'</u>

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TABLE III (CONT'D)

MODEL COMPONENT: SRB NOZZLES - N88

GENERAL DESCRIPTION: Flow through SRB nozzle with gimbals capability.

Simulator $\epsilon = 7.0$ prototype. There is a metric shroud around each nozzle for measuring hinge moments about the gimbals point.

MODEL SCALE: 0.020

DRAWING NUMBER: SS-A01262

DIMENSIONS:	FULL SCALE	MODEL SCALE
MACH NO.		
Length - In.		
Gimbal Point to Exit Plane	<u>86.8</u>	<u>1.736</u>
Throat to Exit Plane	<u>112.135</u>	<u>2.2427</u>
Diameter - In.		
Exit	<u>144.290</u>	<u>2.88580</u>
Throat	<u>64.53</u>	<u>1.2906</u>
Inlet		
Area - ft ²		
Exit	<u>356.738</u>	<u>0.14269</u>
Throat	<u>22.712</u>	<u>0.090847</u>
Gimbal Point (Station) - In.		
Upper Nozzle		
X _B	<u>1902.6</u>	<u>38.052</u>
Y _B	<u>250.5</u>	<u>5.01</u>
Z _B		
Lower Nozzles		
X		
Y		
Z		
Null Position - Deg.		
Upper Nozzle		
Pitch	<u>0</u>	<u>0</u>
Yaw	<u>0</u>	<u>0</u>
Lower Nozzle		
Pitch		
Yaw		

TABLE III (CONT'D)

MODEL COMPONENT: NOZZLES - N 39

GENERAL DESCRIPTION: OMS nozzle in stow d position which is outboard 8° and down 7°
from null position. Use with M₁₆.

MODEL SCALE = 0.020

DRAWING NO. SS-A01288

<u>DIMENSIONS</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Mach No. _____		
Length ~ in.		
Gimbal Point to Exit Plane	<u>56.0</u>	<u>1.120</u>
Throat to Exit Plane	<u>--</u>	<u>--</u>
Diameter ~ in.		
Exit (O.D.)	<u>50.0</u>	<u>1.0</u>
Throat	<u>-----</u>	<u>-----</u>
Inlet	<u>-----</u>	<u>-----</u>
Area ~ ft ² .		
Exit	<u>-----</u>	<u>-----</u>
Throat	<u>-----</u>	<u>-----</u>
Gimbal Point (station) ~ in.		
X ₀	<u>1518.00</u>	<u>30.36</u>
Y ₀	<u>88.0</u>	<u>1.76</u>
Z ₀	<u>492.0</u>	<u>9.84</u>
Null Position ~ deg.		
Pitch	<u>15°49'</u>	<u>15°49'</u>
Yaw	<u>6°30'</u>	<u>6°30'</u>

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TABLE III (CONT'D)

MODEL COMPONENT: ELECTRICAL TUNNEL - PS₁₁

GENERAL DESCRIPTION: Tunnel running longitudinally on the SRB for electrical wires.

MODEL SCALE: 0.020

DRAWING NO.: VC77-000002

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Width, In.	5.70	0.114
Radius, In.	5.70	0.114
Height, In.	4.70	0.094
Leading edge at Sta.	494.70	9.894
L.E. sweepback angle, degrees	30.0	30.0

TABLE III (CONT'D)

MODEL COMPONENT: CIRCUMFERENTIAL STIFFENER- PS₁₂

GENERAL DESCRIPTION: Four ring stiffeners located at the aft end of the solid rocket boosters. The stiffener is a curved I-beam.

DRAWING NO.: VC77-000002

MODEL SCALE: 0.020

DIMENSIONS:

		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Height, In.		2.5	0.05
Length, In.		2.0	0.04
Locations:	$X_B =$	1602.00	32.04
		1644.00	32.88
		1729.00	34.58
		1771.00	35.42

TABLE III (CONT'D)

MODEL COMPONENT: CIRCUMFERENTIAL STIFFENER - PS₁₃

GENERAL DESCRIPTION: Ring stiffener located at the point where the skirt flares. The stiffener is I-beam.

MODEL SCALE: 0.020

DRAWING NO.: VC77-000002

DIMENSIONS:

		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Height, In.		6.50	0.130
Length, In.		4.00	0.08
Location centerline	$X_B =$	1833.70	36.674

TABLE III (CONT'D)

MODEL COMPONENT: SOLID ROCKET BOOSTER - EXTERNAL TANK ATTACH - PS₁₄

GENERAL DESCRIPTION: Two-ring stiffeners located at aft end of solid rocket boosters. The stiffener is curved I-beam.

MODEL SCALE: 0.020

DRAWING NO.: VC77-000002

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Height, In.	8.00	0.160
Length, In.	3.00	0.060
Location centerline	X _B 1511.00	30.22

TABLE III (CONT'D)

MODEL COMPONENT: SRB PROTUBERANCE - PS₁₇

GENERAL DESCRIPTION: Electrical connecting box mounted on top of PS₁₄.

MODEL SCALE: 0.020

DRAWING NO.: NONE

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Width, In.	60.0	1.20
Depth, In.	17.5	0.35

Centerline of box located 15° inboard from vertical plane of symmetry.

TABLE III (CONT'D)

MODEL COMPONENT: SRB PROTUBERANCE - PS₁₈

GENERAL DESCRIPTION: Tie-down fixtures mounted on the aft skirt. Total of four mounted 30° on both sides of vertical plane of symmetry.

MODEL SCALE: 0.020

DRAWING NO.: NONE

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Sta. of leading edge (X_B)	1861.2	37.224
Sta. of T.E. (X_B)	1925.2	38.504
Max. width, In.	14.2	0.284
Height, in.	8.3	0.166

TABLE III (CONT'D)

MODEL COMPONENT: SRB PROTUBERANCES - PS₁₉

GENERAL DESCRIPTION: Aft separation motor pod mounted on aft skirt at 20°
inboard from top vertical plane of symmetry.

MODEL SCALE: 0.020

DRAWING NO.: NONE

DIMENSIONS:	FULL SCALE	MODEL SCALE
Width, In.	14.0	0.28
Height, In. (at Trailing edge)	19.0	0.38
Sweepback of leading edge, deg.	15.0	15.0

TABLE III (CONT'D)

MODEL COMPONENT: ET PROTUBERANCE - PT₁₂

GENERAL DESCRIPTION: Lightning rod attached to ET nose.

MODEL SCALE: 0.020

DRAWING NO.: VL78-000068A

<u>DIMENSIONS:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length	30.90	0.618
Diameter, In.	3.20	0.074

TABLE III (CONT'D)

MODEL COMPONENT: ELECTRICAL CONDUIT PT₂₂

GENERAL DESCRIPTION: Left-hand electrical conduit line on T₂₈.

MODEL SCALE: 0.020

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

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	1084.333	21.687
	Y _T	- 99.591	- 1.992
	Z _T	- 139.620	- 2.792
Trailing edge at:	X _T	2058.000	41.16
	Y _T	- 99.591	- 1.992
	Z _T	- 139.620	- 2.792
Conduit size:		2.0 x 6.0	0.04 x 0.12
Centerline of line located radially at $\phi = 35.5^\circ$			

TABLE III (CONT'D)

MODEL COMPONENT: LO₂ RECIRCULATION LINE - PT₂₃

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

MODEL SCALE: 0.020

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

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	1040.667	20.813
	Y _T	94.169	1.883
	Z _T	540.934	10.819
Trailing edge at:	X _T	2062.920	41.258
	Y _T	70.000	1.400
	Z _T	573.934	11.479
Diameter of Line		4.0	0.08

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

(Right of TDC looking forward).

TABLE III (CONT'D)

MODEL COMPONENT: LH₂ PRESSURE LINE - P₂₄

GENERAL DESCRIPTION: LH₂ pressure line on T₂₈.

MODEL SCALE: 0.020

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

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	1040.667	20.813
	Y _T	- 94.169	- 1.884
	Z _T	540.934	10.819
Trailing edge at:	X _T	2062.920	41.258
	Y _T	- 70.00	-1.40
	Z _T	573.934	11.479
Diameter of line		4.0	0.080
Centerline of line located radially at $\phi = 33^{\circ}45'$			
(Left of TDL looking forward)			

TABLE III (CONT'D)

MODEL COMPONENT: ELECTRICAL CONDUIT FT₂₅

GENERAL DESCRIPTION: Right-hand aft electrical conduit line on T₂₈ with LH₂ pressure sensor line and LO₂ vent valve actuator line.

MODEL SCALE: 0.020

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

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	1084.333	21.687
	Y _T	99.591	1.992
	Z _T	139.620	2.792
Trailing edge at:	X _T	2058.00	41.160
	Y _T	99.591	1.992
	Z _T	139.620	2.792
Conduit size		2.0 x 6.0	0.4 x 0.12
Centerline of line located radially at $\phi = 35.5^\circ$			

TABLE III (CONT'D)

MODEL COMPONENT: LO₂ PRESSURE LINE - PI₂₆

GENERAL DESCRIPTION: LO₂ pressure line on the T₂₈.

MODEL SCALE: 0.020

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

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	360.733	7.215
	Y _T	15.145	0.3029
	Z _T	407.718	8.154
Trailing edge at:	X _T	2063.5	41.670
	Y _T	63.25	1.265
	Z _T	609.00	12.180
Centerline of line located radially at $\phi = 27^\circ$			
Line diameter		2.0	0.040

TABLE III (CONT'D)

MODEL COMPONENT: ELECTRICAL CONDUIT FT₂₇

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

MODEL SCALE: 0.020

DRAWING NO.: VL78-000062B

DIMENSIONS:

		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	360.733	7.215
	Y _T	11.549	0.2310
	Z _T	412.474	8.249
Trailing edge at:	X _T	876.273	17.525
	Y _T	226.114	..522
	Z _T	646.774	12.935

Centerline of conduit located radiatly at $\phi = 47.5^\circ$

Conduit size 2.0 x 6.0 0.04 x 0.12

*REVISED 6/1/74

TABLE III (CONT'D)

MODEL COMPONENT : RUDDER - R₅

GENERAL DESCRIPTION : Configuration 140C rudder.

MODEL SCALE: 0.020

DRAWING NUMBER VL70-000146B

DIMENSIONS	FULL SCALE	MODEL SCALE
Area - Ft ²	<u>100.15</u>	<u>0.04006</u>
Span (equivalent) , In.	<u>201.00</u>	<u>4.02</u>
Inb'd equivalent chord , In.	<u>91.585</u>	<u>1.832</u>
Outb'd equivalent chord , In.	<u>50.833</u>	<u>1.017</u>
Ratio movable surface chord/ total surface chord	<u> </u>	<u> </u>
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	<u> </u>	<u> </u>
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>
(Product of area & \bar{c})	<u> </u>	<u> </u>
Area Moment (Normal to hinge line), Ft ³	<u>610.92</u>	<u>0.00489</u>
Mean Aerodynamic Chord, In .	<u>73.2</u>	<u>1.464</u>

TABLE III (CONT'D)

MODEL COMPONENT : SOLID ROCKET BOOSTER - S₂₂

GENERAL DESCRIPTION : SOLID ROCKET BOOSTER - S₂₂

MODEL SCALE: 0.020

DRAWING NUMBER : VI77-000002, VC70-000002

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length, In.	<u>1789.6</u>	<u>35.792</u>
Max Width (Body dia), In.	<u>146.0</u>	<u>2.92</u>
Max Depth (aft shroud dia.,)	<u>208.2</u>	<u>4.164</u>
Fineness Ratio	<u>8.596</u>	<u>8.596</u>
Area - Ft ²	<u> </u>	<u> </u>
Max. Cross-Sectional	<u>236.423</u>	<u>0.094569</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>
W.P. of SRB Centerline (Z _T)	<u>400.00</u>	<u>8.0</u>
F.S. of SRB Centerline (X _T)	<u>743.0</u>	<u>14.86</u>
B.P. of SRB Centerline (Y _T)	<u>250.5</u>	<u>5.01</u>

TABLE III (CONT'D)

MODEL COMPONENT: EXTERNAL TANK - T₂₈

GENERAL DESCRIPTION: _____

DRAWING NUMBER VC70-000002, VC78-000002

<u>DIMENSION:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length, In.	<u>1844.275</u>	<u>36.8855</u>
Max Width, Dia., In.	<u>331.00</u>	<u>6.620</u>
Max Depth	<u> </u>	<u> </u>
Fineness Ratio	<u>5.687</u>	<u>5.687</u>
Area		
Max Cross-Sectional	<u>594.678</u>	<u>0.23787</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III (CONT'D)

MODEL COMPONENT: VERTICAL - V₈

GENERAL DESCRIPTION: Configuration 140C vertical tail.

MODEL SCALE: 0.020

DRAWING NUMBER: VL70-000146B W/O Dragchute

DIMENSIONS: FULL SCALE MODEL SCALE

TOTAL DATA

Area (Theo) - Ft ²	<u>413.253</u>	<u>0.2053</u>
Planform	<u>315.72</u>	<u>7.3144</u>
Span (Theo) - In.	<u>1.675</u>	<u>1.675</u>
Aspect Ratio	<u>0.507</u>	<u>0.507</u>
Rate of Taper	<u>0.404</u>	<u>0.404</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>47.13</u>	<u>47.13</u>
Chords:		
Root (Theo) WP	<u>268.50</u>	<u>5.370</u>
Tip (Theo) WP	<u>108.47</u>	<u>2.1694</u>
MAC	<u>199.81</u>	<u>3.9962</u>
Fus. Sta. of .25 MAC	<u>1463.35</u>	<u>29.2570</u>
W.P. of .25 MAC	<u>635.52</u>	<u>12.710</u>
B.L. of .25 MAC	<u>0.0</u>	<u>0.0</u>
Airfoil Section		
Leading Wedge Angle - Deg.	<u>10.0</u>	<u>10.0</u>
Trailing Wedge Angle - Deg.	<u>14.92</u>	<u>14.92</u>
Leading Edge Radius	<u>2.0</u>	<u>0.04</u>
Void Area - Ft ²	<u>13.17</u>	<u>0.005268</u>
Blanketed Area	<u>0.0</u>	<u>0.0</u>

TABLE III (CONL'D)

MODEL COMPONENT: WING-W₁₂₇

GENERAL DESCRIPTION: Configuration 140C orbiter wing, MCR 200-74; similar to 140A/B wing W₁₂₆ but with refinements. Improved wing-root-midbody fairing ($X_0 = 94.0$ to $X_0 = 154.0$); elevon split line relocated from $Y_0 = 281$ to $Y_0 = 312.5$.

MODEL SCALE: 0.020

TEST NO.

DWG. NO. VL70-000140C, -000200B

DIMENSIONS:

FULL-SCALE

MODEL SCALE

TOTAL DATA

Area (Theo.) Ft²

Planform

2690.00

1.076

Span (Theo) In.

936.43

18.733

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.

689.24

13.785

Tip, (Theo) B.P.

137.85

2.757

MAC

474.81

9.496

Fus. Sta. of .25 MAC

1136.83

22.737

W.P. of .25 MAC

290.58

5.812

B.L. of .25 MAC

182.13

3.643

EXPOSED DATA

Area (Theo) Ft²

1751.50

0.7005

Span, (Theo) In. BP108

720.68

14.414

Aspect Ratio

2.050

2.050

Taper Ratio

0.245

0.245

Chords

Root BP108

562.00

11.240

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

120.00

2.400

MAC

302.03

7.357

Fus. Sta. of .25 MAC

1184.02

23.720

W.P. of .25 MAC

294.00

5.880

B.L. of .25 MAC

251.00

5.025

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

0.0453

Leading Edge Intersects Fus M. L. @ Sta

500.00

10.00

Leading Edge Intersects Wing @ Sta

1024.00

20.480

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Table IV Orbiter Fuselage Pressure Tap Numbers and Locations

ORBITER $X_0 \sim$ IN.			RADIAL LOCATION $\sim \phi$, DEGREES										NO OF TAPS
FULL SCALE	MODEL SCALE	X_0/l_B	0	320	290	270	255	240	225	210	195	180	
880	17.60	0.500			303	302				301			3
1080	21.60	0.653		312	311	310	309	308	307	306	305	304	8
1180	23.60	0.730		321	320	319	318	317	316	315	314	313	8
1245	24.90	0.781		330	329	328	327	326	325	324	323	322	10
1300	26.00	0.823		339	338	337	336	335	334	333	332	331	10
1375	27.50	0.882	348	347	346	345	344	343	342	341	340		9
1430	28.60	0.923	357	356	355	354	353	352	351	350	349		9
1480	29.60	0.953	366	365	364	363	362	361	360	359	358		9
1530	30.60	1.002	LOCATION OFF OMS POD				368	367	LOCATION OFF OMS POD)				2
													68

	Vertical $W_L \sim Z_o$			$X/C_v \sim$ LOCAL CHORD								NO. TAPS
	FULL SCALE	MODEL SCALE	η_v	0	0.025	0.050	0.150	0.300	0.520	0.750	0.900	
RIGHT SIDE	550	11.0	0.158	401	402	403	404	405	406	407	--	7
	600	12.0	0.316	408	409	410	411	412	413	414	415	8
	690	13.8	0.600	416	417	418	419	420	421	422	423	8
	765	15.3	0.840	424	425	426	427	428	429	430	431	8
	792	15.84	0.925	432	433	434	435	436	437	438	439	<u>8</u>
TOTAL VERTICAL TAPS											39	

BODY FLAP

ORBITER $\sim X_o$			$\phi \sim$ DEGREES		NO. TAPS
FULL SCALE	MODEL SCALE	SURFACE	0	320	
1555	31.1	UPPER	382	383	2
1555	31.1	LOWER	386	387	2
1590	31.8	UPPER	384	385	2
1590	31.8	LOWER	388	389	2
TOTAL BODY FLAP					8

NOTE: Base Pressure Tap Locations TBD.

OMS PODS
VERTICAL &
ORBITER BASE

(13 TAPS
TOTAL)

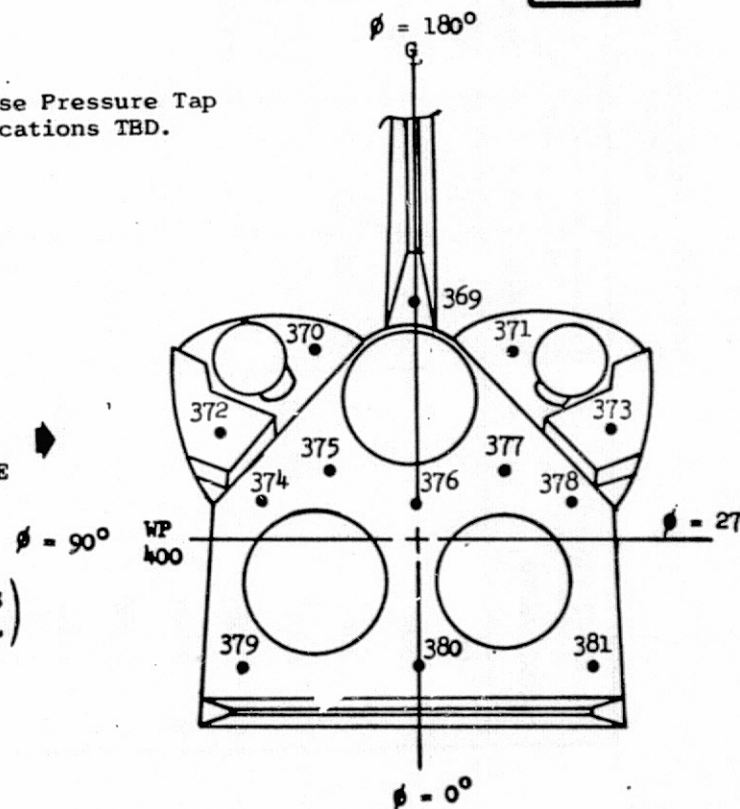


Table V Orbiter Base, Vertical Tail and Body Flap Pressure Tap Numbers and Locations

Table VI Orbiter Right Wing Pressure Tap
Numbers and Locations

RIGHT WING X/C LOCAL CHORD	$\eta = 0.299$ $Y_0 = 2.8$ in M.S.	$\eta = 0.364$ $Y_0 = 3.4$ IN M.S.	$\eta = 0.427$ $Y_0 = 4.0$ IN M.S.	$\eta = 0.534$ $Y_0 = 5.0$ IN M.S.	$\eta = 0.641$ $Y_0 = 6.0$ IN M.S.	$\eta = 0.780$ $Y_0 = 7.30$ IN M.S.	$\eta = 0.887$ $Y_0 = 8.3$ IN M.S.
0*	101	112	118	131	144	155	164
0.02			119,216	132,228	145,240	156,250	165,258
0.04		113,211	120,217				
0.05	102,201			133,229	146,241	157,251	166,259
0.08				134,230			
0.081			121,218				
0.086		114,212					
0.094	103,202						
0.150				135,231	147,242	158,252	167,260
0.163		115,213					
0.177			122,219				
0.229	104,203						
0.246		116,214					
0.250				136,232	148,243	159,253	168,261
0.274			123,220				
0.362	105,204						
0.390		117,215					
0.400				137,233	149,244		169,262
0.402			124,221				
0.497	106,205						

* TAPS AT X/C = 0 ARE LOCATED ON WING LEADING EDGE

NOTE: 100 SERIES NUMBERS LOCATED ON TOP OF WING.

200 SERIES NUMBERS LOCATED ON BOTTOM OF WING.

Table VI (Continued)

RIGHT WING X/C	$\eta = .299$ $Y_o = 2.8$ IN M.S.	$\eta = 0.364$ $Y_o = 3.4$ IN M.S.	$\eta = 0.427$ $Y_o = 4.0$ IN M.S.	$\eta = 0.534$ $Y_o = 5.0$ IN M.S.	$\eta = 0.641$ $Y_o = 6.0$ IN M.S.	$\eta = 0.780$ $Y_o = 7.30$ IN M.S.	$\eta = 0.887$ $Y_o = 8.3$ IN M.S.
0.55				138,234	150,245		
0.565			125,222				
0.60							170,263
0.65						160,254	
0.70	107,206				151,246		
0.725				139,235			
0.75						161,255	171,264
0.760			126,223				
0.775				140,236	152,247		
0.808			127,224				
0.834	108,207						
0.85				141,237	153,248	162,256	
0.857			128,225				
0.865	109,208						
0.90	110,209			142,238			172,265
0.905			129,226		154,249		
0.95				143,239		163,257	
0.953			130,227				
0.965	111,210						

NOTE: 100 SERIES NUMBERS LOCATED ON TOP OF WING

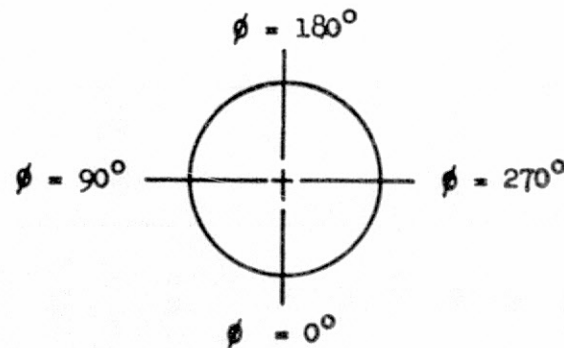
200 SERIES NUMBERS LOCATED ON BOTTOM OF WING

TOTAL NUMBER OF TAPS = 137

Table VII External Tank Pressure Tap Numbers and Locations

ET STATION ~ X_T			$\phi \sim$ DEGREES															
FULL SCALE	MODEL SCALE	X_T/l_T	0	30	60	90	120	135	150	165	180	195	210	225	240	270	300	330
1500	30.0	0.634				502										501		
1700	34.0	0.742		504	505	506	507	508	509	510						503		
1900	38.0	0.851	518	519	520	521	522	523	524	525		511	512	513	514	515	516	517
2040	40.8	0.986	533	534	535	536	537	538	539	540		526	527	528	529	530	531	532
TANK BASE @ \mathcal{C}											541							
TANK BASE @ 1/3 RAD			550	551	552	553	554	555	556	557	542	543	544	545	546	547	548	549
TANK BASE @ 2/3 RAD			566	567	568	569	570	571	572	573	558	559	560	561	562	563	564	565

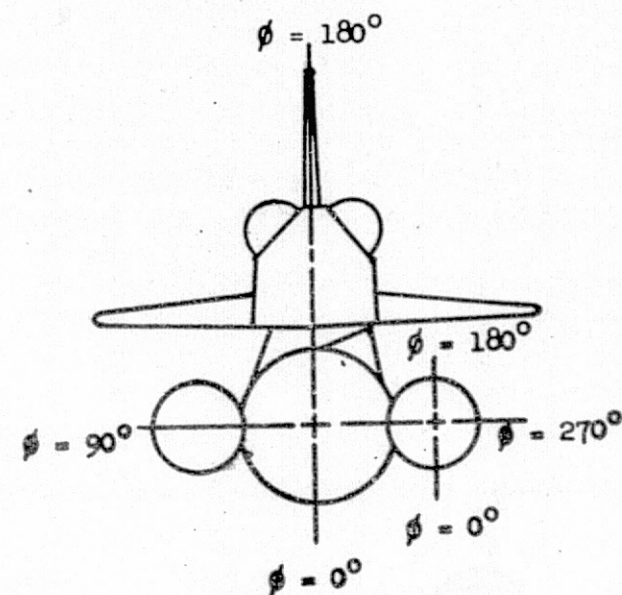
TOTAL NO. TAPS= 73



VIEW LOOKIG VIEW LOOKING FORWARD

Table VIII SRB Pressure Tap Numbers and Locations

SRB STATION ~ X_B			ϕ ~ DEGREES				NO. TAPS
FULL SCALE	MODEL SCALE	X_B/l_B	0	90	180	270	
1450	29.0	0.700	603	604	601	602	4
1650	33.0	0.811	607	608	605	606	4
1850	37.0	0.923	611	612	609	610	4
1890	37.8	0.945	615	616	613	614	4
1930	38.6	0.968	619	620	617	618	4
SKIRT BASE			623	624	621	622	4
TOTAL NO. SRB TAPS							24



ET & SRB RADIAL LOCATIONS

$l = 1789.6$ in/s = 35.792 inms

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

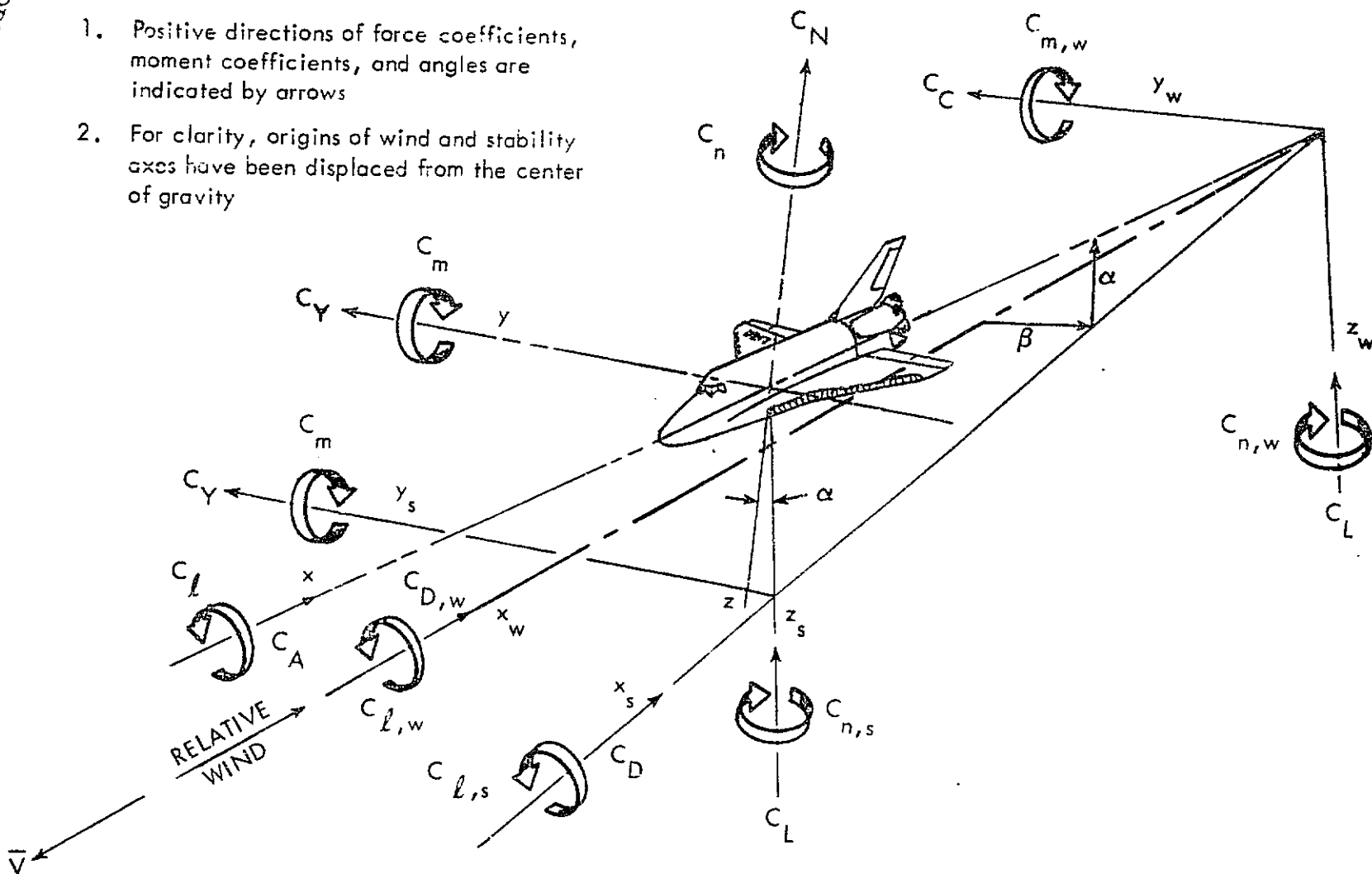


Figure 1. - Axis systems.

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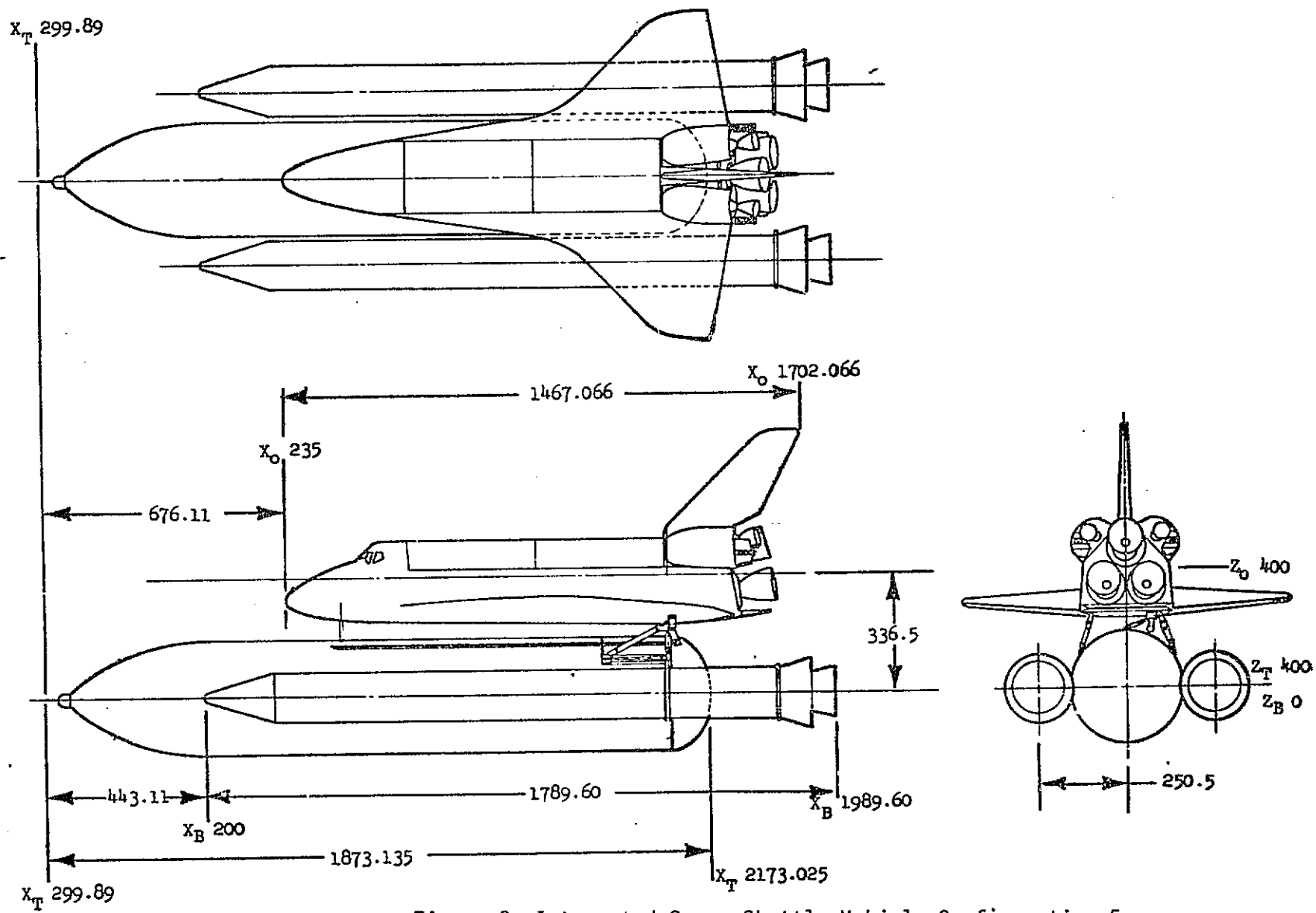
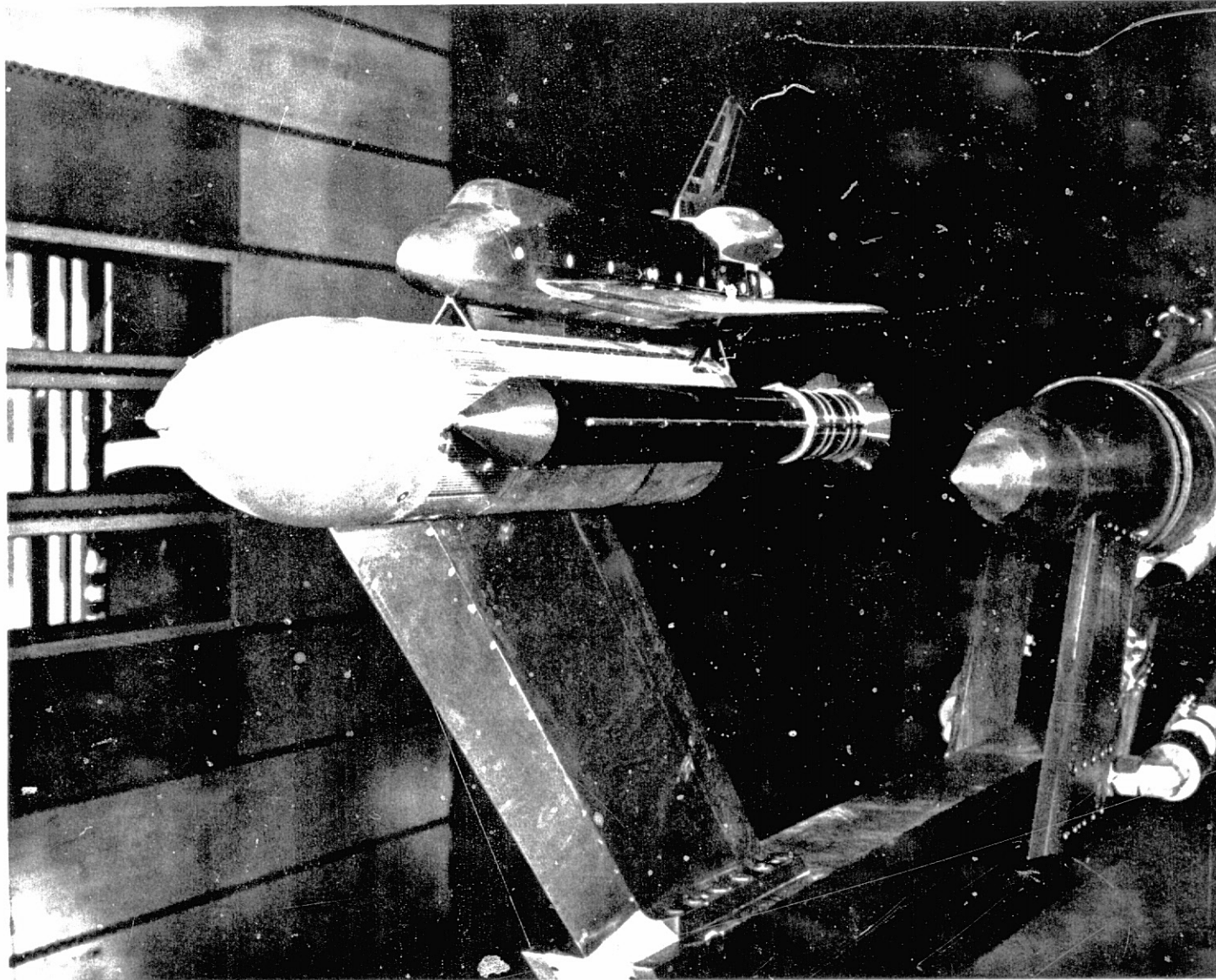
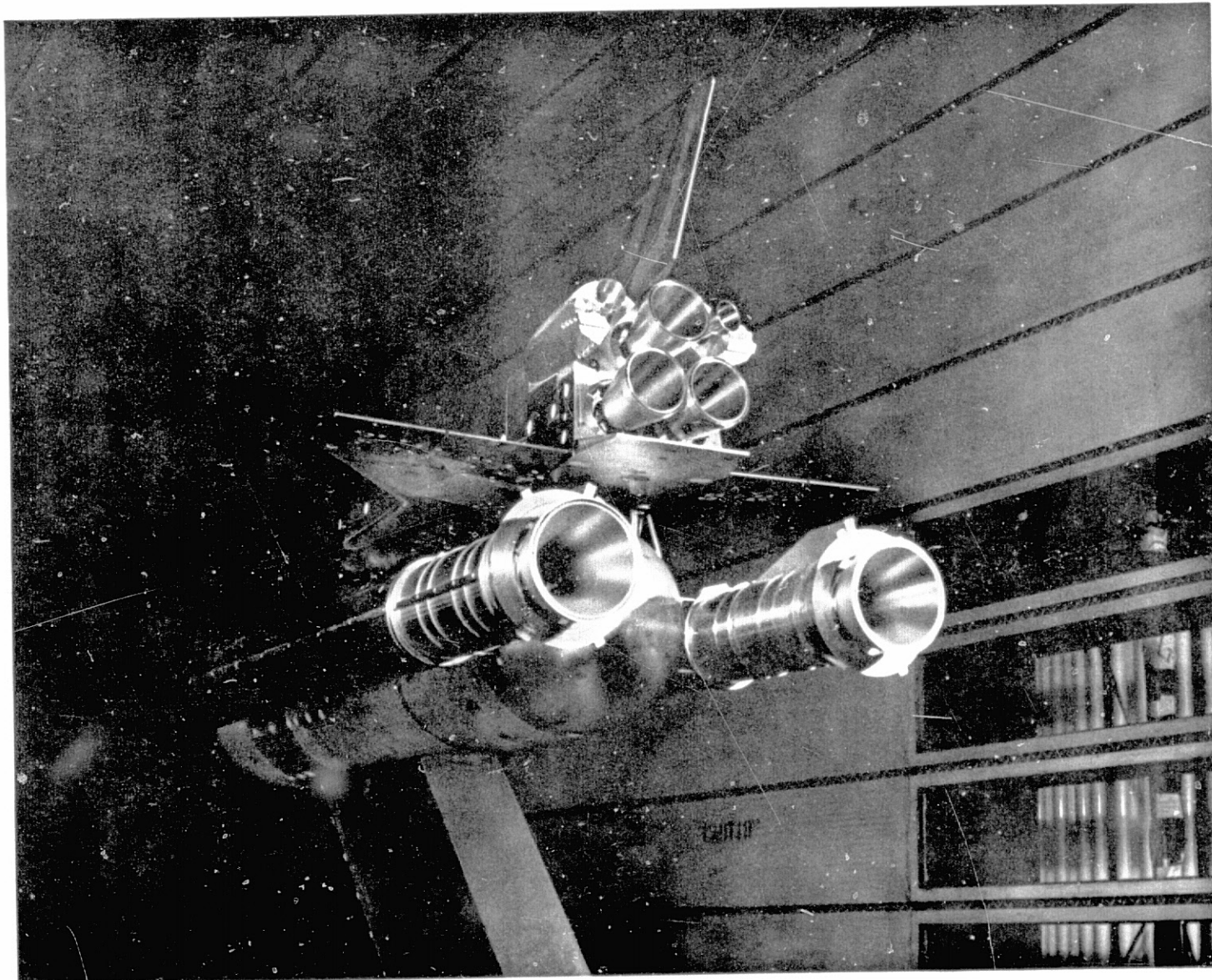


Figure 2. Integrated Space Shuttle Vehicle Configuration 5



a. Model 88-OTS Installation, Front View

Figure 3. - Model photographs.



b. Model 88-OTS installation, Rear View

Figure 3. - Concluded.

APPENDIX
TABULATED SOURCE PRESSURE DATA

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

ARC11-0141A19 OTS+STRUT SRB-OFF MPS-OFF ORB BODY

(REUS01) (19 OCT 74)

REFERENCE DATA

3REF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -3.993 BETA (1) = .000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0868	.1191	.3135	.5150				
195.000		.0336	.1149	.3215	.4811	-.0834	-.3014	-.2397	
210.000	.0210	.0304	.0000	.3221	.4556	-.2620	-.3096	-.4233	
225.000		.0262	.0000	.2924	.3621	-.3274	-.3618	-.3685	
240.000		.0091	.0000	.1884	.1665	-.3614	-.5355	-.5321	-.2316
255.000		-.0130	-.0065	.1175	.1312	-.4536	-.4800	-.4383	-.2348
270.000	.0404	-.0358	-.0375	.0527	.1059	-.2494	-.3995	-.3492	
290.000	.0467	-.0728	-.0890	-.0258	.0829	-.3220	-.3710	-.2063	
320.000		.0000	.0000	.0000	.0000	-.4090	-.3294	-.2976	
360.000						-.3624	-.3282	-.3232	

ALPHA (2) = -.216 BETA (1) = -4.006

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0110	.0442	.2572	.3256				
195.000		-.0574	.0466	.2444	.3337	-.2439	-.5173	-.2661	
210.000	-.0321	-.0422	.0000	.2395	.3668	-.4452	-.5543	-.5286	
225.000		-.0382	.0000	.1920	.2863	-.5139	-.5635	-.5519	
240.000		-.0398	.0000	.0936	.0565	-.5867	-.7085	-.6948	-.2468
255.000		-.0526	-.0473	.0457	.0197	-.5569	-.5859	-.5264	-.2351
270.000	-.0055	-.0673	-.0724	-.0099	.0109	-.3465	-.4712	-.4217	
290.000	-.0094	-.0661	-.1246	-.0863	-.0045	-.4220	-.4551	-.3648	
320.000		.0000	.0000	.0000	.0000	-.4088	-.3487	-.3162	
360.000						-.3794	-.3145	-.3237	

ALPHA (2) = -.336 BETA (2) = .006

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0148	.0866	.2652	.4947				
195.000		-.0164	.0629	.2715	.4353	-.1460	-.3658	-.2227	
210.000	.0038	-.0225	.0000	.2676	.4162	-.3109	-.3629	-.4061	
225.000		-.0375	.0000	.2353	.3684	-.3669	-.4163	-.3956	
240.000		-.0497	.0000	.1630	.2362	-.3842	-.5509	-.4340	-.2203
255.000		-.0882	-.0921	.0886	.1147	-.4619	-.5307	-.2517	-.2316
270.000	.0162	-.1228	-.1372	.0168	.0886	-.2713	-.4043	-.2723	
290.000	.0203	-.0845	-.1975	-.0734	.0606	-.3467	-.3858	-.2529	
320.000		.0000	.0000	.0000	.0000	-.4134	-.3083	-.2775	
360.000						-.3450	-.3096	-.3079	

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ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF CRB BODY

(REUB01)

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.222 BETA (3) = 4.025

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0285	.0491	.2600	.3264				
195.000		-.0791	.0392	.2917	.3198	.0453	-.1468	-.2446	
210.000	-.0370	-.0966	.0000	.3210	.2317	-.2197	-.1625	-.3124	
225.000		-.1283	.0000	.3202	.2706	-.2896	-.1796	-.2253	
240.000		-.1757	.0000	.2415	.1996	-.2858	-.2230	-.2929	-.2322
255.000		-.1698	-.1822	.1068	.2032	-.3538	-.3319	-.2614	-.2495
270.000	.0366	-.1937	-.2256	.0160	.1650	-.1815	-.3142	-.2178	
290.000	.0483	-.1193	-.2921	-.0789	.1163	-.2513	-.2541	-.2100	
320.000		.0000	.0000	.0000	.0000	-.4175	-.3441	-.3160	
360.000						-.2309	-.3270	-.3169	

ALPHA (3) = 3.948 BETA (1) = .000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0084	.0034	.2015	.4246				
195.000		-.0704	.0019	.2076	.3843	-.1907	-.4144	-.2168	
210.000	-.0029	-.0834	.0000	.1976	.4378	-.3656	-.4277	-.3285	
225.000		-.1042	.0000	.1741	.3197	-.4329	-.4817	-.2467	
240.000		-.1405	.0000	.1227	.1475	-.4319	-.6023	-.2635	-.2076
255.000		-.1784	-.2091	.0591	.0601	-.4798	-.5589	-.2123	-.2268
270.000	-.0045	-.2139	-.2760	-.0379	.0469	-.2937	-.4019	-.2172	
290.000	-.0041	-.0978	-.3487	-.1373	.0329	-.3785	-.4072	-.2233	
320.000		.0000	.0000	.0000	.0000	-.4106	-.2919	-.2702	
360.000						-.3317	-.3001	-.2869	

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF ORB BODY

(REUS02) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.176	BETA (1) = .000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		-.2970	.2928	.5159	.6432				
		195.000		.1837	.3072	.4674	.6424	.1983	-.0347	-.3652	
		210.000	-.0986	.1935	.0000	.4984	.5207	.0251	-.0560	-.1994	
		225.000		.1753	.0000	.5013	.4595	-.0271	-.1014	-.1125	
		240.000		.1317	.0000	.3971	.2267	-.0480	-.2385	-.2346	-.3713
		255.000		.1498	.2277	.3893	.3235	-.1249	-.1728	-.2385	-.4097
		270.000	-.0697	.1036	.1475	.3233	.3103	.0331	-.1167	-.2306	
		290.000	-.0470	-.0168	.1091	.2542	.3009	-.0256	-.0840	-.3526	
		320.000		.0000	.0000	.0000	.0000	-.4756	-.4349	-.4044	
		360.000						-.3817	-.3978	-.3799	
ALPHA (2) = -.294	BETA (1) = -4.003	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.0010	.2606	.4248	.4634				
		195.000		.2542	.2945	.4068	.4658	.0492	-.2363	-.4194	
		210.000	.1892	.2890	.0000	.4057	.4161	-.1521	-.2705	-.3781	
		225.000		.2293	.0000	.3875	.3403	-.1998	-.2766	-.2856	
		240.000		.1572	.0000	.2508	.0738	-.2313	-.3937	-.3939	-.4410
		255.000		.2400	.1911	.2610	.1860	-.2341	-.2682	-.3291	-.4653
		270.000	.1700	.2599	.1440	.2464	.2323	-.0529	-.1842	-.3169	
		290.000	.1415	.0906	.1053	.1728	.2256	-.1126	-.1786	-.4080	
		320.000		.0000	.0000	.0000	.0000	-.4408	-.4368	-.4409	
		360.000						-.3759	-.3960	-.3725	
ALPHA (2) = -.252	BETA (2) = .009	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		-.1168	.3375	.4641	.5430				
		195.000		.1955	.3304	.4517	.5545	.1810	-.0499	-.3588	
		210.000	-.0178	.1925	.0000	.4327	.4601	.0363	-.0752	-.2231	
		225.000		.1674	.0000	.4402	.4500	-.0437	-.1219	-.1425	
		240.000		.1683	.0000	.3888	.3424	-.0719	-.2412	-.2385	-.3627
		255.000		.1139	.1547	.3199	.3173	-.1270	-.2019	-.2527	-.4073
		270.000	.0156	.0873	.1123	.2903	.3059	.0316	-.1140	-.2413	
		290.000	.0327	.0207	.0481	.2211	.2924	-.0354	-.0741	-.3605	
		320.000		.0000	.0000	.0000	.0000	-.4537	-.4229	-.3798	
		360.000						-.3503	-.3545	-.3432	

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF CRB BODY

(REUB02)

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.225 BETA (3) = 4.028

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0000	.2919	.4059	.4384				
195.000		.1185	.2659	.4185	.4199	.3182	.0826	-.3889	
210.000	.0052	.0821	.0000	.4400	.3961	.0367	.0218	-.1320	
225.000		.0681	.0000	.4434	.4038	-.0520	-.0628	-.0541	
240.000		.0286	.0000	.3621	.2931	-.0140	-.1688	-.1584	-.3544
255.000		.0892	-.1451	.2384	.3009	-.0686	-.1700	-.2243	-.4193
270.000	.1613	.1299	-.1622	.1052	.2800	.0641	-.0603	-.2151	
290.000	.1646	.0708	-.1923	-.0864	.2887	.0136	-.0334	-.3455	
320.000		.0000	.0000	.0000	.0000	-.4805	-.4680	-.4811	
360.000						-.3341	-.3977	-.3966	

ALPHA (3) = 4.026 BETA (1) = .000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0084	.1968	.4279	.5435				
195.000		.1661	.1890	.4365	.5244	.1110	-.1281	-.3898	
210.000	.1086	.1298	.0000	.3952	.4239	-.0823	-.1522	-.2798	
225.000		.1057	.0000	.3950	.4054	-.1472	-.1959	-.1993	
240.000		.0712	.0000	.3351	.2242	-.1201	-.2936	-.2911	-.3868
255.000		.0459	-.0547	.2881	.2222	-.1615	-.2594	-.2968	-.4299
270.000	.0988	.0172	-.0860	.1589	.2252	-.0097	-.1360	-.2740	
290.000	.0783	.0450	-.1485	-.0175	.2263	-.0771	-.1220	-.3837	
320.000		.0000	.0000	.0000	.0000	-.4638	-.4615	-.4195	
360.000						-.3655	-.3692	-.3586	

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF CRB BODY

(REUB03) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.182 BETA (1) = .003

X/L	.500	.655	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.9271	.0708	.4217	.5106				
195.000		-.0193	.0657	.4253	.5037	.3027	.0502	-.3069	
210.000	-.1287	-.0116	.9357	.4204	.4085	.0924	.0067	-.1195	
225.000		.0037	.0000	.3820	.3636	.0048	-.0514	-.0583	
240.000		.0229	.0000	.2972	.0924	-.0084	-.1883	-.1874	-.2720
255.000		.0357	-.0364	.2748	.1892	-.0976	-.1195	-.1504	-.2889
270.000	-.0503	.0275	-.0699	.2043	.2089	.0563	-.0484	-.1278	
290.000	-.0358	-.0314	-.1024	.1282	.2191	-.0152	-.0311	-.2239	
320.000		.0000	.0000	.0000	.0000	-.3801	-.3648	-.3656	
360.000						-.3015	-.3032	-.2904	

ALPHA (2) = -.291 BETA (1) = -3.997

X/L	.500	.655	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.5373	.0099	.3085	.3307				
195.000		-.0275	.0555	.2884	.3449	.1567	-.1100	-.3521	
210.000	-.1646	-.0283	.5185	.2714	.2755	-.0224	-.1608	-.2713	
225.000		-.0190	.0000	.2584	.2845	-.0712	-.1865	-.2105	
240.000		-.0071	.0000	.2062	.0033	-.1162	-.3103	-.3397	-.3559
255.000		.0058	-.0137	.2159	.1240	-.1720	-.1896	-.2336	-.3558
270.000	-.0695	.0025	-.0733	.1406	.1806	-.0022	-.1050	-.2111	
290.000	-.0663	-.0125	-.1302	.0693	.2005	-.0595	-.1117	-.2647	
320.000		.0000	.0000	.0000	.0000	-.3543	-.3422	-.3369	
360.000						-.2890	-.3098	-.3028	

ALPHA (2) = -.177 BETA (2) = .016

X/L	.500	.655	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.3037	.1108	.3197	.4071				
195.000		-.0064	.1210	.3002	.4048	.2491	.0181	-.3046	
210.000	-.1235	-.0020	.3262	.2672	.3504	.0985	-.0332	-.1618	
225.000		.0041	.0000	.2576	.3481	.0413	-.0837	-.1070	
240.000		.0167	.0000	.2343	.2326	-.0391	-.2055	-.2206	-.2960
255.000		.0310	-.0765	.1581	.1711	-.1112	-.1747	-.1913	-.2997
270.000	-.0596	.0096	-.1173	-.0342	.1582	.0290	-.0668	-.1582	
290.000	-.0503	-.0171	-.1700	-.1456	.1794	-.0424	-.0360	-.2393	
320.000		.0000	.0000	.0000	.0000	-.3610	-.3707	-.3745	
360.000						-.2680	-.2876	-.2830	

ORIGINAL PAGE IS
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ARC11-014IA19 OTS+STRUT BRB-OFF MPB-OFF CRB BODY

(REUB05)

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.368 BETA (3) = 4.031		X/L	.500	.653	.750	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		.1735	-.0049	.3090	.3437				
		195.000		-.0298	-.0380	.3165	.3806	.4145	.1595	-.3052	
		210.000	-.1468	-.0286	.1514	.3205	.3005	.0491	.0715	-.0572	
		225.000		-.0421	.0000	.3065	.2863	-.0165	-.0298	.0007	
		240.000		-.0690	.0000	.2601	.1636	.0260	-.1585	-.1185	-.2519
		255.000		.0175	-.1333	.1014	.1425	-.0491	-.1336	-.1684	-.2871
		270.000	-.0259	.0244	-.1613	-.1374	.0937	.0461	-.0288	-.1323	
		290.000	-.0104	-.0386	-.2026	-.2357	.0789	.0038	.0114	-.2176	
		320.000		.0000	.0000	.0000	.0000	-.3636	-.3688	-.4305	
		360.000						-.2433	-.3075	-.2912	
ALPHA (3) = 3.043 BETA (1) = .003		X/L	.500	.653	.750	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		.0699	.0967	.3063	.4183				
		195.000		.0076	.0950	.2919	.3859	.1837	-.0405	-.3371	
		210.000	-.1061	.0060	.1331	.2916	.2914	-.0172	-.0878	-.2075	
		225.000		.0134	.0000	.2907	.2758	-.0952	-.1499	-.1308	
		240.000		.0109	.0000	.2522	.1288	-.0722	-.2418	-.2335	-.3138
		255.000		.0206	-.1179	.1535	.1111	-.1167	-.1701	-.2279	-.3173
		270.000	-.0916	-.0003	-.1610	-.0440	.0757	-.0075	-.0819	-.1793	
		290.000	-.0966	.0068	-.2174	-.2370	.0906	-.0656	-.0567	-.2479	
		320.000		.0000	.0000	.0000	.0000	-.3478	-.3845	-.4032	
		360.000						-.2584	-.2902	-.2923	

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF CRB BODY

(REUBD4) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -3.906	BETA (1) = .009	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		.0000	.0023	.3501	.4433				
		195.000		-.0296	.0079	.3579	.4397	.3659	.1271	-.2607	
		210.000	-.1103	-.0242	.0000	.3564	.3637	.1381	.0647	-.0434	
		225.000		-.0161	.0000	.3282	.3097	.0587	-.0019	-.0070	
		240.000		-.0023	.0000	.2263	.0873	.0637	-.1496	-.1518	-.2260
		255.000		.0158	-.0168	.2201	.1431	-.0703	-.0875	-.1032	-.1895
		270.000	-.0515	.0288	-.0380	.1358	.1470	.0588	-.0117	-.0731	
		290.000	-.0270	-.0054	-.0848	-.0257	.1875	.0115	.0037	-.1301	
		320.000		.0000	.0000	.0000	.0000	-.3310	-.3375	-.3826	
		360.000						-.2511	-.3083	-.2834	
ALPHA (2) = -.204	BETA (1) = -4.000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		-.0427	-.0176	.2507	.2515				
		195.000		-.0600	.0090	.2380	.2763	.1969	.0001	-.2931	
		210.000	-.2128	-.0468	.0000	.2399	.2711	.0679	-.2354	-.1716	
		225.000		-.0317	.0000	.2249	.2216	.0116	-.1040	-.1317	
		240.000		-.0269	.0000	.1662	.0099	-.0341	-.2398	-.2912	-.2980
		255.000		-.0224	-.0350	.1738	.1020	-.1306	-.1427	-.1712	-.2630
		270.000	-.0862	-.0101	-.0655	.0815	.1338	.0175	-.0700	-.1409	
		290.000	-.0654	.0138	-.1133	-.0670	.1651	-.0300	-.0739	-.1649	
		320.000		.0000	.0000	.0000	.0000	-.2698	-.2745	-.2783	
		360.000						-.2535	-.2621	-.2248	
ALPHA (2) = -.306	BETA (2) = .016	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		-.0403	.0457	.2813	.3599				
		195.000		-.0222	.0484	.2614	.3576	.2955	.0920	-.2553	
		210.000	-.1454	-.0207	.0000	.2220	.2903	.1354	.0352	-.0777	
		225.000		-.0176	.0000	.2243	.2817	.1085	-.0269	-.0496	
		240.000		-.0174	.0000	.2153	.1812	.0409	-.1544	-.1899	-.2375
		255.000		.0083	-.0554	.1391	.1318	-.1203	-.1307	-.1436	-.2218
		270.000	-.0552	.0175	-.0669	.0027	.1064	.0265	-.0419	-.1156	
		290.000	-.0411	.0195	-.1276	-.1510	.0729	-.0277	-.0240	-.1437	
		320.000		.0000	.0000	.0000	.0000	-.3053	-.3009	-.3469	
		360.000						-.2173	-.2207	-.2397	

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF ORB BODY

(REUS04)

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.267 BETA (3) = 4.031

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0208	-.0177	.2526	.2513				
195.000		-.0853	-.0382	.2709	.3026	.4365	.2086	-.2287	
210.000	-.1221	-.0800	.0000	.2792	.2587	.0262	.1114	.0015	
225.000		-.0618	.0000	.2588	.2489	.0364	-.0172	.0228	
240.000		-.0434	.0000	.1885	.1752	.0881	-.1247	-.1120	-.1973
255.000		.0518	-.0543	-.0026	.1387	-.0479	-.1346	-.1351	-.2134
270.000	-.0117	.0736	-.0709	-.1037	.0929	.0231	-.0175	-.0987	
290.000	-.0005	-.0034	-.1187	-.1598	-.0145	-.0160	.0248	-.1216	
320.000		.0000	.0000	.0000	.0000	-.3092	-.2980	-.3950	
360.000						-.2038	-.2526	-.2305	

ALPHA (3) = 4.392 BETA (1) = .012

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0353	.1163	.2429	.3194				
195.000		.0049	.1260	.2225	.3059	.2084	.0392	-.2785	
210.000	-.1469	-.0018	.0000	.2030	.2490	.0228	-.0200	-.1299	
225.000		-.0202	.0000	.2409	.2545	-.0516	-.1012	-.0884	
240.000		-.0595	.0000	.1994	.1360	-.0128	-.2112	-.2211	-.2694
255.000		-.0274	-.0898	.0357	.1104	-.1468	-.2081	-.1935	-.2528
270.000	-.0498	-.0174	-.1123	-.1487	.0454	-.0312	-.0777	-.1594	
290.000	-.0559	.0466	-.1780	-.2164	-.0154	-.0832	-.0470	-.1668	
320.000		.0000	.0000	.0000	.0000	-.2786	-.3067	-.3413	
360.000						-.1877	-.2120	-.2082	

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM CRB BODY

(REUB05) (19 OCT 74)

REFERENCE DATA

SREF = 2990.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION / ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.119 BETA (1) = -.006	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
	PHI									
	180.000		.0287	.1159	.3120	.5316				
	195.000		.0309	.1101	.3210	.4936	-.0919	-.3172	-.4771	
	210.000	.0172	.0285	.0000	.3224	.4498	-.2677	-.3162	-.4880	
	225.000		.0198	.0000	.2883	.3584	-.3301	-.3685	-.3919	
	240.000		.0076	.0000	.1979	.1639	-.3652	-.5415	-.5487	-.5355
	255.000		-.0127	-.0000	.1273	.1308	-.4539	-.4908	-.5441	-.4395
	270.000	.0424	-.0366	-.0396	.0612	.1070	-.2526	-.4184	-.5212	
	290.000	.0464	-.0893	-.0933	-.0149	.0817	-.3256	-.3784	-.4625	
	320.000		.0000	.0000	.0000	.0000	-.4667	-.3739	-.3390	
	360.000						-.4014	-.3594	-.3536	
ALPHA (2) = -.306 BETA (1) = -4.000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
	PHI									
	180.000		-.0607	.0434	.2601	.3406				
	195.000		-.0524	.0464	.2481	.3418	-.2421	-.5199	-.4727	
	210.000	-.0259	-.0413	.0000	.2478	.3632	-.4480	-.5548	-.6373	
	225.000		-.0369	.0000	.2022	.2868	-.5100	-.5653	-.5586	
	240.000		-.0391	.0000	.1010	.0583	-.5207	-.7020	-.6901	-.5436
	255.000		-.0497	-.0466	.0558	.0251	-.5902	-.5826	-.6349	-.4986
	270.000	.0009	-.0655	-.0705	-.0011	.0134	-.3434	-.4820	-.6138	
	290.000	-.0026	-.0728	-.1214	-.0762	-.0056	-.4154	-.4500	-.5473	
	320.000		.0000	.0000	.0000	.0000	-.4616	-.3946	-.3542	
	360.000						-.4123	-.3400	-.3341	
ALPHA (2) = -.264 BETA (2) = .016	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
	PHI									
	180.000		-.0247	.0620	.2635	.4851				
	195.000		-.0211	.0584	.2722	.4357	-.1491	-.3963	-.4593	
	210.000	.0027	-.0255	.0000	.2683	.4129	-.3219	-.3443	-.5055	
	225.000		-.0333	.0000	.2360	.3670	-.3736	-.4296	-.4381	
	240.000		-.0581	.0000	.1606	.2347	-.3859	-.5511	-.5728	-.4762
	255.000		-.0930	-.0959	.0870	.1165	-.4612	-.5051	-.5809	-.3526
	270.000	.0155	-.1280	-.1425	.0125	.0901	-.2699	-.4348	-.5555	
	290.000	.0167	-.1030	-.1998	-.0721	.0624	-.3438	-.3951	-.4877	
	320.000		.0000	.0000	.0000	.0000	-.4897	-.3617	-.3402	
	360.000						-.4019	-.3631	-.3512	

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM CRB BODY

(REUS05)

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -0.348	BETA (3) = 4.028	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		-.0791	.0374	.2389	.3100				
		195.000		-.0824	.0216	.2695	.3047	.0218	-.1881	-.4995	
		210.000	-.0463	-.1019	.0000	.2982	.2160	-.2427	-.2247	-.3913	
		225.000		-.1335	.0000	.2990	.2665	-.3114	-.2947	-.2804	
		240.000		-.1820	.0000	.2225	.2043	-.3146	-.4337	-.3714	-.4317
		255.000		-.1795	-.2087	.0862	.1961	-.3868	-.4899	-.4211	-.4353
		270.000	.0295	-.2102	-.2563	-.0087	.1515	-.2070	-.3944	-.2992	
		290.000	.0419	-.1572	-.3162	-.1045	.1046	-.2724	-.3509	-.2760	
		320.000		.0000	.0000	.0000	.0000	-.4711	-.4296	-.4013	
		360.000						-.3302	-.3921	-.3706	
ALPHA (9) = 3.924	BETA (1) = .000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		-.0807	.0671	.1961	.3935				
		195.000		-.0754	.0604	.2020	.3249	-.1978	-.4364	-.4244	
		210.000	-.0043	-.0850	.0000	.1952	.4353	-.3722	-.4436	-.5427	
		225.000		-.1079	.0000	.1477	.3138	-.4429	-.4935	-.4771	
		240.000		-.1063	.0000	.1053	.1413	-.4358	-.6085	-.5693	-.3941
		255.000		-.1224	-.2248	.0465	.0530	-.4854	-.5754	-.4785	-.3364
		270.000	-.0073	-.1554	-.2864	-.0422	.0400	-.3019	-.4428	-.4524	
		290.000	-.0085	-.0404	-.3562	-.1412	.0255	-.3840	-.4203	-.3949	
		320.000		.0000	.0000	.0000	.0000	-.4869	-.3394	-.3055	
		360.000						-.3884	-.3560	-.3249	

ARC11-014IA19 OTS+STRUT SRB-NCM MPS-NCM CRB BODY

(REUB06) (19 OCT 74)

REFERENCE DATA

SREF = 2090.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 PRCP = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.074 BETA (1) = .000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		.1191	.3458	.4102	.5760				
195.000		.2003	.3403	.3147	.5503	.1968	-.0368	-.4615	
210.000	-.0676	.1617	.0000	.4723	.5210	.0252	-.0566	-.1991	
225.000		.1718	.0000	.4117	.4521	-.0279	-.1012	-.1133	
240.000		.1935	.0000	.4095	.2263	-.0487	-.2380	-.2348	-.4148
255.000		.1596	.1704	.3464	.3214	-.1256	-.1726	-.2368	-.4556
270.000	-.0249	.1351	.1546	.2999	.3098	.0340	-.1162	-.2302	
290.000	-.0215	-.0050	.1019	.2036	.2999	-.0202	-.0847	-.3510	
320.000		.0000	.0000	.0000	.0000	-.4633	-.4253	-.3886	
360.000						-.3644	-.3842	-.3630	

ALPHA (2) = -.396 BETA (1) = -4.003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		.0642	.2328	.4503	.4785				
195.000		.0989	.2502	.4471	.5217	.0549	-.2294	-.5332	
210.000	.0521	.0813	.0000	.3999	.4355	-.1480	-.2628	-.3720	
225.000		.0994	.0000	.3988	.3408	-.1905	-.2712	-.2788	
240.000		.1365	.0000	.3372	.0766	-.2280	-.3974	-.3884	-.4987
255.000		.1327	.2039	.3248	.1895	-.2301	-.2626	-.3237	-.5067
270.000	.0436	.1098	.1701	.2619	.2387	-.0471	-.1791	-.3113	
290.000	.0019	.0429	.1119	.1916	.2303	-.1046	-.1746	-.3998	
320.000		.0000	.0000	.0000	.0000	-.4067	-.4013	-.3996	
360.000						-.3444	-.3611	-.3387	

ALPHA (2) = -.408 BETA (2) = .009

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		.1897	.2994	.4352	.5135				
195.000		.1697	.2970	.4354	.4947	.1883	-.0449	-.4563	
210.000	-.0580	.1556	.0000	.3968	.4618	.0415	-.0724	-.2212	
225.000		.1629	.0000	.4066	.4536	-.0314	-.1175	-.1390	
240.000		.1429	.0000	.3581	.3574	-.0640	-.2370	-.2367	-.4081
255.000		.1117	.1020	.2994	.3160	-.1223	-.1982	-.2503	-.4453
270.000	-.0608	.0673	.0672	.2327	.3046	.0348	-.1136	-.2377	
290.000	-.0442	.0195	.0122	.1646	.2927	-.0328	-.0723	-.3558	
320.000		.0000	.0000	.0000	.0000	-.4375	-.3991	-.3514	
360.000						-.3292	-.3382	-.3244	

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ARC11-014IA19 QTS+STRUT SRB-NOM MPS-NOM CRB BODY

(REUS96)

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.339 BETA (3) = 4.028		X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.0717	.1575	.3751	.4228				
		195.000		.0732	.2156	.4312	.3699	.3191	.0871	-.4615	
		210.000	-.0598	.0511	.0000	.4372	.3939	.0416	.0273	-.1274	
		225.000		.0319	.0000	.4337	.4045	-.0452	-.0590	-.0510	
		240.000		-.0198	.0000	.3799	.2925	-.0111	-.1636	-.1512	-.3848
		255.000		.0290	-.1306	.2699	.3088	-.0675	-.1648	-.2191	-.4449
		270.000	.1074	.0085	-.1603	.1301	.2830	.0707	-.0779	-.2100	
		290.000	.1287	-.0405	-.2080	-.0416	.2657	.0174	-.0317	-.3399	
		320.000		.0000	.0000	.0000	.0000	-.4515	-.4340	-.4375	
		360.000						-.3120	-.3716	-.3551	
ALPHA (3) = 3.984 BETA (1) = .003		X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.2027	.1778	.4114	.5917				
		195.000		.1722	.1703	.4360	.5431	.1148	-.1248	-.5075	
		210.000	.0601	.1647	.0000	.4391	.4342	-.0770	-.1504	-.2767	
		225.000		.1025	.0000	.4168	.4091	-.1450	-.1914	-.1949	
		240.000		.0516	.0000	.3612	.2283	-.1157	-.2903	-.2878	-.4338
		255.000		.0796	-.0479	.3049	.2305	-.1554	-.2551	-.2926	-.4615
		270.000	.0633	.0475	-.1728	.1664	.2307	-.0047	-.1358	-.2705	
		290.000	.0790	.0579	-.1935	-.0011	.2318	-.0713	-.1181	-.3785	
		320.000		.0000	.0000	.0000	.0000	-.4423	-.4353	-.3872	
		360.000						-.3404	-.3530	-.3404	

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM CRB BODY

(RELB07) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-OB = 4.000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.131	BETA (1) = .003	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		-.0195	.0660	.4159	.5039				
		195.000		-.0199	.0628	.4207	.5014	.3087	.0575	-.3906	
		210.000	-.1257	-.0142	.0000	.4183	.4137	.0924	.0085	-.1136	
		225.000		.0002	.0000	.3850	.3643	.0070	-.0524	-.0518	
		240.000		.0169	.0000	.2953	.0891	-.0050	-.1869	-.1869	-.2689
		255.000		.0340	-.0358	.2749	.1073	-.0925	-.1216	-.1474	-.2902
		270.000	-.0475	.0273	-.0705	.2033	.2121	.0611	-.0461	-.1236	
		290.000	-.0332	-.0339	-.0973	.1227	.2222	-.0128	-.0312	-.2179	
		320.000		.0000	.0000	.0000	.0000	-.3472	-.3185	-.3055	
		360.000						-.2672	-.2734	-.2525	

ALPHA (2) = -3.000	BETA (1) = -4.000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		-.0249	.0130	.3082	.3269				
		195.000		-.0254	.0543	.2882	.3476	.1619	-.1017	-.3904	
		210.000	-.1694	-.0230	.0000	.2754	.2790	-.0193	-.1538	-.2643	
		225.000		-.0185	.0000	.2595	.2841	-.0649	-.1792	-.2039	
		240.000		-.0072	.0000	.2039	.0040	-.1124	-.3022	-.3355	-.3808
		255.000		.0044	-.0687	.2141	.1258	-.1650	-.1848	-.2285	-.3586
		270.000	-.0676	.0027	-.0654	.1410	.1850	.0327	-.1043	-.2039	
		290.000	-.0620	-.0025	-.1182	.0669	.2065	-.0515	-.1082	-.2553	
		320.000		.0000	.0000	.0000	.0000	-.3076	-.2891	-.2750	
		360.000						-.2531	-.2638	-.2253	

ALPHA (2) = -.411	BETA (2) = .012	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		-.0042	.1076	.3297	.4115				
		195.000		-.0014	.1128	.3080	.4056	.2563	.0268	-.3461	
		210.000	-.1221	.0013	.0000	.2731	.3917	.0998	-.0206	-.1468	
		225.000		.0050	.0000	.2722	.3549	.0534	-.0733	-.0930	
		240.000		.0169	.0000	.2444	.2195	-.0276	-.1923	-.2070	-.3111
		255.000		.0305	-.0661	.1714	.1657	-.1010	-.1621	-.1789	-.3010
		270.000	-.0497	.0147	-.1071	.0496	.1599	-.0364	-.0559	-.1477	
		290.000	-.0408	-.0136	-.1515	-.1303	.1848	-.0322	-.0291	-.2263	
		320.000		.0000	.0000	.0000	.0000	-.3289	-.3130	-.3019	
		360.000						-.2305	-.2447	-.2319	

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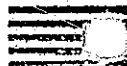
ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM CRB BODY

(RELE07)

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.438	BETA (3) = 4.031	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		-.0324	-.0060	.3042	.3389				
		195.000		-.0288	-.0295	.3126	.3440	.4094	.1593	-.3305	
		210.000	-.1451	-.0284	.0000	.3219	.3004	.0473	.0678	-.0642	
		225.000		-.0334	.0000	.3181	.2920	-.0178	-.0347	-.0029	
		240.000		-.0622	.0000	.2512	.1635	.0211	-.1696	-.1193	-.2614
		255.000		.0227	-.1292	.0819	.1443	-.0598	-.1353	-.1721	-.2878
		270.000	-.0267	.0283	-.1546	-.1412	.0932	.0449	-.0305	-.1315	
		290.000	-.0119	-.0374	-.1890	-.2351	.0666	.0040	.0086	-.2141	
		320.000		.0000	.0000	.0000	.0000	-.3396	-.3396	-.3829	
		360.000						-.2110	-.2720	-.2549	
ALPHA (3) = 3.582	BETA (1) = .003	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		.0067	.1023	.3043	-.4078				
		195.000		.0048	.1010	.2853	.3752	.1877	-.0308	-.3679	
		210.000	-.1111	.0075	.0000	.2826	.2831	-.0100	-.0806	-.2023	
		225.000		.0107	.0000	.2892	.2729	-.0998	-.1476	-.1311	
		240.000		.0105	.0000	.2538	.1383	-.0759	-.2559	-.2287	-.3264
		255.000		.0192	-.1080	.1488	.1145	-.1288	-.1988	-.2250	-.3153
		270.000	-.0846	-.0102	-.1513	-.0496	.0773	-.0114	-.0827	-.1762	
		290.000	-.0874	.0075	-.2044	-.2274	.0869	-.0650	-.0582	-.2438	
		320.000		.0000	.0000	.0000	.0000	-.3210	-.3427	-.3412	
		360.000						-.2294	-.2612	-.2470	



ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM ORB BODY

(REUSE18) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 0.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.017	BETA (1) = .006	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		-.0300	-.0024	.3493	.4407				
		195.000		-.0280	.0064	.3573	.4366	.3660	.1302	-.2473	
		210.000	-.1092	-.0226	.0000	.3562	.3657	.1379	.0665	-.0417	
		225.000		-.0127	.0000	.3291	.3148	.0590	-.0038	-.0056	
		240.000		-.0037	.0000	.2273	.0917	.0596	-.1478	-.1484	-.2275
		255.000		.0134	-.0184	.2217	.1430	-.0685	-.0866	-.1022	-.1874
		270.000	-.0809	.0276	-.0380	.1400	.1503	.0599	-.0114	-.0747	
		290.000	-.0264	-.0079	-.0842	-.0169	.1881	.0111	.0041	-.1326	
		320.000		.0000	.0000	.0000	.0000	-.2640	-.2388	-.2572	
		360.000						-.1728	-.2009	-.1967	
ALPHA (2) = -.486	BETA (1) = -4.000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		-.0681	-.0187	.2475	.2434				
		195.000		-.0614	.0048	.2376	.2738	.1973	-.0006	-.2884	
		210.000	-.2148	-.0502	.0000	.2366	.2728	.0700	-.0697	-.1718	
		225.000		-.0354	.0000	.2237	.2216	.0101	-.1048	-.1357	
		240.000		-.0307	.0000	.1628	.0106	-.0332	-.2442	-.2908	-.3059
		255.000		-.0260	-.0393	.1714	.1021	-.1323	-.1434	-.1706	-.2800
		270.000	-.0895	-.0107	-.0692	.0806	.1350	.0160	-.0687	-.1431	
		290.000	-.0644	.0102	-.1172	-.0617	.1686	-.0295	-.0747	-.1668	
		320.000		.0000	.0000	.0000	.0000	-.2206	-.2109	-.2076	
		360.000						-.1890	-.1805	-.1546	
ALPHA (2) = -.438	BETA (2) = .016	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		-.0236	.0347	.2858	.3651				
		195.000		-.0250	.0410	.2642	.3586	.3044	.0937	-.2908	
		210.000	-.1439	-.0219	.0000	.2234	.2853	.1399	.0382	-.0750	
		225.000		-.0201	.0000	.2253	.2763	.1102	-.0231	-.0453	
		240.000		-.0182	.0000	.2239	.1842	.0449	-.1533	-.1884	-.2424
		255.000		.0081	-.0530	.1478	.1280	-.1194	-.1288	-.1437	-.2150
		270.000	-.0561	.0187	-.0680	.0070	.1072	.0249	-.0429	-.1137	
		290.000	-.0421	.0142	-.1276	-.1490	.0756	-.0284	-.0262	-.1426	
		320.000		.0000	.0000	.0000	.0000	-.2619	-.2424	-.2585	
		360.000						-.1599	-.1855	-.1717	

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM ORB BODY

(REUSED)

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.456	BETA (3) = 4.028	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		-.0822	-.0233	.2465	.2408				
		195.000		-.0861	-.0445	.2660	.2959	.4280	.2102	-.2270	
		210.000	-.1223	-.0878	.0000	.2723	.2531	.0214	.1115	-.0043	
		225.000		-.0673	.0000	.2552	.2500	.0336	-.0168	.0214	
		240.000		-.0457	.0001	.1858	.1729	.0784	-.1307	-.1173	-.1947
		255.000		.0494	-.0559	-.0041	.1397	-.0524	-.1383	-.1386	-.2092
		270.000	-.0168	.0634	-.0770	-.1085	.0910	.0272	-.0210	-.1014	
		290.000	-.0077	-.0092	-.1248	-.1636	-.0113	-.0166	.0187	-.1264	
		320.000		.0000	.0000	.0000	.0000	-.2790	-.2591	-.3204	
		360.000						-.1448	-.2003	-.1865	
ALPHA (3) = 4.014	BETA (1) = .009	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		-.0031	.1115	.2388	.3115				
		195.000		-.0037	.1244	.2154	.3021	.1946	.0344	-.2728	
		210.000	-.1496	-.0101	.0000	.2015	.2463	.0320	-.0218	-.1357	
		225.000		-.0310	.0000	.2357	.2520	-.0548	-.1040	-.0922	
		240.000		-.0611	.0000	.1944	.1334	-.0213	-.2166	-.2265	-.2693
		255.000		-.0299	-.0900	.0348	.1057	-.1520	-.2120	-.1993	-.2397
		270.000	-.0585	-.0190	-.1140	-.1499	.0409	-.0302	-.0882	-.1675	
		290.000	-.0636	.0407	-.1797	-.2170	-.0183	-.0865	-.0542	-.1698	
		320.000		.0000	.0000	.0000	.0000	-.2424	-.2573	-.2694	
		360.000						-.1416	-.1753	-.1500	

ARC11-014IA19 OTS+STRUT SRB-LOW MPS-NOM ORB BODY

(REUB09) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.191	BETA (1) = .000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		.0000	.1129	.3073	.5304				
		195.000		.0256	.1109	.3169	.4897	-.0965	-.3214	-.4909	
		210.000	.0152	.0246	.0000	.3147	.4499	-.2731	-.3247	-.5007	
		225.000		.0198	.0000	.2858	.3491	-.3415	-.3783	-.4047	
		240.000		.0045	.0000	.1928	.1596	-.3768	-.5543	-.5613	-.5285
		255.000		-.0162	-.0137	.1190	.1238	-.4666	-.4999	-.5559	-.4409
		270.000	.0368	-.0396	-.0472	.0539	.0983	-.2625	-.4285	-.5055	
		290.000	.0415	-.0850	-.0994	-.0208	.0728	-.3375	-.3909	-.4459	
		320.000		.0000	.0000	.0000	.0000	-.4415	-.3663	-.3406	
		360.000						-.3837	-.3599	-.3514	
ALPHA (2) = -4.438	BETA (1) = -4.000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		.0000	.0399	.2566	.3372				
		195.000		-.0529	.0443	.2456	.3394	-.2517	-.5307	-.5043	
		210.000	-.0306	-.0477	.0000	.2432	.3645	-.4579	-.5647	-.6506	
		225.000		-.0408	.0000	.1941	.2830	-.5243	-.5784	-.5709	
		240.000		-.0424	.0000	.0954	.0556	-.5963	-.7183	-.7052	-.5544
		255.000		-.0545	-.0547	.0487	.0169	-.5633	-.5945	-.6490	-.5106
		270.000	-.0032	-.0696	-.0810	-.0090	.0087	-.3545	-.4936	-.6098	
		290.000	-.0084	-.0720	-.1293	-.0857	-.0098	-.4285	-.4622	-.5266	
		320.000		.0000	.0000	.0000	.0000	-.4394	-.3795	-.3525	
		360.000						-.4126	-.3233	-.3354	
ALPHA (2) = -5.25	BETA (2) = -.005	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		.0000	.0761	.2778	.5029				
		195.000		-.0171	.0703	.2848	.4476	-.1478	-.3714	-.4578	
		210.000	.0062	-.0203	.0000	.2843	.4179	-.3164	-.3571	-.4935	
		225.000		-.0283	.0000	.2478	.3694	-.3654	-.4064	-.4204	
		240.000		-.0469	.0000	.1734	.2362	-.3763	-.5389	-.5606	-.5163
		255.000		-.0810	-.0730	.1015	.1205	-.4558	-.5259	-.5665	-.3673
		270.000	.0173	-.1151	-.1160	.0243	.0926	-.2658	-.4156	-.5220	
		290.000	.0207	-.0891	-.1632	-.0622	.0627	-.3387	-.3831	-.4302	
		320.000		.0000	.0000	.0000	.0000	-.4389	-.3188	-.2992	
		360.000						-.3610	-.3097	-.3066	

ARC11-014IA19 OTS+STRUT SRB-LOW MPS-NOM CRB BODY

(REUB99)

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.441	BETA (3) = 4.025	X/L	.570	.653	.730	.781	.823	.882	.923	.963	1.002		
		PHI											
		180.000		.0000	.0494	.2609	.3385		.0349	-.1724	-.4801		
		195.000		-.0794	.0451	.2881	.3347		.0349	-.1724	-.4801		
		210.000	-.0381	-.0981	.0000	.3181	.2213	-.2335	-.1839	-.3647			
		225.000		-.1253	.0000	.3194	.2732	-.2948	-.2029	-.2546			
		240.000		-.1746	.0000	.2449	.1963	-.2851	-.2796	-.3474	-.4515		
		255.000		-.1681	-.1691	.1099	.2030	-.3644	-.4221	-.2964	-.4878		
		270.000	.0341	-.1871	-.2211	.0200	.1606	-.1968	-.3472	-.2850			
		290.000	.0492	-.1400	-.2888	-.0745	.1138	-.2581	-.2792	-.2394			
		320.000		.0000	.0000	.0000	.0000	-.4273	-.3957	-.3357			
		360.000						-.3144	-.3505	-.3395			
		ALPHA (3) = 4.000	BETA (1) = .006	X/L	.570	.653	.730	.781	.823	.882	.923	.963	1.002
				PHI									
				180.000		.0000	.0087	.2103	.3809				
				195.000		-.0692	.0040	.2139	.3293	-.1903	-.4231	-.4443	
				210.000	.0038	-.0789	.0000	.2077	.4359	-.3537	-.4313	-.5304	
				225.000		-.1021	.0000	.1851	.3202	-.4297	-.4855	-.4665	
				240.000		-.1364	.0000	.1197	.1529	-.4289	-.5988	-.5238	-.4707
				255.000		-.1705	-.2122	.0481	.0642	-.4762	-.5625	-.4477	-.3585
				270.000	.0016	-.2080	-.2709	-.0425	.0511	-.2885	-.4292	-.4318	
				290.000	.0020	-.0964	-.3307	-.1405	.0348	-.3760	-.4088	-.3806	
				320.000		.0000	.0000	.0000	.0000	-.4348	-.3122	-.2783	
				360.000						-.3562	-.3048	-.2973	

ARC11-014TA19 OTS+STRUT SRB-LOW MPS-NOM C. 9 BODY

(REUB10) (19 OCT 74)

REFERENCE DATA

SREF = 2699.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0020 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -3.978 BETA (1) = -.006

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0122	.3112	.4212	.5570				
195.000		.1776	.2997	.4427	.5542	.1972	-.0341	-.4709	
210.000	-.0890	.1901	.0000	.4394	.5149	.0259	-.0547	-.1974	
225.000		.2024	.0000	.4288	.4551	-.0245	-.1029	-.1110	
240.000		.1569	.0000	.3902	.2282	-.0475	-.2375	-.2351	-.4179
255.000		.1575	.1690	.3385	.3215	-.1244	-.1711	-.2366	-.4593
270.000	-.0525	.1167	.1543	.2805	.3089	.0342	-.1143	-.2299	
290.000	-.0425	-.0138	.1005	.1950	.2987	-.0238	-.0833	-.3506	
320.000		.0000	.0000	.0000	.0000	-.4762	-.4377	-.4057	
360.000						-.3784	-.3958	-.3771	

ALPHA (2) = -.387 BETA (1) = -4.003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0256	.1559	.7901	.8573				
195.000		.0865	.1352	.7255	.9107	.0533	-.2311	-.5488	
210.000	.0137	.0806	.0000	.6548	.4312	-.1494	-.2644	-.3722	
225.000		.0877	.0000	.6119	.3432	-.1923	-.2731	-.2791	
240.000		.1156	.0000	.5587	.0698	-.2266	-.3893	-.3903	-.5036
255.000		.0872	.4348	.5970	.1895	-.2305	-.2634	-.3250	-.5129
270.000	.0246	.0598	.3639	.4947	.2370	-.0477	-.1800	-.3121	
290.000	.0045	-.0231	.3128	.3926	.2296	-.1065	-.1741	-.4011	
320.000		.0000	.0000	.0000	.0000	-.4284	-.4212	-.4254	
360.000						-.3609	-.3825	-.3584	

ALPHA (2) = -.429 BETA (2) = .009

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.1528	.1745	.4022	.4980				
195.000		.1545	.1747	.3697	.4681	.1883	-.0434	-.4701	
210.000	-.0782	.1305	.0000	.3672	.4600	.0423	-.0726	-.2227	
225.000		.1211	.0000	.3759	.4473	-.0342	-.1167	-.1383	
240.000		.1109	.0000	.3250	.3444	-.0626	-.2370	-.2351	-.4112
255.000		.0697	.0813	.2906	.3139	-.1220	-.1980	-.2497	-.4506
270.000	-.0474	.0370	.0292	.2411	.3040	.0338	-.1112	-.2380	
290.000	-.0495	-.0128	-.0347	.1736	.2912	-.0324	-.0723	-.3556	
320.000		.0000	.0000	.0000	.0000	-.4528	-.4179	-.3784	
360.000						-.3442	-.3499	-.3362	

ORIGINAL PAGE IS
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ARC11-014IA19 OTS+STRUT SRB-LCW MPS-NCM CRB BODY

(RELB10)

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.384	BETA (3) = 4.028	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.0818	.2676	.4389	.4686				
		195.000		.0929	.2530	.4019	.4711	.3144	.0856	-.4725	
		210.000	.0058	.0913	.0000	.4829	.3924	.0394	.0239	-.1286	
		225.000		.0466	.0000	.4922	.4042	-.0471	-.0605	-.0516	
		240.000		.0224	.0000	.4567	.2954	-.0105	-.1637	-.1539	-.3861
		255.000		.0472	-.1305	.3209	.3059	-.0680	-.1659	-.2198	-.4460
		270.000	.0865	.0448	-.1272	.1579	.2821	.0684	-.0779	-.2107	
		290.000	.1286	.0282	-.1980	-.0281	.2804	.0170	-.0328	-.3409	
		320.000		.0000	.0000	.0000	.0000	-.4726	-.4533	-.4690	
		360.000						-.3207	-.3877	-.3747	

ALPHA (3) = 3.930	BETA (1) = .000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.1352	.1494	.7489	.9282				
		195.000		.1590	.1865	.6873	.8854	.1133	-.1253	-.5099	
		210.000	.0272	.1160	.0000	.6712	.4254	-.0791	-.1491	-.2779	
		225.000		.0904	.0000	.6104	.4058	-.1455	-.1932	-.1954	
		240.000		.0505	.0000	.6334	.2272	-.1173	-.2916	-.2898	-.4363
		255.000		.0554	.0421	.5452	.2277	-.1566	-.2556	-.2947	-.4688
		270.000	.0315	.0341	-.0677	.3436	.2292	-.0055	-.1353	-.2719	
		290.000	-.0492	.0366	-.1584	.0876	.2317	-.0727	-.1201	-.3792	
		320.000		.0000	.0000	.0000	.0000	-.4659	-.4672	-.4344	
		360.000						-.3611	-.3723	-.3576	

ARC11-014IA19 OTS+STRUT SRB-LCW MPS-NOM CRB BODY

(REUB11) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.746 BETA (1) = .006

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		.0027	.0851	.4272	.5066				
195.000		-.0083	.0772	.4319	.5170	.3090	.0570	-.3536	
210.000	-.1279	.0018	.0806	.4141	.4229	.0975	.0120	-.1145	
225.000		.0189	.0000	.4047	.3684	.0064	-.0474	-.0512	
240.000		.0381	.0000	.2882	.0953	-.0166	-.1840	-.1847	-.2972
255.000		.0515	-.0216	.2845	.1770	-.0952	-.0899	-.1448	-.2981
270.000	-.0500	.0473	-.0477	.2127	.2191	.0643	-.0445	-.1202	
290.000	-.0217	-.0311	-.0935	.1365	.2247	-.0175	-.0284	-.2202	
320.000		.0000	.0000	.0000	.0000	-.3705	-.3397	-.3308	
360.000						-.2837	-.2889	-.2698	

ALPHA (2) = -.444 BETA (1) = -4.000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		-.0258	-.0056	.3175	.3387				
195.000		-.0275	.0492	.2972	.3550	.1590	-.1060	-.4082	
210.000	-.1922	-.0285	.0715	.2808	.2779	-.0210	-.1573	-.2695	
225.000		-.0300	.0000	.2648	.2813	-.0710	-.1841	-.2084	
240.000		-.0210	.0000	.2261	.0028	-.1147	-.3095	-.3379	-.3877
255.000		-.0092	-.0133	.2303	.1247	-.1704	-.1704	-.2323	-.3690
270.000	-.0829	-.0035	-.0706	.1373	.1815	.0002	-.1045	-.2076	
290.000	-.0654	-.0176	-.1268	.0690	.2028	-.0562	-.1130	-.2628	
320.000		.0000	.0000	.0000	.0000	-.3247	-.3140	-.2985	
360.000						-.2661	-.2905	-.2420	

ALPHA (2) = -.402 BETA (2) = .012

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		-.0151	.1122	.3281	.4194				
195.000		.0002	.1200	.3061	.4120	.2573	.0223	-.3599	
210.000	-.1173	-.0011	.0717	.2711	.3532	.0991	-.0278	-.1597	
225.000		.0038	.0000	.2726	.3518	.0457	-.0815	-.1054	
240.000		.0253	.0000	.2414	.2226	-.0359	-.2043	-.2175	-.3237
255.000		.0299	-.0889	.1578	.1609	-.1118	-.1514	-.1909	-.3147
270.000	-.0474	.0163	-.1327	.0335	.1576	.0296	-.0670	-.1569	
290.000	-.0487	-.0176	-.1883	-.1566	.1799	-.0416	-.0412	-.2391	
320.000		.0000	.0000	.0000	.0000	-.3447	-.3394	-.3338	
360.000						-.2465	-.2666	-.2523	

ORIGINAL PAGES IS
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ARC11-014IA19 OTS+STRUT SRB-LOW MPS-NOM CRB BODY

(REUB11)

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.324	BETA (3) = 4.034	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		-.0226	.0038	.3227	.3566				
		195.000		-.0274	-.0161	.3293	.3629	.4173	.1607	-.3328	
		210.000	-.1417	-.0280	.0164	.3326	.3029	.0500	.0758	-.0553	
		225.000		-.0371	.0000	.3133	.2875	-.0141	-.0280	.0037	
		240.000		-.0603	.0000	.2676	.1686	.0284	-.1531	-.1132	-.2637
		255.000		.0196	-.1321	.1047	.1451	-.0469	-.1020	-.1632	-.2929
		270.000	-.0176	.0347	-.1570	-.1327	.0949	.0492	-.0263	-.1304	
		290.000	-.0085	-.0358	-.2006	-.2354	.0859	.0090	.0099	-.2144	
		320.000		.0000	.0000	.0000	.0000	-.3470	-.3406	-.3933	
		360.000						-.2241	-.2805	-.2625	
ALPHA (3) = 3.552	BETA (1) = .003	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.0087	.0978	.3275	.4233				
		195.000		.0167	.0961	.2896	.4166	.1891	-.0319	-.3874	
		210.000	-.1043	.0159	.0819	.3090	.2815	-.0107	-.0808	-.2025	
		225.000		.0160	.0000	.3138	.2737	-.0948	-.1461	-.1246	
		240.000		.0078	.0000	.2858	.1296	-.0712	-.2402	-.2284	-.3320
		255.000		.0210	-.1158	.1756	.1154	-.1161	-.1746	-.2238	-.3246
		270.000	-.0858	.0082	-.1562	-.0405	.0777	-.0051	-.0801	-.1773	
		290.000	-.0872	.0135	-.2200	-.2413	.0939	-.0645	-.0580	-.2472	
		320.000		.0000	.0000	.0000	.0000	-.3339	-.3594	-.3667	
		360.000						-.2377	-.2775	-.2608	

ARC11-0141A19 OTS+STRUT SRB-LOW MPS-NOM ORB BODY

(REUB12) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.122 BETA (1) = .000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0122	-.0030	.3543	.4452				
195.000		-.0294	.0044	.3573	.4400	.3670	.1300	-.2682	
210.000	-.1109	-.0258	.0000	.3572	.3683	.1398	.0686	-.0432	
225.000		-.0151	.0000	.3338	.3211	.0583	-.0044	-.0069	
240.000		-.0059	.0000	.2334	.0917	.0581	-.1497	-.1503	-.2322
255.000		.0113	-.0184	.2219	.1437	-.0684	-.0866	-.1028	-.1899
270.000	-.0532	.0278	-.0380	.1392	.1499	.0564	-.0132	-.0741	
290.000	-.0296	-.0105	-.0865	-.0192	.1852	.0102	.0045	-.1338	
320.000		.0000	.0000	.0000	.0000	-.2902	-.2754	-.3140	
360.000						-.2019	-.2459	-.2357	

ALPHA (2) = -.396 BETA (1) = -4.003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0661	-.0196	.2543	.2493				
195.000		-.0610	.0099	.2384	.2797	.1937	.0002	-.3063	
210.000	-.2130	-.0480	.0000	.2400	.2754	.0691	-.0682	-.1709	
225.000		-.0340	.0000	.2264	.2209	.0112	-.1024	-.1334	
240.000		-.0270	.0000	.1657	.0106	-.0351	-.2422	-.2891	-.3097
255.000		-.0231	-.0366	.1740	.1027	-.1306	-.1413	-.1677	-.2631
270.000	-.0861	-.0107	-.0547	.0846	.1366	.0186	-.0686	-.1402	
290.000	-.0646	.0093	-.1095	-.0589	.1683	-.0267	-.0715	-.1642	
320.000		.0000	.0000	.0000	.0000	-.2414	-.2372	-.2229	
360.000						-.2124	-.2170	-.1763	

ALPHA (2) = -.378 BETA (2) = .006

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0228	.0357	.2837	.3682				
195.000		-.0224	.0429	.2679	.3593	.3037	.0943	-.2655	
210.000	-.1427	-.0169	.0000	.2258	.2861	.1411	.0394	-.0771	
225.000		-.0156	.0000	.2284	.2800	.1121	-.0221	-.0467	
240.000		-.0145	.0000	.2217	.1889	.0433	-.1532	-.1882	-.2469
255.000		.0109	-.0519	.1473	.1286	-.1195	-.1279	-.1406	-.2211
270.000	-.0545	.0176	-.0651	.0067	.1091	.0256	-.0414	-.1099	
290.000	-.0396	.0152	-.1262	-.1472	.0765	-.0308	-.0250	-.1415	
320.000		.0000	.0000	.0000	.0000	-.2790	-.2635	-.2974	
360.000						-.1754	-.2135	-.1899	

ORIGINAL PAGE IS
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ARC11-014IA19 OTS+STRUT SRB-LOW MPS-NOM CRB BODY

(REUB12)

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

	X/L	.500	.655	.730	.781	.823	.882	.923	.963	1.002
ALPHA (2) = -.315 BETA (3) = 4.025	FHI									
	180.000		-.0795	-.0196	.2523	.2517		.2106	-.2353	
	195.000		-.0850	-.0409	.2744	.3046	.4324	.1119	-.0015	
	210.000	-.1187	-.0808	.0000	.2803	.2580	.0235	-.0142	.0274	
	225.000		-.0580	.0000	.2617	.2533	.0380	-.1249	-.1115	-.1986
	240.000		-.0412	.0000	.1876	.1781	.0849	-.1325	-.1352	-.2125
	255.000		.0542	-.0590	-.0021	.1418	-.0482	-.0151	-.0971	
	270.000	-.0110	.0713	-.0718	-.1038	.0955	.0289	.0277	-.1202	
	290.000	-.0007	-.0058	-.1196	-.1591	-.0109	-.0153	-.2705	-.3444	
	320.000		.0000	.0000	.0000	.0000	-.2862	-.2150	-.2020	
	360.000						-.1652			
ALPHA (3) = 4.005 BETA (1) = .000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
	FHI									
	180.000		-.0010	.1144	.2405	.3110		.0338	-.2880	
	195.000		.0027	.1264	.2200	.3026	.2014	-.0230	-.1361	
	210.000	-.1498	-.0057	.0000	.1989	.2465	.0379	-.1035	-.0939	
	225.000		-.0235	.0000	.2330	.2542	-.0561	-.2195	-.2266	-.2762
	240.000		-.0580	.0000	.1915	.1309	-.0267	-.2097	-.2007	-.2509
	255.000		-.0297	-.0953	.0274	.1102	-.1527	-.0780	-.1652	
	270.000	-.0554	-.0197	-.1162	-.1490	.0446	-.0314	-.0544	-.1728	
	290.000	-.0592	.0405	-.1801	-.2189	-.0116	-.0855	-.2779	-.3011	
	320.000		.0000	.0000	.0000	.0000	-.2592	-.1971	-.1754	
	360.000						-.1571			

ARC11-014IA19 OTS+STRUT SRB-N.M MPS-OFF CRB BODY

(REUB13) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = .900
 GPMAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.119 BETA (1) = -.003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0174	.1043	.2983	.5182				
195.000		.0260	.1018	.3078	.4820	-.0959	-.3171	-.2603	
210.000	.0148	.0215	.0000	.3090	.4499	-.2732	-.3319	-.4474	
225.000		.0152	.0000	.2781	.3552	-.3401	-.3838	-.3925	
240.000		.0005	.0000	.1837	.1572	-.3787	-.9580	-.5598	-.2426
255.000		-.0201	-.0258	.1113	.1208	-.4748	-.5015	-.4549	-.2416
270.000	.0372	-.0465	-.0543	.0456	.0962	-.2676	-.4175	-.3840	
290.000	.0421	-.0861	-.1047	-.0313	.0721	-.3436	-.3938	-.3143	
320.000		.0000	.0000	.0000	.0000	-.4328	-.3499	-.3241	
360.000						-.3785	-.3409	-.3477	

ALPHA (2) = -.390 BETA (1) = -3.997

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0307	.0442	.2503	.3255				
195.000		-.0513	.0480	.2357	.3263	-.2524	-.5263	-.2897	
210.000	-.0367	-.0432	.0000	.2320	.3575	-.4568	-.5678	-.5577	
225.000		-.0413	.0000	.1849	.2830	-.5265	-.5832	-.5688	
240.000		-.0432	.0000	.0844	.0495	-.5988	-.7230	-.7131	-.2417
255.000		-.0569	-.0586	.0379	.0151	-.5675	-.5958	-.5784	-.2428
270.000	-.0100	-.0684	-.0821	-.0162	.0042	-.3584	-.4874	-.4665	
290.000	-.0114	-.0662	-.1314	-.0999	-.0107	-.4310	-.4678	-.4007	
320.000		.0000	.0000	.0000	.0000	-.4119	-.3724	-.3455	
360.000						-.3873	-.3379	-.3558	

ALPHA (2) = -.378 BETA (2) = .016

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0005	.0661	.2715	.4988				
195.000		-.0129	.0677	.2799	.4440	-.1438	-.3682	-.2376	
210.000	.0090	-.0203	.0000	.2775	.4209	-.3102	-.3702	-.4194	
225.000		-.0289	.0000	.2410	.3774	-.3609	-.4186	-.4011	
240.000		-.0481	.0000	.1666	.2419	-.3745	-.5456	-.5444	-.2102
255.000		-.0838	-.0884	.0955	.1227	-.4508	-.5226	-.4330	-.2244
270.000	.0206	-.1194	-.1281	.0237	.0930	-.2620	-.4090	-.4159	
290.000	.0188	-.0856	-.1899	-.0636	.0676	-.3372	-.3810	-.3031	
320.000		.0000	.0000	.0000	.0000	-.4242	-.3179	-.2899	
360.000						-.3678	-.3219	-.3049	

ORIGINAL PAGE IS
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ARC11-014IA19 OTS+STRUT SRB-NOM MPS-OFF CRB BODY

(REUB13)

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -0.327	BETA (3) = 4.028	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002		
		PHI											
		180.000		-.0060	.0392	.2395	.3157						
		195.000		-.0733	.0354	.2676	.3038	.0417	-.1566	-.2720			
		210.000	-.0493	-.0927	.0000	.2970	.2262	-.2221	-.1889	-.3470			
		225.000		-.1238	.0000	.2994	.2683	-.2933	-.2116	-.2615			
		240.000		-.1771	.0000	.2212	.2038	-.2872	-.2569	-.3318	-.2342		
		255.000		-.1769	-.2010	.0838	.2010	-.3595	-.3702	-.2921	-.2520		
		270.000	.0233	-.2063	-.2494	-.0089	.1557	-.1830	-.3292	-.2523			
		290.000	.0380	-.1329	-.3095	-.1069	.1129	-.2527	-.2806	-.2410			
		320.000		.0000	.0000	.0000	.0000	-.4201	-.4051	-.3693			
		360.000						-.2934	-.3690	-.3547			
		ALPHA (3) = 3.909	BETA (1) = .000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
				PHI									
				180.000		-.0476	-.0027	.1478	.3569				
				195.000		-.0617	-.0094	.1553	.3015	-.1691	-.3610	-.2455	
				210.000	-.0088	-.0749	.0000	.1561	.3273	-.3444	-.4006	-.4236	
				225.000		-.0969	.0000	.1401	.2756	-.4214	-.4711	-.4284	
				240.000		-.1313	.0000	.0823	.1067	-.4354	-.6058	-.4419	-.2186
				255.000		-.1745	-.2070	.0239	.0445	-.4922	-.5778	-.2750	-.2308
				270.000	-.0110	-.2155	-.2740	-.0671	.0313	-.3071	-.4441	-.3053	
				290.000	-.0149	-.1010	-.3454	-.1673	.0185	-.3875	-.4309	-.2901	
				320.000		.0000	.0000	.0000	.0000	-.4212	-.3220	-.3041	
				360.000						-.3507	-.3316	-.3276	

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-OFF CRB BODY

(REUB14) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 90.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -5.142 BETA (1) = -.006

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0153	.3426	.6540	.8424				
195.000		.1663	.3798	.5834	.8323	.1986	-.0350	-.3430	
210.000	-.1184	.2378	.0000	.6692	.5401	.0222	-.0542	-.1980	
225.000		.1720	.0000	.6510	.4741	-.0369	-.1002	-.1149	
240.000		.1723	.0000	.5716	.2218	-.0686	-.2499	-.2420	-.3656
255.000		.1795	.2693	.5123	.3245	-.1377	-.1747	-.2398	-.3993
270.000	-.0413	.1360	.2234	.4395	.3133	.0319	-.1157	-.2340	
290.000	-.0330	-.0083	.1730	.3526	.3012	-.0306	-.0894	-.3549	
320.000		.0000	.0000	.0000	.0000	-.4575	-.4090	-.3776	
360.000						-.3650	-.3853	-.3590	

ALPHA (2) = -.321 BETA (1) = -4.003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.1675	.3330	.4010	.4531				
195.000		.1709	.3464	.3743	.4804	.0514	-.2354	-.3886	
210.000	.1057	.1593	.0000	.3406	.4288	-.1515	-.2686	-.3769	
225.000		.2021	.0000	.3672	.3343	-.1977	-.2781	-.2832	
240.000		.2480	.0000	.3046	.0692	-.2319	-.3949	-.3935	-.4069
255.000		.2292	.1533	.2890	.1855	-.2336	-.2671	-.3289	-.4442
270.000	.0939	.2105	.1047	.2140	.2351	-.0503	-.1833	-.3157	
290.000	.0916	.0445	.0308	.1668	.2264	-.1112	-.1774	-.4044	
320.000		.0000	.0000	.0000	.0000	-.4060	-.3963	-.3966	
360.000						-.3413	-.3591	-.3373	

ALPHA (2) = -.432 BETA (2) = .016

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0432	.2325	.3573	.5083				
195.000		.1116	.2570	.3731	.4730	.1791	-.0537	-.3304	
210.000	-.0956	.0817	.0000	.3992	.4707	.0367	-.0776	-.2230	
225.000		.0942	.0000	.3979	.4599	-.0318	-.1218	-.1455	
240.000		.1028	.0000	.3498	.3612	-.0641	-.2420	-.2422	-.3488
255.000		.0783	.1059	.2980	.3199	-.1255	-.2034	-.2521	-.3864
270.000	-.0463	.0071	.0488	.2388	.3029	.0308	-.1182	-.2420	
290.000	-.0334	-.0314	-.0033	.1595	.2921	-.0360	-.0759	-.3593	
320.000		.0000	.0000	.0000	.0000	-.4301	-.3889	-.3361	
360.000						-.3249	-.3307	-.3162	

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ARC11-014IA19 OTS+STRUT SRB-NOM MPS-OFF CRB BODY

(REUB14)

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -0.396	BETA (3) = 4.025	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.0904	.2112	.3111	.3921		.0816	-.3593	
		195.000		.0273	.1937	.3033	.3969	.3148	.0227	-.1307	
		210.000	-.0222	.0191	.0000	.4027	.3907	.0376			
		225.000		-.0082	.0000	.4138	.4076	-.0492	-.0643	-.0547	
		240.000		-.0143	.0000	.3270	.2976	-.0142	-.1678	-.1569	-.3428
		255.000		.0131	-.1493	.2193	.3104	-.0698	-.1679	-.2230	-.4062
		270.000	.0814	.0103	-.1495	.0941	.2870	.0693	-.0795	-.2131	
		290.000	.0372	-.0189	-.2082	-.0660	.2669	.0157	-.0328	-.3452	
		320.000		.0000	.0000	.0000	.0000	-.4467	-.4254	-.4206	
		360.000						-.3050	-.3641	-.3499	
ALPHA (3) = 3.864	BETA (1) = .003	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.1322	.2010	.3075	.5485				
		195.000		.1633	.1904	.3967	.5052	.1086	-.1276	-.3606	
		210.000	.0916	.1369	.0000	.3820	.4347	-.0818	-.1512	-.2796	
		225.000		.1077	.0000	.3710	.4033	-.1478	-.1938	-.1985	
		240.000		.0849	.0000	.3435	.2219	-.1184	-.2931	-.2906	-.3707
		255.000		.0486	-.0900	.2710	.2227	-.1589	-.2574	-.2955	-.4101
		270.000	.0393	.0300	-.1262	.1404	.2272	-.0086	-.1387	-.2721	
		290.000	.0516	.0508	-.1813	-.0460	.2284	-.0773	-.1220	-.3822	
		320.000		.0000	.0000	.0000	.0000	-.4415	-.4308	-.3728	
		360.000						-.3390	-.3473	-.3315	

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-OFF CRB BODY

(REUS15) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.250
 GINGAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.113 BETA (1) = .003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0146	.0640	.4172	.5391				
195.000		-.0165	.0589	.4255	.5089	.3080	.0584	-.2575	
210.000	-.1241	-.0120	.0000	.4214	.4103	.0972	.0123	-.1089	
225.000		.0028	.0000	.3883	.3664	.0108	-.0463	-.0482	
240.000		.0217	.0000	.2930	.0906	-.0033	-.1827	-.1807	-.2480
255.000		.0361	-.0305	.2799	.1865	-.0903	-.1141	-.1408	-.2638
270.000	-.0466	.0290	-.0636	.2074	.2133	.0633	-.0419	-.1195	
290.000	-.0306	-.0301	-.0906	.1282	.2211	-.0086	-.0270	-.2115	
320.000		.0000	.0000	.0000	.0000	-.3423	-.3154	-.2980	
360.000						-.2640	-.2689	-.2441	

ALPHA (2) = -3.990 BETA (1) = -4.000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0426	.0131	.3082	.3309				
195.000		-.0295	.0516	.2888	.3450	.1609	-.1029	-.2838	
210.000	-.1701	-.0271	.0000	.2757	.2782	-.0174	-.1526	-.2627	
225.000		-.0181	.0000	.2611	.2826	-.0675	-.1809	-.2053	
240.000		-.0087	.0000	.2073	.0068	-.1119	-.3053	-.3337	-.2907
255.000		.0052	-.0110	.2147	.1261	-.1665	-.1843	-.2278	-.3195
270.000	-.0664	.0039	-.0669	.1416	.1831	.0011	-.1041	-.2039	
290.000	-.0613	-.0013	-.1221	.0697	.2036	-.0463	-.1081	-.2559	
320.000		.0000	.0000	.0000	.0000	-.3084	-.2876	-.2767	
360.000						-.2553	-.2636	-.2259	

ALPHA (2) = -3.363 BETA (2) = .012

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0245	.1120	.3315	.4171				
195.000		-.0000	.1128	.3100	.4066	.2561	.0270	-.2506	
210.000	-.1235	.0000	.0000	.2745	.3517	.0960	-.0220	-.1442	
225.000		.0064	.0000	.2720	.3555	.0500	-.0729	-.0919	
240.000		.0177	.0000	.2485	.2189	-.0257	-.1941	-.2073	-.2626
255.000		.0291	-.0562	.1668	.1655	-.0996	-.1620	-.1798	-.2684
270.000	-.0477	.0131	-.1069	.0481	.1611	.0374	-.0563	-.1450	
290.000	-.0422	-.0085	-.1517	-.1283	.1869	-.0221	-.0293	-.2257	
320.000		.0000	.0000	.0000	.0000	-.3256	-.3108	-.2957	
360.000						-.2285	-.2495	-.2321	

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ARC11-014IA19 OTS+STRUT SRB-NCM MPS-OFF ORB BODY

(REUB15)

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -0.294	BETA (3) = 4.028	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		-.0179	-.0967	.3022	.3382				
		195.000		-.0249	-.0314	.3135	.3486	.4106	.1581	-.2538	
		210.000	-.1391	-.0204	.0000	.3228	.3052	.0494	.0752	-.0593	
		225.000		-.0299	.0000	.3112	.2912	-.0191	-.0313	.0006	
		240.000		-.0594	.0000	.2545	.1722	.0185	-.1648	-.1204	-.2284
		255.000		.0238	-.1245	.0872	.1499	-.0602	-.1357	-.1682	-.2643
		270.000	-.0212	.0268	-.1500	-.1389	.0965	.0474	-.0286	-.1287	
		290.000	-.0055	-.0341	-.1851	-.2288	.0752	.0111	.0093	-.2114	
		320.000		.0000	.0000	.0000	.0000	-.3393	-.3322	-.3701	
		360.000						-.2076	-.2671	-.2499	
ALPHA (3) = 3.834	BETA (1) = .012	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		-.0567	.0957	.3086	.4178				
		195.000		.0143	.0950	.2886	.3845	.1913	-.0311	-.2798	
		210.000	-.1093	.0148	.0000	.2889	.2817	-.0145	-.0820	-.1980	
		225.000		.0148	.0000	.2882	.2775	-.0895	-.1450	-.1270	
		240.000		.0116	.0000	.2591	.1369	-.0656	-.2486	-.2229	-.2823
		255.000		.0267	-.1102	.1556	.1146	-.1202	-.1927	-.2178	-.2881
		270.000	-.0851	.0055	-.1521	-.0434	.0770	-.0064	-.0801	-.1713	
		290.000	-.0884	.0181	-.2019	-.2310	.0918	-.0582	-.0531	-.2409	
		320.000		.0000	.0000	.0000	.0000	-.3175	-.3398	-.3449	
		360.000						-.2259	-.2570	-.2518	

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-OFF CRB BODY

(REUB16) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.095	BETA (1) = .012	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		-.0145	-.0064	.3525	.4419				
		195.000		-.0327	-.0017	.3558	.4368	.3664	.1297	-.2032	
		210.000	-.1122	-.0281	.0000	.3585	.3628	.1392	.0684	-.0422	
		225.000		-.0215	.0000	.3345	.3189	.0582	-.0018	-.0036	
		240.000		-.0098	.0000	.2285	.0914	.0599	-.1457	-.1500	-.2009
		255.000		.0083	-.0185	.2242	.1427	-.0674	-.0885	-.1038	-.1787
		270.000	-.0545	.0208	-.0373	.1379	.1519	.0571	-.0116	-.0741	
		290.000	-.0330	-.0111	-.0872	-.0170	.1840	.0102	.0061	-.1333	
		320.000		.0000	.0000	.0000	.0000	-.2740	-.2567	-.2781	
		360.000						-.1821	-.2170	-.2195	
ALPHA (2) = -.393	BETA (1) = -4.000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		-.0337	-.0180	.2516	.2505				
		195.000		-.0576	.0089	.2397	.2768	.1993	.0012	-.2179	
		210.000	-.2115	-.0464	.0000	.2407	.2735	.0683	-.0664	-.1711	
		225.000		-.0307	.0000	.2272	.2214	.0095	-.1016	-.1326	
		240.000		-.0261	.0000	.1644	.0130	-.0334	-.2401	-.2898	-.2162
		255.000		-.0231	-.0340	.1738	.1024	-.1293	-.1395	-.1696	-.2355
		270.000	-.0854	-.0087	-.0633	.0867	.1373	.0207	-.0678	-.1398	
		290.000	-.0631	.0169	-.1071	-.0588	.1709	-.0267	-.0704	-.1631	
		320.000		.0000	.0000	.0000	.0000	-.2312	-.2202	-.2092	
		360.000						-.1943	-.1959	-.1567	
ALPHA (2) = -.291	BETA (2) = -.003	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		-.0180	.0352	.2876	.3713				
		195.000		-.0229	.0478	.2705	.3659	.2953	.0942	-.1978	
		210.000	-.1429	-.0223	.0000	.2266	.2878	.1357	.0382	-.0768	
		225.000		-.0195	.0000	.2316	.2778	.1119	-.0247	-.0489	
		240.000		-.0176	.0000	.2219	.1863	.0428	-.1548	-.1888	-.2121
		255.000		.0104	-.0541	.1486	.1306	-.1215	-.1287	-.1446	-.2024
		270.000	-.0563	.0189	-.0655	.0076	.1078	.0247	-.0415	-.1124	
		290.000	-.0427	.0179	-.1246	-.1481	.0773	-.0295	-.0229	-.1434	
		320.000		.0000	.0000	.0000	.0000	-.2676	-.2507	-.2760	
		360.000						-.1663	-.1916	-.1P43	

ARC11-0141A19 OTS+STRUT SRB-NOM MPS-OFF CRB BODY

(REUB16)

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -0.318	BETA (3) = 4.025	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		-.0056	-.0146	.2519	.2510				
		195.000		-.0016	-.0403	.2708	.3032	.4343	.2134	-.1759	
		210.000	-.1194	-.0794	.0000	.2804	.2584	.0314	.1127	.0010	
		225.000		-.0575	.0000	.2629	.2524	.0390	-.0155	.0269	
		240.000		-.0390	.0000	.1909	.1769	.0878	-.1259	-.1141	-.1724
		255.000		.0541	-.0549	-.0021	.1424	-.0466	-.1347	-.1359	-.1957
		270.000	-.0126	.0722	-.0732	-.1041	.0961	.0325	-.0176	-.0975	
		290.000	.0015	.0008	-.1199	-.1000	-.0050	-.0128	.0270	-.1216	
		320.000		.0000	.0000	.0000	.0000	-.2812	-.2629	-.3292	
		360.000						-.1497	-.2067	-.1901	
ALPHA (3) = 3.861	BETA (1) = -.006	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		-.0421	.1231	.2448	.3183				
		195.000		.0014	.1344	.2219	.3089	.2013	.0426	-.2120	
		210.000	-.1501	-.0045	.0000	.2066	.2481	.0419	-.0163	-.1302	
		225.000		-.0222	.0000	.2369	.2550	-.0510	-.0997	-.0897	
		240.000		-.0562	.0000	.1959	.1418	-.0251	-.2129	-.2199	-.2250
		255.000		-.0231	-.0939	.0277	.1164	-.1469	-.2073	-.1938	-.2272
		270.000	-.0533	-.0166	-.1095	-.1403	.0496	-.0234	-.0749	-.1600	
		290.000	-.0546	.0470	-.1765	-.2122	-.0120	-.0776	-.0469	-.1655	
		320.000		.0000	.0000	.0000	.0000	-.2481	-.2646	-.2795	
		360.000						-.1477	-.1829	-.1633	

ARC11-014IA19 OTS+STRUT SRB-HI MPS-HI CRB BODY

(REUB17) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BRP = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.155 BETA (1) = .009

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0000	.1299	.3274	.5427				
195.000		.0397	.1299	.3349	.5069	-.0774	-.3024	-.4642	
210.000	.0319	.0401	.0000	.3360	.4679	-.2574	-.3055	-.4758	
225.000		.0344	.0000	.3056	.3632	-.3129	-.3553	-.3747	
240.000		.0250	.0000	.2139	.1815	-.3495	-.5236	-.5286	-.5768
255.000		.0047	.0065	.1424	.1454	-.4379	-.4715	-.5327	-.4599
270.000	.0525	-.0210	-.0248	.0788	.1191	-.2355	-.3973	-.5029	
290.000	.0580	-.0733	-.0756	-.0010	.0938	-.3092	-.3616	-.4385	
320.000		.0000	.0000	.0000	.0000	-.4132	-.3450	-.3110	
360.000						-.3609	-.3213	-.3234	

ALPHA (2) = -.426 BETA (1) = -4.003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0000	.0313	.2498	.3323				
195.000		-.0582	.0337	.2377	.3362	-.2580	-.5434	-.5127	
210.000	-.0328	-.0517	.0000	.2363	.3723	-.4715	-.5827	-.6678	
225.000		-.0459	.0000	.1898	.2848	-.5327	-.5905	-.5839	
240.000		-.0479	.0000	.0907	.0418	-.6062	-.7290	-.7181	-.5491
255.000		-.0616	-.0611	.0417	.0115	-.5726	-.6053	-.6584	-.4971
270.000	-.0064	-.0749	-.0857	-.0142	.0020	-.3624	-.5035	-.6356	
290.000	-.0102	-.0822	-.1343	-.0913	-.0134	-.4380	-.4744	-.5522	
320.000		.0000	.0000	.0000	.0000	-.4549	-.4041	-.3565	
360.000						-.4168	-.3399	-.3387	

ALPHA (2) = -.447 BETA (2) = .009

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0000	.0720	.2773	.5011				
195.000		-.0149	.0683	.2843	.4468	-.1401	-.3813	-.4710	
210.000	.0136	-.0208	.0000	.2808	.4405	-.3123	-.3713	-.5088	
225.000		-.0299	.0000	.2447	.3858	-.3616	-.4164	-.4302	
240.000		-.0513	.0000	.1720	.2424	-.3754	-.5507	-.5808	-.5286
255.000		-.0867	-.0841	.1010	.1259	-.4499	-.5246	-.5655	-.3666
270.000	.0244	-.1197	-.1326	.0279	.1006	-.2586	-.4199	-.5418	
290.000	.0248	-.0981	-.1933	-.0583	.0710	-.3341	-.3784	-.4575	
320.000		.0000	.0000	.0000	.0000	-.4556	-.3430	-.3127	
360.000						-.3849	-.3236	-.3189	

ARC11-014IA19 OTS+STRUT SRB-HI MPS-HI CRB BODY

(REUB17)

SECTION (1) CRITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.435 BETA (3) = 4.028

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0000	.0584	.2711	.3549				
195.000		-.0741	.0412	.3030	.3448	.0344	-.1812	-.4569	
210.000	-.0306	-.0972	.0000	.3318	.2356	-.2341	-.1874	-.3504	
225.000		-.1244	.0000	.3324	.2788	-.2884	-.2615	-.2369	
240.000		-.1717	.0000	.2578	.2097	-.2900	-.4108	-.3089	-.4095
255.000		-.1627	-.1749	.1281	.2087	-.3541	-.4514	-.2529	-.4805
270.000	.0437	-.1860	-.2230	.0599	.1688	-.1841	-.3477	-.2293	
290.000	.0572	-.1401	-.2828	-.0563	.1226	-.2434	-.3045	-.2225	
320.000		.0000	.0000	.0000	.0000	-.4623	-.3731	-.3262	
360.000						-.3393	-.3200	-.3123	

ALPHA (3) = 3.930 BETA (1) = .000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0000	-.0137	.1843	.4054				
195.000		-.0683	-.0212	.1920	.3931	-.1808	-.4094	-.4932	
210.000	-.0032	-.0820	.0000	.1839	.3328	-.3615	-.4700	-.5731	
225.000		-.1056	.0000	.1590	.2616	-.4419	-.5190	-.5170	
240.000		-.1406	.0000	.1106	.1061	-.4459	-.6330	-.6244	-.3572
255.000		-.1818	-.2577	.0443	.0457	-.5016	-.6027	-.6286	-.4025
270.000	-.0103	-.2234	-.3263	-.0572	.0300	-.3155	-.4718	-.6134	
290.000	-.0125	-.1171	-.4034	-.1560	.0150	-.3927	-.4420	-.4864	
320.000		.0000	.0000	.0000	.0000	-.4770	-.3605	-.3209	
360.000						-.3789	-.3451	-.3242	

ARC11-014IA19 OTS+STRUT SRB-HI MPS-HI CRB BODY

(REUB10) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.098 BETA (1) = .000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.2587	.3543	.4680	.6094				
195.000		.2610	.3632	.4783	.6031	.1991	-.0363	-.4043	
210.000	-.0547	.2497	.0000	.4731	.5247	.0251	-.0577	-.2000	
225.000		.2365	.0000	.4560	.4591	-.0285	-.1034	-.1122	
240.000		.2196	.0000	.4200	.2330	-.0496	-.2391	-.2391	-.4000
255.000		.1941	.1834	.3585	.3212	-.1265	-.1731	-.2391	-.4258
270.000	-.0081	.1626	.1584	.2985	.3097	.0343	-.1162	-.2316	
290.000	.0042	.0267	.0862	.2313	.3011	-.0254	-.0853	-.3507	
320.000		.0000	.0000	.0000	.0000	-.4089	-.3551	-.3133	
360.000						-.3191	-.3247	-.2994	

ALPHA (2) = -.396 BETA (1) = -4.003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.1461	.1962	.3417	.5120				
195.000		.0792	.2010	.3229	.5254	.0542	-.2314	-.4781	
210.000	.0112	.1250	.0000	.3646	.4372	-.1493	-.2660	-.3737	
225.000		.1352	.0000	.4278	.3440	-.1955	-.2724	-.2793	
240.000		.2001	.0000	.3532	.0733	-.2270	-.3901	-.3913	-.4831
255.000		.1876	.1532	.3349	.1903	-.2312	-.2638	-.3253	-.4834
270.000	.0117	.1538	.0778	.2760	.2371	-.0481	-.1801	-.3133	
290.000	.0736	.0801	.0146	.2056	.2302	-.1083	-.1758	-.3993	
320.000		.0000	.0000	.0000	.0000	-.3547	-.3503	-.3420	
360.000						-.2962	-.3118	-.2944	

ALPHA (2) = -.438 BETA (2) = .009

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.1301	.2855	.4055	.4900				
195.000		.1707	.2866	.4027	.5242	.1914	-.0456	-.4081	
210.000	-.1055	.1755	.0000	.3792	.4661	.0435	-.0725	-.2198	
225.000		.1541	.0000	.3900	.4529	-.0308	-.1160	-.1405	
240.000		.1269	.0000	.3751	.3530	-.0611	-.2367	-.2376	-.3904
255.000		.1010	.0687	.3273	.3178	-.1219	-.1987	-.2494	-.4163
270.000	-.0807	.0713	.0179	.2716	.3034	.0358	-.1129	-.2376	
290.000	-.0493	.0039	-.0467	.1886	.2929	-.0314	-.0745	-.3550	
320.000		.0000	.0000	.0000	.0000	-.3902	-.3434	-.2925	
360.000						-.2882	-.2946	-.2766	

ARC11-014IA19 OTS+STRUT SRB-HI MPS-HI CRB BODY

(REUB16)

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -0.573	BETA (3) = 4.028	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.0484	.2208	.4896	.5776				
		195.000		.0389	.1958	.5515	.5691	.3179	.0834	-.4184	
		210.000	-.0318	.0255	.0000	.5113	.3939	.0406	.0261	-.1282	
		225.000		.0081	.0000	.5105	.4124	-.0476	-.0695	-.0521	
		240.000		-.0295	.0000	.5200	.2973	-.0114	-.1652	-.1546	-.3665
		255.000		.0275	-.0882	.3750	.3117	-.0668	-.1664	-.2195	-.4253
		270.000	.0995	.0199	-.1139	.2282	.2907	.0699	-.0786	-.2116	
		290.000	.1041	-.0167	-.1643	.0282	.2665	.0179	-.0323	-.3404	
		320.000		.0000	.0000	.0000	.0000	-.3871	-.3698	-.3453	
		360.000						-.2546	-.3073	-.2991	
ALPHA (3) = 3.915	BETA (1) = .000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.1853	.2201	.4659	.5830				
		195.000		.1852	.2305	.4498	.5216	.1120	-.1264	-.4284	
		210.000	.1037	.1737	.0000	.4405	.4172	-.0798	-.1507	-.2777	
		225.000		.0719	.0000	.4098	.4009	-.1470	-.1923	-.1958	
		240.000		.0102	.0000	.3631	.2235	-.1171	-.2907	-.2880	-.4138
		255.000		.0195	-.0717	.3538	.2276	-.1570	-.2541	-.2947	-.4343
		270.000	.0902	.0377	-.0943	.1941	.2286	-.0064	-.1373	-.2703	
		290.000	.0544	.0625	-.1506	.0174	.2275	-.0735	-.1211	-.3784	
		320.000		.0000	.0000	.0000	.0000	-.4113	-.3897	-.3249	
		360.000						-.3054	-.3172	-.2978	

ARC11-014IA19 OTS+STRUT BRB-HI MPS-HI ORB BODY

(RELB19) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-C8 = 4.000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.185 BETA (1) = -.009

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0181	.0643	.4192	.5374				
195.000		-.0168	.0563	.4230	.5042	.3067	.0566	-.2936	
210.000	-.1259	-.0124	.0000	.4184	.4122	.0941	.0094	-.1122	
225.000		-.0002	.0000	.3875	.3683	.0064	-.0497	-.0524	
240.000		.0204	.0000	.2913	.0909	-.0090	-.1870	-.1881	-.2718
255.000		.0325	-.0292	.2762	.1846	-.0924	-.1157	-.1440	-.2713
270.000	-.0908	.0250	-.0656	.2047	.2153	.0621	-.0425	-.1209	
290.000	-.0332	-.0293	-.0919	.1300	.2221	-.0062	-.0265	-.2142	
320.000		.0000	.0000	.0000	.0000	-.2984	-.2565	-.2271	
360.000						-.2180	-.2241	-.1997	

ALPHA (2) = -.459 BETA (1) = -4.000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0252	.0135	.3050	.3232				
195.000		-.0295	.0566	.2863	.3398	.1635	-.0988	-.3404	
210.000	-.1725	-.0246	.0000	.2738	.2819	-.0138	-.1516	-.2623	
225.000		-.0178	.0000	.2586	.2832	-.0639	-.1793	-.2051	
240.000		-.0079	.0000	.2022	.0051	-.1116	-.3048	-.3369	-.3587
255.000		.0035	-.0108	.2115	.1267	-.1643	-.1842	-.2284	-.3324
270.000	-.0654	.0026	-.0703	.1427	.1824	.0021	-.1048	-.2037	
290.000	-.0602	.0002	-.1240	.0689	.2057	-.0437	-.1073	-.2550	
320.000		.0000	.0000	.0000	.0000	-.2599	-.2379	-.2257	
360.000						-.2135	-.2128	-.1878	

ALPHA (2) = -.438 BETA (2) = .012

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0019	.1025	.3353	.4197				
195.000		-.0022	.1042	.3159	.4137	.2552	.0256	-.2903	
210.000	-.1246	.0030	.0000	.2735	.3536	.0943	-.0219	-.1443	
225.000		.0058	.0000	.2718	.3517	.0534	-.0738	-.0889	
240.000		.0159	.0000	.2512	.2160	-.0207	-.1917	-.2069	-.2903
255.000		.0282	-.0641	.1767	.1638	-.1011	-.1592	-.1790	-.2773
270.000	-.0471	.0108	-.1060	.0565	.1595	.0357	-.0566	-.1429	
290.000	-.0369	-.0118	-.1529	-.1255	.1871	-.0210	-.0285	-.2238	
320.000		.0000	.0000	.0000	.0000	-.2871	-.2577	-.2224	
360.000						-.1909	-.2036	-.1824	

ORIGINAL PAGE IS
 OF POOR QUALITY

ARC11-014IA19 QTS+STRUT SRB-HI MPS-HI CRB BODY

(REUB19)

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.549 BETA (3) = 4.028

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0260	.0039	.3045	.3361				
195.000		-.0245	-.0254	.3147	.3454	.4154	.1656	-.2926	
210.000	-.1368	-.0232	.0000	.3254	.3050	.0528	.0714	-.0604	
225.000		-.0260	.0000	.3164	.2957	-.0147	-.0319	-.0719	
240.000		-.0538	.0000	.2540	.1683	.0211	-.1664	-.1205	-.2428
255.000		.0294	-.1202	.0782	.1524	-.0549	-.1347	-.1660	-.2661
270.000	-.0221	.0336	-.1446	-.1383	.0982	.0533	-.0286	-.1262	
290.000	-.0097	-.0278	-.1813	-.2250	.0782	.0202	.0099	-.2091	
320.000		.0000	.0000	.0000	.0000	-.2872	-.2835	-.2958	
360.000						-.1677	-.2177	-.1950	

ALPHA (3) = 3.316 BETA (1) = .012

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0066	.0954	.2984	.4088				
195.000		.0090	.0973	.2883	.3831	.1841	-.0367	-.3372	
210.000	-.1080	.0088	.0000	.2791	.2935	-.0065	-.0849	-.2096	
225.000		.0131	.0000	.2844	.2731	-.1007	-.1502	-.1359	
240.000		.0104	.0000	.2499	.1343	-.0773	-.2579	-.2333	-.3125
255.000		.0231	-.1121	-.1454	.1154	-.1257	-.2029	-.2281	-.2954
270.000	-.0888	.0001	-.1579	-.0534	.0772	-.0093	-.0876	-.1785	
290.000	-.0909	.0160	-.2072	-.2323	.0962	-.0651	-.0652	-.2461	
320.000		.0000	.0000	.0000	.0000	-.2907	-.2914	-.2607	
360.000						-.1956	-.2217	-.1989	



ARC11-014IA19 OTS+STRUT SRB-HI MPS-HI CRB BODY

(REUB20) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.167 BETA (1) = .003

Y/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0000	.0415	.3448	.4425				
195.000		-.0242	.0489	.3524	.4414	.3620	.1250	-.2343	
210.000	-.1046	-.0190	.0000	.3526	.3636	.1348	.0651	-.0447	
225.000		-.0104	.0000	.3300	.3166	.0570	-.0070	-.0096	
240.000		.0484	.0000	.2286	.0885	.0567	-.1499	-.1552	-.2215
255.000		.0264	-.0186	.2218	.1406	-.0705	-.0889	-.1065	-.1821
270.000	-.0475	.0722	-.0395	.1344	.1480	.0585	-.0113	-.0743	
290.000	-.0251	.0407	-.0866	-.0261	.1860	.0084	.0050	-.1332	
320.000		.0000	.0000	.0000	.0000	-.2327	-.1959	-.1798	
360.000						-.1409	-.1634	-.1538	

ALPHA (2) = -.489 BETA (1) = -4.003

Y/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0000	-.0127	.2513	.2462				
195.000		-.0605	.0102	.2371	.2756	.1974	.0003	-.2566	
210.000	-.2113	-.0467	.0000	.2396	.2724	.0671	-.0692	-.1736	
225.000		-.0308	.0000	.2241	.2226	.0103	-.1051	-.1350	
240.000		-.0262	.0000	.1639	.0110	-.0351	-.2441	-.2911	-.2884
255.000		-.0188	-.0384	.1742	.1023	-.1288	-.1425	-.1709	-.2388
270.000	-.0836	-.0068	-.0679	.0836	.1357	.0205	-.0725	-.1409	
290.000	-.0644	.0219	-.1128	-.0611	.1709	-.0243	-.0717	-.1624	
320.000		.0000	.0000	.0000	.0000	-.1773	-.1761	-.1575	
360.000						-.1419	-.1311	-.1279	

ALPHA (2) = -.432 BETA (2) = .009

Y/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0000	.0380	.2883	.3692				
195.000		-.0203	.0458	.2697	.3627	.3003	.0943	-.2281	
210.000	-.1423	-.0195	.0000	.2260	.2871	.1379	.0376	-.0751	
225.000		-.0142	.0000	.2253	.2831	.1157	-.0230	-.0438	
240.000		-.0111	.0000	.2262	.1993	.0496	-.1519	-.1891	-.2283
255.000		.0195	-.0505	.1458	.1287	-.1165	-.1224	-.1401	-.1933
270.000	-.0487	.0260	-.0629	.0079	.1109	.0303	-.0355	-.1044	
290.000	-.0334	.0263	-.1204	-.1426	.0824	-.0262	-.0137	-.1358	
320.000		.0000	.0000	.0000	.0000	-.2266	-.2024	-.1849	
360.000						-.1199	-.1465	-.1216	

ARC11-014IA19 OTS+STRUT SRB-HI MPS-HI CRB BODY

(RELB20)

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.486 BETA (3) = 4.025

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0000	-.0179	.2506	.2475				
195.000		-.0839	-.0378	.2682	.3036	.4203	.2058	-.2107	
210.000	-.1191	-.0793	.0000	.2754	.2601	.0205	.1089	-.0019	
225.000		-.0606	.0000	.2608	.2535	.0357	-.0226	.0259	
240.000		-.0415	.0000	.1865	.1812	.0850	-.1279	-.1166	-.1849
255.000		.0526	-.0539	-.0128	.1448	-.0486	-.1356	-.1375	-.1860
270.000	-.0117	.0753	-.0722	-.1045	.0968	.0280	-.0155	-.0394	
290.000	-.0003	.0026	-.1191	-.1602	-.0129	-.0154	.0232	-.1223	
320.000		.0000	.0000	.0000	.0000	-.2594	-.2286	-.2479	
360.000						-.1070	-.1578	-.1440	

ALPHA (3) = 3.657 BETA (1) = .009

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0000	.1290	.2472	.3158				
195.000		.0038	.1389	.2247	.3094	.2025	.0439	-.2355	
210.000	-.1470	-.0039	.0000	.2082	.2517	.0453	-.0142	-.1257	
225.000		-.0194	.0000	.2347	.2492	-.0480	-.0986	-.0881	
240.000		-.0476	.0000	.1926	.1488	-.0183	-.2108	-.2187	-.2582
255.000		-.0140	-.0900	.0250	.1226	-.1413	-.2032	-.1930	-.2124
270.000	-.0484	-.0057	-.1081	-.1417	.0541	-.0212	-.0712	-.1576	
290.000	-.0578	.0478	-.1690	-.2078	-.0086	-.0748	-.0474	-.1617	
320.000		.0000	.0000	.0000	.0000	-.2146	-.2240	-.1973	
360.000						-.1097	-.1372	-.1108	



ARC11-014IA19 OTS*STRUT SRB-OFF MPS-OFF CRB BODY

(REUB21) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.200	BETA (1) = .003	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.0000	-.0587	.3568	.4408				
		195.000		-.0278	-.0566	.3585	.4393	.3667	.1313	-.2624	
		210.000	-.1080	-.0259	.0000	.3522	.3670	.1395	.0659	-.0404	
		225.000		-.0171	.0000	.3200	.3208	.0593	-.0015	-.0025	
		240.000		-.0024	.0000	.2551	.0929	.0609	-.1477	-.1511	-.2232
		255.000		.0161	-.0150	.3040	.1418	-.0678	-.0847	-.1014	-.1868
		270.000	-.0495	-.0277	-.0369	.1581	.1541	.0601	-.0089	-.0704	
		290.000	-.0242	-.0081	-.0799	-.0207	.1878	.0102	.0099	-.1275	
		320.000		.0000	.0000	.0000	.0000	-.3495	-.3422	-.3958	
		360.000						-.2512	-.3279	-.2918	
ALPHA (2) = -.180	BETA (1) = -4.000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.0000	-.0145	.2486	.2466				
		195.000		-.0567	.0113	.2336	.2731	.1944	-.0020	-.2901	
		210.000	-.2116	-.0469	.0000	.2343	.2708	.0684	-.0703	-.1703	
		225.000		-.0302	.0000	.2221	.2222	.0100	-.1037	-.1318	
		240.000		-.0242	.0000	.1624	.0133	-.0322	-.2403	-.2884	-.2931
		255.000		-.0200	-.0367	.1735	.1016	-.1298	-.1395	-.1694	-.2616
		270.000	-.0859	-.0083	-.0689	.0836	.1354	.0192	-.0686	-.1398	
		290.000	-.0654	.0172	-.1119	-.0602	.1688	-.0267	-.0714	-.1621	
		320.000		.0000	.0000	.0000	.0000	-.2819	-.2714	-.2729	
		360.000						-.2480	-.2585	-.2144	
ALPHA (2) = -.291	BETA (2) = .012	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.0000	.0420	.2849	.3664				
		195.000		-.0211	.0480	.2608	.3579	.2977	.0975	-.2905	
		210.000	-.1420	-.0189	.0000	.2264	.2923	.1408	.0431	-.0735	
		225.000		-.0154	.0000	.2320	.2837	.1110	-.0236	-.0438	
		240.000		-.0121	.0000	.2229	.1912	.0428	-.1516	-.1869	-.2335
		255.000		.0144	-.0500	.1423	.1313	-.1204	-.1255	-.1417	-.2191
		270.000	-.0447	.0231	-.0638	.0009	.1107	.0271	-.0364	-.1094	
		290.000	-.0342	.0209	-.1240	-.1471	.0719	-.0287	-.0184	-.1369	
		320.000		.0000	.0000	.0000	.0000	-.3237	-.3097	-.3415	
		360.000						-.2049	-.2185	-.2202	

ARC11-014IA19 OTS+STRUT SRB-OFF HPS-OFF CRB BODY

(REUB21)

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.306 BETA (3) = 4.028

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0000	.0694	.2523	.2469				
195.000		-.0012	.0465	.2689	.2956	.4333	.2123	-.2307	
210.000	-.1138	.0028	.0000	.2752	.2580	.0319	.1113	-.0039	
225.000		.0272	.0000	.2396	.2478	.0372	-.0182	.0233	
240.000		.0474	.0000	.1832	.1741	.0861	-.1267	-.1148	-.1965
255.000		.1545	-.0562	-.0072	.1422	-.0479	-.1336	-.1375	-.2150
270.000	-.0063	.1709	-.0746	-.1070	.0955	.0226	-.0166	-.1016	
290.000	-.0016	.0886	-.1203	-.1632	-.0126	-.0178	.0267	-.1230	
320.000		.0000	.0000	.0000	.0000	-.3512	-.3197	-.3885	
360.000						-.2144	-.2531	-.2324	

ALPHA (3) = 3.969 BETA (1) = .006

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0000	.1181	.2457	.3157				
195.000		.0008	.1304	.2216	.3048	.1985	.0385	-.2773	
210.000	-.1492	-.0049	.0000	.2102	.2522	.0377	-.0185	-.1305	
225.000		-.0247	.0000	.2307	.2477	-.0549	-.1012	-.0897	
240.000		-.0573	.0000	.1922	.1392	-.0198	-.2149	-.2204	-.2640
255.000		-.0275	-.0948	.0262	.1175	-.1449	-.2084	-.1976	-.2520
270.000	-.0546	-.0148	-.1143	-.1459	.0471	-.0284	-.0756	-.1619	
290.000	-.0554	.0416	-.1754	-.2150	-.0144	-.0812	-.0480	-.1650	
320.000		.0000	.0000	.0000	.0000	-.3126	-.3278	-.3385	
360.000						-.1917	-.2092	-.2084	

ARC11-014IA19 OTS+STRUT SRB-NON MPS-NON ORB BODY

(REUS22) (19 OCT 74)

REFERENCE DATA

SREF = 2696.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.167 BETA (1) = .006

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		.0000	-.0190	.3472	.4223				
195.000		-.0380	-.0012	.3539	.4202	.3614	.1274	-.2499	
210.000	-.1147	-.0315	.0000	.3391	.3651	.1376	.0616	-.0454	
225.000		-.0280	.0000	.3205	.3163	.0570	-.0049	-.0077	
240.000		-.0123	.0000	.2204	.0923	.0578	-.1515	-.1538	-.2256
255.000		.0075	-.0159	.2175	.1423	-.0712	-.0901	-.1067	-.1681
270.000	-.0679	.0214	-.0352	.1343	.1490	.0562	-.0133	-.0753	
290.000	-.0431	-.0122	-.0831	-.0281	.1869	.0590	.0042	-.1325	
320.000		.0000	.0000	.0000	.0000	-.2951	-.2435	-.2489	
360.000						-.1731	-.2051	-.1937	

ALPHA (2) = -3.348 BETA (1) = -3.997

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		.0000	-.0173	.2497	.2427				
195.000		-.0582	.0102	.2364	.2722	.1931	.0004	-.2832	
210.000	-.2133	-.0470	.0000	.2381	.2723	.0692	-.0675	-.1703	
225.000		-.0335	.0000	.2244	.2190	.0095	-.1020	-.1312	
240.000		-.0269	.0000	.1614	.0126	-.0324	-.2407	-.2897	-.3016
255.000		-.0222	-.0362	.1719	.1032	-.1297	-.1408	-.1688	-.2569
270.000	-.0866	-.0086	-.0645	.0835	.1365	.0192	-.0703	-.1417	
290.000	-.0643	.0151	-.1112	-.0809	.1711	-.0268	-.0718	-.1624	
320.000		.0000	.0000	.0000	.0000	-.2309	-.2088	-.2004	
360.000						-.1816	-.1676	-.1441	

ALPHA (2) = -.366 BETA (2) = .012

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		.0000	.0351	.2914	.3822				
195.000		-.0219	.0423	.2685	.3743	.3036	.1002	-.2473	
210.000	-.1402	-.0196	.0000	.2280	.2901	.1338	.0402	-.0722	
225.000		-.0134	.0000	.2284	.2810	.1139	-.0198	-.0410	
240.000		-.0127	.0000	.2219	.1931	.0795	-.1499	-.1854	-.2359
255.000		.0130	-.0482	.1480	.1294	-.1188	-.1225	-.1384	-.2097
270.000	-.0493	.0218	-.0634	.0360	.1104	.0289	-.0359	-.1062	
290.000	-.0363	.0168	-.1215	-.1459	.0800	-.0271	-.0153	-.1355	
320.000		.0000	.0000	.0000	.0000	-.2874	-.2424	-.2462	
360.000						-.1543	-.1758	-.1570	

ORIGINAL PAGE IS
 OF POOR QUALITY

ARC11-014IA19 OTS+STRUT SRB-NCM MPS-NCM CRB BODY

(REUS22)

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.522 BETA (3) = 4.031

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		.0000	-.0247	.2528	.2491				
195.000		-.0839	-.0414	.2720	.2965	.4309	.2059	-.2247	
210.000	-.1204	-.0811	.0000	.2801	.2593	.0193	.1107	-.0013	
225.000		-.0577	.0000	.2627	.2532	.0334	-.0198	.0253	
240.000		-.0408	.0000	.1879	.1784	.0851	-.1273	-.1129	-.1905
255.000		.0484	-.0542	-.0081	.1446	-.0468	-.1335	-.1348	-.2050
270.000	-.0139	.0678	-.0733	-.1038	.0957	.0289	-.0167	-.0975	
290.000	-.0027	-.0032	-.1192	-.1608	-.0125	-.0171	.0268	-.1227	
320.000		.0000	.0000	.0000	.0000	-.3206	-.2648	-.3047	
360.000						-.1468	-.1956	-.1774	

ALPHA (3) = 3.942 BETA (1) = .012

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		.0000	.1182	.2415	.3128				
195.000		.0019	.1304	.2190	.3043	.2015	.0378	-.2651	
210.000	-.1483	-.0060	.0000	.2028	.2492	.0394	-.0192	-.1320	
225.000		-.0231	.0000	.2365	.2527	-.0530	-.0999	-.0885	
240.000		-.0588	.0000	.1902	.1419	-.0201	-.2138	-.2177	-.2700
255.000		-.0252	-.0954	.0264	.1128	-.1464	-.2073	-.1939	-.2357
270.000	-.0518	-.0157	-.1132	-.1464	.0488	-.0253	-.0710	-.1581	
290.000	-.0598	.0391	-.1752	-.2152	-.0128	-.0801	-.0508	-.1647	
320.000		.0000	.0000	.0000	.0000	-.2781	-.2615	-.2554	
360.000						-.1389	-.1683	-.1466	

ARC11-0141A19 OTS+STRUT SRB-OFF MPS-OFF CRB BODY

(REUB23) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = .000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.047 BETA (1) = .000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0000	.1104	.3270	.5299				
195.000		.0384	.1096	.3348	.4934	-.0783	-.3088	-.2583	
210.000	.0296	.0333	.0000	.3338	.4640	-.2607	-.3143	-.4294	
225.000		.0329	.0000	.3007	.3686	-.3203	-.3642	-.3709	
240.000		.0165	.0000	.2103	.1793	-.3541	-.5412	-.5307	-.2456
255.000		-.0059	.0749	.1353	.1429	-.4439	-.4728	-.3632	-.2476
270.000	.0527	-.0315	-.0268	.0668	.1149	-.2420	-.3709	-.3245	
290.000	.0541	-.0632	-.0745	-.0092	.0906	-.3169	-.3614	-.2427	
320.000		.0000	.0000	.0000	.0000	-.4634	-.3490	-.3180	
360.000						-.3778	-.3462	-.3340	

ALPHA (2) = -.276 BETA (1) = -4.003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0000	.0439	.2563	.3344				
195.000		-.0424	.0453	.2441	.3405	-.2397	-.5280	-.3041	
210.000	-.0219	-.0378	.0000	.2417	.3770	-.4467	-.5678	-.5635	
225.000		-.0318	.0000	.1975	.2910	-.5142	-.5791	-.5666	
240.000		-.0354	.0000	.0969	.0678	-.5829	-.7188	-.7056	-.2545
255.000		-.0524	-.0560	.0453	.0293	-.5533	-.5854	-.5690	-.2392
270.000	.0049	-.0673	-.0817	-.0107	.0170	-.5462	-.4553	-.4875	
290.000	-.0005	-.0577	-.1329	-.0877	-.0013	-.4193	-.4531	-.4163	
320.000		.0000	.0000	.0000	.0000	-.4615	-.3828	-.3422	
360.000						-.4138	-.3412	-.3515	

ALPHA (2) = -.237 BETA (2) = .009

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0000	.0850	.2930	.5131				
195.000		-.0050	.0825	.2995	.4646	-.1259	-.3587	-.1953	
210.000	.0265	-.0121	.0000	.2967	.4593	-.2979	-.3461	-.3877	
225.000		-.0195	.0000	.2647	.4042	-.3506	-.3934	-.3684	
240.000		-.0403	.0000	.1915	.2414	-.3631	-.5201	-.5089	-.2009
255.000		-.0802	-.0683	.1208	.1377	-.4320	-.4921	-.2041	-.2191
270.000	.0357	-.1159	-.1112	.0444	.1096	-.2432	-.3668	-.2030	
290.000	.0353	-.0717	-.1722	-.0413	.0836	-.3173	-.3486	-.1625	
320.000		.0000	.0000	.0000	.0000	-.4695	-.2941	-.2578	
360.000						-.3548	-.2882	-.2879	

ARC11-D14IA19 OTS+STRUT SRB-OFF MPS-OFF CRB BODY

(REUB25)

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.195 BETA (3) = 4.028		X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.0000	.0575	.2778	.3480				
		195.000		-.0731	.0476	.3092	.3438	.0541	-.1279	-.2321	
		210.000	-.0251	-.0985	.0000	.3381	.2315	-.2172	-.1263	-.2819	
		225.000		-.1265	.0000	.3379	.2798	-.2760	-.1173	-.1836	
		240.000		-.1705	.0000	.2672	.2089	-.2778	-.1390	-.2323	-.2352
		255.000		-.1644	-.1715	.1364	.2101	-.3313	-.1349	-.1951	-.2536
		270.000	.0474	-.1844	-.2186	.0455	.1735	-.1426	-.1015	-.1373	
		290.000	.0563	-.1110	-.2788	-.0505	.1292	-.2216	-.0845	-.0986	
		320.000		.0000	.0000	.0000	.0000	-.4613	-.3554	-.3097	
		360.000						-.3021	-.3255	-.3120	
ALPHA (3) = 3.855 BETA (1) = .003		X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.0000	.0085	.2103	.4284				
		195.000		-.0654	.0036	.2138	.4015	-.1829	-.4166	-.2100	
		210.000	.0145	-.0775	.0000	.2093	.4370	-.3549	-.4311	-.4270	
		225.000		-.1001	.0000	.1831	.3219	-.4263	-.4794	-.4089	
		240.000		-.1303	.0000	.1335	.1545	-.4245	-.5944	-.5075	-.1951
		255.000		-.1691	-.2160	.0706	.0703	-.4672	-.5561	-.2845	-.2273
		270.000	.0109	-.2038	-.2834	-.0256	.0539	-.2817	-.4020	-.2668	
		290.000	.0052	-.0860	-.3606	-.1299	.0408	-.3655	-.4012	-.1921	
		320.000		.0000	.0000	.0000	.0000	-.4721	-.3228	-.2690	
		360.000						-.3600	-.3185	-.3073	

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF CRB BODY

(REUB24) (19 OCT 74)

REFERENCE DATA

SREF = 2630.0000 SQ. FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.100
 GIBAL = 1.000

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -3.993	BETA (1) = .009	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.0000	.3142	.5382	.6660				
		195.000		.1865	.3178	.5197	.6904	.1923	-.0390	-.3595	
		210.000	-.0834	.1887	.0000	.4957	.5185	.0214	-.0600	-.2022	
		225.000		.1842	.0000	.4662	.4531	-.0285	-.1046	-.1160	
		240.000		.1639	.0000	.4496	.2284	-.0515	-.2405	-.2358	-.3651
		255.000		.1560	.2365	.3860	.3210	-.1259	-.1724	-.2285	-.3836
		270.000	-.0301	.1252	.1687	.3058	.3089	.0325	-.0985	-.2044	
		290.000	-.0236	.0049	.1150	.2343	.3009	-.0265	-.0818	-.2317	
		320.000		.0000	.0000	.0000	.0000	-.5271	-.4723	-.4260	
		360.000						-.4066	-.4162	-.3946	
ALPHA (2) = -2.279	BETA (1) = -4.003	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.0000	.2239	.4338	.4682				
		195.000		.0913	.2336	.4036	.5158	.0470	-.2410	-.4009	
		210.000	.0342	.1196	.0000	.5439	.4188	-.1562	-.2731	-.3801	
		225.000		.1452	.0000	.3523	.3416	-.2057	-.2803	-.2868	
		240.000		.1464	.0000	.3036	.0712	-.2326	-.3959	-.3976	-.4107
		255.000		.1183	.1730	.2718	.1853	-.2374	-.2684	-.3236	-.4404
		270.000	.0314	.0988	.1513	.2135	.2314	-.0547	-.1725	-.2969	
		290.000	.0136	.0194	.0876	.1714	.2243	-.1144	-.1783	-.3016	
		320.000		.0000	.0000	.0000	.0000	-.4700	-.4535	-.4553	
		360.000						-.3784	-.4194	-.3865	
ALPHA (2) = -2.246	BETA (2) = .009	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.0000	.2918	.4135	.5487				
		195.000		.1642	.2956	.4093	.4988	.1771	-.0513	-.3536	
		210.000	-.0309	.1570	.0000	.4084	.4562	.0317	-.0792	-.2257	
		225.000		.1201	.0000	.3711	.4903	-.0493	-.1247	-.1437	
		240.000		.1190	.0000	.3924	.3331	-.0733	-.2453	-.2414	-.3582
		255.000		.0981	.0805	.2996	.3171	-.1280	-.2021	-.2461	-.3839
		270.000	.0004	.0839	.0369	.2631	.3063	.0309	-.1006	-.2186	
		290.000	.0131	.0188	-.0204	.1757	.2917	-.0363	-.0736	-.2490	
		320.000		.0000	.0000	.0000	.0000	-.5037	-.4562	-.3982	
		360.000						-.3730	-.3706	-.3668	

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF CRB BODY

(REUB24)

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.273 BETA (3) = 4.025

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0000	.2104	.4377	.4688				
195.000		.0403	.1734	.4598	.4803	.3139	.0784	-.3814	
210.000	-.0372	.0245	.0000	.4636	.3970	.0356	.0188	-.1325	
225.000		.0049	.0000	.4446	.4063	-.0555	-.0648	-.0551	
240.000		-.0439	.0000	.4099	.2882	-.0149	-.1692	-.1573	-.3426
255.000		.0162	-.1199	.2755	.3023	-.0711	-.1679	-.2172	-.3074
270.000	.0970	.0055	-.1337	.1259	.2809	.0657	-.0648	-.1883	
290.000	.1060	-.0205	-.1910	-.0566	.2593	.0132	-.0327	-.2054	
320.000		.0000	.0000	.0000	.0000	-.5775	-.5192	-.4777	
360.000						-.3815	-.4170	-.3981	

ALPHA (3) = 3.804 BETA (1) = -.003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0000	.1854	.3847	.5357				
195.000		.1514	.1809	.4059	.4772	.1079	-.1302	-.3789	
210.000	.1119	.1469	.0000	.3624	.4292	-.0812	-.1527	-.2800	
225.000		.1213	.0000	.3471	.4013	-.1493	-.1957	-.2001	
240.000		.0841	.0000	.3352	.2212	-.1215	-.2954	-.2921	-.3787
255.000		.0644	-.0900	.2546	.2211	-.1634	-.2585	-.2921	-.4050
270.000	.1105	.0351	-.1322	.1202	.2233	-.0105	-.1315	-.2590	
290.000	.0701	.0523	-.1919	-.0439	.2256	-.0802	-.1208	-.2807	
320.000		.0000	.0000	.0000	.0000	-.5074	-.5146	-.4363	
360.000						-.3821	-.3894	-.3734	

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF CRB BODY

(REUB25) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = .000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -3.975 BETA (1) = .003	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
	FHI									
	180.000		.0000	.0576	.4173	.5066				
	195.000		-.0168	.0535	.4211	.5017	.3095	.0557	-.3042	
	210.000	-.1261	-.0119	.0000	.4195	.4128	.0926	.0076	-.1128	
	225.000		.0028	.0000	.3837	.3633	.0075	-.0508	-.0546	
	240.000		.0180	.0000	.2951	.0864	-.0063	-.1882	-.1861	-.2805
	255.000		.0316	-.0367	.2740	.1880	-.0926	-.1138	-.1407	-.2687
	270.000	-.0444	.0226	-.0703	.2024	.2083	.0605	-.0344	-.1064	
	290.000	-.0328	-.0222	-.0960	.1224	.2211	-.0053	-.0286	-.1285	
	320.000		.0000	.0000	.0000	.0000	-.4145	-.3659	-.4106	
	360.000						-.3121	-.3126	-.2975	
ALPHA (2) = -.255 BETA (1) = -4.000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
	FHI									
	180.000		.0000	.0129	.3124	.3268				
	195.000		-.0287	.0549	.2899	.5436	.1593	-.1049	-.3350	
	210.000	-.1722	-.0293	.0000	.2772	.2760	-.0181	-.1581	-.2678	
	225.000		-.0207	.0000	.2622	.2845	-.0670	-.1827	-.2081	
	240.000		-.0074	.0000	.2054	.0071	-.1116	-.3080	-.3381	-.3271
	255.000		.0040	-.0154	.2150	.1274	-.1697	-.1858	-.2278	-.3378
	270.000	-.0651	.0023	-.0729	.1385	.1829	-.0614	-.1006	-.1986	
	290.000	-.0637	.0000	-.1240	.0589	.2028	-.0479	-.1083	-.1936	
	320.000		.0000	.0000	.0000	.0000	-.3743	-.3611	-.3714	
	360.000						-.2998	-.2906	-.3272	
ALPHA (2) = -.285 BETA (2) = .012	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
	FHI									
	180.000		.0000	.1127	.3240	.4160				
	195.000		.0014	.1178	.3040	.4085	.2598	.0253	-.2911	
	210.000	-.1233	.0045	.0000	.2742	.3529	.1055	-.0240	-.1450	
	225.000		.0079	.0000	.2712	.3546	.0538	-.0764	-.0932	
	240.000		.0179	.0000	.2432	.2281	-.0318	-.1927	-.2059	-.2806
	255.000		.0296	-.0688	.1565	.1729	-.0974	-.1623	-.1796	-.2797
	270.000	-.0433	.0130	-.1094	.0452	.1614	.0378	-.0483	-.1378	
	290.000	-.0416	.0000	-.1522	-.1393	.1822	-.0224	-.0239	-.1548	
	320.000		.0000	.0000	.0000	.0000	-.3910	-.3939	-.4143	
	360.000						-.2773	-.2859	-.2832	

ARC11-014IA19 OTS+STRUT SRB-OFF NFS-OFF CRB BODY

(REUS25)

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.189	BETA (3) = 4.031	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.0000	-.0102	.3003	.3370				
		195.000		-.0283	-.0357	.3080	.3427	.4092	.1495	-.2982	
		210.000	-.1447	-.0249	.0000	.3185	.3010	.0384	.0605	-.0622	
		225.000		-.0364	.0000	.3068	.2946	-.0215	-.0378	-.0042	
		240.000		-.0681	.0000	.2534	.1649	.0144	-.1783	-.1253	-.2407
		255.000		.0176	-.1313	.0755	.1437	-.0594	-.1430	-.1701	-.2711
		270.000	-.0194	.0229	-.1575	-.1502	.0917	.0392	-.0267	-.1250	
		290.000	-.0137	-.0254	-.1947	-.2383	.0678	.0045	.0056	-.1253	
		320.000		.0000	.0000	.0000	.0000	-.4436	-.4268	-.4903	
		360.000						-.2743	-.3303	-.3162	
ALPHA (3) = 4.005	BETA (1) = .003	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.0000	.0883	.2990	.4177				
		195.000		.0081	.0847	.2900	.3867	.1862	-.0410	-.3283	
		210.000	-.1082	.0029	.0000	.2821	.2832	-.0206	-.0856	-.2027	
		225.000		.0037	.0000	.2833	.2834	-.0962	-.1507	-.1392	
		240.000		.0069	.0000	.2513	.1288	-.0693	-.2615	-.2307	-.3030
		255.000		.0171	-.1146	.1420	.1165	-.1302	-.1977	-.2283	-.3030
		270.000	-.0794	-.0118	-.1567	-.0550	.0718	-.0148	-.0837	-.1740	
		290.000	-.0923	.0169	-.2099	-.2376	.0833	-.0630	-.0635	-.1799	
		320.000		.0000	.0000	.0000	.0000	-.3878	-.4322	-.4683	
		360.000						-.2780	-.3160	-.3037	

ARC11-014IA19 OTS+STRUT SRB-OFF HFS-OFF CRB BODY

(REUB26) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -3.909 BETA (1) = .009

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0000	.0006	.3526	.4453				
195.000		-.0286	.0045	.3573	.4413	.3653	.1281	-.2501	
210.000	-.1100	-.0237	.0000	.3541	.3646	.1365	.0664	-.0412	
225.000		-.0136	.0000	.3272	.3170	.0595	-.0020	-.0047	
240.000		-.0029	.0000	.2298	.0928	.0597	-.1470	-.1506	-.2185
255.000		.0146	-.0184	.2223	.1443	-.0698	-.0867	-.1026	-.1841
270.000	-.0468	.0279	-.0370	.1367	.1483	.0572	-.0061	-.0665	
290.000	-.0294	.0025	-.0847	-.0262	.1863	.0106	.0061	-.0745	
320.000		.0000	.0000	.0000	.0000	-.3410	-.3722	-.4386	
360.000						-.2531	-.3336	-.3003	

ALPHA (2) = -.243 BETA (1) = -4.000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0000	-.0166	.2512	.2518				
195.000		-.0590	.0114	.2375	.2789	.1934	-.0004	-.2781	
210.000	-.2119	-.0442	.0000	.2367	.2713	.0666	-.0705	-.1696	
225.000		-.0305	.0000	.2263	.2217	.0114	-.1036	-.1317	
240.000		-.0247	.0000	.1678	.0130	-.0324	-.2390	-.2877	-.2833
255.000		-.0193	-.0335	.1765	.1035	-.1303	-.1389	-.1693	-.2587
270.000	-.0792	-.0097	-.0646	.0818	.1355	.0194	-.0653	-.1390	
290.000	-.0632	.0206	-.1107	-.0631	.1661	-.0276	-.0727	-.1286	
320.000		.0000	.0000	.0000	.0000	-.2843	-.2934	-.2988	
360.000						-.2645	-.2666	-.2271	

ALPHA (2) = -.237 BETA (2) = .012

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0000	.0392	.2826	.3630				
195.000		-.0223	.0465	.2611	.3591	.2956	.0934	-.2442	
210.000	-.1440	-.0212	.0000	.2246	.2911	.1350	.0375	-.0802	
225.000		-.0191	.0000	.2246	.2827	.1077	-.0262	-.0496	
240.000		-.0185	.0000	.2173	.1903	.0370	-.1561	-.1903	-.2315
255.000		.0096	-.0523	.1380	.1292	-.1221	-.1284	-.1448	-.2163
270.000	-.0484	.0188	-.0663	-.0089	.1067	.0255	-.0386	-.1114	
290.000	-.0393	.0264	-.1270	-.1507	.0698	-.0312	-.0231	-.1062	
320.000		.0000	.0000	.0000	.0000	-.3225	-.3434	-.3882	
360.000						-.2205	-.2277	-.2286	

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-014TA19 OTS+STRUT SRB-OFF MPS-OFF CRB BODY

(REUB26)

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.234 BETA (3) = 4.031

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0000	-.0194	.2518	.2529				
195.000		-.0868	-.0403	.2702	.3069	.4357	.2065	-.2258	
210.000	-.1206	-.0840	.0000	.2779	.2543	.0305	.1068	-.0060	
225.000		-.0618	.0000	.2593	.2510	.0351	-.0169	.0230	
240.000		-.0440	.0000	.1835	.1685	.0813	-.1292	-.1154	-.1957
255.000		.0521	-.0620	-.0040	.1340	-.0529	-.1349	-.1416	-.2114
270.000	-.0069	.0690	-.0771	-.1105	.0922	.0232	-.0233	-.1002	
290.000	-.0004	.0048	-.1245	-.1683	-.0181	-.0170	.0202	-.0843	
320.000		.0000	.0000	.0000	.0000	-.3512	-.3513	-.4384	
360.000						-.2289	-.2700	-.2423	

ALPHA (3) = 4.047 BETA (1) = .036

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0000	.1179	.2430	.3179				
195.000		.0013	.1296	.2196	.3079	.2034	.0377	-.2654	
210.000	-.1499	-.0047	.0000	.2058	.2514	.0376	-.0223	-.1326	
225.000		-.0211	.0000	.2388	.2493	-.0518	-.1035	-.0901	
240.000		-.0529	.0000	.1989	.1346	-.0184	-.2162	-.2219	-.2588
255.000		-.0251	-.0958	.0325	.1103	-.1510	-.2061	-.1985	-.2503
270.000	-.0451	-.0162	-.1146	-.1474	.0459	-.0298	-.0764	-.1620	
290.000	-.0602	.0434	-.1787	-.2177	-.0151	-.0805	-.0518	-.1436	
320.000		.0000	.0000	.0000	.0000	-.3151	-.3630	-.3906	
360.000						-.2109	-.2202	-.2176	

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM ORB BODY

(REU27) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-CB = .000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.125 BETA (1) = .000

Y/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		.0000	.1191	.3195	.5398				
195.000		.0314	.1150	.3270	.5057	-.0850	-.3144	-.4679	
210.000	.0233	.0284	.0000	.3270	.4631	-.2650	-.3170	-.4885	
225.000		.0259	.0000	.2962	.3590	-.3269	-.3685	-.3848	
240.000		.0132	.0000	.2051	.1639	-.3606	-.5411	-.5370	-.4272
255.000		-.0081	-.0049	.1337	.1354	-.4515	-.4769	-.5076	-.4508
270.000	.0476	-.0353	-.0357	.0698	.1079	-.2484	-.3792	-.4502	
290.000	.0484	-.0831	-.0834	-.0071	.0843	-.3232	-.3662	-.3030	
320.000		.0000	.0000	.0000	.0000	-.5113	-.3848	-.3419	
360.000						-.3994	-.3768	-.3595	

ALPHA (2) = -.396 BETA (1) = -4.003

Y/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		.0000	.0413	.2545	.3296				
195.000		-.0519	.0429	.2421	.3348	-.2510	-.5292	-.4962	
210.000	-.0301	-.0432	.0000	.2403	.3683	-.4553	-.5679	-.6584	
225.000		-.0409	.0000	.1926	.2873	-.5246	-.5831	-.5781	
240.000		-.0414	.0000	.0926	.0524	-.5958	-.7213	-.7106	-.5415
255.000		-.0559	-.0570	.0443	.0162	-.5640	-.5919	-.6227	-.4467
270.000	-.0008	-.0688	-.0815	-.0147	.0080	-.3554	-.4614	-.5777	
290.000	-.0096	-.0688	-.1320	-.0903	-.0070	-.4293	-.4598	-.5402	
320.000		.0000	.0000	.0000	.0000	-.4961	-.4081	-.3773	
360.000						-.4427	-.3515	-.3578	

ALPHA (2) = -.408 BETA (2) = .009

Y/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		.0000	.0782	.2791	.5060				
195.000		-.0077	.0790	.2875	.4546	-.1374	-.3660	-.4279	
210.000	.0125	-.0132	.0000	.2828	.4478	-.3070	-.3644	-.4906	
225.000		-.0224	.0000	.2512	.3877	-.3590	-.4107	-.4218	
240.000		-.0430	.0000	.1745	.2426	-.3710	-.5394	-.5497	-.4116
255.000		-.0780	-.0785	.1039	.1270	-.4431	-.5132	-.5416	-.3655
270.000	.0288	-.1199	-.1248	.0309	.0998	-.2571	-.3861	-.4991	
290.000	.0264	-.0801	-.1856	-.0570	.0746	-.3292	-.3722	-.4202	
320.000		.0000	.0000	.0000	.0000	-.5003	-.3573	-.3123	
360.000						-.3854	-.3515	-.3341	

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM ORB BODY

(REUB27)

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.336 BETA (3) = 4.025

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0000	.0531	.2623	.3419				
195.000		-.0776	.0425	.2951	.3359	.0407	-.1469	-.4622	
210.000	-.0341	-.0994	.0000	.3243	.2266	-.2319	-.1573	-.3476	
225.000		-.1281	.0000	.3256	.2736	-.2868	-.1493	-.2222	
240.000		-.1751	.0000	.2482	.2088	-.2839	-.1441	-.2729	-.4381
255.000		-.1643	-.1836	.1146	.2096	-.3523	-.1479	-.2391	-.4544
270.000	.0478	-.1886	-.2344	.0254	.1683	-.1694	-.1414	-.1866	
290.000	.0529	-.1284	-.2892	-.0715	.1190	-.2397	-.1352	-.1438	
320.000		.0000	.0000	.0000	.0000	-.5167	-.4183	-.3757	
360.000						-.3399	-.3823	-.3512	

ALPHA (3) = 3.792 BETA (1) = -.003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0000	.0078	.2107	.4356				
195.000		-.0678	.0036	.2181	.4065	-.1881	-.4255	-.4167	
210.000	.0060	-.0788	.0000	.2096	.4335	-.3581	-.4283	-.5323	
225.000		-.1008	.0000	.1846	.3205	-.4289	-.4776	-.4768	
240.000		-.1313	.0000	.1324	.1499	-.4222	-.5981	-.5836	-.3316
255.000		-.1694	-.1996	.0697	.0634	-.4711	-.5629	-.5438	-.3513
270.000	.0036	-.2025	-.2672	-.0250	.0505	-.2861	-.4075	-.4555	
290.000	.0011	-.0872	-.3350	-.1268	.0378	-.3720	-.4087	-.2934	
320.000		.0000	.0000	.0000	.0000	-.5152	-.3425	-.2970	
360.000						-.3822	-.3373	-.3190	

ARC11-014IA19 QTS+STRUT SRB-NOM MPS-NOM CRB BODY

(REUB28) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.100
 GYBAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.191 BETA (1) = .003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000	.0000	.3135	.4800	.5685					
195.000	.2056	.3167	.4738	.6354	.1910	-.0456	-.4483		
210.000	-.0706	.1986	.0000	.4928	.5253	.0165	-.0626	-.2080	
225.000		.1851	.0000	.4565	.4616	-.0356	-.1076	-.1191	
240.000		.1544	.0000	.4259	.2299	-.0573	-.2470	-.2418	-.4168
255.000		.1571	.2104	.3652	.3205	-.1324	-.1760	-.2324	-.4363
270.000	-.0119	.1282	.1727	.2918	.3190	.0296	-.1018	-.2090	
290.000	-.0031	.0071	.1101	.2137	.3003	-.0306	-.0859	-.2313	
320.000		.0000	.0000	.0000	.0000	-.5069	-.4420	-.3937	
360.000						-.3872	-.3954	-.3645	

ALPHA (2) = -.465 BETA (1) = -4.003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000	.0000	.1820	.4459	.4448					
195.000	.0611	.2350	.4393	.5542	-.0515	-.2341	-.5145		
210.000	.0329	.1092	.0000	.4404	.4293	-.1515	-.2676	-.3766	
225.000		.1047	.0000	.4138	.3423	-.1993	-.2768	-.2833	
240.000		.1342	.0000	.3254	.0651	-.2344	-.3935	-.3921	-.4930
255.000		.1276	.2100	.3339	.1907	-.2356	-.2649	-.3189	-.4851
270.000	.0241	.0786	.1575	.2593	.2376	-.0497	-.1680	-.2916	
290.000	-.0086	.0205	.1182	.1555	.2288	-.1097	-.1753	-.2914	
320.000		.0000	.0000	.0000	.0000	-.4353	-.4117	-.4111	
360.000						-.3432	-.3783	-.3556	

ALPHA (2) = -.447 BETA (2) = .012

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000	.0000	.2886	.4192	.5228					
195.000	.1859	.2867	.4146	.4893	.1677	-.0460	-.4404		
210.000	-.0625	.1794	.0000	.3993	.4642	.0392	-.0728	-.2231	
225.000		.1610	.0000	.3872	.4528	-.0338	-.1202	-.1440	
240.000		.1322	.0000	.3476	.3478	-.0647	-.2396	-.2379	-.4023
255.000		.1047	.1048	.3077	.3186	-.1243	-.1993	-.2416	-.4223
270.000	-.0283	.0826	.0669	.2494	.3050	.0334	-.0968	-.2131	
290.000	-.0262	.0189	-.0099	.1747	.2922	-.0333	-.0706	-.2423	
320.000		.0000	.0000	.0000	.0000	-.4776	-.4192	-.3600	
360.000						-.3472	-.3488	-.3347	

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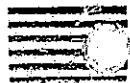
ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM CRB BODY

(REUB28)

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.405 BETA (3) = 4.031		X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		.0000	.2315	.4073	.4574				
		195.000		.0490	.1981	.4379	.4486	.3205	.0841	-.4518	
		210.000	-.0398	.0410	.0000	.4485	.3945	.0383	.0245	-.1315	
		225.000		.0166	.0000	.4604	.4100	-.0529	-.0621	-.0530	
		240.000		-.0166	.0000	.3926	.2961	-.0129	-.1674	-.1547	-.3733
		255.000		.0368	-.1191	.2895	.3065	-.0688	-.1652	-.2131	-.3228
		270.000	.0716	.0292	-.1335	.1437	.2862	.0705	-.0636	-.1833	
		290.000	.1067	-.0084	-.1888	-.0433	.2650	.0148	-.0307	-.1944	
		320.000		.0000	.0000	.0000	.0000	-.5373	-.4760	-.4231	
		360.000						-.3307	-.3844	-.3660	
ALPHA (3) = 3.819 BETA (1) = .009		X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		.0000	.2416	.3577	.5303				
		195.000		.1878	.2275	.3595	.4724	.1157	-.1227	-.4748	
		210.000	.1066	.1588	.0000	.3777	.4241	-.0768	-.1486	-.2770	
		225.000		.1308	.0000	.3603	.4075	-.1444	-.1897	-.1946	
		240.000		.1187	.0000	.3172	.2342	-.1166	-.2887	-.2854	-.4249
		255.000		.1099	-.0650	.2521	.2330	-.1559	-.2511	-.2861	-.4388
		270.000	.0922	.0685	-.1199	.1381	.2345	-.0036	-.1243	-.2507	
		290.000	.0751	.0768	-.1711	-.0037	.2343	-.0718	-.1170	-.2726	
		320.000		.0000	.0000	.0000	.0000	-.4854	-.4774	-.3951	
		360.000						-.3592	-.3661	-.3461	



ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM CRB BODY

(REUB29) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.080	BETA (1) = .006	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.0000	.0591	.4221	.5122				
		195.000		-.0140	.0532	.4258	.5076	.3114	.0575	-.3348	
		210.000	-.1254	-.0093	.0000	.4215	.4117	.0985	.0122	-.1107	
		225.000		.0045	.0000	.3859	.3637	.0115	-.0476	-.0506	
		240.000		.0237	.0000	.2924	.0894	.0012	-.1840	-.1832	-.2773
		255.000		.0359	-.0324	.2782	.1894	-.0891	-.1114	-.1341	-.2705
		270.000	-.0424	.0275	-.0094	.2056	.2149	.0633	-.0286	-.1012	
		290.000	-.0294	-.0209	-.0991	.1239	.2219	-.0005	-.0249	-.1167	
		320.000		.0000	.0000	.0000	.0000	-.3669	-.3114	-.3105	
		360.000						-.2637	-.2671	-.2419	
ALPHA (2) = -3.375	BETA (1) = -3.997	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.0000	.0118	.3114	.3240				
		195.000		-.0272	.0579	.2907	.3420	.1660	-.0953	-.3760	
		210.000	-.1739	-.0265	.0000	.2639	.2789	-.0136	-.1499	-.2594	
		225.000		-.0204	.0000	.2607	.2854	-.0593	-.1764	-.2015	
		240.000		-.0090	.0000	.2034	.0050	-.1065	-.3011	-.3327	-.3724
		255.000		.0043	-.0095	.2140	.1286	-.1628	-.1795	-.2219	-.3423
		270.000	-.0615	.0042	-.0674	.1407	.1867	.0045	-.0946	-.1910	
		290.000	-.0598	-.0001	-.1203	.0635	.2084	-.0417	-.1033	-.1806	
		320.000		.0000	.0000	.0000	.0000	-.3141	-.2920	-.2778	
		360.000						-.2511	-.2751	-.2285	
ALPHA (2) = -4.080	BETA (2) = .012	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.0000	.0553	.3314	.4155				
		195.000		-.0015	.0094	.3098	.4128	.2578	.0231	-.3252	
		210.000	-.1248	-.0008	.0000	.2735	.3502	.0960	-.0259	-.1453	
		225.000		.0022	.0000	.2747	.3533	.0540	-.0779	-.0899	
		240.000		.0151	.0000	.2454	.2174	-.0245	-.1925	-.2061	-.3012
		255.000		.0247	-.0672	.1647	.1631	-.0977	-.1582	-.1767	-.2831
		270.000	-.0459	.0115	-.0075	.0484	.1575	.0376	-.0469	-.1344	
		290.000	-.0440	-.0052	-.1583	-.1330	.1820	-.0208	-.0254	-.1487	
		320.000		.0000	.0000	.0000	.0000	-.3501	-.3162	-.3111	
		360.000						-.2345	-.2435	-.2232	

ARC11-014IA19 OTS+STRUT SRB-NCM MPS-NCM ORB BODY

(REUB29)

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -0.381	BETA (3) = 4.031	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.0000	-.0044	.3075	.3343				
		195.000		-.0216	-.0276	.3183	.3504	.4156	.1574	-.3195	
		210.000	-.1403	-.0199	.0000	.3270	.3040	.0484	.0676	-.0635	
		225.000		-.0301	.0000	.3160	.2975	-.0167	-.0335	-.0031	
		240.000		-.0568	.0000	.2554	.1733	.0265	-.1697	-.1222	-.2511
		255.000		.0258	-.1246	.0826	.1492	-.0487	-.1281	-.1655	-.2701
		270.000	-.0148	.0339	-.1470	-.1428	.0975	.0432	-.0188	-.1166	
		290.000	-.0097	-.0208	-.1845	-.2302	.0855	.0053	.0116	-.1207	
		320.000		.0000	.0000	.0000	.0000	-.3976	-.3606	-.4051	
		360.000						-.2181	-.2740	-.2567	
ALPHA (3) = 3.843	BETA (1) = .003	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.0000	.0978	.3055	.4230				
		195.000		.0143	.0951	.2941	.3876	.1927	-.0317	-.3655	
		210.000	-.1077	.0093	.0000	.2874	.2837	-.0150	-.0788	-.1997	
		225.000		.0148	.0000	.2857	.2890	-.0990	-.1448	-.1312	
		240.000		.0089	.0000	.2555	.1307	-.0654	-.2499	-.2270	-.3211
		255.000		.0220	-.1087	.1493	.1146	-.1186	-.1941	-.2226	-.3011
		270.000	-.0772	-.0036	-.1512	-.0546	.0775	-.0078	-.0778	-.1708	
		290.000	-.0895	.0231	-.2051	-.2338	.0932	-.0528	-.0582	-.1736	
		320.000		.0000	.0000	.0000	.0000	-.3441	-.3612	-.3642	
		360.000						-.2300	-.2593	-.2402	

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM ORB BODY

(REUB30) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CR

ALPHA (1) = -4.224 BETA (1) = .006

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0000	-.0062	.3445	.4402				
195.000		-.0287	.0019	.3550	.4333	.3626	.1265	-.2460	
210.000	-.1108	-.0303	.0000	.3548	.3672	.1339	.0621	-.0457	
225.000		-.0217	.0000	.3292	.3144	.0577	-.0048	-.0095	
240.000		-.0070	.0000	.2253	.0920	.0555	-.1511	-.1546	-.2254
255.000		.0102	-.0210	.2213	.1433	-.0706	-.0892	-.1061	-.1029
270.000	-.0491	.0244	-.0404	.1342	.1522	.0571	-.0087	-.0682	
290.000	-.0319	.0016	-.0899	-.0290	.1863	.0085	.0041	-.0741	
320.000		.0000	.0000	.0000	.0000	-.2811	-.2567	-.2664	
360.000						-.1734	-.2064	-.1937	

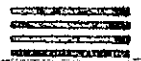
ALPHA (2) = -.444 BETA (1) = -3.997

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0000	-.0142	.2553	.2572				
195.000		-.0611	.0126	.2408	.2727	.1935	.0000	-.2780	
210.000	-.2098	-.0490	.0000	.2452	.2692	.0646	-.0708	-.1710	
225.000		-.0322	.0000	.2283	.2234	.0078	-.1031	-.1336	
240.000		-.0247	.0000	.1683	.0100	-.0334	-.2430	-.2891	-.3011
255.000		-.0198	-.0357	.1800	.1008	-.1315	-.1393	-.1689	-.2499
270.000	-.0807	-.0058	-.0650	.0883	.1353	.0191	-.0665	-.1375	
290.000	-.0663	.0205	-.1103	-.0567	.1678	-.0273	-.0697	-.1239	
320.000		.0000	.0000	.0000	.0000	-.2258	-.2178	-.2016	
360.000						-.1860	-.1739	-.1560	

ALPHA (2) = -.405 BETA (2) = .016

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0000	.0311	.2929	.3854				
195.000		-.0237	.0393	.2752	.3761	.2965	.0931	-.2486	
210.000	-.1429	-.0200	.0000	.2334	.2853	.1332	.0407	-.0752	
225.000		-.0183	.0000	.2378	.2798	.1117	-.0242	-.0449	
240.000		-.0152	.0000	.2351	.1933	.0479	-.1542	-.1895	-.2384
255.000		.0112	-.0502	.1533	.1244	-.1180	-.1243	-.1409	-.2067
270.000	-.0438	.0202	-.0619	.0109	.1090	.0284	-.0362	-.1058	
290.000	-.0370	.0258	-.1216	-.1431	.0806	-.0270	-.0192	-.1012	
320.000		.0000	.0000	.0000	.0000	-.2731	-.2642	-.2743	
360.000						-.1548	-.1842	-.1625	

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ARC11-014IA19 OTS+STRUT SRB-NCM MPS-NCM CRB BODY

(REUB30)

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.360 BETA (3) = 4.031

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0000	-.0166	.2551	.2494				
195.000		-.0820	-.0376	.2729	.3063	.4355	.2140	-.2153	
210.000	-.1189	-.0781	.0000	.2817	.2598	.0274	.1157	.0012	
225.000		-.0561	.0000	.2674	.2548	.0387	-.0144	.0269	
240.000		-.0376	.0000	.1899	.1774	.0872	-.1258	-.1120	-.1924
255.000		.0558	-.0522	-.0064	.1490	-.0465	-.1291	-.1338	-.1971
270.000	-.0056	.0740	-.0710	-.1013	.0989	.0296	-.0133	-.0941	
290.000	.0012	.0080	-.1175	-.1591	-.0057	-.0112	.0261	-.0794	
320.000		.0000	.0000	.0000	.0000	-.3094	-.2931	-.3347	
360.000						-.1452	-.1942	-.1826	

ALPHA (3) = 3.819 BETA (1) = .009

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0000	.1197	.2409	.3166				
195.000		-.0015	.1328	.2243	.3071	.2039	.0380	-.2701	
210.000	-.1502	-.0081	.0000	.2078	.2506	.0384	-.0180	-.1320	
225.000		-.0227	.0000	.2338	.2467	-.0520	-.1015	-.0890	
240.000		-.0534	.0000	.1903	.1379	-.0211	-.2137	-.2198	-.2653
255.000		-.0239	-.0933	.0274	.1149	-.1470	-.2056	-.1945	-.2334
270.000	-.0480	-.0156	-.1134	-.1450	.0492	-.0248	-.0755	-.1605	
290.000	-.0608	.0470	-.1756	-.2134	-.0135	-.0783	-.0546	-.1380	
320.000		.0000	.0000	.0000	.0000	-.2637	-.2864	-.2780	
360.000						-.1434	-.1758	-.1435	

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF CRB BODY

(REUB31) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = .000 ELV-CB = .000
 RUDDER = .000 MACH = .900
 GIMBAL = 2.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.020 BETA (1) = .006

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		.0361	.1208	.3143	.5340				
195.000		.0369	.1208	.3227	.4985	-.0872	-.2947	-.2281	
210.000	.0252	.0332	.1122	.3214	.4532	-.2800	-.2856	-.4061	
225.000		.0262	.0884	.2910	.3664	-.3249	-.3461	-.3574	
240.000		.0159	.0529	.1995	.1685	-.3630	-.5227	-.3627	-.2491
255.000		-.0090	.0026	.1298	.1372	-.4531	-.4250	-.2485	-.2354
270.000	.0440	-.0325	-.0306	.0644	.1067	-.2439	-.2383	-.2330	
290.000	.0451	-.0632	-.0791	-.0101	.0902	-.2946	-.3196	-.1955	
320.000		.0000	.0000	.0000	.0000	-.4326	-.3224	-.3056	
360.000						-.3661	-.3269	-.3300	

ALPHA (2) = -.288 BETA (1) = -4.003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		-.0537	.0499	.2574	.3285				
195.000		-.0464	.0526	.2420	.3444	-.2402	-.5224	-.2867	
210.000	-.0223	-.0382	.0491	.2418	.3694	-.4463	-.5606	-.5455	
225.000		-.0312	.0249	.1934	.2893	-.5139	-.5733	-.5596	
240.000		-.0332	-.0102	.0930	.0638	-.5882	-.7114	-.6987	-.2638
255.000		-.0507	-.0493	.0470	.0272	-.5553	-.5820	-.5451	-.2392
270.000	.0025	-.0636	-.0782	-.0108	.0139	-.5409	-.4318	-.4463	
290.000	-.0037	-.0636	-.1274	-.0819	.0067	-.3922	-.4514	-.3683	
320.000		.0000	.0000	.0000	.0000	-.4344	-.3709	-.3207	
360.000						-.3987	-.3284	-.3429	

ALPHA (2) = -.279 BETA (2) = .009

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		-.0026	.0878	.2832	.5175				
195.000		-.0040	.0828	.2919	.4589	-.1306	-.3490	-.1922	
210.000	.0225	-.0104	.0751	.2877	.4562	-.2992	-.3422	-.3734	
225.000		-.0191	.0465	.2552	.3937	-.3509	-.3855	-.2927	
240.000		-.0396	.0103	.1840	.2485	-.3658	-.5230	-.2669	-.2044
255.000		-.0829	-.0654	.1142	.1350	-.4332	-.4945	-.1769	-.2193
270.000	.0329	-.1213	-.1130	.0415	.1079	-.2369	-.3428	-.1694	
290.000	.0295	-.0846	-.1716	-.0411	.0874	-.2862	-.3517	-.1464	
320.000		.0000	.0000	.0000	.0000	-.4295	-.2884	-.2512	
360.000						-.3384	-.2835	-.2770	

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ARC11-014IA19 OTS-STRUT SRB-OFF MPS-OFF CRB BODY

(REUB31)

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.264 BETA (3) = 4.031

X/L	.510	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0563	.0588	.2648	.3355				
195.000		-.0734	.0491	.2949	.3353	.0601	-.1265	-.2231	
210.000	-.0335	-.0951	.0322	.3251	.2347	-.2038	-.1344	-.2922	
225.000		-.1220	-.0123	.3268	.2788	-.2635	-.1306	-.2000	
240.000		-.1674	-.0852	.2553	.2131	-.2631	-.1551	-.2472	-.2370
255.000		-.1620	-.1672	.1200	.2173	-.3280	-.1490	-.2077	-.2478
270.000	.0423	-.1884	-.2201	.0326	.1771	-.1249	-.0980	-.1482	
290.000	.0495	-.1381	-.2858	-.0611	.1358	-.1821	-.0954	-.1089	
320.000		.0000	.0000	.0000	.0000	-.4377	-.3685	-.3129	
360.000						-.3003	-.3414	-.3168	

ALPHA (3) = 3.978 BETA (1) = .000

X/L	.510	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0576	.0114	.2049	.4283				
195.000		-.0621	.0073	.2108	.4014	-.1829	-.4140	-.2061	
210.000	.0116	-.0742	-.0110	.2044	.4369	-.3545	-.4161	-.3228	
225.000		-.0963	-.0497	.1775	.3228	-.4264	-.4756	-.2266	
240.000		-.1270	-.0983	.1284	.1542	-.4236	-.5846	-.2122	-.2070
255.000		-.1731	-.2104	.0691	.0696	-.4646	-.5274	-.1762	-.2205
270.000	.0081	-.2057	-.2769	-.0252	.0589	-.2732	-.3439	-.1677	
290.000	.0034	-.1163	-.3472	-.1235	.0900	-.3295	-.3781	-.1493	
320.000		.0000	.0000	.0000	.0000	-.4438	-.3034	-.2803	
360.000						-.3450	-.3030	-.2949	

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF CRB BODY

(REUB32) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 2.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -3.906	BETA (1) = .000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		.2021	.3191	.4907	.5984				
		195.000		.2049	.3169	.4930	.5926	.2030	-.0302	-.3317	
		210.000	-.0930	.1954	.3094	.4937	.5304	.0291	-.0527	-.1963	
		225.000		.1853	.2910	.4646	.4672	-.0211	-.0978	-.1092	
		240.000		.1708	.2667	.4099	.2314	-.0462	-.2335	-.2279	-.3590
		255.000		.1416	.2122	.3575	.3192	-.1219	-.1624	-.2238	-.3698
		270.000	-.0449	.1183	.1745	.2961	.3088	.0391	-.0882	-.1985	
		290.000	-.0475	.0005	.1242	.2289	.3070	-.0032	-.0782	-.2201	
		320.000		.0000	.0000	.0000	.0000	-.5029	-.4395	-.3893	
		360.000						-.3913	-.3947	-.3740	
ALPHA (2) = -2.255	BETA (1) = -4.000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		.1091	.2298	.4153	.4490				
		195.000		.1235	.2436	.4017	.4800	.0720	-.2125	-.3542	
		210.000	-.0615	.1376	.2470	.3786	.4124	-.1284	-.2445	-.3545	
		225.000		.1488	.2416	.3533	.3906	-.1657	-.2524	-.2619	
		240.000		.1516	.2195	.3008	.0780	-.1993	-.3713	-.3701	-.4004
		255.000		.1386	.1939	.2943	.1966	-.2121	-.2342	-.2963	-.4088
		270.000	-.0523	.1160	.1559	.2370	.2451	-.0273	-.1341	-.2716	
		290.000	-.0746	.0422	.1078	.1703	.2419	-.0667	-.1547	-.2715	
		320.000		.0000	.0000	.0000	.0000	-.4211	-.4132	-.4058	
		360.000						-.3410	-.3753	-.3568	
ALPHA (2) = -2.213	BETA (2) = .000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		.1184	.2690	.4022	.5034				
		195.000		.1109	.2694	.3856	.4821	.2137	-.0285	-.3064	
		210.000	-.0846	.1114	.2772	.3673	.4414	.0659	-.0556	-.2022	
		225.000		.0997	.2541	.3702	.4242	.0102	-.0982	-.1245	
		240.000		.0808	.1662	.3269	.3452	-.0394	-.2138	-.2151	-.3204
		255.000		.0596	.0414	.2849	.2850	-.1053	-.1660	-.2144	-.3415
		270.000	-.0778	.0361	-.0119	.2319	.2693	.0523	-.0697	-.1845	
		290.000	-.0706	-.0002	-.1112	.1657	.2689	.0108	-.0442	-.2159	
		320.000		.0000	.0000	.0000	.0000	-.4686	-.4110	-.3494	
		360.000						-.3375	-.3360	-.3228	

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF CRB BODY

(REUB32)

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.219 BETA (3) = 4.028

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0915	.2169	.4149	.4467				
195.000		.0822	.1958	.4417	.4530	.3368	.0950	-.3469	
210.000	-.1501	.0636	.1342	.4608	.3915	.0504	.0368	-.1130	
225.000		.0125	.0310	.4562	.4065	-.0430	-.0519	-.0394	
240.000		-.0441	-.0797	.4047	.2895	-.0004	-.1518	-.1388	-.3252
255.000		.0108	-.1137	.2761	.3030	-.0530	-.1491	-.1947	-.2863
270.000	.0551	-.0041	-.1590	.1249	.2860	.0861	-.0445	-.1679	
290.000	.0676	-.0187	-.2028	-.0562	.2716	.0529	-.0132	-.1849	
320.000		.0000	.0000	.0000	.0000	-.5328	-.4790	-.4268	
360.000						-.3363	-.3805	-.3679	

ALPHA (3) = 3.981 BETA (1) = .000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.1502	.1932	.4094	.5456				
195.000		.1479	.1864	.4094	.4967	.1437	-.0928	-.3282	
210.000	-.0418	.1375	.1664	.4052	.4241	-.0494	-.1191	-.2479	
225.000		.1166	.1148	.3956	.4013	-.1147	-.1615	-.1663	
240.000		.0653	.0354	.3528	.1885	-.0922	-.2593	-.2558	-.3514
255.000		.0473	-.0836	.2870	.2053	-.1417	-.2166	-.2530	-.3654
270.000	-.0644	.0207	-.1257	.1681	.2134	.0105	-.0896	-.2200	
290.000	-.0621	.0296	-.1682	.0410	.2191	-.0397	-.0826	-.2446	
320.000		.0000	.0000	.0000	.0000	-.4690	-.4678	-.3901	
360.000						-.3463	-.3536	-.3375	

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF ORB BODY

(REL833) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0250

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 2.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.044 BETA (1) = .003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0156	.0600	.4165	.5086				
195.000		-.0109	.0585	.4203	.5038	.3104	.0526	-.2821	
210.000	-.1246	-.0072	.0536	.4179	.4134	.0943	.0106	-.1123	
225.000		.0043	.0448	.3820	.3592	.0117	-.0476	-.0520	
240.000		.0213	.0295	.2987	.0871	.0023	-.1819	-.1824	-.2555
255.000		.0318	-.0374	.2717	.1875	-.0888	-.1061	-.1318	-.2615
270.000	-.0455	.0231	-.0739	.2015	.2128	.0653	-.0218	-.0996	
290.000	-.0355	-.0167	-.1062	.1188	.2256	.0140	-.0210	-.1209	
320.000		.0000	.0000	.0000	.0000	-.4010	-.3812	-.4038	
360.000						-.3023	-.3043	-.2900	

ALPHA (2) = -.198 BETA (1) = -4.000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0250	.0109	.3097	.3285				
195.000		-.0270	.0567	.2888	.3449	.1642	-.0990	-.3113	
210.000	-.1763	-.0258	.0803	.2740	.2762	-.0141	-.1506	-.2584	
225.000		-.0193	.0769	.2611	.2792	-.0614	-.1751	-.1994	
240.000		-.0088	.0536	.2063	.0041	-.1062	-.2983	-.3289	-.3319
255.000		.0031	-.0120	.2165	.1253	-.1614	-.1739	-.2186	-.3289
270.000	-.0636	-.0004	-.0695	.1381	.1864	.0073	-.0840	-.1892	
290.000	-.0637	-.0024	-.1219	.0648	.2108	-.0290	-.1006	-.1846	
320.000		.0000	.0000	.0000	.0000	-.3622	-.3539	-.3584	
360.000						-.2942	-.2763	-.3051	

ALPHA (2) = -.162 BETA (2) = .009

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0005	.1140	.3188	.4089				
195.000		-.0001	.1221	.3017	.4057	.2580	.0263	-.2795	
210.000	-.1242	.0020	.1332	.2721	.3579	.1057	-.0232	-.1505	
225.000		.0055	.1073	.2689	.3435	.0570	-.0772	-.0976	
240.000		.0153	.0144	.2326	.2198	-.0305	-.1920	-.2084	-.2787
255.000		.0261	-.0704	.1540	.1701	-.0989	-.1597	-.1758	-.2754
270.000	-.0486	.0086	-.1162	.0299	.1560	.0394	-.0417	-.1364	
290.000	-.0461	-.0053	-.1619	-.1434	.1833	-.0022	-.0219	-.1525	
320.000		.0000	.0000	.0000	.0000	-.3819	-.3893	-.4153	
360.000						-.2726	-.2882	-.2779	

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ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF ORB BODY

(REUB33)

SECTION (1) ORBITER BODY

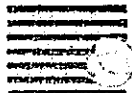
DEPENDENT VARIABLE CP

ALPHA (2) = -2.210 BETA (3) = 4.031

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		-.0228	-.0008	.3033	.3367				
195.000		-.0212	-.0251	.3146	.3528	.4083	.1577	-.2918	
210.000	-.1414	-.0211	-.0388	.3268	.3047	.0493	.0671	-.0646	
225.000		-.0325	-.0690	.3155	.2997	-.0136	-.0386	-.0074	
240.000		-.0587	-.1082	.2657	.1807	.0205	-.1744	-.1181	-.2419
255.000		.0249	-.1247	.0487	.1547	-.0622	-.1375	-.1676	-.2676
270.000	-.0200	.0273	-.1537	-.1515	.0994	.0974	-.0211	-.1232	
290.000	-.0135	-.0204	-.1870	-.2309	.0753	.0318	.0159	-.1244	
320.000		.0000	.0000	.0000	.0000	-.4357	-.4255	-.4859	
360.000						-.2662	-.3270	-.3107	

ALPHA (3) = 3.846 BETA (1) = .003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		.0125	.0958	.3031	.4244				
195.000		.0111	.0919	.2862	.3872	.1873	-.0309	-.3085	
210.000	-.1074	.0107	.0724	.2844	.2824	-.0182	-.0838	-.1964	
225.000		.0092	.0148	.2841	.2700	-.0940	-.1437	-.1292	
240.000		.0081	-.0420	.2589	.1329	-.0680	-.2605	-.2253	-.2983
255.000		.0167	-.1079	.1471	.1153	-.1230	-.1908	-.2228	-.2938
270.000	-.0797	-.0138	-.1569	-.0552	.0785	-.0047	-.0672	-.1687	
290.000	-.0913	.0086	-.2039	-.2315	.0940	-.0353	-.0542	-.1753	
320.000		.0000	.0000	.0000	.0000	-.3752	-.4287	-.4578	
360.000						-.2709	-.3089	-.2948	



ARC11-0141A19 OTS+STRUT SRB-OFF MPS-OFF CRB BODY

(REUB34) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 2.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -3.981 BETA (1) = .000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0297	.0007	.3518	.4466				
195.000		-.0272	.0071	.3591	.4432	.3656	.1261	-.2413	
210.000	-.1075	-.0255	.0148	.3594	.3660	.1387	.0647	-.0401	
225.000		-.0158	.0135	.3322	.3166	.0606	-.0028	-.0028	
240.000		-.0045	.0061	.2352	.0900	.0592	-.1480	-.1492	-.2175
255.000		.0114	-.0166	.2235	.1414	-.0687	-.0811	-.1000	-.1830
270.000	-.0480	.0240	-.0391	.1377	.1509	.0622	.0020	-.0641	
290.000	-.0282	.0035	-.0825	-.0144	.1884	.0258	.0104	-.0745	
320.000		.0000	.0000	.0000	.0000	-.3450	-.3695	-.4400	
360.000						-.2588	-.3348	-.2992	

ALPHA (2) = -.231 BETA (1) = -4.000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0724	-.0167	.2529	.2461				
195.000		-.0606	.0131	.2396	.2747	.1888	-.0060	-.2725	
210.000	-.2129	-.0476	.0249	.2386	.2680	.0629	-.0725	-.1722	
225.000		-.0327	.0250	.2256	.2193	.0069	-.1029	-.1331	
240.000		-.0274	.0125	.1857	.0096	-.0359	-.2419	-.2877	-.2867
255.000		-.0239	-.0340	.1735	.1002	-.1314	-.1372	-.1674	-.2580
270.000	-.0855	-.0128	-.0670	.0817	.1330	.0199	-.0607	-.1383	
290.000	-.0677	.0124	-.1091	-.0586	.1719	-.0189	-.0689	-.1304	
320.000		.0000	.0000	.0000	.0000	-.2867	-.2958	-.3000	
360.000						-.2679	-.2703	-.2285	

ALPHA (2) = -.231 BETA (2) = .009

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0207	.0465	.2810	.3645				
195.000		-.0181	.0525	.2596	.3565	.2956	.0931	-.2345	
210.000	-.1419	-.0195	.0712	.2249	.2907	.1347	.0365	-.0776	
225.000		-.0164	.0626	.2311	.2840	.1110	-.0246	-.0486	
240.000		-.0146	-.0058	.2205	.1841	.0415	-.1538	-.1903	-.2314
255.000		.0098	-.0488	.1395	.1352	-.1202	-.1231	-.1431	-.2141
270.000	-.0900	.0194	-.0677	-.0033	.1096	-.0279	-.0302	-.1089	
290.000	-.0384	.0237	-.1244	-.1472	.0819	-.0123	-.0207	-.1045	
320.000		.0000	.0000	.0000	.0000	-.3185	-.3390	-.3828	
360.000						-.2173	-.2234	-.2270	

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF CRB BODY

(REUB34)

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.210 BETA (3) = 4.028

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0757	-.0178	.2489	.2458				
195.000		-.0823	-.0393	.2689	.2977	.4299	.2078	-.2239	
210.000	-.1234	-.0832	-.0504	.2779	.2590	.0185	.1096	-.0067	
225.000		-.0640	-.0763	.2691	.2557	.0305	-.0249	.0230	
240.000		-.0472	-.0913	.1895	.1811	.0730	-.1299	-.1167	-.1971
255.000		.0472	-.0606	-.0456	.1382	-.0530	-.1363	-.1390	-.2138
270.000	-.0126	.0647	-.0809	-.1134	.0937	.0250	-.0132	-.1007	
290.000	-.0074	.0064	-.1242	-.1659	-.0148	.0049	.0230	-.0876	
320.000		.0000	.0000	.0000	.0000	-.3472	-.3514	-.4433	
360.000						-.2298	-.2708	-.2455	

ALPHA (3) = 3.930 BETA (1) = .003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0001	.1171	.2411	.3136				
195.000		-.0012	.1294	.2204	.3060	.1983	.0372	-.2645	
210.000	-.1507	-.0081	.1217	.2038	.2458	.0329	-.0218	-.1328	
225.000		-.0251	.0406	.2312	.2541	-.0531	-.1021	-.0915	
240.000		-.0601	-.0478	.1963	.1387	-.0230	-.2159	-.2216	-.2593
255.000		-.0293	-.0955	.0229	.1151	-.1512	-.2030	-.1984	-.2481
270.000	-.0499	-.0185	-.1175	-.1476	.0484	-.0261	-.0693	-.1626	
290.000	-.0659	.0306	-.1765	-.2127	-.0058	-.0633	-.0477	-.1451	
320.000		.0000	.0000	.0000	.0000	-.3136	-.3583	-.3921	
360.000						-.2099	-.2223	-.2214	

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM CRB BODY

(RELS35) (19 OCT 74)

REFERENCE DATA

3REF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-CB = .000
 RUDDER = .000 MACH = .900
 GIMBAL = 2.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.308	BETA (1) = .009	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		.0423	.1269	.3187	.5467				
		195.000		.0388	.1247	.3274	.5073	-.0814	-.3076	-.3992	
		210.000	.0288	.0356	.1162	.3288	.4728	-.2574	-.3052	-.4734	
		225.000		.0299	.0935	.2988	.3633	-.3200	-.3568	-.3777	
		240.000		.0205	.0564	.2073	.1770	-.3569	-.5290	-.5296	-.3889
		255.000		-.0060	.0070	.1385	.1429	-.4438	-.4672	-.5037	-.4133
		270.000	.0496	-.0305	-.0255	.0728	.1162	-.2371	-.3657	-.4544	
		290.000	.0505	-.0730	-.0781	-.0001	.0947	-.2851	-.3615	-.3636	
		320.000		.0000	.0000	.0000	.0000	-.5323	-.4217	-.3787	
		360.000						-.4456	-.4042	-.3927	
ALPHA (2) = -3.990	BETA (1) = -4.000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		-.0570	.0463	.2562	.3262				
		195.000		-.0509	.0512	.2448	.3415	-.2471	-.5276	-.4670	
		210.000	-.0261	-.0429	.0449	.2390	.3747	-.4541	-.5626	-.6515	
		225.000		-.0376	.0232	.1913	.2880	-.5194	-.5764	-.5720	
		240.000		-.0393	-.0108	.0915	.0549	-.5938	-.7145	-.7037	-.4929
		255.000		-.0527	-.0501	.0462	.0241	-.5600	-.5848	-.6179	-.4068
		270.000	-.0016	-.0659	-.0766	-.0098	.0133	-.3444	-.4412	-.5786	
		290.000	-.0067	-.0728	-.1241	-.0809	.0022	-.3957	-.4560	-.5546	
		320.000		.0000	.0000	.0000	.0000	-.5082	-.4432	-.3988	
		360.000						-.4617	-.3903	-.3907	
ALPHA (2) = -3.884	BETA (2) = .012	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		-.0074	.0805	.2820	.5115				
		195.000		-.0103	.0782	.2915	.4563	-.1379	-.3707	-.3605	
		210.000	.0157	-.0150	.0682	.2876	.4394	-.3076	-.3557	-.4672	
		225.000		-.0244	.0407	.2516	.3888	-.3592	-.3993	-.4026	
		240.000		-.0437	.0046	.1796	.2475	-.3746	-.5344	-.5379	-.4179
		255.000		-.0867	-.0670	.1126	.1279	-.4442	-.5164	-.5346	-.3488
		270.000	.0258	-.1265	-.1167	.0363	.1037	-.2476	-.3718	-.4902	
		290.000	.0229	-.1053	-.1795	-.0457	.0821	-.2948	-.3629	-.4133	
		320.000		.0000	.0000	.0000	.0000	-.5422	-.3720	-.3341	
		360.000						-.4339	-.3621	-.3485	

ARC11-014IA19 OTS+STRUT SRB-NOM MFS-NOM CRB BODY

(REUB35)

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.345 BETA (3) = 4.025

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0610	.0507	.2576	.3373				
195.000		-.0794	.0403	.2927	.3337	.0295	-.1558	-.4146	
210.000	-.0349	-.1016	.0238	.3168	.2222	-.2358	-.1638	-.3447	
225.000		-.1330	-.0172	.3209	.2790	-.2927	-.1648	-.2280	
240.000		-.1786	-.0931	.2484	.2006	-.2913	-.1740	-.2791	-.4095
255.000		-.1741	-.1782	.1101	.2050	-.3579	-.1594	-.2425	-.4382
270.000	.0364	-.1968	-.2313	.0226	.1649	-.1748	-.1436	-.1938	
290.000	.0435	-.1570	-.2958	-.0661	.1234	-.2159	-.1428	-.1521	
320.000		.0000	.0000	.0000	.0000	-.5171	-.4472	-.4152	
360.000						-.3767	-.4242	-.4003	

ALPHA (3) = 3.903 BETA (1) = .006

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0673	.0027	.1974	.4225				
195.000		-.0735	-.0006	.2039	.3960	-.1959	-.4382	-.3652	
210.000	-.0014	-.0828	-.0144	.1956	.4368	-.3693	-.4409	-.5349	
225.000		-.1058	-.0574	.1713	.3100	-.4376	-.4928	-.4844	
240.000		-.1394	-.1080	.1200	.1485	-.4386	-.6096	-.5870	-.2987
255.000		-.1817	-.2247	.0575	.0595	-.4788	-.5672	-.5556	-.3705
270.000	-.0020	-.2165	-.2866	-.0356	.0479	-.2898	-.4065	-.5227	
290.000	-.0071	-.1302	-.3491	-.1336	.0409	-.3469	-.4117	-.3810	
320.000		.0000	.0000	.0000	.0000	-.5375	-.3840	-.3310	
360.000						-.4174	-.3790	-.3554	

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM CRB BODY

(REUB36) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 2.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.008 BETA (1) = .003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.1997	.3142	.4897	.5982				
195.000		.1995	.3103	.4920	.5955	.1888	-.0431	-.4377	
210.000	-.0755	.1928	.3050	.4885	.5147	.0170	-.0617	-.2045	
225.000		.1846	.2859	.4599	.4533	-.0341	-.1058	-.1179	
240.000		.1731	.2634	.4081	.2324	-.0578	-.2435	-.2364	-.4014
255.000		.1480	.2065	.3545	.3219	-.1312	-.1712	-.2316	-.4378
270.000	-.0286	.1181	.1676	.2934	.3091	.0337	-.0949	-.2070	
290.000	-.0149	.0136	.1238	.2267	.3033	-.0068	-.0863	-.2282	
320.000		.0000	.0000	.0000	.0000	-.5202	-.4554	-.4079	
360.000						-.4044	-.4033	-.3837	

ALPHA (2) = -.342 BETA (1) = -4.000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0829	.2286	.4260	.4609				
195.000		.1011	.2397	.4131	.4991	.0573	-.2297	-.4767	
210.000	.0418	.1181	.2430	.3915	.4261	-.1485	-.2609	-.3667	
225.000		.1323	.2385	.3682	.3419	-.1915	-.2677	-.2734	
240.000		.1424	.2163	.3147	.0709	-.2216	-.3836	-.3803	-.4716
255.000		.1318	.1879	.2945	.1979	-.2270	-.2513	-.3197	-.4869
270.000	.0319	.1091	.1521	.2365	.2416	-.0391	-.1465	-.2851	
290.000	.0118	.0439	.1028	.1702	.2401	-.0807	-.1668	-.2869	
320.000		.0000	.0000	.0000	.0000	-.4433	-.4213	-.4196	
360.000						-.3527	-.3878	-.3648	

ALPHA (2) = -.318 BETA (2) = .012

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.1549	.3066	.4412	.5448				
195.000		.1463	.3121	.4360	.5128	.2124	-.0305	-.4098	
210.000	-.0865	.1650	.3099	.4263	.4560	.0617	-.0956	-.2030	
225.000		.1471	.2849	.4206	.4345	.0055	-.1005	-.1207	
240.000		.1280	.2125	.3728	.3625	-.0398	-.2187	-.2148	-.3725
255.000		.0944	.1260	.3186	.3011	-.1020	-.1764	-.2205	-.4046
270.000	-.0732	.0786	.0759	.2599	.2928	.0563	-.0694	-.1933	
290.000	-.0744	.0267	.0109	.1826	.2913	.0121	-.0489	-.2244	
320.000		.0000	.0000	.0000	.0000	-.4640	-.4259	-.3713	
360.000						-.3418	-.3439	-.3345	

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM CRB BODY

(REUB36)

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.417 BETA (3) = 4.031

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		.0712	.2296	.4222	.4630				
195.000		.0606	.2018	.4474	.4630	.3248	.0912	-.4391	
210.000	-.0815	.0506	.1474	.4687	.3973	.0467	.0342	-.1229	
225.000		.0263	.0296	.4570	.4086	-.0425	-.0508	-.0430	
240.000		-.0100	-.0908	.4057	.2945	-.0064	-.1585	-.1439	-.3588
255.000		.0398	-.1114	.2785	.3101	-.0621	-.1546	-.2027	-.3470
270.000	.0732	.0303	-.1342	.1271	.2879	.0770	-.0512	-.1756	
290.000	.1003	-.0083	-.1815	-.0591	.2710	.0481	-.0247	-.1847	
320.000		.0000	.0000	.0000	.0000	-.5340	-.4795	-.4297	
360.000						-.3328	-.3854	-.3709	

ALPHA (3) = 3.717 BETA (1) = .000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		.1675	.2017	.4017	.5556				
195.000		.1632	.1948	.4066	.5066	.1100	-.1284	-.4662	
210.000	.0948	.1530	.1659	.4019	.4196	-.0800	-.1497	-.2786	
225.000		.1307	.1152	.3802	.3967	-.1496	-.1907	-.1943	
240.000		.0906	.0231	.3364	.2277	-.1210	-.2910	-.2861	-.4140
255.000		.0684	-.0844	.2679	.2272	-.1578	-.2492	-.2833	-.4512
270.000	.0589	.0391	-.1267	.1385	.2338	-.0021	-.1174	-.2496	
290.000	.0541	.0501	-.1772	.0002	.2383	-.0509	-.1102	-.2747	
320.000		.0000	.0000	.0000	.0000	-.4981	-.5038	-.4251	
360.000						-.3709	-.3827	-.3636	

ARC11-014IA19 OTS+STRUT SRB-NCM MPS-NCM CRB BODY

(REUB37) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 2.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.149 BETA (1) = .006

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0163	.0538	.4178	.5065				
195.000		-.0152	.0510	.4206	.5057	.3076	.0499	-.3433	
210.000	-.1273	-.0119	.0466	.4192	.4153	.0916	.0051	-.1176	
225.000		.0027	.0402	.3834	.3656	.0092	-.0513	-.0566	
240.000		.0162	.0252	.2938	.0892	-.0073	-.1864	-.1873	-.2717
255.000		.0282	-.0393	.2724	.1846	-.0910	-.1099	-.1343	-.2771
270.000	-.0475	.0196	-.0763	.2005	.2162	.0634	-.0257	-.1029	
290.000	-.0365	-.0233	-.1050	.1234	.2267	.0134	-.0230	-.1206	
320.000		.0000	.0000	.0000	.0000	-.3881	-.3530	-.3605	
360.000						-.2924	-.2953	-.2670	

ALPHA (2) = -.414 BETA (1) = -4.003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0246	.0116	.3126	.3324				
195.000		-.0268	.0540	.2894	.3457	.1676	-.0966	-.3563	
210.000	-.1791	-.0252	.0758	.2759	.2784	-.0128	-.1484	-.2588	
225.000		-.0168	.0763	.2626	.2788	-.0590	-.1738	-.2014	
240.000		-.0077	.0546	.2055	.0053	-.1080	-.2993	-.3322	-.3596
255.000		.0044	-.0086	.2148	.1263	-.1616	-.1739	-.2178	-.3469
270.000	-.0614	.0000	-.0690	.1414	.1854	.0093	-.0825	-.1868	
290.000	-.0628	-.0053	-.1213	.0725	.2129	-.0265	-.0997	-.1816	
320.000		.0000	.0000	.0000	.0000	-.3306	-.3168	-.3080	
360.000						-.2676	-.2792	-.2716	

ALPHA (2) = -.459 BETA (2) = .009

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0026	.1072	.3240	.4129				
195.000		-.0013	.1111	.3060	.4093	.2590	.0234	-.3327	
210.000	-.1239	.0034	.1202	.2755	.3561	.0995	-.0273	-.1508	
225.000		.0049	.1030	.2727	.3566	.0560	-.0782	-.0978	
240.000		.0150	.0118	.2433	.2172	-.0258	-.1921	-.2109	-.2958
255.000		.0257	-.0705	.1643	.1649	-.0975	-.1575	-.1738	-.2950
270.000	-.0465	.0095	-.1148	.0367	.1550	.0415	-.0399	-.1336	
290.000	-.0434	-.0072	-.1605	-.1351	.1879	-.0006	-.0238	-.1489	
320.000		.0000	.0000	.0000	.0000	-.3631	-.3576	-.3649	
360.000						-.2550	-.2650	-.2529	

ORIGINAL PAGE IS
 OF POOR QUALITY

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM CRB BODY

(REUB37)

SECTION (1) ORBITER BODY		DEPENDENT VARIABLE CP										
ALPHA (2) =	BETA (3) =	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002	
		PHI										
		180.000		-.0255	.0014	.3078	.3451					
		195.000		-.0255	-.0244	.3227	.3543	.4132	.1555	-.3180		
		210.000	-.1383	-.0190	-.0346	.3313	.3066	.0528	.0692	-.0592		
		225.000		-.0304	-.0671	.3246	.3011	-.0139	-.0335	-.0003		
		240.000		-.0569	-.1027	.2745	.1849	.0226	-.1679	-.1178	-.2474	
		255.000		.0254	-.1204	.0564	.1596	-.0568	-.1318	-.1563	-.2738	
		270.000	-.0171	.0312	-.1498	-.1466	.1046	.0548	-.0152	-.1167		
		290.000	-.0108	-.0240	-.1822	-.2243	.0741	.0394	.0205	-.1174		
		320.000		.0000	.0000	.0000	.0000	-.4007	-.3771	-.4397		
		360.000						-.2311	-.2866	-.2680		
ALPHA (3) =	BETA (1) =	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002	
		PHI										
		180.000		.0089	.0916	.3023	.4244					
		195.000		.0081	.0938	.2866	.3844	.1838	-.0384	-.3578		
		210.000	-.1095	.0073	.0685	.2844	.2829	-.0211	-.0841	-.2016		
		225.000		.0072	.0097	.2861	.2657	-.0971	-.1522	-.1338		
		240.000		.0083	-.0459	.2577	.1299	-.0739	-.2623	-.2282	-.3206	
		255.000		.0147	-.1134	.1442	.1141	-.1266	-.1958	-.2253	-.3160	
		270.000	-.0834	-.0173	-.1580	-.0577	.0758	-.0065	-.0717	-.1722		
		290.000	-.0936	.0034	-.2084	-.2335	.0945	-.0412	-.0573	-.1779		
		320.000		.0000	.0000	.0000	.0000	-.3603	-.4000	-.4190		
		360.000						-.2512	-.2826	-.2733		

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM CRB BODY

(REUB38) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 2.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.155	BETA (1) = .003	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		-.0345	-.0031	.3495	.4461				
		195.000		-.0275	.0022	.3555	.4427	.3614	.1254	-.2376	
		210.000	-.1104	-.0266	.0111	.3536	.3686	.1346	.0608	-.0455	
		225.000		-.0205	.0097	.3303	.3204	.0581	-.0059	-.0104	
		240.000		-.0071	.0008	.2329	.0933	.0567	-.1524	-.1547	-.2122
		255.000		.0095	-.0187	.2195	.1382	-.0693	-.0859	-.1034	-.1848
		270.000	-.0491	.0200	-.0428	.1327	.1504	.0584	.0001	-.0664	
		290.000	-.0293	.0023	-.0867	-.0204	.1903	.0203	.0060	-.0752	
		320.000		.0000	.0000	.0000	.0000	-.3059	-.2892	-.3114	
		360.000						-.2008	-.2406	-.2218	
ALPHA (2) = -3.87	BETA (1) = -4.000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		-.0749	-.0180	.2525	.2444				
		195.000		-.0623	.0082	.2398	.2745	.1908	-.0038	-.2662	
		210.000	-.2114	-.0508	.0222	.2403	.2688	.0626	-.0707	-.1732	
		225.000		-.0343	.0229	.2290	.2201	.0072	-.1051	-.1326	
		240.000		-.0251	.0119	.1643	.0085	-.0352	-.2427	-.2877	-.2907
		255.000		-.0231	-.0344	.1733	.1001	-.1309	-.1378	-.1679	-.2535
		270.000	-.0881	-.0113	-.0681	.0852	.1338	.0213	-.0579	-.1375	
		290.000	-.0673	.0106	-.1073	-.0555	.1753	-.0167	-.0692	-.1258	
		320.000		.0000	.0000	.0000	.0000	-.2445	-.2347	-.2190	
		360.000						-.2057	-.2056	-.1674	
ALPHA (2) = -3.318	BETA (2) = .009	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		-.0206	.0367	.2825	.3688				
		195.000		-.0203	.0455	.2619	.3649	.2984	.0907	-.2385	
		210.000	-.1410	-.0202	.0634	.2232	.2882	.1355	.0358	-.0762	
		225.000		-.0159	.0538	.2273	.2798	.1127	-.0267	-.0466	
		240.000		-.0139	-.0059	.2229	.1899	.0459	-.1544	-.1884	-.2314
		255.000		.0101	-.0511	.1490	.1267	-.1202	-.1224	-.1413	-.2164
		270.000	-.0501	.0159	-.0678	.0070	.1077	.0292	-.0314	-.1071	
		290.000	-.0386	.0207	-.1226	-.1444	.0890	-.0146	-.0201	-.1019	
		320.000		.0000	.0000	.0000	.0000	-.2887	-.2837	-.3032	
		360.000						-.1730	-.2099	-.1792	

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM ORB BODY

(REUB38)

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.354 BETA (3) = 4.031

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		-.0723	-.0171	.2523	.2509				
195.000		-.0833	-.0364	.2754	.3017	.4305	.2109	-.2164	
210.000	-.1195	-.0777	-.0447	.2847	.2605	.0206	.1111	-.0909	
225.000		-.0585	-.0663	.2763	.2582	.0325	-.0223	.0281	
240.000		-.0407	-.0787	.1960	.1878	.0777	-.1256	-.1143	-.1922
255.000		.0511	-.0535	-.0463	.1488	-.0463	-.1309	-.1339	-.2084
270.000	-.0087	.0691	-.0749	-.1030	.1010	.0323	-.0140	-.0988	
290.000	-.0004	.0101	-.1175	-.1583	-.0099	.0108	.0266	-.0789	
320.000		.0000	.0000	.0000	.0000	-.3178	-.3043	-.3568	
360.000						-.1679	-.2097	-.1932	

ALPHA (3) = 3.939 BETA (1) = .000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		.0048	.1229	.2466	.3168				
195.000		.0062	.1275	.2231	.3105	.2047	.0403	-.2584	
210.000	-.1475	-.0016	.1291	.2060	.2519	.0385	-.0180	-.1291	
225.000		-.0177	.0447	.2424	.2549	-.0495	-.0976	-.0876	
240.000		-.0533	-.0420	.2006	.1458	-.0194	-.2112	-.2190	-.2567
255.000		-.0261	-.0914	.0211	.1208	-.1436	-.1992	-.1955	-.2445
270.000	-.0504	-.0151	-.1121	-.1470	.0498	-.0214	-.0644	-.1613	
290.000	-.0570	.0390	-.1712	-.2091	-.0003	-.0594	-.0436	-.1403	
320.000		.0000	.0000	.0000	.0000	-.2727	-.3041	-.3091	
360.000						-.1512	-.1950	-.1617	

ARC11-014IA19 OTS

SRB-OFF MPS-OFF CRB BODY

(REUB39) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -8.139	BETA (1) = .000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.0960	.1759	.3854	.6166				
		195.000		.0940	.1797	.3921	.5886	-.0076	-.2147	-.2394	
		210.000	.0557	.0940	.1710	.3883	.5923	-.1822	-.2223	-.3767	
		225.000		.0906	.1485	.3565	.4384	-.2790	-.2825	-.2598	
		240.000		.0808	.1143	.2499	.2171	-.2768	-.5119	-.3916	-.2728
		255.000		.0687	.0835	.1831	.1418	-.4324	-.3096	-.2616	-.2664
		270.000	.0838	.0657	.0629	.1283	.1420	-.2057	-.2723	-.1988	
		290.000	.0926	-.0431	.0273	.0663	.1242	-.2618	-.2441	-.1769	
		320.000		.0000	.0000	.0000	.0000	-.4920	-.3406	-.2965	
		360.000						-.4166	-.3386	-.3256	
ALPHA (2) = -4.032	BETA (1) = .000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.0421	.1260	.3394	.5610				
		195.000		.0401	.1250	.3468	.5205	-.0767	-.2864	-.2148	
		210.000	.0287	.0371	.1160	.3446	.4823	-.2488	-.2679	-.3478	
		225.000		.0327	.0932	.3148	.3864	-.3173	-.3254	-.2585	
		240.000		.0233	.0612	.2193	.1956	-.3260	-.5152	-.3522	-.2558
		255.000		.0005	.0143	.1476	.1434	-.4531	-.3701	-.2390	-.2481
		270.000	.0533	-.0243	-.0153	.0800	.1135	-.2350	-.2677	-.1851	
		290.000	.0571	-.0351	-.0669	.0111	.0956	-.2924	-.2623	-.1653	
		320.000		.0000	.0000	.0000	.0000	-.4630	-.2969	-.2673	
		360.000						-.3774	-.2969	-.2951	
ALPHA (3) = -.228	BETA (1) = -4.003	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		-.0430	.0572	.2780	.3674				
		195.000		-.0335	.0608	.2636	.3720	-.2421	-.5116	-.2469	
		210.000	-.0123	-.0279	.0526	.2454	.3914	-.4354	-.5412	-.5093	
		225.000		-.0227	.0286	.1985	.3079	-.5152	-.5536	-.5388	
		240.000		-.0301	-.0065	.1057	.0827	-.5589	-.7099	-.6933	-.2145
		255.000		-.0470	-.0474	.0548	.0367	-.5593	-.5974	-.3856	-.2217
		270.000	.0179	-.0682	-.0793	-.0067	.0173	-.3399	-.4897	-.3322	
		290.000	.0179	-.0083	-.1330	-.0791	.0119	-.3970	-.4567	-.2786	
		320.000		.0000	.0000	.0000	.0000	-.4526	-.3156	-.2838	
		360.000						-.3758	-.3108	-.3076	

ARC11-0141A19 OTS

SRB-OFF MPS-OFF CRB BODY

(REUB39)

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (3) = -.249 BETA (2) = .012

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0043	.0762	.2842	.5216				
195.000		-.0037	.0800	.2918	.4550	-.1365	-.3322	-.2077	
210.000	.0114	-.0099	.0690	.2908	.4371	-.3019	-.3322	-.3344	
225.000		-.0207	.0401	.2542	.3894	-.3584	-.3734	-.2569	
240.000		-.0400	-.0025	.1797	.2522	-.3498	-.5175	-.2954	-.2244
255.000		-.0787	-.0724	.1024	.1292	-.4614	-.4972	-.2038	-.2308
270.000	.0268	-.1144	-.1172	.0288	.0971	-.2547	-.3272	-.1666	
290.000	.0284	-.0183	-.1855	-.0541	.0787	-.3085	-.3494	-.1518	
320.000		.0000	.0000	.0000	.0000	-.4484	-.2874	-.2494	
360.000						-.3556	-.2833	-.2838	

ALPHA (3) = -.261 BETA (3) = 4.028

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0440	.0578	.2722	-.3663				
195.000		-.0500	.0540	.3012	.3577	.0572	-.1281	-.2289	
210.000	-.0281	-.0705	.0365	.3282	.2578	-.2023	-.1382	-.3023	
225.000		-.0957	-.0005	.3261	.3160	-.2609	-.1337	-.2136	
240.000		-.1400	-.0678	.2468	.2594	-.2133	-.1777	-.2616	-.2314
255.000		-.1420	-.1395	.1110	.2288	-.3068	-.1693	-.2162	-.2410
270.000	.0341	-.1693	-.1954	.0282	.1848	-.0944	-.1287	-.1534	
290.000	.0407	-.0538	-.2695	-.0550	.1481	-.1578	-.0920	-.1231	
320.000		.0000	.0000	.0000	.0000	-.3555	-.3117	-.3197	
360.000						-.3184	-.3059	-.3109	

ALPHA (4) = 4.032 BETA (1) = .003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0624	.0027	.2174	.4074				
195.000		-.0683	-.0025	.2194	.3412	-.1865	-.4183	-.2087	
210.000	.0039	-.0791	-.0203	.2124	.4578	-.3585	-.4171	-.3047	
225.000		-.1023	-.0562	.1866	.3290	-.4285	-.4707	-.2377	
240.000		-.1354	-.1070	.1377	.1610	-.3975	-.5813	-.2586	-.2142
255.000		-.1738	-.2095	.0695	.0722	-.4785	-.5490	-.2040	-.2341
270.000	.0025	-.2095	-.2803	-.0248	.0561	-.2714	-.3430	-.1611	
290.000	.0031	-.0107	-.3505	-.1189	.0459	-.3365	-.3332	-.1384	
320.000		.0000	.0000	.0000	.0000	-.4933	-.2916	-.2323	
360.000						-.3670	-.2912	-.2745	

ALPHA (5) = 7.920 BETA (1) = .003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0882	-.0563	.1070	.3313				
195.000		-.0956	-.0646	.1106	.2766	-.1879	-.3424	-.2302	
210.000	-.0177	-.1196	-.0907	.0982	.3052	-.3679	-.3623	-.3425	
225.000		-.1475	-.1343	.0812	.2264	-.4172	-.4088	-.2948	
240.000		-.1858	-.1960	.0442	.0630	-.3531	-.4772	-.2888	-.2088
255.000		-.2156	-.3176	-.0047	.0234	-.4068	-.4628	-.2374	-.2280
270.000	-.0330	-.2443	-.3992	-.1121	.0200	-.2308	-.3742	-.2216	
290.000	-.0348	-.0107	-.4874	-.1944	.0308	-.2853	-.3435	-.1877	
320.000		.0000	.0000	.0000	.0000	-.5055	-.3194	-.2667	

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - 1A19 (ARC 11-014)

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ARC11-0141A19 OTS

SRB-OFF MPS-OFF ORB BODY

(REUB39)

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (5) = 7.920 BETA (1) = .003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
360.000						-0.3711	-0.3248	-0.3018	

REPRODUCED FROM THE NASA ARCHIVES

ARC11-014IA19 OTS

SRB-OFF MPS-OFF CRB BODY

(REVB40) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -7.992	BETA (1) = .003	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		.2073	.3586	.5670	.7120				
		195.000		.2083	.3584	.5717	.7126	.2492	.0242	-.3298	
		210.000	-.1249	.1999	.3478	.5709	.6369	.0749	-.0012	-.1411	
		225.000		.2112	.3311	.5399	.5516	-.0004	-.0300	-.0737	
		240.000		.1978	.2995	.4394	.2828	-.0554	-.2192	-.2195	-.3498
		255.000		.1685	.2749	.3907	.3098	-.1138	-.1489	-.1791	-.3541
		270.000	-.0473	.1682	.2573	.3384	.3555	.0717	-.1349	-.1455	
		290.000	-.0341	-.0113	.2198	.2912	.3381	.0232	-.0363	-.1801	
		320.000		.0000	.0000	.0000	.0000	-.5184	-.4481	-.4004	
		360.000						-.4140	-.4080	-.3834	

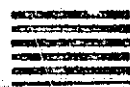
ALPHA (2) = -4.080	BETA (1) = .003	X/L	.500	.653	.730	.781	.823	.882	.925	.963	1.002
		PHI									
		180.000		.1967	.3298	.5183	.6263				
		195.000		.2040	.3284	.5217	.6193	.2163	-.0189	-.3345	
		210.000	-.1058	.1984	.3188	.5175	.5252	.0409	-.0391	-.1810	
		225.000		.1879	.3032	.4871	.4700	-.0129	-.0827	-.0956	
		240.000		.1752	.2789	.4271	.2102	-.0113	-.2288	-.2236	-.3489
		255.000		.1415	.2284	.3712	.3269	-.1207	-.1709	-.2185	-.3639
		270.000	-.0669	.1253	.1912	.3099	.3120	.0489	-.1522	-.1873	
		290.000	-.0674	.0078	.1458	.2461	.3103	.0049	-.0758	-.2205	
		320.000		.0000	.0000	.0000	.0000	-.5134	-.4426	-.3765	
		360.000						-.4052	-.3864	-.3672	

ALPHA (3) = -.225	BETA (1) = -4.000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		.1179	.2360	.4356	.4672				
		195.000		.1327	.2465	.4164	.4942	.0652	-.2101	-.3791	
		210.000	.0284	.1418	.2505	.3913	.4865	-.1286	-.2482	-.3503	
		225.000		.1512	.2397	.3764	.4065	-.1669	-.2489	-.2710	
		240.000		.1483	.2146	.3189	.1337	-.1755	-.3778	-.3740	-.4061
		255.000		.1322	.1765	.2923	.2350	-.2197	-.2650	-.3174	-.4193
		270.000	.0674	.1052	.1368	.2251	.2487	-.0386	-.2313	-.2820	
		290.000	.0601	.0647	.0820	.1611	.2451	-.0820	-.1732	-.2997	
		320.000		.0000	.0000	.0000	.0000	-.5124	-.3937	-.3547	
		360.000						-.4468	-.3644	-.3535	

ARC11-014IA19 OTS SRB-OFF MPS-OFF CRB BODY (REUB4D)

SECTION (1) ORBITER BODY		DEPENDENT VARIABLE CP										
ALPHA (3) = -.159	BETA (2) = .012	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002	
		PHT										
		180.000		.1872	.2987	.4419	.5386					
		195.000		.1877	.3024	.4429	.5146	.1975	-.0400	-.3392		
		210.000	-.0865	.1742	.3001	.4278	.4668	.0491	-.0679	-.2121		
		225.000		.1634	.2738	.4189	.4553	-.0184	-.1122	-.1334		
		240.000		.1362	.2014	.3726	.3666	-.0296	-.2349	-.2367	-.3445	
		255.000		.1124	.1183	.3122	.3192	-.1183	-.2094	-.2386	-.3690	
		270.000	-.0737	.0811	.0647	.2524	.3026	.0445	-.1531	-.2060		
		290.000	-.0612	.0539	-.0022	.1764	.3009	-.0017	-.0729	-.2515		
		320.000		.0000	.0000	.0000	.0000	-.4956	-.4453	-.3792		
		360.000						-.3852	-.3560	-.3479		
ALPHA (3) = -.312	BETA (3) = 4.028	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002	
		PHT										
		180.000		.1304	.2509	.4549	.4909					
		195.000		.1132	.2327	.4833	.5030	.3099	.0898	-.3375		
		210.000	-.1614	.0987	.1960	.5058	.4196	.0516	.0347	-.1086		
		225.000		.0733	.1154	.5053	.4493	-.0416	-.0436	-.0295		
		240.000		.0319	-.0055	.4478	.3566	.0330	-.1469	-.1368	-.3022	
		255.000		.0764	-.0476	.3012	.3697	-.0531	-.1622	-.1969	-.1978	
		270.000	-.0151	.0639	-.0794	.1819	.3438	.1015	-.1065	-.1592		
		290.000	-.0049	.0169	-.1323	.0709	.3104	.0624	-.0167	-.1747		
		320.000		.0000	.0000	.0000	.0000	-.4154	-.3902	-.4050		
		360.000						-.3852	-.3557	-.3462		
ALPHA (4) = 3.885	BETA (1) = .000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002	
		PHT										
		180.000		.1703	.2018	.4062	.5903					
		195.000		.1637	.1940	.4051	.5020	.1116	-.1273	-.3826		
		210.000	.1014	.1529	.1684	.4025	.4538	-.0793	-.1524	-.2801		
		225.000		.1315	.1112	.3816	.4146	-.1455	-.1938	-.1987		
		240.000		.0913	.0240	.3425	.2427	-.0932	-.2974	-.2958	-.3795	
		255.000		.0737	-.0725	.2625	.2388	-.1648	-.2745	-.2923	-.4083	
		270.000	.0850	.0448	-.1158	.1306	.2356	-.0038	-.1969	-.2561		
		290.000	.0808	.1004	-.1760	-.0222	.2434	-.0540	-.1306	-.2957		
		320.000		.0000	.0000	.0000	.0000	-.5179	-.5164	-.4323		
		360.000						-.4100	-.3894	-.3779		
ALPHA (5) = 8.073	BETA (1) = .000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002	
		PHT										
		180.000		.1266	.0699	.3409	.5395					
		195.000		.1205	.0568	.3313	.5441	.0612	-.1928	-.4282		
		210.000	.1518	.0962	.0171	.2868	.6020	-.1334	-.2227	-.3410		
		225.000		.0792	-.0029	.2501	.4573	-.1753	-.2538	-.2747		
		240.000		.0266	-.0652	.2131	.2031	-.1444	-.3490	-.3633	-.4310	
		255.000		.0098	-.1512	.1298	.1658	-.2242	-.3313	-.3620	-.4555	
		270.000	.1336	-.0161	-.1924	-.0698	.1473	-.0690	-.2524	-.3104		
		290.000	.1200	.1124	-.2496	-.3071	.1498	-.1280	-.1898	-.3503		
		320.000		.0000	.0000	.0000	.0000	-.5282	-.5574	-.5163		

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OF POOR QUALITY



ARC11-014IA19 OTS

SRB-OFF MPS-OFF CRB BODY

(RELB40)

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (5) = 8.073	BETA (1) = .000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		360.000						-.4543	-.4456	-.4253	

ARC11-014IA19 QTS

SRB-OFF MPS-OFF ORB BODY

(REUS41) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -8.232 BETA (1) = -.006

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0185	-.0028	.5050	.6111				
195.000		-.0188	.0446	.5102	.6042	.3623	.1046	-.2915	
210.000	-.0949	-.0243	.0540	.5099	.5947	.1534	.0654	-.0667	
225.000		-.0175	.0729	.4872	.4622	.0538	-.0023	-.0030	
240.000		.0124	.1319	.3487	.1603	.0188	-.1469	-.1527	-.2408
255.000		.0349	.1198	.2998	.1210	-.0314	-.0694	-.0768	-.2404
270.000	-.0417	.0480	.0828	.2932	.2655	.1268	-.0378	-.0301	
290.000	-.0243	-.0431	.0356	.2434	.2949	.0632	.0630	-.0785	
320.000		.0000	.0000	.0000	.0000	-.4336	-.4234	-.4293	
360.000						-.3799	-.3555	-.3206	

ALPHA (2) = -4.098 BETA (1) = -.006

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0212	.0407	.4346	.5209				
195.000		-.0222	.0528	.4391	.5179	.3180	.0624	-.2864	
210.000	-.1276	-.0212	.0545	.4376	.4222	.1046	.0199	-.1043	
225.000		-.0073	.0446	.4070	.3774	.0169	-.0378	-.0452	
240.000		.0130	.0359	.3119	.0997	.0258	-.1749	-.1798	-.2548
255.000		.0303	-.0190	.2911	.1916	-.0848	-.1168	-.1297	-.2616
270.000	-.0533	.0257	-.0547	.2161	.2234	.0757	-.0836	-.0917	
290.000	-.0388	-.0255	-.0858	.1423	.2309	.0175	-.0185	-.1222	
320.000		.0000	.0000	.0000	.0000	-.3923	-.3731	-.3865	
360.000						-.3320	-.3059	-.2839	

ALPHA (3) = -.243 BETA (1) = -4.000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0393	.0383	.3252	.3198				
195.000		-.0318	.0933	.2939	.3430	.1692	-.0862	-.3228	
210.000	-.1685	-.0239	.1034	.2889	.3126	-.0003	-.1456	-.2598	
225.000		-.0017	.0869	.2695	.2827	-.0627	-.1784	-.2003	
240.000		.0112	.0563	.2091	.0159	-.0907	-.3013	-.3314	-.3324
255.000		.0222	-.0190	.2090	.1384	-.1655	-.1990	-.2331	-.3332
270.000	-.0711	.0140	-.0750	.1089	.1896	.0020	-.1583	-.1970	
290.000	-.0672	.0068	-.1309	.0107	.2119	-.0404	-.1176	-.2042	
320.000		.0000	.0000	.0000	.0000	-.3900	-.3247	-.2951	
360.000						-.2892	-.2785	-.2844	

ARC11-014IA19 QTS

SRB-OFF MPS-OFF CRB BODY

(REU941)

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (3) = -.171 BETA (2) = .012

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		-.0111	.1046	.3368	.4211				
195.000		-.0095	.1184	.3183	.4208	.2568	.0226	-.2894	
210.000	-.1230	-.0086	.1276	.2795	.3601	.0940	-.0236	-.1479	
225.000		-.0047	.1113	.2741	.3615	.0556	-.0751	-.0959	
240.000		.0106	.0244	.2514	.2323	-.0025	-.1928	-.2110	-.2795
255.000		.0241	-.0569	.1641	.1706	-.1034	-.1718	-.1800	-.2815
270.000	-.0566	.0096	-.0995	.0492	.1657	.0405	-.1036	-.1365	
290.000	-.0544	-.0020	-.1499	-.1394	.1960	-.0042	-.0350	-.1640	
320.000		.0000	.0000	.0000	.0000	-.3777	-.3834	-.3958	
360.000						-.3244	-.2961	-.2815	

ALPHA (3) = -.171 BETA (3) = 4.025

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		-.0490	.0264	.3164	.3339				
195.000		-.0504	-.0059	.3308	.3522	.3969	.1503	-.2871	
210.000	-.1468	-.0505	-.0315	.3388	.3275	.0462	.0609	-.0644	
225.000		-.0563	-.0656	.3401	.3203	-.0180	-.0315	-.0093	
240.000		-.0678	-.1009	.2839	.2067	.0493	-.1644	-.1266	-.2384
255.000		.0034	-.1127	.0632	.1703	-.0465	-.1472	-.1648	-.2691
270.000	-.0441	.0061	-.1355	-.1367	.1207	.0627	-.0729	-.1199	
290.000	-.0386	-.0375	-.1736	-.2244	.1211	.0392	.0054	-.1305	
320.000		.0000	.0000	.0000	.0000	-.3139	-.3635	-.4533	
360.000						-.3626	-.3226	-.3155	

ALPHA (4) = 7.860 BETA (1) = -.003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		.0490	.0756	.3015	.4719				
195.000		.0485	.0728	.2945	.4593	.1633	-.0702	-.3619	
210.000	-.0935	.0444	.0479	.2587	.3883	-.0335	-.1151	-.2200	
225.000		.0312	.0064	.2152	.3288	-.0651	-.1703	-.1763	
240.000		-.0120	-.0834	.2200	.1528	-.0268	-.2734	-.2582	-.3399
255.000		.0175	-.1459	.1189	.1220	-.1780	-.2233	-.2694	-.3412
270.000	-.1295	-.0021	-.1861	-.1175	.0604	-.0390	-.1795	-.2133	
290.000	-.1309	.0814	-.2431	-.2822	.0429	-.0742	-.1055	-.2263	
320.000		.0000	.0000	.0000	.0000	-.4005	-.4682	-.4886	
360.000						-.3303	-.3287	-.3238	

ARC11-014IA19 QTS

SRB-OFF MPS-OFF CRB BODY

(RELS42) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.059 BETA (1) = .000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0304	-.00134	.3588	.4567				
195.000		-.0308	.00158	.3690	.4547	.3698	.1322	-.2427	
210.000	-.1006	-.0269	.0140	.3691	.3775	.1436	.0721	-.0374	
225.000		-.0217	.0124	.3503	.3342	.0604	.0024	-.0036	
240.000		-.0141	.0070	.2513	.1126	.0807	-.1461	-.1490	-.2181
255.000		.0029	-.0094	.2302	.1410	-.0658	-.0929	-.0985	-.1815
270.000	-.0448	.0214	-.0306	.1364	.1598	.0696	-.0527	-.0560	
290.000	-.0241	-.0085	-.0795	-.0201	.1925	.0263	.0130	-.0765	
320.000		.0000	.0000	.0000	.0000	-.3455	-.3608	-.4213	
360.000						-.3283	-.2723	-.2754	

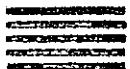
ALPHA (2) = -.183 BETA (1) = -3.997

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0703	-.0119	.2607	.2581				
195.000		-.0612	.0132	.2496	.2857	.1995	.0041	-.2648	
210.000	-.2090	-.0438	.0280	.2507	.2804	.0713	-.0642	-.1659	
225.000		-.0250	.0300	.2355	.2290	.0070	-.1016	-.1292	
240.000		-.0137	.0168	.1767	.0178	-.0182	-.2356	-.2844	-.2809
255.000		-.0072	-.0277	.1764	.1162	-.1285	-.1490	-.1689	-.2576
270.000	-.0857	.0049	-.0570	.0743	.1427	.0247	-.1037	-.1342	
290.000	-.0713	.0092	-.1083	-.0743	.1722	-.0197	-.0758	-.1362	
320.000		.0000	.0000	.0000	.0000	-.3104	-.2838	-.2692	
360.000						-.4425	-.2970	-.2190	

ALPHA (2) = -.195 BETA (2) = .012

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0170	.0335	.2888	.3665				
195.000		-.0185	.0381	.2727	.3660	.2940	.0902	-.2401	
210.000	-.1389	-.0216	.0543	.2297	.2935	.1268	.0334	-.0773	
225.000		-.0219	.0508	.2294	.2821	.1083	-.0275	-.0462	
240.000		-.0213	-.0077	.2262	.1967	.0626	-.1565	-.1842	-.2241
255.000		.0063	-.0482	.1470	.1380	-.1155	-.1317	-.1404	-.2122
270.000	-.0529	.0150	-.0669	.0045	.1125	-.0329	-.0758	-.1019	
290.000	-.0397	.0097	-.1287	-.1469	.0968	-.0096	-.0271	-.1105	
320.000		.0000	.0000	.0000	.0000	-.3235	-.3441	-.3859	
360.000						-.2746	-.2245	-.2228	

ORIGINAL PAGE IS
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		ARC11-014IA19 OTS	SRB-OFF MPS-OFF CRB BODY							(REUB42)	
SECTION (1) CRBITER BODY		DEPENDENT VARIABLE CP									
ALPHA (2) =	BETA (3) =	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.000
		FHI									
		180.000		-.0764	-.0024	.2588	.2481				
		195.000		-.0901	-.0345	.2803	.2991	.4109	.1990	-.2235	
		210.000	-.1176	-.0947	-.0438	.2885	.2577	.0105	.1017	-.0030	
		225.000		-.0796	-.0725	.2811	.2538	.0287	-.0239	.0232	
		240.000		-.0591	-.0882	.1951	.1769	.1117	-.1311	-.1193	-.1864
		255.000		.0345	-.0573	-.0150	.1457	-.0487	-.1385	-.1387	-.2083
		270.000	-.0140	.0543	-.0769	-.1044	.1010	.0402	-.0583	-.0938	
		290.000	-.0125	-.0151	-.1238	-.1601	.0119	.0077	.0185	-.0843	
		320.000		.0000	.0000	.0000	.0000	-.2670	-.3275	-.4080	
		360.000						-.2808	-.3104	-.2449	
ALPHA (3) =	BETA (1) =	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.000
		FHI									
		180.000		-.0012	.0857	.2420	.3192				
		195.000		-.0029	.1258	.2167	.3160	.2023	.0423	-.2567	
		210.000	-.1411	-.0083	.1224	.2001	.2563	.0428	-.0138	-.1245	
		225.000		-.0215	.0437	.2277	.2554	-.0433	-.0936	-.0793	
		240.000		-.0509	-.0389	.2003	.1544	.0155	-.2062	-.2096	-.2444
		255.000		-.0215	-.0810	.0155	.1234	-.1380	-.1971	-.1896	-.2449
		270.000	-.0516	-.0138	-.1040	-.1306	.0623	-.0060	-.1117	-.1485	
		290.000	-.0627	.0605	-.1703	-.2028	.0106	-.0476	-.0467	-.1419	
		320.000		.0000	.0000	.0000	.0000	-.3152	-.3556	-.3846	
		360.000						-.2785	-.2253	-.2116	
ALPHA (4) =	BETA (1) =	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.000
		FHI									
		180.000		.0043	.0473	.2414	.3968				
		195.000		-.0013	.0339	.2348	.3722	.2213	.0140	-.2784	
		210.000	-.1334	-.0096	.0202	.2202	.3007	.0050	-.0527	-.1378	
		225.000		-.0354	-.0198	.2001	.2489	-.0054	-.1207	-.1155	
		240.000		-.0908	-.0786	.1952	.1192	.0319	-.2065	-.2356	-.2834
		255.000		-.0466	-.1045	.0269	.0901	-.1658	-.2341	-.2216	-.2729
		270.000	-.0821	-.0327	-.1344	-.1823	.0094	-.0826	-.1667	-.1827	
		290.000	-.0788	.0943	-.1993	-.2444	-.0372	-.1136	-.1006	-.1782	
		320.000		.0000	.0000	.0000	.0000	-.2957	-.3500	-.3700	
		360.000						-.2461	-.2398	-.2230	



ARC11-014:IA19 OTS

SRB-NCM MPS-OFF CRB BODY

(REUB43) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = .910
 GIMBAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -8.133 BETA (1) = .003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.1033	.1850	.3922	.6190				
195.000		.1040	.1858	.3991	.5915	.0949	-.2113	-.3137	
210.000	.0678	.0992	.1787	.3930	.5972	-.1775	-.2142	-.4172	
225.000		.0960	.1547	.3502	.4479	-.2636	-.2812	-.3445	
240.000		.0861	.1186	.2515	.2113	-.3137	-.5097	-.5079	-.2786
255.000		.0756	.0861	.1836	.1601	-.4019	-.4089	-.4217	-.2819
270.000	.0963	-.0731	.0700	.1259	.1538	-.1872	-.3904	-.3286	
290.000	.1039	-.0450	.0311	.0651	.1382	-.2403	-.3074	-.2748	
320.000		.0000	.0000	.0000	.0000	-.5344	-.4351	-.3953	
360.000						-.4454	-.4356	-.4338	

ALPHA (2) = -4.092 BETA (1) = .003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0397	.1230	.3393	.5627				
195.000		.0351	.1218	.3464	.5190	-.0802	-.2950	-.2263	
210.000	.0277	.0347	.1120	.3464	.4841	-.2568	-.2699	-.3909	
225.000		.0311	.0912	.3130	.3764	-.3205	-.3292	-.2739	
240.000		.0173	.0614	.2162	.1899	-.3277	-.5153	-.3420	-.2621
255.000		-.0029	.0149	.1461	.1438	-.4513	-.4125	-.2373	-.2607
270.000	.0495	-.0283	-.0154	.0808	.1115	-.2387	-.2970	-.1882	
290.000	.0537	-.0407	-.0657	.0107	.0953	-.2917	-.2949	-.1646	
320.000		.0000	.0000	.0000	.0000	-.4850	-.3042	-.2682	
360.000						-.3918	-.2998	-.2986	

ALPHA (3) = -.342 BETA (1) = -4.000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0453	.0507	.2676	.3570				
195.000		-.0403	.0523	.2560	.3621	-.2528	-.5215	-.2648	
210.000	-.0204	-.0360	.0420	.2381	.3747	-.4469	-.5552	-.5211	
225.000		-.0307	.0193	.1893	.2975	-.5314	-.5655	-.5516	
240.000		-.0368	-.0200	.0939	.0747	-.5763	-.7244	-.7083	-.2214
255.000		-.0571	-.0595	.0444	.0257	-.5749	-.6144	-.4286	-.2347
270.000	.0094	-.0751	-.0902	-.0153	.0092	-.3547	-.5128	-.3558	
290.000	.0096	-.0186	-.1434	-.0923	.0035	-.4118	-.4735	-.2982	
320.000		.0000	.0000	.0000	.0000	-.4707	-.3296	-.3028	
360.000						-.3971	-.3315	-.3248	

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ARC11-014IA19 OTS

SRB-NOM MPS-OFF ORB BODY

(REUB43)

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (3) = -.357 BETA (2) = .012

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0110	.0671	.2803	.5191				
195.000		-.0130	.0677	.2877	.4522	-.1499	-.3527	-.2279	
210.000	.0057	-.0191	.0610	.2849	.4333	-.3173	-.3528	-.3555	
225.000		-.0316	.0348	.2500	.3792	-.3686	-.4048	-.2739	
240.000		-.0492	-.0092	.1698	.2480	-.3600	-.5498	-.3024	-.2378
255.000		-.0842	-.0794	.0951	.1244	-.4700	-.5580	-.2145	-.2468
270.000	.0213	-.1199	-.1279	.0215	.0900	-.2633	-.3685	-.1853	
290.000	.0213	-.0286	-.1934	-.0581	.0721	-.3186	-.3605	-.1721	
320.000		.0000	.0000	.0000	.0000	-.4903	-.3044	-.2655	
360.000						-.3754	-.3092	-.3021	

ALPHA (3) = -.268 BETA (3) = 4.022

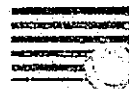
X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0418	.0803	.2761	.3725				
195.000		-.0589	.0538	.3049	.3664	.0403	-.1325	-.2408	
210.000	-.0265	-.0750	.0422	.3270	.2631	-.2084	-.1342	-.3050	
225.000		-.0963	.0019	.3234	.3108	-.2708	-.1384	-.2112	
240.000		-.1393	-.0582	.2458	.2581	-.2229	-.1791	-.2610	-.2369
255.000		-.1387	-.1418	.1149	.2344	-.3246	-.1709	-.2173	-.2564
270.000	.0363	-.1662	-.1992	.0315	.1810	-.1068	-.1410	-.1473	
290.000	.0458	-.0559	-.2652	-.0560	.1358	-.1685	-.0985	-.1144	
320.000		.0000	.0000	.0000	.0000	-.3760	-.3214	-.3193	
360.000						-.3309	-.3252	-.3071	

ALPHA (4) = 3.924 BETA (1) = .000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0543	.0076	.1673	.3885				
195.000		-.0670	.0029	-.1728	.3246	-.1529	-.3185	-.2248	
210.000	-.0052	-.0736	-.0137	.1745	.3474	-.3365	-.3281	-.3337	
225.000		-.0927	-.0490	.1559	.2854	-.4134	-.3374	-.2673	
240.000		-.1312	-.1045	.0984	.1200	-.3968	-.3694	-.3009	-.2232
255.000		-.1736	-.1916	.0351	.0529	-.4841	-.2784	-.2320	-.2301
270.000	-.0076	-.2134	-.2520	-.0536	.0380	-.2776	-.2335	-.1883	
290.000	-.0086	-.0098	-.3291	-.1496	.0301	-.3404	-.2347	-.1743	
320.000		.0000	.0000	.0000	.0000	-.4816	-.2979	-.2705	
360.000						-.3627	-.3007	-.3094	

ALPHA (5) = 7.962 BETA (1) = .000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0830	-.0459	.1241	.3487				
195.000		-.0901	-.0514	.1259	.2896	-.1790	-.3294	-.2209	
210.000	-.0138	-.1124	-.0758	.1112	.3136	-.3581	-.3430	-.3264	
225.000		-.1383	-.1264	.0910	.2283	-.4073	-.3763	-.2633	
240.000		-.1801	-.1733	.0626	.0703	-.3454	-.4241	-.2705	-.2168
255.000		-.2107	-.2955	.0172	.0303	-.3956	-.4124	-.2318	-.2329
270.000	-.0247	-.2409	-.3682	-.0846	.0269	-.2187	-.3170	-.1926	
290.000	-.0243	.0007	-.4605	-.1774	.0361	-.2723	-.3115	-.1731	
320.000		.0000	.0000	.0000	.0000	-.4900	-.3017	-.2509	



DATE 01 MAY 75

TABLATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS

SRB-NOM MFS-OFF CRB BODY

(REUB43)

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CF

ALPHA (5) = 7.962	BETA (1) = .000	X/L	.510	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		360.000						-0.3576	-0.3057	-0.2948	

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ARC11-014IA19 OTS

SRB-NCM MPS-OFF CRB BODY

(REUS44) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -8.106 BETA (1) = .000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.2123	.3600	.5702	.7345				
195.000		.2068	.3609	.5746	.7190	.2481	.0216	-.3040	
210.000	-.1251	.1876	.3529	.5716	.6551	.0728	-.0040	-.1456	
225.000		.1971	.3338	.5438	.5543	-.0023	-.0347	-.0742	
240.000		.1964	.3043	.4450	.2845	-.0567	-.2237	-.2191	-.3354
255.000		.1928	.2785	.3940	.3066	-.1159	-.1512	-.1819	-.3331
270.000	-.0485	.1787	.2585	.3411	.3561	.0718	-.1261	-.1498	
290.000	-.0349	-.0085	.2218	.2926	.3356	.0256	-.0397	-.1822	
320.000		.0000	.0000	.0000	.0000	-.4962	-.4153	-.3637	
360.000						-.3874	-.3792	-.3544	

ALPHA (2) = -4.038 BETA (1) = .000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.2173	.3285	.5177	.6343				
195.000		.2189	.3268	.5195	.6324	.2072	-.0246	-.3121	
210.000	-.1062	.2155	.3201	.5167	.5254	.0370	-.0447	-.1858	
225.000		.2061	.3001	.4874	.4686	-.0182	-.0887	-.1023	
240.000		.1913	.2748	.4332	.2351	-.0197	-.2347	-.2284	-.3395
255.000		.1725	.2233	.3703	.3336	-.1229	-.1748	-.2221	-.3465
270.000	-.0575	.1439	.1899	.3097	.3193	.0474	-.1519	-.1914	
290.000	-.0549	.0306	.1386	.2448	.3142	.0036	-.0780	-.2247	
320.000		.0000	.0000	.0000	.0000	-.5018	-.4184	-.3523	
360.000						-.3899	-.3641	-.3473	

ALPHA (3) = -.363 BETA (1) = -4.003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.1093	.2287	.4350	.4741				
195.000		.1228	.2413	.4190	.4971	.0544	-.2227	-.3623	
210.000	.0437	.1367	.2439	.3944	.4915	-.1420	-.2604	-.3659	
225.000		.1448	.2328	.3787	.4064	-.1021	-.2619	-.2839	
240.000		.1454	.2072	.3178	.1138	-.1927	-.3934	-.3909	-.3889
255.000		.1292	.1713	.2905	.2194	-.2324	-.2781	-.3282	-.4051
270.000	.0826	.1017	.1333	.2237	.2426	-.0488	-.2411	-.2943	
290.000	.0769	.0606	.0783	.1572	.2360	-.0928	-.1848	-.3095	
320.000		.0000	.0000	.0000	.0000	-.5066	-.3817	-.3429	
360.000						-.4247	-.3592	-.3470	

SECTION (1) ORBITER BODY		DEPENDENT VARIABLE CP									
ARC11-014IA19 OTS		SRB-NOM MPS-OFF ORB BODY									
		(REUB44)									
ALPHA (3) = -0.363	BETA (2) = 0.012	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.2015	.2947	.4377	.5349				
		195.000		.1976	.2972	.4377	.5159	.1814	-.0522	-.3239	
		210.000	-.0577	.1889	.2928	.4236	.4755	.0355	-.0790	-.2233	
		225.000		.1763	.2678	.4167	.4643	-.0386	-.1212	-.1455	
		240.000		.1457	.1938	.3631	.3661	-.0454	-.2459	-.2478	-.3455
		255.000		.1200	.1161	.3020	.3255	-.1317	-.2211	-.2492	-.3637
		270.000	-.0184	.0900	.0593	.2422	.3097	.0356	-.1630	-.2169	
		290.000	.0150	.0687	.0022	.1673	.3043	-.0117	-.0828	-.2806	
		320.000		.0000	.0000	.0000	.1000	-.4977	-.4242	-.3579	
		360.000						-.3797	-.3438	-.3416	
ALPHA (3) = -0.393	BETA (3) = 4.022	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.1205	.2443	.4510	.4931				
		195.000		.1021	.2269	.4778	.5031	.3019	.0803	-.3213	
		210.000	-.1352	.0868	.1923	.5060	.4280	.0462	.0280	-.1179	
		225.000		.0629	.1131	.5039	.4601	-.0453	-.0508	-.0426	
		240.000		.0267	-.0066	.4454	.3728	.0251	-.1561	-.1498	-.2986
		255.000		.0705	-.0535	.3045	.3772	-.0609	-.1685	-.2062	-.1554
		270.000	.0132	.0596	-.0854	.1921	.3461	.0934	-.1143	-.1675	
		290.000	.0268	.0158	-.1404	.0926	.3136	.0562	-.0263	-.1833	
		320.000		.0000	.0000	.0000	.0000	-.4125	-.3709	-.3796	
		360.000						-.3697	-.3417	-.3329	
ALPHA (4) = 3.888	BETA (1) = .000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.1449	.1779	.4030	.5600				
		195.000		.1397	.1745	.4039	.5380	.0979	-.1437	-.3771	
		210.000	.1626	.1329	.1517	.3991	.4481	-.0853	-.1647	-.2908	
		225.000		.1115	.1004	.3700	.4124	-.1507	-.2042	-.2110	
		240.000		.0747	.0073	.3260	.2405	-.1030	-.3064	-.3061	-.3843
		255.000		.0566	-.0926	.2573	.2242	-.1756	-.2816	-.3005	-.4106
		270.000	.1618	.0285	-.1348	.1260	.2269	-.0142	-.2090	-.2649	
		290.000	.1492	.1047	-.1938	-.0192	.2344	-.0658	-.1369	-.3030	
		320.000		.0000	.0000	.0000	.0000	-.5295	-.5026	-.4105	
		360.000						-.4104	-.3831	-.3710	
ALPHA (5) = 7.977	BETA (1) = .000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.1273	.0579	.3491	.5469				
		195.000		.1213	.0514	.3395	.5575	.0553	-.2019	-.4088	
		210.000	.1560	.1017	.0263	.3005	.5810	-.1362	-.2354	-.3500	
		225.000		.0806	-.0057	.2670	.4473	-.1818	-.2620	-.2835	
		240.000		.0265	-.0708	.2250	.2082	-.1459	-.3547	-.3685	-.4180
		255.000		.0128	-.1504	.1342	.1713	-.2216	-.3321	-.3611	-.4449
		270.000	.1335	-.0119	-.1908	-.0556	.1480	-.0676	-.2499	-.3134	
		290.000	.1153	.1152	-.2466	-.2998	.1562	-.1281	-.1838	-.3465	
		320.000		.0000	.0000	.0000	.0000	-.5299	-.5494	-.4713	

ARC11-014IA19 OTS

SRB-NOM MPS-OFF CRB BODY

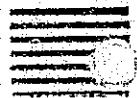
(RELB44)

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (5) = 7.977 BETA (1) = .000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
360.000						-.4222	-.4154	-.4074	



①

ARC11-014IA19 OTS

SRB-NOM MPS-OFF ORB BODY

(REUB45) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -8.244	BETA (1) = -.009	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI											
180.000											
195.000											
210.000											
225.000											
240.000											
255.000											
270.000											
290.000											
320.000											
360.000											
ALPHA (2) = -3.936 BETA (1) = -.009											
PHI											
180.000											
195.000											
210.000											
225.000											
240.000											
255.000											
270.000											
290.000											
320.000											
360.000											
ALPHA (3) = -.309 BETA (1) = -4.000											
PHI											
180.000											
195.000											
210.000											
225.000											
240.000											
255.000											
270.000											
290.000											
320.000											
360.000											

ARC11-014IA19 OTS

SRB-NOM MPS-OFF CRB BODY

(REUB45)

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (3) = -.360 BETA (2) = .009

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0123	.1031	.3379	.4251				
195.000		-.0117	.1093	.3200	.4254	.2608	.0249	-.2397	
210.000	-.1258	-.0087	.1200	.2774	.3524	.0932	-.0244	-.1478	
225.000		-.0011	.1056	.2758	.3535	.0598	-.0760	-.0946	
240.000		.0077	.0164	.2534	.2341	.0058	-.1917	-.2127	-.2539
255.000		.0254	-.0629	.1726	.1710	-.1038	-.1687	-.1754	-.2566
270.000	-.0548	.0112	-.1045	.0529	.1646	.0419	-.1003	-.1338	
290.000	-.0499	-.0007	-.1525	-.1371	.1946	-.0018	-.0350	-.1607	
320.000		.0000	.0000	.0000	.0000	-.3540	-.3285	-.3212	
360.000						-.2853	-.2558	-.2399	

ALPHA (3) = -.405 BETA (3) = 4.025

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0493	.0343	.3230	.3412				
195.000		-.0544	.0000	.3363	.3569	.4034	.1528	-.2336	
210.000	-.1418	-.0524	-.0253	.3463	.3262	.0513	.0675	-.0542	
225.000		-.0502	-.0571	.3501	.3272	-.0199	-.0247	.0025	
240.000		-.0803	-.0939	.2960	.2122	.0482	-.1522	-.1181	-.2146
255.000		.0052	-.1036	.0671	.1756	-.0442	-.1408	-.1578	-.2425
270.000	-.0444	.0093	-.1277	-.1276	.1249	.0634	-.0650	-.1145	
290.000	-.0343	-.0345	-.1672	-.2152	.1161	.0399	.0134	-.1232	
320.000		.0000	.0000	.0000	.0000	-.2784	-.3043	-.3853	
360.000						-.2913	-.2731	-.2626	

ALPHA (4) = 3.873 BETA (1) = .000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0059	.0910	.3157	.4302				
195.000		.0081	.1001	.2969	.3967	.1959	-.0296	-.2642	
210.000	-.1141	.0086	.0779	.2928	.2970	-.0092	-.0826	-.1941	
225.000		.0193	.0168	.3034	.2871	-.0867	-.1463	-.1247	
240.000		.0184	-.0428	.2724	.1513	-.0365	-.2403	-.2300	-.2704
255.000		.0280	-.1052	.1461	.1335	-.1105	-.2055	-.2236	-.2777
270.000	-.0899	.0049	-.1487	-.0594	.0877	-.0012	-.1285	-.1675	
290.000	-.0969	.0453	-.2046	-.2359	.1101	-.0338	-.0636	-.1830	
320.000		.0000	.0000	.0000	.0000	-.3630	-.3753	-.3748	
360.000						-.2844	-.2732	-.2578	

ALPHA (5) = 7.989 BETA (1) = .000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0493	.0787	.3137	.4818				
195.000		.0574	.0804	.3020	.4698	.1697	-.0626	-.2984	
210.000	-.0912	.0484	.0490	.2580	.3932	-.0261	-.1037	-.2072	
225.000		.0389	.0053	.2134	.3313	-.0560	-.1592	-.1659	
240.000		-.0047	-.0772	.2294	.1626	-.0171	-.2623	-.2475	-.3065
255.000		.0248	-.1381	.1245	.1273	-.1721	-.2129	-.2595	-.3101
270.000	-.1316	.0057	-.1793	-.1143	.0614	-.0274	-.1698	-.2042	
290.000	-.1318	.0923	-.2344	-.2745	.0393	-.0687	-.0966	-.2146	
320.000		.0000	.0000	.0000	.0000	-.3671	-.4094	-.4135	

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS

SRB-NOM MPS-OFF ORB BODY

(REUB45)

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (5) = 7.989 BETA (1) = .000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
361.000						-.2968	-.2849	-.2777	

ARC11-014IA19 QTS

SRB-NOM MPS-OFF CRB BCOY

(REUB46) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -8.175 BETA (1) = .003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		.0021	-.0184	.4146	.5220				
195.000		.0031	.0144	.4194	.5162	.4277	.1724	-.1804	
210.000	-.0709	-.0001	.0213	.4216	.4405	.1972	.1120	-.0054	
225.000		-.0033	.0245	.4186	.3982	.0918	.0424	.0334	
240.000		-.0034	.0308	.3153	.1490	.0821	-.1284	-.1414	-.1797
255.000		.0097	.0270	.2183	.1072	-.0130	-.0615	-.0562	-.1345
270.000	-.0118	.0310	.0048	.2204	.2056	.1237	.0046	-.0012	
290.000	.0058	-.0295	-.0345	.1476	.2409	.0808	.0939	-.0339	
320.000		.0000	.0000	.0000	.0000	-.3072	-.2929	-.3183	
360.000						-.2554	-.2628	-.2375	

ALPHA (2) = -4.002 BETA (1) = .003

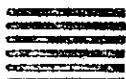
X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		-.0328	-.0069	.3552	.4474				
195.000		-.0315	.0041	.3646	.4458	.3646	.1317	-.1836	
210.000	-.1035	-.0291	.0120	.3640	.3743	.1406	.0677	-.0443	
225.000		-.0232	.0118	.3446	.3243	.0991	-.0047	-.0075	
240.000		-.0151	.0039	.2415	.1005	.0782	-.1534	-.1507	-.1931
255.000		.0034	-.0149	.2217	.1427	-.0005	-.0956	-.1017	-.1679
270.000	-.0488	.0194	-.0359	.1363	.1549	.0690	-.0542	-.0608	
290.000	-.0253	-.0144	-.0826	-.0265	.1922	.0241	.0063	-.0779	
320.000		.0000	.0000	.0000	.0000	-.2876	-.2714	-.2879	
360.000						-.2308	-.2048	-.2062	

ALPHA (3) = -.348 BETA (1) = -4.000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		-.0788	-.0063	.2590	.2523				
195.000		-.0690	.0136	.2495	.2838	.2009	.0048	-.1914	
210.000	-.2084	-.0488	.0280	.2517	.2791	.0710	-.0618	-.1649	
225.000		-.0303	.0286	.2336	.2255	.0093	-.0988	-.1259	
240.000		-.0185	.0143	.1728	.0194	-.0167	-.2370	-.2838	-.1937
255.000		-.0095	-.0286	.1766	.1125	-.1281	-.1477	-.1663	-.2153
270.000	-.0888	.0031	-.0597	.0774	.1417	.0247	-.1004	-.1316	
290.000	-.0741	.0265	-.1098	-.0734	.1744	-.0176	-.0740	-.1318	
320.000		.0000	.0000	.0000	.0000	-.2672	-.2274	-.2062	
360.000						-.2656	-.2337	-.1746	

SECTION (1) ORBITER BODY		ARC11-014IA19 OTS	SRB-NOM MPS-OFF ORB BODY							(REUB46)			
		DEPENDENT VARIABLE CP											
ALPHA (3) =	-.369	BETA (2) =	.016	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
				FHI									
				180.000		-.0248	.0244	.2918	.3748				
				195.000		-.0248	.0338	.2765	.3722	.3002	.0946	-.1810	
				210.000	-.1384	-.0235	.0507	.2297	.2902	.1241	.0260	-.0721	
				225.000		-.0247	.0456	.2295	.2774	.1133	-.0227	-.0423	
				240.000		-.0221	-.0058	.2319	.1959	.0705	-.1508	-.1870	-.2003
				255.000		.0047	-.0474	.1548	.1340	-.1133	-.1280	-.1387	-.1878
				270.000	-.0497	.0149	-.0659	.0178	.1121	.0336	-.0760	-.0996	
				290.000	-.0352	.0229	-.1254	-.1418	.0972	-.0096	-.0258	-.1065	
				320.000		.0000	.0000	.0000	.0000	-.2875	-.2904	-.3047	
				360.000						-.2179	-.2576	-.1843	
ALPHA (3) =	-.360	BETA (3) =	4.028	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
				FHI									
				180.000		-.0768	-.0157	.2595	.2518				
				195.000		-.0886	-.0378	.2867	.3079	.4203	.2080	-.1638	
				210.000	-.1152	-.0898	-.0447	.2916	.2654	.0196	.1089	.0074	
				225.000		-.0723	-.0630	.2862	.2718	.0318	-.0120	.0299	
				240.000		-.0520	-.0679	.1986	.1938	.1105	-.1234	-.1109	-.1592
				255.000		.0324	-.0424	-.0193	.1661	-.0413	-.1305	-.1285	-.1806
				270.000	-.0127	.0539	-.0617	-.0901	.1150	.0487	-.0464	-.0834	
				290.000	-.0111	-.0147	-.1111	-.1453	.0259	.0197	.0218	-.0751	
				320.000		.0000	.0000	.0000	.0000	-.2406	-.2773	-.3484	
				360.000						-.2777	-.2194	-.2003	
ALPHA (4) =	3.900	BETA (1) =	.006	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
				FHI									
				180.000		.0018	.1034	.2459	.3221				
				195.000		-.0002	.1315	.2230	.3166	.2053	.0457	-.1899	
				210.000	-.1426	-.0085	.1265	.2043	.2539	.0902	-.0108	-.1193	
				225.000		-.0217	.0471	.2346	.2588	-.0409	-.0906	-.0771	
				240.000		-.0902	-.0399	.2005	.1620	.0188	-.2031	-.2095	-.2095
				255.000		-.0215	-.0827	.0150	.1281	-.1338	-.1998	-.1882	-.2118
				270.000	-.0543	-.0106	-.1008	-.1326	.0621	-.0074	-.1086	-.1464	
				290.000	-.0585	.0650	-.1672	-.2020	.0118	-.0484	-.0464	-.1381	
				320.000		.0000	.0000	.0000	.0000	-.2806	-.3067	-.3136	
				360.000						-.2086	-.1955	-.1638	
ALPHA (5) =	7.653	BETA (1) =	.006	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
				FHI									
				180.000		.0044	.0652	.2900	.3963				
				195.000		-.0019	.0360	.2396	.3749	.2243	.0185	-.2067	
				210.000	-.1393	-.0090	.0245	.2291	.3029	.0017	-.0497	-.1349	
				225.000		-.0381	-.0175	.2106	.2455	-.0047	-.1210	-.1149	
				240.000		-.0982	-.0756	.1993	.1214	.0335	-.2099	-.2392	-.2426
				255.000		-.0511	-.1008	.0310	.0917	-.1669	-.2364	-.2245	-.2406
				270.000	-.0782	-.0349	-.1337	-.1806	.0092	-.0823	-.1637	-.1794	
				290.000	-.0790	.0967	-.1973	-.2465	-.0373	-.1140	-.0986	-.1774	
				320.000		.0000	.0000	.0000	.0000	-.2673	-.3167	-.3044	

ORIGINAL PAGE IS
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DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS

SRB-NCM MPS-OFF CRB BODY

(REUB46)

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (5) = 7.653	BETA (1) = .006	X/L	.570	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		360.0000						-.1926	-.1832	-.1772	

ARC11-0141A19 OTS

SRB-OFF MPS-OFF CRB BODY

(REUB47) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GTMBAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.050 BETA (1) = -.003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		-.0313	-.0061	.3565	.4515				
195.000		-.0304	.0006	.3640	.4488	.3682	.1287	-.2565	
210.000	-.1079	-.0276	.0070	.3634	.3759	.1410	.0658	-.0416	
225.000		-.0233	.0093	.3452	.3312	.0604	-.0036	-.0069	
240.000		-.0168	.0009	.2435	.1027	.0774	-.1523	-.1542	-.2234
255.000		.0006	-.0165	.2229	.1408	-.0668	-.0955	-.1045	-.1889
270.000	-.0488	-.0167	-.0360	.1358	.1573	.0649	-.0639	-.0691	
290.000	-.0267	-.0263	-.0833	-.0225	.1922	.0225	.0070	-.1373	
320.000		.0000	.0000	.0000	.0000	-.3917	-.3406	-.3854	
360.000						-.3260	-.2784	-.2545	

ALPHA (2) = -.150 BETA (1) = -4.000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		-.0792	-.0146	.2571	.2509				
195.000		-.0649	.0132	.2457	.2823	.1999	.0058	-.2715	
210.000	-.2116	-.0486	.0292	.2468	.2818	.0716	-.0623	-.1633	
225.000		-.0271	.0293	.2322	.2193	.0090	-.1010	-.1249	
240.000		-.0180	.0139	.1759	.0204	-.0150	-.2361	-.2848	-.2854
255.000		-.0097	-.0291	.1750	.1162	-.1271	-.1494	-.1894	-.2816
270.000	-.0901	.0058	-.0615	.0721	.1411	.0245	-.1051	-.1385	
290.000	-.0737	.0163	-.1107	-.0793	.1680	-.0187	-.0754	-.1714	
320.000		.0000	.0000	.0000	.0000	-.3069	-.2648	-.2463	
360.000						-.4207	-.2912	-.2113	

ALPHA (2) = -.129 BETA (2) = .009

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		-.0205	.0286	.2903	.3703				
195.000		-.0233	.0350	.2719	.3678	.2995	.0926	-.2525	
210.000	-.1408	-.0243	.0521	.2266	.2883	.1279	.0351	-.0735	
225.000		-.0227	.0503	.2269	.2783	.1133	-.0229	-.0447	
240.000		-.0211	-.0100	.2271	.1982	.0686	-.1532	-.1876	-.2337
255.000		.0056	-.0486	.1473	.1400	-.1151	-.1313	-.1423	-.2201
270.000	-.0487	.0161	-.0663	.0062	.1136	.0309	-.0819	-.1052	
290.000	-.0376	.0117	-.1268	-.1456	.0939	-.0100	-.0276	-.1439	
320.000		.0000	.0000	.0000	.0000	-.3267	-.3132	-.3447	
360.000						-.2624	-.2211	-.2170	

ARC11-014TA19 OTS

SRB-OFF MPS-OFF CRB BC0Y

(REUS47)

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.234 BETA (3) = 4.028

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		-.0802	-.0105	.2542	.2432				
195.000		-.0932	-.0375	.2824	.3044	.4200	.2066	-.2298	
210.000	-.1210	-.0972	-.0476	.2853	.2637	.0200	.1080	.0025	
225.000		-.0781	-.0699	.2801	.2651	.0322	-.0225	.0249	
240.000		-.0572	-.0782	.1926	.1916	.1076	-.1284	-.1166	-.1895
255.000		.0319	-.0474	-.0282	.1574	-.0468	-.1407	-.1364	-.2108
270.000	-.0159	.0512	-.0674	-.0954	.1130	.0429	-.0586	-.0933	
290.000	-.0094	-.0324	-.1182	-.1507	.0146	.0137	.0122	-.1278	
320.000		.0000	.0000	.0000	.0000	-.2790	-.3075	-.3732	
360.000						-.2787	-.3034	-.2383	

ALPHA (3) = 3.867 BETA (1) = .009

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		-.0033	.1187	.2451	.3203				
195.000		-.0056	.1290	.2185	.3178	.2019	.0419	-.2743	
210.000	-.1493	-.0122	.1272	.1994	.2558	.0520	-.0115	-.1228	
225.000		-.0264	.0515	.2180	.2565	-.0416	-.0942	-.0862	
240.000		-.0539	-.0389	.1989	.1573	.0143	-.2066	-.2159	-.2611
255.000		-.0244	-.0868	.0193	.1270	-.1403	-.2052	-.1949	-.2511
270.000	-.0538	-.0108	-.1039	-.1358	.0628	-.0082	-.1145	-.1552	
290.000	-.0660	.0518	-.1689	-.2053	.0077	-.0542	-.0514	-.1668	
320.000		.0000	.0000	.0000	.0000	-.3199	-.3241	-.3331	
360.000						-.2499	-.2036	-.2039	

ARC11-014IA19 OTS

SRB-NOM MPS-OFF CRB BODY

(REUB48) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 4771.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.143 BETA (1) = -.003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0028	-.0078	.3584	.4494				
195.000		-.0024	-.0011	.3639	.4483	.3680	.1288	-.1993	
210.000	-.1084	-.0290	.0066	.3662	.3742	.1410	.0653	-.0412	
225.000		-.0238	.0101	.3431	.3313	.0569	-.0049	-.0080	
240.000		-.0180	-.0002	.2450	.1030	.0759	-.1537	-.1537	-.2014
255.000		-.0023	-.0148	.2223	.1405	-.0680	-.0979	-.1065	-.1796
270.000	-.0802	.0151	-.0379	.1367	.1560	.0631	-.0647	-.0717	
290.000	-.0267	-.0243	-.0864	-.0241	.1926	.0219	.0079	-.1382	
320.000		.0000	.0000	.0000	.0000	-.2966	-.2623	-.2645	
360.000						-.2288	-.1993	-.2033	

ALPHA (2) = -.243 BETA (1) = -4.003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0760	-.0155	.2571	.2516				
195.000		-.0657	.0121	.2494	.2835	.2001	.0084	-.2046	
210.000	-.2118	-.0502	.0264	.2493	.2780	.0715	-.0625	-.1626	
225.000		-.0296	.0275	.2339	.2229	.0097	-.1011	-.1255	
240.000		-.0181	.0126	.1737	.0210	-.0175	-.2377	-.2840	-.2104
255.000		-.0120	-.0301	.1748	.1162	-.1275	-.1480	-.1708	-.2286
270.000	-.0890	.0029	-.0605	.0756	.1425	.137	-.1052	-.1378	
290.000	-.0750	.0170	-.1090	-.0784	.1756	-.0078	-.0748	-.1707	
320.000		.0000	.0000	.0000	.0000	-.2671	-.2126	-.1855	
360.000						-.2187	-.2081	-.1705	

ALPHA (2) = -.324 BETA (2) = .009

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0241	.0216	.2898	.3742				
195.000		-.0259	.0307	.2735	.3709	.2994	.0910	-.1969	
210.000	-.1438	-.0272	.0484	.2250	.2842	.1213	.0327	-.0728	
225.000		-.0254	.0445	.2211	.2738	.1122	-.0234	-.0447	
240.000		-.0248	-.0123	.2253	.1986	.0678	-.1547	-.1886	-.2116
255.000		.0034	-.0512	.1517	.1325	-.1152	-.1304	-.1332	-.2018
270.000	-.0546	.0131	-.0669	.0180	.1124	.0288	-.0826	-.0703	
290.000	-.0397	.0104	-.1263	-.1457	.0985	-.0102	-.0284	-.1455	
320.000		.0000	.0000	.0000	.0000	-.2967	-.2675	-.2706	
360.000						-.2144	-.1972	-.1782	

ARC11-014IA19 OTS

SRB-NCM MPS-OFF CRB BODY

(RELB48)

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.435 BETA (3) = 4.025

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0768	-.0136	.2588	.2467				
195.000		-.0928	-.0374	.2843	.3045	.4251	.2109	-.1738	
210.000	-.1175	-.0917	-.0454	.2867	.2675	.0205	.1103	.0163	
225.000		-.0755	-.0644	.2871	.2703	.0342	-.0146	.0335	
240.000		-.0532	-.0713	.1966	.1965	.1116	-.1236	-.1119	-.1659
255.000		.0346	-.0445	-.0246	.1682	-.0397	-.1336	-.1321	-.1893
270.000	-.0125	.0576	-.0655	-.0907	.1154	.0498	-.0532	-.0889	
290.000	-.0073	-.0230	-.1142	-.1467	.0222	.0179	.0202	-.1260	
320.000		.0000	.0000	.0000	.0000	-.2202	-.2633	-.3271	
360.000						-.2461	-.2196	-.1915	

ALPHA (3) = 4.032 BETA (1) = -.006

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0014	.1221	.2458	.3221				
195.000		-.0041	.1329	.2200	.3155	.2071	.0442	-.2087	
210.000	-.1460	-.0115	.1268	.2014	.2553	.0487	-.0097	-.1222	
225.000		-.0237	.0474	.2330	.2575	-.0410	-.0883	-.0803	
240.000		-.0540	-.0408	.2020	.1566	.0149	-.2056	-.2124	-.2278
255.000		-.0241	-.0829	.0148	.1239	-.1366	-.2052	-.1935	-.2238
270.000	-.0557	-.0138	-.1041	-.1376	.0801	-.0095	-.1159	-.1534	
290.000	-.0614	.0591	-.1711	-.2060	.0067	-.0536	-.0507	-.1665	
320.000		.0000	.0000	.0000	.0000	-.2850	-.2785	-.2722	
360.000						-.1977	-.1764	-.1565	

ARC11-014IA19 OTS

SRB-OFF MPS-OFF ORB BODY

(RELB49) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.041	BETA (1) = .000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		.0376	.1188	.3202	.5327				
		195.000		.0380	.1206	.3254	.4957	-.0864	-.2980	-.2336	
		210.000	.0229	.0342	.1099	.3295	.4442	-.2620	-.2976	-.4183	
		225.000		.0273	.0888	.2967	.3661	-.3308	-.3523	-.3678	
		240.000		.0132	.0462	.1995	.1774	-.3362	-.5414	-.5246	-.2452
		255.000		-.0051	-.0017	.1293	.1291	-.4658	-.4975	-.3401	-.2404
		270.000	.0463	-.0281	-.0349	.0653	.1052	-.2532	-.4431	-.3704	
		290.000	.0483	-.0480	-.0870	-.0783	.0871	-.3065	-.3795	-.2759	
		320.000		.0000	.0000	.0000	.0000	-.4429	-.3234	-.2870	
		360.000						-.3764	-.3149	-.3157	

ALPHA (2) = -1.98	BETA (1) = -4.003	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		-.0473	.0570	.2638	.3295				
		195.000		-.0382	.0558	.2483	.3479	-.2531	-.5187	-.2525	
		210.000	-.0173	-.0324	.0473	.2340	.3604	-.4494	-.5542	-.5137	
		225.000		-.0312	.0226	.1882	.2797	-.5291	-.5653	-.5520	
		240.000		-.0386	-.0166	.0929	.0605	-.5717	-.7234	-.7125	-.2209
		255.000		-.0541	-.0576	.0423	.0213	-.5750	-.6166	-.4465	-.2211
		270.000	.0111	-.0730	-.0904	-.0207	.0099	-.3518	-.5366	-.3789	
		290.000	.0121	-.0187	-.1463	-.0910	.0034	-.4103	-.4778	-.3464	
		320.000		.0000	.0000	.0000	.0000	-.4203	-.3155	-.2835	
		360.000						-.3753	-.3183	-.3036	

ALPHA (2) = -1.62	BETA (2) = .009	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		-.0074	.0717	.2797	.5065				
		195.000		-.0126	.0699	.2863	.4511	-.1402	-.3685	-.2205	
		210.000	.0129	-.0182	.0611	.2825	.4180	-.3118	-.3641	-.4061	
		225.000		-.0258	.0324	.2488	.3861	-.3645	-.4103	-.3835	
		240.000		-.0451	-.0106	.1705	.2435	-.3518	-.5483	-.4991	-.2132
		255.000		-.0847	-.0834	.1002	.1234	-.4580	-.5394	-.2318	-.2279
		270.000	.0256	-.1184	-.1302	.0260	.0952	-.2585	-.4667	-.2305	
		290.000	.0272	-.0323	-.1916	-.0507	.0753	-.3126	-.3910	-.2299	
		320.000		.0000	.0000	.0000	.0000	-.4576	-.3029	-.2511	
		360.000						-.3725	-.3025	-.2825	

ARC11-014IA19 OTS

SRB-OFF MPS-OFF CRB BODY

(REUB49)

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.285 BETA (3) = 4.022

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0375	.0006	.2719	.3523				
195.000		-.0565	.0557	.2970	.3421	.0385	-.1440	-.2309	
210.000	-.0257	-.0737	.0401	.3219	.2449	-.2161	-.1538	-.3065	
225.000		-.0965	-.0001	.3221	.2975	-.2831	-.1632	-.2227	
240.000		-.1375	-.0678	.2468	.2253	-.2403	-.2186	-.2934	-.2342
255.000		-.1405	-.1455	.1131	.2175	-.3548	-.2581	-.2582	-.2414
270.000	.0386	-.1679	-.1991	.0276	.1717	-.1636	-.2955	-.2079	
290.000	.0486	-.0617	-.2737	-.0585	.1257	-.2123	-.1990	-.2009	
320.000		.0000	.0000	.0000	.0000	-.3307	-.3042	-.2940	
360.000						-.3153	-.2970	-.2972	

ALPHA (3) = 3.828 BETA (1) = -.003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0459	.0083	.1641	.3843				
195.000		-.0561	.0047	.1735	.3238	-.1580	-.3508	-.2253	
210.000	.0039	-.0687	-.0151	.1723	.3356	-.3360	-.3948	-.3573	
225.000		-.0895	-.0521	.1577	.2736	-.4181	-.4555	-.3427	
240.000		-.1269	-.1039	.1040	.1149	-.3952	-.5893	-.3093	-.2159
255.000		-.1663	-.1948	.0399	.0535	-.4834	-.5658	-.2257	-.2305
270.000	-.0053	-.2043	-.2615	-.0484	.0418	-.2886	-.4611	-.2311	
290.000	-.0061	-.0171	-.3402	-.1338	.0350	-.3458	-.4201	-.2359	
320.000		.0000	.0000	.0000	.0000	-.4483	-.3092	-.2629	
360.000						-.3613	-.3024	-.2910	

ARC11-014IA19 OTS

SRB-OFF MPS-OFF CRB BODY

(REUB50) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.017	BETA (1) = .003	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		.2023	.3212	.5007	.6022				
		195.000		.1973	.3197	.5041	.6027	.2072	-.0291	-.3517	
		210.000	-.0988	.1907	.3124	.5041	.5160	.0314	-.0485	-.1924	
		225.000		.1883	.2921	.4723	.4646	-.0220	-.0942	-.1069	
		240.000		.1751	.2704	.4139	.2103	-.0239	-.2422	-.2360	-.3687
		255.000		.1491	.2179	.3625	.3167	-.1292	-.1829	-.2440	-.4080
		270.000	-.0721	.1196	.1828	.3000	.3061	.0355	-.1958	-.2270	
		290.000	-.0651	-.0131	.1357	.2366	.3007	-.0071	-.0903	-.3585	
		320.000		.0000	.0000	.0000	.0000	-.5107	-.4241	-.3740	
		360.000						-.4028	-.3782	-.3650	
ALPHA (2) = -.162	BETA (1) = -4.000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		.1121	.2395	.4320	.4476				
		195.000		.1259	.2480	.4139	.4806	.0584	-.2212	-.3951	
		210.000	.0353	.1379	.2497	.3902	.4690	-.1385	-.2547	-.3576	
		225.000		.1480	.2376	.3753	.3972	-.1798	-.2591	-.2774	
		240.000		.1481	.2119	.3139	.1190	-.1885	-.3876	-.3839	-.4219
		255.000		.1324	.1744	.2891	.2235	-.2285	-.2748	-.3338	-.4492
		270.000	.0775	.1048	.1339	.2224	.2427	-.0464	-.2598	-.3135	
		290.000	.0672	.0489	.0800	.1580	.2392	-.0898	-.1838	-.4159	
		320.000		.0000	.0000	.0000	.0000	-.4961	-.3758	-.3406	
		360.000						-.4271	-.3547	-.3457	
ALPHA (2) = -.141	BETA (2) = .012	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		.1843	.2961	.4342	.5359				
		195.000		.1766	.3012	.4344	.5068	.2012	-.0379	-.3450	
		210.000	-.0895	.1695	.3029	.4227	.4643	.0509	-.0655	-.2099	
		225.000		.1627	.2812	.4175	.4497	-.0130	-.1084	-.1319	
		240.000		.1318	.2072	.3654	.3679	-.0225	-.2327	-.2335	-.3506
		255.000		.1069	.1260	.3091	.3153	-.1160	-.2073	-.2459	-.3919
		270.000	-.0817	.0803	.0658	.2472	.2977	.0441	-.1771	-.2303	
		290.000	-.0713	.0281	.0011	.1772	.2942	-.0012	-.0746	-.3578	
		320.000		.0000	.0000	.0000	.0000	-.4810	-.4160	-.3517	
		360.000						-.3665	-.3367	-.3316	

ARC11-014IA19 OTS

SRB-OFF MPS-OFF ORB BODY

(REUS91)

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -0.234	BETA (3) = 4.025	X/L	.570	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		.1101	.2435	.4348	.4638		.0767	-.3555	
		195.000		.0914	.2277	.4626	.4749	.2983		-.1271	
		210.000	-.0981	.0740	.1919	.4863	.4113	.0384	.0191		
		225.000		.0492	.1130	.4829	.4398	-.0533	-.0624	-.0485	
		240.000		.0139	-.0156	.4263	.3308	.0197	-.1638	-.1572	-.3385
		255.000		.0595	-.0640	.2914	.3519	-.0669	-.1796	-.2264	-.3982
		270.000	.0370	.0482	-.0958	.1707	.3277	.0823	-.1509	-.2124	
		290.000	.0388	-.0084	-.1519	.0695	.3021	.0491	-.0384	-.3976	
		320.000		.0000	.0000	.0000	.0000	-.4239	-.3921	-.4065	
		360.000						-.3928	-.3606	-.3555	
ALPHA (3) = 3.879	BETA (1) = .000	X/L	.570	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		.1711	.2030	.4020	.5480				
		195.000		.1660	.1928	.4051	.5019	.1131	-.1255	-.3958	
		210.000	.1172	.1540	.1703	.4007	.4298	-.0756	-.1487	-.2755	
		225.000		.1331	.1184	.3813	.4141	-.1445	-.1915	-.1973	
		240.000		.0900	.0261	.3338	.2300	-.0901	-.2943	-.2918	-.3871
		255.000		.0729	-.0779	.2817	.2332	-.1642	-.2713	-.2925	-.4346
		270.000	.0905	.0444		.1306	.2286	-.0741	-.2095	-.2699	
		290.000	.0778	.0849		-.0049	.2388	-.0532	-.1294	-.3893	
		320.000		.0000	.0000	.0000	.0000	-.5114	-.4806	-.4208	
		360.000						-.3974	-.3748	-.3638	

ARC11-014IA19 OTS

SRB-OFF MPS-OFF CRB BODY

(REUB51) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XY
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.290
 GIMBAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.000 BETA (1) = .000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0169	.0746	.4289	.5139				
195.000		-.0198	.0731	.4369	.5137	.3204	.0670	-.2952	
210.000	-.1241	-.0169	.0663	.4336	.4179	.1048	.0222	-.0994	
225.000		-.0020	.0603	.4017	.3737	.0184	-.0380	-.0410	
240.000		.0199	.0452	.3129	.1006	.0264	-.1742	-.1753	-.2619
255.000		.0389	-.0136	.2913	.1940	-.0824	-.1181	-.1387	-.2790
270.000	-.0448	.0324	-.0430	.2195	.2243	.0740	-.1055	-.1110	
290.000	-.0333	-.0336	-.0756	.1429	.2336	.0219	-.0253	-.2157	
320.000		.0000	.0000	.0000	.0000	-.3976	-.3480	-.3439	
360.000						-.3174	-.2885	-.2658	

ALPHA (2) = -.133 BETA (1) = -4.000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0385	.0763	.3153	.3070				
195.000		-.0332	.1070	.2933	.3400	.1664	-.0810	-.3199	
210.000	-.1664	-.0213	.1146	.2853	.2991	.0017	-.1409	-.2537	
225.000		-.0021	.0986	.2678	.2797	-.0588	-.1726	-.1935	
240.000		.0122	.0631	.2108	.0179	-.0862	-.2976	-.3271	-.3338
255.000		.0235	-.0110	.2140	.1369	-.1617	-.1945	-.2326	-.3400
270.000	-.0695	.0167	-.0690	.1114	.1896	.0033	-.1624	-.2022	
290.000	-.0667	-.0019	-.1239	.0193	.2098	-.0373	-.1160	-.2653	
320.000		.0000	.0000	.0000	.0000	-.3821	-.2942	-.2639	
360.000						-.2822	-.2610	-.2667	

ALPHA (2) = -.225 BETA (2) = .009

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0113	.1180	.3307	.4160				
195.000		-.0114	.1226	.3181	.4144	.2576	.0237	-.2988	
210.000	-.1207	-.0092	.1329	.2788	.3519	.1020	-.0251	-.1430	
225.000		-.0030	.1161	.2750	.3553	.0564	-.0749	-.0912	
240.000		.0084	.0247	.2514	.2235	.0002	-.1929	-.2087	-.2840
255.000		.0258	-.0557	.1702	.1650	-.1021	-.1702	-.1815	-.2911
270.000	-.0558	.0121	-.1004	.0531	.1599	.0400	-.1124	-.1439	
290.000	-.0512	-.0159	-.1484	-.1269	.1923	-.0024	-.0366	-.2321	
320.000		.0000	.0000	.0000	.0000	-.3927	-.3558	-.3554	
360.000						-.3100	-.2810	-.2715	

ORIGINAL PAGE IS
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ARC11-014IA19 OTS

SRB-OFF MPS-OFF CRB BODY

(REUB51)

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.252	BETA (3) = 4.022	Y/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		-.0422	.0578	.3192	.3267				
		195.000		-.0448	.0094	.3320	.3530	.4072	.1532	-.2791	
		210.000	-.1385	-.0433	-.0199	.3411	.3136	.0468	.0668	-.0489	
		225.000		-.0480	-.0545	.3384	.3136	-.0116	-.0256	.0070	
		240.000		-.0626	-.0916	.2878	.1935	.0618	-.1607	-.1153	-.2350
		255.000		.0110	-.1030	.0985	.1741	-.0387	-.1375	-.1676	-.2733
		270.000	-.0419	.0171	-.1271	-.1179	.1217	.0531	-.0741	-.1256	
		290.000	-.0341	-.0507	-.1624	-.2084	.1210	.0453	.0082	-.2150	
		320.000		.0000	.0000	.0000	.0000	-.3214	-.3136	-.3912	
		360.000						-.3234	-.2954	-.2918	
ALPHA (3) = 3.864	BETA (1) = .000	Y/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.0053	.1053	.3050	.4186				
		195.000		.0054	.1007	.2884	.3851	.1943	-.0289	-.3385	
		210.000	-.1116	.0043	.0811	.2878	.2898	-.0113	-.0783	-.1958	
		225.000		.0132	.0186	.2925	.2815	-.0889	-.1429	-.1230	
		240.000		.0162	-.0424	.2588	.1332	-.0370	-.2451	-.2272	-.3073
		255.000		.0282	-.1058	.1494	.1212	-.1143	-.2054	-.2245	-.3120
		270.000	-.0895	.0076	-.1508	-.0510	.0792	-.0043	-.1391	-.1757	
		290.000	-.0990	.0270	-.2028	-.2302	.1108	-.0367	-.0670	-.2493	
		320.000		.0000	.0000	.0000	.0000	-.3991	-.3889	-.4023	
		360.000						-.3165	-.2959	-.2891	

ARC11-014TA19 OTS

SRB-OFF MPS-OFF CRB BODY

(REUB52) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -3.990	BETA (1) = .000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002				
		PHI													
		180.000		-.0318	-.0029	.3481	.4360								
		195.000		-.0269	.0019	.3554	.4349	.3708	.1344	-.2513					
		210.000	-.1060	-.0235	.0099	.3595	.3732	.1432	.0699	-.0372					
		225.000		-.0204	.0124	.3379	.3230	.0612	-.0016	-.0036					
		240.000		-.0154	.0032	.2594	.1003	.0004	-.1503	-.1503	-.2100				
		255.000		.0041	-.0129	.2221	.1371	-.0659	-.0954	-.1021	-.1871				
		270.000	-.0481	.0190	-.0342	.1421	.1557	.0656	-.0611	-.0678					
		290.000	-.0240	-.0276	-.0822	-.0122	.1931	.0251	.0072	-.1359					
		320.000		.0000	.0000	.0000	.0000	-.3383	-.3297	-.3812					
		360.000						-.2817	-.2417	-.2676					
		ALPHA (2) = -1.95	BETA (1) = -4.003	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002		
				PHI											
				180.000		-.0774	.0003	.2523	.2224						
				195.000		-.0661	.0321	.2408	.2663	.1816	.0017	-.2780			
				210.000	-.2129	-.0523	.0394	.2401	.2528	.0664	-.0658	-.1650			
				225.000		-.0230	.0377	.2241	.2202	.0049	-.1033	-.1292			
				240.000		-.0198	.0165	.1687	.0142	-.0203	-.2382	-.2877	-.2850		
				255.000		-.0138	-.0306	.1695	.1081	-.1321	-.1509	-.1725	-.2631		
				270.000	-.0910	.0004	-.0621	.0692	.1351	.0200	-.1083	-.1409			
				290.000	-.0770	.0109	-.1123	-.0760	.1655	-.0217	-.0783	-.1751			
				320.000		.0000	.0000	.0000	.0000	-.3036	-.2663	-.2482			
				360.000						-.4115	-.2948	-.2225			
				ALPHA (2) = -1.98	BETA (2) = .009	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
						PHI									
						180.000		-.0222	.0327	.2853	.3626				
						195.000		-.0240	.0378	.2706	.3605	.2975	.0922	-.2521	
						210.000	-.1410	-.0248	.0540	.2271	.2857	.1291	.0362	-.0747	
						225.000		-.0231	.0497	.2249	.2775	.1086	-.0252	-.0444	
						240.000		-.0205	-.0087	.2204	.1845	.0655	-.1538	-.1865	-.2326
						255.000		.0036	-.0510	.1481	.1299	-.1161	-.1323	-.1426	-.2183
						270.000	-.0527	.0150	-.0679	.0153	.1071	.0283	-.0832	-.1074	
						290.000	-.0397	.0071	-.1288	-.1435	.0927	-.0112	-.0279	-.1458	
						320.000		.0000	.0000	.0000	.0000	-.3260	-.3137	-.3423	
						360.000						-.2613	-.2268	-.2170	

ARC11-014IA19 OTS

SRB-OFF MPS-OFF CRB BODY

(REUS2)

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.186	BETA (3) = 4.022	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		-.0805	-.0052	.2502	.2456				
		195.000		-.0938	-.0403	.2713	.2977	.4257	.2119	-.2238	
		210.000	-.1184	-.0951	-.0481	.2796	.2629	.0295	.1136	-.0013	
		225.000		-.0767	-.0681	.2743	.2636	.0337	-.0168	.0287	
		240.000		-.0568	-.0792	.2198	.1907	.1064	-.1274	-.1149	-.1903
		255.000		.0302	-.0487	-.0405	.1589	-.0458	-.1407	-.1343	-.2081
		270.000	-.0139	.0549	-.0692	-.0956	.1140	.0903	-.0532	-.0936	
		290.000	-.0105	-.0346	-.1179	-.1494	.0044	.0143	.0161	-.1265	
		320.000		.0000	.0000	.0000	.0000	-.2712	-.3029	-.3716	
		360.000						-.2827	-.2953	-.2369	
ALPHA (3) = 3.961	BETA (1) = .000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		-.0004	.1215	.2421	.3162				
		195.000		-.0053	.1293	.2202	.3120	.2054	.0452	-.2694	
		210.000	-.1422	-.0099	.1254	.2033	.2508	.0440	-.0113	-.1219	
		225.000		-.0270	.0480	.2305	.2557	-.0424	-.0894	-.0791	
		240.000		-.0530	-.0403	.2022	.1532	.0162	-.2030	-.2107	-.2516
		255.000		-.0239	-.0835	.0347	.1214	-.1382	-.2015	-.1902	-.2466
		270.000	-.0522	-.0125	-.1014	-.1352	.0624	-.0059	-.1127	-.1483	
		290.000	-.0592	.0517	-.1688	-.2031	.0097	-.0540	-.0483	-.1658	
		320.000		.0000	.0000	.0000	.0000	-.3145	-.3223	-.3351	
		360.000						-.2477	-.2244	-.2018	

ARC11-014IA19 OTS

SRB-NOM MPS-OFF CRB BODY

(REUB53) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.179	BETA (1) = -.003	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.0373	.1103	.3125	.5258				
		195.000		.0308	.1099	.3209	.4909	-.0908	-.3111	-.2632	
		210.000	-.0202	.0251	.1042	.3219	.4563	-.2693	-.3191	-.4402	
		225.000		.0210	.0781	.2890	.3616	-.3390	-.3757	-.3798	
		240.000		.0076	.0361	.1914	.1659	-.3467	-.5595	-.5475	-.2530
		255.000		-.0123	-.0139	.1229	.1209	-.4778	-.5163	-.3903	-.2434
		270.000	.0442	-.0356	-.0450	.0558	.1004	-.2615	-.4790	-.3354	
		290.000	.0478	-.0802	-.0985	-.0164	.0809	-.3171	-.3973	-.2995	
		320.000		.0000	.0000	.0000	.0000	-.4588	-.3388	-.3127	
		360.000						-.3962	-.3372	-.3437	
ALPHA (2) = -3.339	BETA (1) = -3.997	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		-.0495	.0489	.2581	.3270				
		195.000		-.0420	.0511	.2449	.3443	-.2575	-.5276	-.2623	
		210.000	-.0219	-.0377	.0410	.2300	.3532	-.4508	-.5596	-.5193	
		225.000		-.0347	.0166	.1836	.2764	-.5330	-.5729	-.5547	
		240.000		-.0391	-.0211	.0902	.0545	-.5795	-.7279	-.7165	-.2327
		255.000		-.0578	-.0610	.0399	.0176	-.5791	-.6233	-.4874	-.2275
		270.000	.0077	-.0754	-.0900	-.0225	.0043	-.3589	-.5439	-.3949	
		290.000	.0077	-.0235	-.1467	-.0952	-.0006	-.4169	-.4865	-.3560	
		320.000		.0000	.0000	.0000	.0000	-.4385	-.3281	-.3007	
		360.000						-.3896	-.3296	-.3219	
ALPHA (2) = -3.360	BETA (2) = .012	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		-.0063	.0761	.2788	.5043				
		195.000		-.0079	.0737	.2858	.4449	-.1437	-.3602	-.2315	
		210.000	.0087	-.0162	.0668	.2860	.4130	-.3095	-.3549	-.4083	
		225.000		-.0250	.0381	.2484	.3721	-.3618	-.4051	-.3926	
		240.000		-.0429	-.0079	.1703	.2431	-.3544	-.5469	-.5344	-.2234
		255.000		-.0787	-.0762	.0973	.1238	-.4625	-.5424	-.2579	-.2358
		270.000	.0228	-.1165	-.1199	.0220	.0916	-.2598	-.4582	-.2651	
		290.000	.0248	-.0334	-.1870	-.0538	.0753	-.3141	-.3968	-.2499	
		320.000		.0000	.0000	.0000	.0000	-.4486	-.3042	-.2729	
		360.000						-.3612	-.3001	-.3056	

		ARC11-014IA19 OTS	SRB-NCM HPS-OFF CRB BODY									(REUB53)
SECTION (1) ORBITER BODY		DEPENDENT VARIABLE CP										
ALPHA (2) = -.411 BETA (3) = 4.022		X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002	
		FHI										
	180.000			-.0418	.0597	.2672	.3531					
	195.000			-.0559	.0529	.2952	.3479	.0275	-.1464	-.2370		
	210.000	-.0203		-.0722	.0336	.3219	.2483	-.2229	-.1625	-.3191		
	225.000			-.1002	-.0005	.3213	.2891	-.2765	-.1726	-.2291		
	240.000			-.1412	-.0670	.2406	.2325	-.2473	-.2193	-.3046	-.2405	
	255.000			-.1337	-.1440	.1100	.2120	-.3640	-.2897	-.2700	-.2538	
	270.000	.0360		-.1677	-.1912	.0227	.1668	-.1662	-.3160	-.2156		
	290.000	.0426		-.0698	-.2678	-.0620	.1253	-.2191	-.2422	-.2090		
	320.000			.0000	.0000	.0000	.0000	-.3402	-.3223	-.3136		
	360.000							-.3350	-.3062	-.3126		
ALPHA (3) = 3.936 BETA (1) = -.006		X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002	
		FHI										
	180.000			-.0672	.0076	.1648	.3827					
	195.000			-.0698	.0057	.1732	.3278	-.1909	-.3426	-.2251		
	210.000	-.0035		-.0835	-.0138	.1730	.4415	-.3609	-.3782	-.3317		
	225.000			-.1011	-.0467	.1584	.3272	-.4183	-.4509	-.2564		
	240.000			-.1355	-.0991	.1031	.1514	-.4009	-.5865	-.2857	-.2209	
	255.000			-.1704	-.1947	.0426	.0594	-.4891	-.5527	-.2316	-.2378	
	270.000	-.0017		-.2076	-.2564	-.0459	.0459	-.2907	-.4382	-.2166		
	290.000	-.0027		-.0144	-.3290	-.1370	.0405	-.3901	-.4131	-.2201		
	320.000			.0000	.0000	.0000	.0000	-.4487	-.2970	-.2496		
	360.000							-.3553	-.2994	-.2799		

ARC11-014IA19 OTS

SRB-NOM MPS-OFF CRB BODY

(REUB54) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 490.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

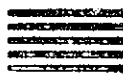
ELV-1B = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.149	BETA (1) = .000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.2091	.3114	.5018	.6040				
		195.000		.2064	.2200	.5039	.6007	.2003	-.0334	-.3323	
		210.000	-.0880	.1983	.3097	.5022	.5264	.0250	-.0535	-.1960	
		225.000		.1932	.2917	.4717	.4679	-.0287	-.0988	-.1138	
		240.000		.1589	.2664	.4096	.2265	-.0353	-.2467	-.2414	-.3656
		255.000		.1449	.2153	.3602	.3204	-.1348	-.1895	-.2488	-.3973
		270.000	-.0546	.1222	.1793	.2978	.3085	.0313	-.1965	-.2316	
		290.000	-.0565	-.0214	.1356	.2346	.3022	-.0137	-.0954	-.3634	
		320.000		.0000	.0000	.0000	.0000	-.4926	-.4070	-.3380	
		360.000						-.3799	-.3543	-.3418	
ALPHA (2) = -.315	BETA (1) = -4.003	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.1131	.2410	.4364	.4589				
		195.000		.1278	.2575	.4179	.4881	.0610	-.2186	-.3630	
		210.000	.0304	.1420	.2519	.3969	.4727	-.1367	-.2538	-.3581	
		225.000		.1490	.2398	.3804	.4013	-.1762	-.2565	-.2769	
		240.000		.1496	.2143	.3179	.1152	-.1863	-.3855	-.3843	-.3955
		255.000		.1324	.1786	.2947	.2245	-.2263	-.2742	-.3319	-.4191
		270.000	.0713	.1071	.1390	.2273	.2451	-.0461	-.2580	-.3127	
		290.000	.0672	.0465	.0854	.1624	.2400	-.0888	-.1835	-.4136	
		320.000		.0000	.0000	.0000	.0000	-.4718	-.3438	-.3147	
		360.000						-.3855	-.3361	-.3232	
ALPHA (2) = -.327	BETA (2) = .006	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		.1893	.2925	.4341	.5218				
		195.000		.1821	.2951	.4338	.5078	.1919	-.0442	-.3265	
		210.000	-.0881	.1782	.2979	.4185	.4698	.0449	-.0703	-.2157	
		225.000		.1664	.2791	.4171	.4519	-.0126	-.1130	-.1384	
		240.000		.1336	.2070	.3640	.3630	-.0257	-.2372	-.2387	-.3439
		255.000		.1066	.1227	.3023	.3123	-.1203	-.2125	-.2511	-.3780
		270.000	-.0759	.0770	.0725	.2434	.2993	.0393	-.1815	-.2346	
		290.000	-.0675	.0193	.0129	.1718	.2934	-.0051	-.0781	-.3630	
		320.000		.0000	.0000	.0000	.0000	-.4644	-.3874	-.3248	
		360.000						-.3507	-.3188	-.3126	

ORIGINAL PAGE IS OF POOR QUALITY



ARC11-014IA19 OTS

SRB-NOM MPS-OFF CRB BODY

(REUB54)

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.288	BETA (3) = 4.016	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		.1126	.2454	.4345	.4694				
		195.000		.0949	.2295	.4636	.4802	.3038	.0793	-.3291	
		210.000	-.1406	.0781	.1879	.4890	.4191	.0445	.0258	-.1217	
		225.000		.0544	.1167	.4907	.4369	-.0477	-.0552	-.0433	
		240.000		.0207	-.0125	.4272	.3416	.0209	-.1625	-.1526	-.3240
		255.000		.0636	-.0603	.2958	.3561	-.0647	-.1757	-.2210	-.3789
		270.000	.0161	.0531	-.0903	.1765	.3309	.0861	-.1482	-.2076	
		290.000	.0272	-.0077	-.1432	.0873	.3046	.0523	-.0362	-.3437	
		320.000		.0000	.0000	.0000	.0000	-.3973	-.3548	-.3672	
		360.000						-.3605	-.3264	-.3217	
ALPHA (3) = 3.915	BETA (1) = -.003	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		.1759	.2066	.4057	.5592				
		195.000		.1712	.1998	.4050	.5259	.1151	-.1233	-.3683	
		210.000	.0908	.1595	.1709	.4044	.4386	-.0739	-.1455	-.2719	
		225.000		.1362	.1218	.3792	.4159	-.1431	-.1873	-.1910	
		240.000		.0946	.0277	.3368	.2325	-.0891	-.2094	-.2881	-.3738
		255.000		.0748	-.0754	.2657	.2332	-.1589	-.2675	-.2887	-.4145
		270.000	.0848	.0475	-.1143	.1373	.2364	-.0015	-.2072	-.2640	
		290.000	.0169	.0872	-.1755	-.0091	.2424	-.0511	-.1257	-.3833	
		320.000		.0000	.0000	.0000	.0000	-.4843	-.4403	-.3744	
		360.000						-.3741	-.3527	-.3444	

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS

SRB-NOM MPS-OFF CRB BODY

(REUB55) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0250

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -3.981	BETA (1) = .000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		-.0239	.0576	.4178	.5038				
		195.000		-.0250	.0544	.4243	.4955	.3124	.0574	-.2590	
		210.000	-.1236	-.0231	.0525	.4211	.4172	.0979	.0123	-.1093	
		225.000		-.0087	.0471	.3919	.3756	.0115	-.0470	-.0505	
		240.000		.0113	.0328	.3006	.1024	.0169	-.1838	-.1846	-.2465
		255.000		.0285	-.0234	.2812	.1866	-.0906	-.1287	-.1465	-.2677
		270.000	-.0908	.0204	-.0591	.2093	.2189	.0656	-.1140	-.1200	
		290.000	-.0371	-.0442	-.0897	.1378	.2265	.0141	-.0341	-.2237	
		320.000		.0000	.0000	.0000	.0000	-.3741	-.3127	-.2913	
		360.000						-.2903	-.2645	-.2459	
ALPHA (2) = -3.69	BETA (1) = -4.000	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		-.0389	.0740	.3177	.3033				
		195.000		-.0355	.1074	.2936	.3383	.1666	-.0816	-.2734	
		210.000	-.1708	-.0241	.1145	.2853	.2972	-.0019	-.1436	-.2581	
		225.000		-.0049	.0986	.2665	.2736	-.0605	-.1741	-.1960	
		240.000		.0096	.0620	.2067	.0128	-.0909	-.3012	-.3284	-.2830
		255.000		.0213	-.0110	.2125	.1368	-.1629	-.1956	-.2338	-.3054
		270.000	-.0736	.0162	-.0674	.1107	.1888	.0035	-.1630	-.2042	
		290.000	-.0650	-.0062	-.1226	.0212	.2111	-.0388	-.1151	-.2677	
		320.000		.0000	.0000	.0000	.0000	-.3499	-.2605	-.2307	
		360.000						-.3068	-.2534	-.2328	
ALPHA (2) = -3.09	BETA (2) = .012	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		-.0115	.1077	.3326	.4156				
		195.000		-.0114	.1078	.3197	.4191	.2563	.0189	-.2519	
		210.000	-.1220	-.0112	.1235	.2771	.3448	.0867	-.0265	-.1437	
		225.000		-.0045	.1067	.2716	.3484	.0542	-.0786	-.0926	
		240.000		.0076	.0199	.2478	.2219	.0006	-.1933	-.2127	-.2627
		255.000		.0255	-.0607	.1744	.1637	-.1045	-.1703	-.1811	-.2725
		270.000	-.0566	.0099	-.1015	.0504	.1624	.0378	-.1149	-.1459	
		290.000	-.0489	-.0163	-.1446	-.1219	.1936	-.0034	-.0389	-.2337	
		320.000		.0000	.0000	.0000	.0000	-.3660	-.3113	-.2871	
		360.000						-.2742	-.2458	-.2385	

ORIGINAL PAGE IS
 OF POOR QUALITY

ARC11-014IA19 OTS SRB-NCM MR. -OFF CRB BODY

(REU355)

SECTION (1) CRBITER BODY

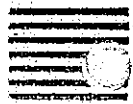
DEPENDENT VARIABLE CP

ALPHA (2) = -.300 BETA (3) = 4.022

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		-.0468	.0504	.3115	.3226				
195.000		-.0524	.0033	.3265	.3524	.4018	.1521	-.2481	
210.000	-.1442	-.0578	-.0263	.3356	.3167	.0493	.0670	-.0559	
225.000		-.0575	-.0619	.3326	.3128	-.0124	-.0324	-.0723	
240.000		-.0646	-.0997	.2797	.1865	.0627	-.1642	-.1241	-.2237
255.000		.0066	-.1122	.0991	.1750	-.0389	-.1423	-.1663	-.2616
270.000	-.0470	.0139	-.1353	-.1205	.1226	.0649	-.0832	-.1312	
290.000	-.0358	-.0521	-.1750	-.2163	.1253	.0445	-.0017	-.2246	
320.000		.0000	.0000	.0000	.0000	-.2980	-.2875	-.3466	
360.000						-.2776	-.2636	-.2571	

ALPHA (3) = 3.966 BETA (1) = .003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		.0030	.1011	.3042	.4168				
195.000		.0064	.0975	.2886	.3827	.1877	-.0320	-.2867	
210.000	-.1135	.0059	.0709	.2872	.2855	-.0139	-.0824	-.1996	
225.000		.0113	.0155	.2531	.2796	-.0897	-.1474	-.1251	
240.000		.0152	-.0493	.2568	.1369	-.0386	-.2444	-.2322	-.2889
255.000		.0274	-.1117	.1516	.1189	-.1146	-.2085	-.2301	-.2979
270.000	-.0961	.0033	-.1540	-.0527	.0769	-.0757	-.1452	-.1814	
290.000	-.1044	.0298	-.2079	-.2368	.1045	-.0391	-.0706	-.2543	
320.000		.0000	.0000	.0000	.0000	-.3740	-.3521	-.3365	
360.000						-.2775	-.2638	-.2514	



ARC11-014IA19 OTS

SRB-NOM WPS-OFF CRB BODY

(REUB56) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.071 BETA (1) = .000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		-.0309	-.0045	.3459	.4372				
195.000		-.0283	.0010	.3536	.4336	.3677	.1320	-.2005	
210.000	-.1064	-.0231	.0083	.3588	.3695	.1400	.0676	-.0435	
225.000		-.0231	.0109	.3352	.3240	.0571	-.0036	-.0074	
240.000		-.0184	.0026	.2349	.0990	.0773	-.1518	-.1543	-.1990
255.000		.0006	-.0159	.2216	.1384	-.0667	-.0958	-.1050	-.1803
270.000	-.0497	.0159	-.0373	.1367	.1548	.0650	-.0639	-.0708	
290.000	-.0269	-.0271	-.0846	-.0147	.1911	.0226	.0044	-.1386	
320.000		.0000	.0000	.0000	.0000	-.2908	-.2620	-.2645	
360.000						-.2279	-.1989	-.2030	

ALPHA (2) = -.294 BETA (1) = -4.000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		-.0750	.0003	.2524	.2258				
195.000		-.0641	.0344	.2424	.2710	.1849	.0054	-.2055	
210.000	-.2094	-.0483	.0444	.2444	.2512	.0678	-.0602	-.1639	
225.000		-.0281	.0390	.2264	.2227	.0084	-.1007	-.1249	
240.000		-.0172	.0188	.1672	.0161	-.0166	-.2362	-.2842	-.2109
255.000		-.0111	-.0281	.1739	.1096	-.1293	-.1471	-.1694	-.2261
270.000	-.0893	.0045	-.0589	.0755	.1390	.0237	-.1041	-.1371	
290.000	-.0758	.0132	-.1069	-.0680	.1747	-.0184	-.0754	-.1706	
320.000		.0000	.0000	.0000	.0000	-.2607	-.2106	-.1841	
360.000						-.2179	-.2017	-.1639	

ALPHA (2) = -.375 BETA (2) = .009

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		-.0275	.0213	.2840	.3622				
195.000		-.0294	.0312	.2676	.3809	.2955	.0859	-.2022	
210.000	-.1416	-.0284	.0478	.2234	.2785	.1184	.0331	-.0752	
225.000		-.0292	.0425	.2195	.2701	.1081	-.0269	-.0449	
240.000		-.0265	-.0125	.2200	.1899	.0632	-.1577	-.1889	-.2131
255.000		.0009	-.0540	.1526	.1226	-.1184	-.1341	-.1457	-.2016
270.000	-.0572	.0086	-.0711	.0204	.1032	.0230	-.0865	-.1098	
290.000	-.0434	.0045	-.1301	-.1480	.0957	-.0168	-.0308	-.1496	
320.000		.0000	.0000	.0000	.0000	-.3019	-.2700	-.2711	
360.000						-.2177	-.1942	-.1816	

ARC11-014IA19 OTS

SRB-NOM MPS-CFF CRB BODY

(REUB56)

SECTION (1) CRBITER BODY

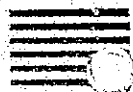
DEPENDENT VARIABLE CP

ALPHA (2) = -.423 BETA (3) = 4.028

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		-.0817	-.0117	.2499	.2438				
195.000		-.0921	-.0395	.2680	.2963	.4257	.2114	-.1712	
210.000	-.1167	-.0942	-.0480	.2800	.2623	.0302	.1139	.0008	
225.000		-.0771	-.0661	.2755	.2641	.0355	-.0167	.0289	
240.000		-.0565	-.0779	.2160	.1916	.1054	-.1269	-.1146	-.1657
255.000		.0322	-.0492	-.0427	.1636	-.0446	-.1385	-.1342	-.1891
270.000	-.0147	.0532	-.0693	-.0946	.1129	.0479	-.0532	-.0921	
290.000	-.0088	-.0311	-.1177	-.1505	.0127	.0174	.0167	-.1267	
320.000		.0000	.0000	.0000	.0000	-.2189	-.2436	-.3050	
360.000						-.2459	-.2077	-.1937	

ALPHA (3) = 3.834 BETA (1) = -.003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		-.0059	.1209	.2391	.3133				
195.000		-.0074	.1278	.2160	.3046	.2066	.0424	-.2097	
210.000	-.1487	-.0151	.1257	.2008	.2475	.0448	-.0116	-.1253	
225.000		-.0271	.0464	.2286	.2562	-.0467	-.0964	-.0840	
240.000		-.0584	-.0412	.1977	.1513	.0150	-.2105	-.2165	-.2279
255.000		-.0295	-.0917	.0374	.1193	-.1423	-.2077	-.1939	-.2268
270.000	-.0528	-.0132	-.1085	-.1393	.0581	-.0117	-.1156	-.1533	
290.000	-.0650	.0500	-.1743	-.2051	.0073	-.0566	-.0532	-.1710	
320.000		.0000	.0000	.0000	.0000	-.2944	-.2796	-.2755	
360.000						-.2009	-.1703	-.1621	



ARC11-014IA19 OTS+STRUT SRB-NOM+MPS-NOM+ORB BODY

(REUB57) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.497 BETA (1) = .003

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0219	.0920	.4236	.5226				
195.000		-.0055	.0701	.4176	.4521	.3047	.0535	-.3444	
210.000	-.1494	-.0014	.1217	.4106	.4178	.0928	.0073	-.1171	
225.000		.0053	.0000	.3695	.3722	.0054	-.0503	-.0562	
240.000		.0624	.0000	.2709	.0905	-.0133	-.1859	-.1870	-.2945
255.000		.0313	-.0364	.2720	.1824	-.0964	-.0701	-.1465	-.2959
270.000	-.0575	.0464	-.0693	.1936	.2167	.0620	-.0456	-.1222	
290.000	-.0381	-.0223	-.1075	.1223	.2219	-.0171	-.0289	-.2213	
320.000		.0000	.0000	.0000	.0000	-.3451	-.3110	-.2918	
360.000						-.2612	-.2692	-.2464	

ALPHA (2) = -.339 BETA (1) = -3.997

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0850	.0431	.3698	.3992				
195.000		-.0274	.0818	.3457	.4970	.1591	-.1076	-.3905	
210.000	-.1638	.0201	.1197	.2906	.2758	-.0235	-.1597	-.2713	
225.000		.0159	.0000	.2931	.2816	-.0702	-.1854	-.2125	
240.000		.0147	.0000	.3204	.0034	-.1153	-.3105	-.3404	-.3851
255.000		.0290	.0106	.3013	.1233	-.1716	-.1524	-.2316	-.3649
270.000	-.0733	.0399	-.0994	.1997	.1813	-.0714	-.1044	-.2088	
290.000	-.0608	.0348	-.2054	.0761	.2017	-.0560	-.1124	-.2628	
320.000		.0000	.0000	.0000	.0000	-.3053	-.2871	-.2753	
360.000						-.2497	-.2691	-.2277	

ALPHA (2) = -.465 BETA (2) = .019

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		.0212	.1173	.3270	.4119				
195.000		.0181	.1355	.2969	.4026	.2510	.0183	-.3453	
210.000	-.0875	.0228	.1250	.2723	.3493	.0909	-.0328	-.1593	
225.000		.0230	.0000	.2645	.3529	.0448	-.0849	-.1043	
240.000		.0437	.0000	.2378	.2162	-.0353	-.2034	-.2179	-.3182
255.000		.0492	-.0753	.1616	.1603	-.1106	-.1414	-.1882	-.3182
270.000	-.0544	.0445	-.1164	.0368	.1564	.0286	-.0672	-.1563	
290.000	-.0402	.0005	-.1698	-.1434	.1806	-.0409	-.0406	-.2373	
320.000		.0000	.0000	.0000	.0000	-.3267	-.3157	-.2933	
360.000						-.2281	-.2455	-.2367	

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-014IA19 OTS+STRUT SRB-NOM+MFS-NOM+CRB BODY

(REUB57)

SECTION (1) ORBITER BODY

DEPENDENT VARIABLE CP

ALPHA (2) = -.435	BETA (3) = 4.031	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		-.0489	-.0237	.3145	.3578				
		195.000		-.0502	-.0405	.3045	.3501	.4106	.1557	-.3230	
		210.000	-.1442	-.0377	.0219	.3442	.3026	.0502	.0735	-.0551	
		225.000		-.0539	.0000	.2919	.2921	-.0154	-.0298	.0007	
		240.000		-.0989	.0000	.2479	.1649	.0238	-.1564	-.1156	-.2629
		255.000		-.0106	-.1371	.0998	.1426	-.0478	-.0974	-.1654	-.2934
		270.000	-.0229	.0033	-.1503	-.1174	.0940	.0478	-.0291	-.1318	
		290.000	-.0065	-.0557	-.2047	-.2231	.0833	.0062	.0072	-.2154	
		320.000		.0000	.0000	.0000	.0000	-.3236	-.3195	-.3587	
		360.000						-.2095	-.2584	-.2392	
ALPHA (3) = 3.636	BETA (1) = .003	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		FHI									
		180.000		-.0005	.0833	.3019	.3915				
		195.000		-.0480	.0537	.2957	.4017	.1847	-.0388	-.3663	
		210.000	-.1023	.0107	.0383	.2587	.2889	-.0099	-.0858	-.2086	
		225.000		.0132	.0000	.2638	.2694	-.0091	-.1502	-.1305	
		240.000		.0063	.0000	.2229	.1296	-.0773	-.2420	-.2328	-.3298
		255.000		.0004	-.1337	.1412	.1120	-.1191	-.1723	-.2261	-.3182
		270.000	-.0998	-.0095	-.1751	-.0631	.0774	-.0081	-.0818	-.1785	
		290.000	-.1151	-.0087	-.2338	-.2405	.0930	-.0648	-.0587	-.2488	
		320.000		.0000	.0000	.0000	.0000	-.3196	-.3417	-.3326	
		360.000						-.2267	-.2564	-.2469	

ARC11-0141A19 OTS+STRUT SRB-LCW MPS-NOM CRB BODY

(RELB58) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.155 BETA (1) = .000

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0305	-.0007	.3572	.4446				
195.000		-.0311	.0049	.3588	.4376	.3659	.1298	-.2677	
210.000	-.1095	-.0232	.0000	.3559	.3636	.1407	.0692	-.0411	
225.000		-.0158	.0000	.3295	.3204	.0583	-.0033	-.0047	
240.000		-.0054	.0000	.2285	.0924	.0607	-.1473	-.1510	-.2325
255.000		.0119	-.0184	.2251	.1412	-.0697	-.0857	-.1047	-.1900
270.000	-.0509	.0280	-.0363	.1375	.1578	.0593	-.0098	-.0720	
290.000	-.0304	-.0124	-.0853	-.0183	.1846	.0107	.0068	-.1328	
320.000		.0000	.0000	.0000	.0000	-.2892	-.2740	-.3148	
360.000						-.2046	-.2423	-.2314	

ALPHA (2) = -.342 BETA (1) = 4.028

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
FHI									
180.000		-.0605	-.0256	.2487	.2490				
195.000		-.0849	-.0434	.2663	.3016	.4295	.2069	-.2392	
210.000	-.1188	-.0769	.0000	.2734	.2553	.0316	.1137	-.0070	
225.000		-.0618	.0000	.2595	.2531	.0374	-.0181	.0197	
240.000		-.0419	.0000	.1431	.1770	.0829	-.1291	-.1185	-.1989
255.000		.0520	-.0598	-.0120	.1404	-.0526	-.1378	-.1390	-.2109
270.000	-.0128	.0685	-.0766	-.1112	.0925	.0271	-.0205	-.1011	
290.000	-.0014	-.0086	-.1241	-.1646	-.0085	-.0196	.0183	-.1256	
320.000		.0000	.0000	.0000	.0000	-.2900	-.2793	-.3514	
360.000						-.1636	-.2234	-.2063	

ARC11-014IA19 OTS+STRUT SRB-NCM MPS-OFF CRB BODY

(REUB59) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) CRBITER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.080 BETA (1) = .012

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		-.0474	.0631	.4171	.5071				
195.000		-.0191	.0573	.4217	.5004	.3074	.0565	-.2603	
210.000	-.1254	-.0147	.0000	.4199	.4135	.0948	.0097	-.1113	
225.000		.0022	.0000	.3853	.3639	.0095	-.0482	-.0515	
240.000		.0211	.0000	.2935	.0899	-.0050	-.1831	-.1845	-.2466
255.000		.0369	-.0326	.2760	.1852	-.0916	-.1148	-.1461	-.2666
270.000	-.0482	.0282	-.0631	.2057	.2121	.0605	-.0454	-.1236	
290.000	-.0325	-.0283	-.0891	.1257	.2193	-.0000	-.0289	-.2166	
320.000		.0000	.0000	.0000	.0000	-.3460	-.3174	-.3081	
360.000						-.2700	-.2712	-.2498	

ALPHA (2) = -.375 BETA (1) = .012

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		-.0275	.1054	.3294	.4152				
195.000		.0016	.1116	.3099	.4152	.2556	.0265	-.2485	
210.000	-.1233	.0031	.0000	.2769	.3512	.0975	-.0167	-.1425	
225.000		.0093	.0000	.2728	.3519	.0514	-.0714	-.0887	
240.000		.0182	.0000	.2456	.2172	-.0261	-.1900	-.2032	-.2628
255.000		.0292	-.0632	.1732	.1671	-.0985	-.1591	-.1770	-.2677
270.000	-.0484	.0137	-.1024	.0554	.1618	.0369	-.0523	-.1421	
290.000	-.0417	-.0086	-.1474	-.1256	.1840	-.0224	-.0279	-.2226	
320.000		.0000	.0000	.0000	.0000	-.3238	-.3076	-.2920	
360.000						-.2294	-.2411	-.2274	

ALPHA (2) = -.333 BETA (2) = 4.031

X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
PHI									
180.000		-.0365	-.0113	.2990	.3374				
195.000		-.0297	-.0359	.3096	.3459	.4064	.1343	-.2569	
210.000	-.1445	-.0299	.0000	.3151	.3047	.0452	.0627	-.0611	
225.000		-.0352	.0000	.3059	.2895	-.0219	-.0358	-.0634	
240.000		-.0630	.0000	.2547	.1646	.0174	-.1663	-.1221	-.2312
255.000		.0174	-.1304	.0870	.1433	-.0600	-.1375	-.1726	-.2678
270.000	-.0235	.0232	-.1554	-.1420	.0931	.0403	-.0301	-.1354	
290.000	-.0100	-.0373	-.1915	-.2349	.0662	.0147	.0048	-.2157	
320.000		.0000	.0000	.0000	.0000	-.3433	-.3348	-.3751	
360.000						-.2132	-.2714	-.2535	

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-HI MPS-NOM CRB BODY

(REUB01) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.293
 GIMBAL = 1.000

SECTION (1) : CRIBTER BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.122	BETA (1) = .012	X/L	.500	.653	.730	.781	.823	.882	.923	.963	1.002
		PHI									
		180.000		-.0174	.0617	.4187	.5052				
		195.000		-.0167	.0555	.4239	.5035	.3097	.0553	-.3125	
		210.000	-.1247	-.0101	.0000	.4206	.4133	.0962	.0085	-.1135	
		225.000		.0045	.0000	.3868	.3688	.0105	-.0512	-.0519	
		240.000		.0225	.0000	.2913	.0918	-.0081	-.1866	-.1857	-.2802
		255.000		.0339	-.0324	.2763	.1899	-.0928	-.1165	-.1447	-.2774
		270.000	-.0463	.0249	-.0669	.2045	.2165	.0620	-.0437	-.1206	
		290.000	-.0293	-.0312	-.0929	.1264	.2239	-.0070	-.0274	-.2147	
		320.000		.0000	.0000	.0000	.0000	-.3063	-.2659	-.2361	
		360.000						-.2256	-.2306	-.2035	

ORIGINAL PAGE IS
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ARC11-0141A19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR01) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -3.993	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.700	.887
		.000	-.0757	.0748	.1923	.3616	.3326	.1185	-.0360
		.020			.3790	.3461	.3395	.3263	.2897
		.040		.1429	.2954				
		.050	.0243			.0980	.0634	.1187	.0518
		.080				-.0516			
		.081			.0346				
		.086		.1994					
		.094	.0752						
		.150				-.1559	-.2250	-.2319	-.3311
		.163		.1890					
		.177			-.1757				
		.229	.0802						
		.246		-.1123					
		.250				-.2918	-.3421	-.4668	-.5924
		.274			-.2337				
		.362	.0728						
		.390		-.1900					
		.400				-.3473	-.3578		-.6789
		.452			-.2949				
		.497	-.1474						
		.550				-.2469	-.3378		
		.565			-.1455				
		.600							-.4866
		.650						-.3767	
		.700	-.0254				-.4301		
		.725				.0000			
		.750						-.3582	-.4524
		.760			-.2813				
		.775				-.3609	-.4171		
		.808			-.3205				
		.834	-.2652						
		.850				-.3426	-.3810	-.3302	
		.857		-.3415					
		.865	-.3011						
		.900	-.3229			-.3154		-.1776	
		.905			-.3141		-.3515		
		.950				-.2955		-.1768	
		.953		-.2813					
		.965	-.2710						

ARC11-0141A19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR01)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.216 BETA (1) = -4.006

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2407	-.0361	.0764	.3710	.3291	.1527	.0420
.020			.2618	.2860	.2526	.2190	.1816
.040		.0166	.2149				
.050	-.1084			.0351	-.0267	.0019	-.0730
.080				-.1124			
.081			.0289				
.086		.0841					
.094	-.0507						
.150				-.1986	-.3043	-.3077	-.4355
.163		.1303					
.177			-.1821				
.229	.0067						
.246		-.1114					
.250				-.3401	-.3821	-.5331	-.6776
.274			-.2391				
.362	.0274						
.390		-.2054					
.400				-.4018	-.4425		-.7952
.402			-.2923				
.497	-.1691						
.550				-.3140	-.3980		
.565			-.2089				
.600							-.5664
.650						-.4742	
.700	-.1040				-.4819		
.725				.0000			
.750						-.4390	-.5346
.760			-.3681				
.775			-.4396	-.5177			
.808			-.4010				
.834	-.3605						
.850				-.3859	-.4012	-.3779	
.857			-.3913				
.865	-.3879						
.900	-.3762			-.3692			-.2947
.905			-.3683	-.3859			
.950				-.5473		-.2389	
.953			-.3308				
.965	-.3419						

ALPHA (2) = -.336 BETA (2) = .006

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1714	.0346	.3338	.4961	.4705	.3904	.2990
.020			.3277	.1977	.1777	.1388	.0990
.040		.1176	.2014				
.050	-.0207			-.1268	-.1708	-.1379	-.1996
.080				-.3126			
.081			-.1298				

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR01)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.336	BETA (2) = .006	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.086		.1510					
		.094	.0362						
		.150				-.3282	-.4475	-.5049	-.6181
		.163		.1011					
		.177				-.4335			
		.229	.0445						
		.246		-.2373					
		.250				-.5400	-.6309	-.7091	-.8291
		.274				-.4108			
		.362	.0064						
		.390		-.3470					
		.400				-.6038	-.6565		-.9267
		.402				-.4518			
		.497	-.2553						
		.550				-.2974	-.4065		
		.565		-.1879					
		.600							-.5764
		.650						-.3882	
		.700	-.0755				-.4655		
		.725				.0000			
		.750						-.3338	-.4145
		.760				-.3032			
		.775				-.3902	-.4443		
		.808				-.3384			
		.834	-.2831						
		.850				-.3282	-.3485	-.2386	
		.857				-.2979			
		.865	-.3127						
		.900	-.2059			-.2966			-.1535
		.905				-.2706	-.3039		
		.950				-.2586		-.0817	
		.953				-.2549			
		.965	-.2483						

ALPHA (2) = -.222 BETA (3) = 4.025

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.0933	.0293	.4078	.5859	.5271	.5277	.4628
.020			.2926	.0912	.07497	-.0185	-.0293
.040		.1338	.1257				
.050	.0349			-.2577	-.3634	-.3393	-.3749
.080				-.4931			
.081			-.2954				
.086		.1416					
.094	.0863						
.150				-.5084	-.6117	-.6081	-.7351

ARC11-014IA19 OYS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR01)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.222 BETA (3) = 4.025

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.163		.0368					
.177			-.5426				
.229	.0652						
.246		-.3184					
.250				-.7150	-.7814	-.8760	-.9641
.274			-.5713				
.362	-.0220						
.390		-.4789					
.400				-.7493	-.8960		-.9817
.402			-.5872				
.497	-.4394						
.550				-.2825	-.3626		
.565			-.1732				
.630							-.6116
.650						-.4455	
.700	-.0691				-.2443		
.725				.0000			
.750						-.3112	-.4870
.760			-.2151				
.775				-.2442	-.2383		
.808			-.2467				
.834	-.1992						
.850				-.2808	-.3114	-.1547	
.857			-.2856				
.865	-.2309						
.900	-.2970			-.2185			-.3249
.905			-.2315		-.1964		
.950				-.1470		-.0234	
.953			-.1678				
.965	-.1967						

ALPHA (3) = 3.948 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.3704	-.1017	.3534	.5365	.4580	.4666	.3880
.020			.2402	.0179	-.0546	-.1742	-.2467
.040		.0571	.0730				
.050	-.0903			-.3301	-.4575	-.4925	-.5912
.080				-.5538			
.081			-.3488				
.086		.0831					
.094	-.0145						
.150				-.6211	-.7514	-.7769	-.8908
.163		-.0029					
.177			-.5829				
.229	.0071						

ARC11-014IA19 QTS+STRUT SRB-OFF MPS-OFF TOP WING

(RELSD1)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.948	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		-.3434					
		.250				-.7666	-.8526	-.9581	-1.0592
		.274			-.6071				
		.362	-.0529						
		.390		-.5237					
		.400				-.8230	-.9351		-1.0515
		.402			-.5997				
		.497	-.4682						
		.550				-.3534	-.4389		
		.565			-.2404				
		.600							-.6132
		.650						-.5102	
		.700	-.1345				-.3230		
		.725				.0000			
		.750						-.4200	-.5982
		.760			-.3097				
		.775				-.3201	-.3031		
		.808			-.3351				
		.834	-.3102						
		.850				-.3029	-.3056	-.3439	
		.857			-.3119				
		.865	-.3326						
		.900	-.2994			-.2622			-.5201
		.905			-.2791		-.2442		
		.920				-.2270		-.2034	
		.953			-.2224				
		.965	-.2349						

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR02) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.176	BETA (1) = .000	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.000	-.3244	.0034	.4302	.5607	.5453	.3852	.2777
		.020			.4938	.4420	.4635	.4668	.4634
		.040		.1669	-.4079				
		.060	-.2016			.1950	.2040	.2648	.2400
		.080				.0469			
		.081			.1648				
		.086		.2793					
		.094	-.0435						
		.150				.0410	-.0523	-.0296	-.0903
		.163		.3061					
		.177			-.1058				
		.229	.0063						
		.246		.0505					
		.250				-.1554	-.1764	-.1925	-.3023
		.274			-.0512				
		.362	.2101						
		.390		-.0099					
		.400				-.1601	-.1561		-.4198
		.402			-.0726				
		.497	.0283						
		.550				.0239	-.0562		
		.565			.1158				
		.600							-.2634
		.650						-.1241	
		.700	.2107				-.1126		
		.725				.0000			
		.750						-.0967	-.2729
		.760			.0093				
		.775				-.0597	-.1349		
		.808			-.0242				
		.834	.0195						
		.850				-.4679	-.3699	-.2206	
		.857			-.4672				
		.865	-.0223						
		.900	-.4269			-.4005			-.0329
		.905			-.4328		-.2753		
		.950				-.3338		-.0912	
		.953			-.3568				
		.965	-.4028						

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(RELR02)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.294 BETA (1) = -4.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.5023	.0142	.2343	.5575	.5333	.3751	.3043
.020			.3144	.4017	.3826	.3746	.3669
.040		.0772	.2965				
.050	-.2715			.1624	.1329	.1686	.1333
.080				.0249			
.081			.1764				
.086		.1545					
.094	-.1105						
.150				-.0058	-.0881	-.0990	-.1740
.163		.2460					
.177			-.0120				
.229	.0542						
.246		.0701					
.250				-.1251	-.1628	-.2428	-.3592
.274			-.0461				
.362	.1691						
.390		-.0137					
.400				-.1667	-.1877		-.4698
.402			-.0480				
.497	.0168						
.550				-.0313	-.1100		
.565		.0552					
.600							-.3107
.650						-.1967	
.700	.1393				-.1614		
.725				.0000			
.750						-.1617	-.3299
.760			-.0723				
.775				-.1244	-.1955		
.808			-.1061				
.834	-.0661						
.850				-.5243	-.4305	-.3023	
.857			-.5048				
.865	-.1011						
.900	-.4649			-.4697			-.1116
.905			-.4755		-.3430		
.950				-.4042		-.1701	
.953			-.4091				
.965	-.4455						

ALPHA (2) = -.252 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.3273	-.0152	.5009	.6659	.6273	.5962	.5457
.020			.4458	.3264	.3045	.2715	.2683
.040		.2006	.3254				
.050	-.1987			.0471	-.0259	.0147	-.0004
.080				-.1481			
.081			.0037				



ARC11-014IA19 QTS+STRUT SRB-OFF MPB-OFF TOP WING

(REUR02)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.252	BETA (2) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.086		.2613					
		.094	-.1303						
		.157				-.1477	-.1978	-.2439	-.3332
		.163		.2460					
		.177			-.2048				
		.229	.0912						
		.246		-.0189					
		.250				-.3313	-.3910	-.4475	-.5296
		.274			-.2263				
		.362	.1876						
		.390		-.1741					
		.400				-.4121	-.4520		-.6288
		.402			-.2561				
		.497	-.1293						
		.550				-.0146	-.0930		
		.565			.0749				
		.600							-.6240
		.650						-.1074	
		.700	.1579				-.1179		
		.725				.0000			
		.750						-.0735	-.2402
		.760		-.0019					
		.775				-.0694	-.1355		
		.808		-.0377					
		.834	.0185						
		.850				-.4588	-.3424	-.1557	
		.857		-.4541					
		.865	-.0205						
		.900	-.4235			-.3828			-.0889
		.905			-.4277		-.2553		
		.950				-.3150		-.0365	
		.953		-.3553					
		.965	-.4021						
ALPHA (2) = -.225	BETA (3) = 4.028	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.0948	.0253	.5274	.7227	.6720	.6885	.6406
		.020			.4204	.2544	.2302	.1740	.1557
		.040		.2157	.2623				
		.050	-.0084			-.0392	-.1221	-.1103	-.1586
		.080				-.2330			
		.081			-.1665				
		.086		.2478					
		.094	.0856						
		.150				-.4212	-.4055	-.3860	-.4509

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TCF WING

(REUR02)

SECTION (1) TCF WING	DEPENDENT VARIABLE CP								
ALPHA (2) = -.225 BETA (3) = 4.028	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
	.163		.1841						
	.177			-.3222					
	.229	.1399							
	.246		-.1130						
	.250				-.4913	-.5559	-.5810	-.6236	
	.274			-.3867					
	.362	.1524							
	.390		-.2919						
	.400				-.5678	-.6670		-.7301	
	.402			-.4368					
	.497	-.2074							
	.590				-.2178	-.5022			
	.565			-.0805					
	.600							-.6765	
	.650						-.6371		
	.700	.0292				-.2741			
	.725				.0000				
	.750						-.4410	-.6425	
	.760			.0348					
	.775				-.0553	-.2700			
	.808			-.0009					
	.834	.0644							
	.850				-.4054	-.2509	-.3041		
	.857			-.4227					
	.865	.0258							
	.900	-.4170			-.2957			-.4954	
	.905			-.3995		-.1677			
	.950				-.1987		-.1419		
	.953			-.2974					
	.965	-.3986							
ALPHA (3) = 4.026 BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
	.000	-.3179	-.1400	.4665	.6678	.6070	.6279	.5551	
	.020			.3754	.1865	.1439	.0353	-.0334	
	.040		.1549	.2217					
	.050	-.1751			-.0854	-.1956	-.2309	-.3202	
	.080				-.2661				
	.081			-.1844					
	.086		.2113						
	.094	-.1129							
	.150				-.4394	-.4547	-.4699	-.5507	
	.163		.1744						
	.177			-.3120					
	.229	.1368							

ARC11-014IA19 OTS+STRUT S/B-OFF W/S-OFF TOP WING

(REUR02)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 4.026 BETA (1) = .000

2Y/B X/C	.290	.364	.427	.534	.641	.780	.887
.246		-.1109					
.297				-.4987	-.5780	-.6434	-.6987
.274			-.3527				
.362	.1576						
.390		-.2640					
.400				-.5451	-.6716		-.7859
.402			-.4139				
.497	-.1854						
.557				-.1929	-.3340		
.565			-.0815				
.600							-.7598
.650						-.6491	
.700	.0296				-.2480		
.725				.0000			
.750						-.4407	-.7472
.760			-.0385				
.775				-.1090	-.2477		
.808			-.0745				
.834	-.0203						
.850				-.4481	-.3035	-.2561	
.857			-.4625				
.865	-.0415						
.900	-.4642			-.3735			-.6624
.905			-.4475		-.2176		
.950				-.2946		-.0329	
.953			-.3864				
.965	-.4421						

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OF POOR QUALITY

ARC11-014IA19 OTS+STRUT SRB-OFF HPS-OFF TCP WING

(REUR03) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) TCP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.182	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.1746	-.0119	.2069	.4812	.4771	.3300	.2422
		.020			.3725	.4247	.4237	.4373	.4396
		.040		.0199	.3109				
		.060	-.1786			.1928	.1637	.2564	.2510
		.080				.0240			
		.081				.0865			
		.086		.0629					
		.094	-.1138						
		.150				-.0199	-.0497	-.0679	-.0738
		.163		.1456					
		.177			-.1054				
		.229	-.0305						
		.246		-.0154					
		.250				-.2268	-.2366	-.2361	-.2658
		.274			-.1660				
		.362	.0127						
		.390		-.1560					
		.400				-.3391	-.3629		-.4359
		.402			-.2509				
		.497	-.1090						
		.550				-.0724	-.2910		
		.565			.0323				
		.600							-.4755
		.650						-.4357	
		.700	.1211				-.0558		
		.725				.0000			
		.750						-.2323	-.4285
		.760			.0646				
		.775				.0394	-.0475		
		.808			.0386				
		.834	.0520						
		.850				-.3323	-.2197	-.1879	
		.857			-.3394				
		.865	.0211						
		.900	-.3364			-.2970			-.2342
		.905			-.3183		-.1699		
		.950				-.2437		-.0697	
		.953			-.2737				
		.965	-.3976						

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REL013)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.291 BETA (1) = -3.997

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.3314	-.1464	.1718	.4539	.4488	.3182	.2344
.020			.2354	.3569	.3376	.3284	.3245
.040		-.1049	.1901				
.050	-.2574			.1308	.0758	.1491	.1350
.080				-.0376			
.081			.0276				
.086		-.0334					
.094	-.1908						
.150				-.0779	-.1028	-.1477	-.1694
.163		.0644					
.177			-.1566				
.229	-.0925						
.246		-.0681					
.250				-.2585	-.2790	-.3009	-.3366
.274			-.1874				
.362	-.0908						
.390		-.1786					
.400				-.3636	-.3930		-.4880
.402			-.2694				
.497	-.1397						
.550				-.0764	-.2163		
.565			.0214				
.600							-.5128
.650						-.2905	
.700	.0818				-.0759		
.725				.0000			
.750						-.2251	-.3814
.760			-.0068				
.775				-.0193	-.0683		
.808			-.0312				
.834	-.0109						
.850				-.3798	-.2654	-.2076	
.857			-.3733				
.865	-.0412						
.900	-.3630			-.3464			-.2237
.905			-.3598		-.2119		
.950				-.2971		-.1045	
.953			-.3186				
.965	-.3455						

ALPHA (2) = -.177 BETA (2) = .016

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1945	-.0960	.3285	.5938	.5800	.4741	.3919
.020			.3511	.3456	.3383	.3180	.3360
.040		-.0169	.2348				
.050	-.1679			.0987	.0410	.0903	.0925
.080				-.0785			
.081			-.0749				

ARC11-014IA19 QTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR03)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.177 BETA (2) = .016	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
	.086		.0192					
	.094	-.1069						
	.150				-.2123	-.2236	-.1932	-.2026
	.163		.0709					
	.177			-.2098				
	.229	-.0562						
	.246		-.0897					
	.250				-.3326	-.3186	-.3641	-.3888
	.274			-.2651				
	.362	-.0378						
	.390		-.2193					
	.400				-.4160	-.4758		-.5178
	.492			-.3085				
	.497	-.1516						
	.550				-.4143	-.4956		
	.565			-.2836				
	.600							-.5313
	.690						-.5753	
	.700	-.0811				-.2302		
	.725				.0000			
	.750						-.5534	-.5414
	.760			.0286				
	.775				-.0654	-.2386		
	.808			.0061				
	.834	.0397						
	.850				-.3345	-.2717	-.3273	
	.857			-.3412				
	.865	.0094						
	.900	-.3483			-.3009			-.3250
	.905			-.3284		-.2055		
	.950				-.2453		-.2000	
	.953			-.2882				
	.965	-.3325						

ALPHA (2) = -.366 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.0813	-.0423	.4667	.7090	.6716	.6758	.6556
.020			.4129	.3107	.3270	.3174	.3116
.040		.0547	.2673				
.050	-.0758			.0401	.0090	.0622	.0339
.080				-.1047			
.081			-.0882				
.086		.0860					
.094	-.0152						
.150				-.2913	-.2593	-.2316	-.2522

ARC11-014IA19 QTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR03)

SECTION (1) TOP WING		DEPENDENT VARIABLE CP							
ALPHA (2) = -0.366 BETA (3) = 4.031		2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.163		.1360					
		.177			-.2467				
		.229	.0069						
		.246		-.0783					
		.257				-.3838	-.4106	-.3996	-.4281
		.274			-.3380				
		.362	.0445						
		.390		-.2603					
		.400				-.5124	-.5138		-.5404
		.402			-.3847				
		.497	-.1626						
		.550				-.4943	-.5865		
		.565			-.3975				
		.600							-.5478
		.650						-.6043	
		.700	-.2988				-.3965		
		.725				.0000			
		.750						-.5741	-.6268
		.760			-.0521				
		.775				-.2444	-.3521		
		.808			-.0506				
		.834	.0664						
		.850				-.3354	-.2915	-.4205	
		.857			-.2921				
		.865	.0482						
		.900	-.3234			-.2664			-.4390
		.905			-.2763		-.2715		
		.950				-.1938		-.3464	
		.953			-.2262				
		.965	-.2999						
ALPHA (3) = 3.843 BETA (1) = .003		2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.000	-.2061	-.2698	.3177	.6401	.5890	.6482	.6336
		.020			.2912	.1980	.1937	.1662	.1240
		.040		-.0940	.1416				
		.050	-.1433			-.0759	-.1181	-.0814	-.1546
		.080				-.2350			
		.081			-.1684				
		.086		-.0421					
		.094	-.1227						
		.150				-.3812	-.3453	-.3305	-.3768
		.165		.0099					
		.177			-.3109				
		.229	-.1010						

ARC11-014IA19 QTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR03)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.843 BETA (1) = .003

RY/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		-.1609					
.253				-.4464	-.4825	-.4821	-.5129
.274			-.3791				
.362	-.0676						
.390		-.2826					
.400				-.5214	-.5610		-.6058
.402			-.3807				
.497	-.1926						
.593				-.4805	-.5990		
.565			-.3742				
.600							-.6147
.650						-.6517	
.700	-.2499				-.3593		
.725				.0000			
.750						-.6235	-.6348
.760			-.0584				
.775				-.2204	-.3320		
.808			-.0630				
.834	.0048						
.850				-.3532	-.2963	-.4403	
.857			-.3388				
.865	-.0051						
.900	-.3565			-.3019			-.4557
.905			-.3287		-.2613		
.950				-.2398		-.3798	
.953				-.2856			
.965	-.3470						

ARC11-014IA19 QTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR04) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -3.906	BETA (1) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.1140	-.0459	.2424	-.4933	-.5200	.4048	.2954
		.020			.3795	-.4594	-.4618	.4611	.4815
		.040		.0227	.2887				
		.050	-.1056			.2377	.2145	.2977	.3194
		.080				.0767			
		.081			.0498				
		.086		.0701					
		.094	-.0936			-.0206	-.0012	.0229	.0175
		.150							
		.163		.1348					
		.177			-.0822				
		.229	-.0139						
		.246		.0126					
		.250				-.1761	-.1568	-.1411	-.1526
		.270			-.1478				
		.362	.0018						
		.390		-.1327					
		.400				-.2676	-.2942		-.3095
		.402			-.2033				
		.497	-.0939						
		.550				-.3024	-.3317		
		.565			-.2160				
		.600							-.3604
		.650						-.3738	
		.700	-.0081				-.1773		
		.725				.0000			
		.750						-.3618	-.4823
		.760			.0571				
		.775				-.0236	-.1503		
		.808			.0409				
		.834	.0630						
		.890				-.1984	-.1556	-.2892	
		.857			-.2106				
		.865	.0373						
		.900	-.2264			-.1519			-.2758
		.905			-.1939		-.1163		
		.950				-.1118		-.2222	
		.953			-.1657				
		.965	-.2000						

ARC11-014IA19 OTS+STRUT SRB-OFF NPS-OFF TOP WING

(REUR04)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.204	BETA (1) = -4.000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.2599	-.1421	-.0542	.4789	.4710	.3598	.2555
		.020			.2454	.3700	.3622	.3446	.3590
		.040		-.0743	.1954				
		.050	-.2037			.1627	.1205	.1670	.1753
		.080				.0055			
		.081			.0054				
		.086		-.0129					
		.094	-.1737						
		.150				-.1049	-.1052	-.0708	-.0878
		.163		.0585					
		.177			-.1298				
		.229	-.0646						
		.246		-.0581					
		.250				-.2394	-.2245	-.2328	-.2466
		.274			-.1952				
		.362	-.0448						
		.390		-.1731					
		.400				-.3132	-.3445		-.3718
		.402			-.2390				
		.497	-.1378						
		.550				-.3245	-.3648		
		.565			-.2319				
		.600							-.4067
		.650							-.4166
		.700	-.0496				-.1774		
		.725				.0000			
		.750						-.4029	-.5128
		.760			.0241				
		.775				-.0315	-.3112		
		.808			.0062				
		.834	.0295						
		.850				-.2583	-.1933	-.2971	
		.857			-.2616				
		.865	.0003						
		.900	-.2596			-.2166			-.2982
		.905			-.2466		-.1393		
		.930				-.1755		-.2422	
		.953			-.2169				
		.965	-.2503						

ALPHA (2) = -.306 BETA (2) = .016

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1224	-.0957	.2894	.6165	.5910	.5129	.4168
.020			.3339	.3757	.3942	.3915	.4074
.040		.0058	.2304				
.050	-.1066			.1352	.1239	.1839	.1799
.080				-.0077			
.081			-.0252				

ARC1:-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR04)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.306 BETA (2) = .016

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.086		.0423					
.094	-.0878						
.150				-.1452	-.1303	-.0748	-.0871
.163		.0877					
.177			-.1569				
.229	-.0445						
.246		-.0533					
.250				-.2608	-.2554	-.2540	-.2582
.274			-.2343				
.362	-.0141						
.390		-.1975					
.400				-.3685	-.3776		-.3895
.402			-.2733				
.497	-.1374						
.550				-.3685	-.4317		
.565		-.2909					
.600							-.4382
.650						-.4458	
.700	-.2100				-.3853		
.725				.0000			
.750						-.4420	-.5113
.760			-.0355				
.775				-.1637	-.3158		
.808		-.0411					
.834	.0406						
.850				-.2560	-.2178	-.3374	
.857		-.2230					
.865	.0225						
.900	-.2420			-.2055			-.3365
.915			-.2147		-.1906		
.950				-.1565		-.2859	
.953		-.1858					
.965	-.2321						

ALPHA (2) = -.267 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.0099	-.0143	.4163	.7515	.7045	.6608	.5808
.020			.4148	.4012	.4131	.4199	.4368
.040		.0733	.2810				
.050	-.0115			.1386	.1115	.1843	.1795
.080				-.0290			
.081			-.0036				
.086		.0971					
.094	.0045						
.150				-.1839	-.1445	-.0885	-.1004

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ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR04)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.267 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.163		.1279					
.177			-.1526				
.229	.0051						
.246		-.0292					
.250				-.2706	-.2853	-.2636	-.2712
.274			-.2514				
.362	.0333						
.390		-.1894					
.400				-.3997	-.3905		-.3991
.402			-.2878				
.497	-.1034						
.550				-.3888	-.4494		
.565			-.3077				
.600							-.4345
.650						-.4744	
.700	-.2277				-.4516		
.725				.0000			
.750						-.4604	-.4540
.760			-.1220				
.775				-.2390	-.4416		
.808			-.1297				
.834	.0026						
.850				-.3009	-.3947	-.4364	
.857			-.2324				
.865	.0033						
.900	-.2234			-.2516			-.4244
.905			-.2047		-.2763		
.950				-.2122		-.3138	
.953			-.1514				
.965	-.1917						

ALPHA (3) = 4.392 BETA (1) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1477	-.2595	.2740	.6716	.6346	.6369	.5787
.020			.2725	.2743	.2852	.2645	.2623
.040		-.0756	.1602				
.050	-.0955			.0151	-.0151	.0274	-.0056
.080				-.1355			
.081			-.1119				
.086		-.0435					
.094	-.0724						
.150				-.3050	-.2540	-.2119	-.2385
.163		.0106					
.177			-.2464				
.229	-.0742						

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TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS-STRUT SRB-OFF MPS-OFF TOP WING

(REUR04)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 4.392	BETA (1) = .012	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		-.1219					
		.257				-.3635	-.3826	-.3620	-.3695
		.274			-.3346				
		.362	-.0474						
		.390		-.2701					
		.400				-.4577	-.4787		-.4743
		.402			-.3588				
		.497	-.1821						
		.553				-.4607	-.5045		
		.565			-.3593				
		.600							-.4975
		.650						-.5332	
		.700	-.2853				-.5110		
		.725				.0000			
		.750						-.5270	-.5244
		.760			-.1740				
		.775				-.2685	-.4788		
		.808			-.1791				
		.834	-.0127						
		.850				-.3310	-.2712	-.4090	
		.857			-.2764				
		.835	-.0273						
		.900	-.2600			-.2828			-.4880
		.905			-.2418		-.2529		
		.950				-.2488		-.3557	
		.953			-.1944				
		.965	-.2510						

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11-014

ARC11-014IA19 OTS+STRUT SRB-NCM MPS-NCM TOP WING

(REUR05) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.119 BETA (1) = -.006

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.0777	.0742	.1914	.3571	.3340	.1160	-.0298
.020			.3832	.3465	.3381	.3247	.2916
.040		.1445	.3000				
.060	.0198			.0981	.0625	.1152	.0495
.080				-.0493			
.100			.0363				
.120		.1971					
.140	.0748						
.160				-.1587	-.2265	-.2333	-.3334
.180		.1881					
.200			-.1762				
.220	.0786						
.240		-.1139					
.260				-.2948	-.3450	-.4676	-.5932
.280			-.2382				
.300	.0712						
.320		-.1945					
.340				-.3483	-.3634		-.7063
.360			-.2970				
.380	-.1494						
.400				-.2483	-.3396		
.420			-.1431				
.440							-.5112
.460						-.3844	
.480	-.0288				-.4331		
.500				.0000			
.520						-.3678	-.5311
.540			-.2840				
.560				-.3644	-.4261		
.580			-.3256				
.600	-.2737						
.620				-.4270	-.4532	-.4233	
.640			-.4174				
.660	-.3103						
.680	-.3987			-.4065			-.2639
.700			-.3979		-.4168		
.720				-.3673		-.2680	
.740			-.3534				
.760	-.3545						

ARC11-014IA19 QTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR05)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.206 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2455	-.0353	.0667	.3730	.3211	.1479	.0411
.020			.2660	.2951	.2551	.2310	.1905
.040		.0179	.2174				
.050	-.1085			.0446	-.0221	.0100	-.0618
.080				-.0966			
.081			.0341				
.086		.0846					
.094	-.0485						
.150				-.1998	-.2994	-.2980	-.4161
.163		.1329					
.177			-.1765				
.229	.0129						
.246		-.1064					
.250				-.3336	-.3735	-.5153	-.6555
.274			-.2328				
.362	.0296						
.390		-.2026					
.400				-.3956	-.4414		-.7869
.402			-.2891				
.497	-.1681						
.550				-.3097	-.3919		
.565			-.1999				
.600							-.5778
.650						-.4685	
.700	-.0997				-.4820		
.725				.0000			
.750						-.4362	-.6242
.760			-.3603				
.775				-.4321	-.5130		
.808			-.3991				
.834	-.3593						
.850				-.5214	-.5096	-.5039	
.857			-.5061				
.865	-.3914						
.900	-.5217			-.4951			-.3842
.905			-.4748		-.4877		
.950				-.4590		-.3298	
.953			-.4252				
.965	-.4919						

ALPHA (2) = -.264 BETA (2) = .016

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1725	.0314	.3255	.4875	.4631	.3738	.2847
.020			.3284	.2004	-.1853	.1418	.1091
.040		.1142	.2007				
.050	-.0254			-.1209	-.1638	-.1330	-.1941
.080				-.3088			
.081			-.1271				

ARC11-014IA19 QTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR05)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) =	BETA (2) =	.016	2Y/B	.299	.364	.427	.534	.641	.780	.887
			X/C							
			.086							
			.094	.0364						
			.120				-.3213	-.4414	-.5004	-.6065
			.153		.1006					
			.177			-.4326				
			.229	.0414						
			.246		-.2401					
			.250				-.5396	-.6184	-.7077	-.8192
			.274			-.4122				
			.362	.0060						
			.390		-.3453					
			.400				-.5984	-.6561		-.9252
			.402			-.4498				
			.497	-.2515						
			.520				-.2961	-.4049		
			.565			-.1877				
			.600							-.6638
			.650						-.4036	
			.700	-.0760				-.4623		
			.725				.0000			
			.750						-.3695	-.5087
			.760			-.3057				
			.775				-.3899	-.4628		
			.808			-.3432				
			.834	-.2877						
			.850				-.4274	-.4394	-.3992	
			.857			-.4152				
			.865	-.3253						
			.900	-.4019			-.3871			-.2812
			.905			-.3816		-.4105		
			.950				-.3542		-.2256	
			.953			-.3396				
			.965	-.3447						

ALPHA (2) = -.348 BETA (3) = 4.028

2Y/B	.299	.364	.427	.534	.641	.780	.887
X/C							
.000	-.0880	.0220	.3893	.5678	.5205	.5179	.4393
.020			.2782	.0730	.0412	-.0312	-.0404
.040		.1244	.1051				
.050	.0319			-.2822	-.3766	-.3641	-.3917
.080				-.5196			
.081			-.3100				
.086		.1339					
.094	.0821						
.150				-.4951	-.5826	-.6262	-.7627

ARC11-014IA19 OTS+STRUT SRB-NON MPS-NON TOP WING

(REURD5)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.348 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.163		.0224					
.177			-.5676				
.229	.0582						
.246		-.3356					
.250				-.6890	-.7927	-.9025	-.9926
.274			-.6008				
.362	-.0308						
.390		-.4790					
.400				-.7737	-.9072		-1.0469
.402			-.6150				
.497	-.4379						
.550				-.2964	-.3980		
.565			-.2022				
.600							-.6129
.650						-.4327	
.700	-.0836				-.2729		
.725				.0000			
.750						-.2166	-.4655
.760			-.2687				
.775				-.2650	-.2808		
.808			-.3123				
.834	-.2202						
.850				-.3277	-.3934	-.2103	
.857			-.3727				
.865	-.2586						
.900	-.3405			-.2551			-.3205
.905			-.3351		-.2967		
.950				-.1916		-.1146	
.953			-.2728				
.965	-.2446						

ALPHA (3) = 3.924 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.3786	-.1093	.3486	.5345	.4547	.4706	.3882
.020			.2353	.0138	-.0559	-.1751	-.2423
.040		.0498	.0702				
.050	-.0929			-.3321	-.4647	-.4982	-.5976
.080				-.5520			
.081			-.3543				
.086		.0782					
.094	-.0180						
.150				-.6400	-.7637	-.7807	-.8963
.163		-.0077					
.177			-.5851				
.229	.0035						

ARC11-D14IA19 OTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR05)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.924	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		-.3488					
		.250				-.7896	-.8619	-.9584	-1.0635
		.274			-.6116				
		.362	-.0578						
		.390		-.5384					
		.400				-.8454	-.9473		-1.0972
		.402			-.6245				
		.497	-.4816						
		.550				-.3610	-.4894		
		.565		-.2433					
		.600							-.6766
		.650						-.5339	
		.700	-.1413				-.3726		
		.725				.0000			
		.750						-.4512	-.6643
		.760			-.3213				
		.775				-.3918	-.3289		
		.808		-.3649					
		.834	-.3210						
		.850				-.4213	-.3934	-.4097	
		.857		-.3923					
		.865	-.3490						
		.900	-.4071			-.3680			-.6196
		.905		-.3449			-.3277		
		.950				-.3162		-.2735	
		.953		-.2915					
		.965	-.3352						

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR06) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.074 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.3279	.0115	.4288	.5622	.5440	.3852	.2774
.020			.4926	.4418	.4624	.4616	.4614
.040		.1953	.4088				
.060	-.2031			.1963	.2059	.2635	.2378
.080				.0499			
.081			.1647				
.086		.2805					
.094	-.0445						
.150				.0397	-.0481	-.0270	-.0905
.163		.3051					
.177			-.1023				
.229	.0005						
.246		.0502					
.250				-.1549	-.1747	-.1937	-.2983
.274			-.0500				
.362	.2096						
.390		-.0109					
.400				-.1577	-.1546		-.4182
.402			-.0719				
.497	.0258						
.550				.0225	-.0546		
.565			.1158				
.600							-.2623
.650						-.1230	
.700	.2103				-.1128		
.725				.0000			
.750						-.0961	-.2719
.760			.0107				
.775				-.0575	-.1324		
.808		-.0247					
.834	.0195						
.850				-.4658	-.3682	-.2205	
.857			-.4659				
.865	-.0228						
.900	-.4203			-.3990			-.0328
.905			-.4285		-.2745		
.950				-.3317		-.0912	
.953			-.3521				
.965	-.3916						

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ARC11-014IA19 OTS+STRUT SRB-NOM MFS-NOM TOP WING

(REUR06)

SECTION (1) TOP WING

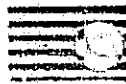
DEPENDENT VARIABLE CP

ALPHA (2) = -.396 BETA (1) = -4.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.4990	.0121	.2404	.5543	.5046	.3720	.2977
.020			.3141	.4034	.3931	.3810	.3713
.040		.0772	.2958				
.050	-.2696			.1683	.1445	.1796	.1496
.080				.0412			
.081			.1806				
.086		.1578					
.094	-.1095						
.150				.0075	-.0789	-.0755	-.1611
.163		.2900					
.177			-.0077				
.229	.0483						
.246		.0708					
.250				-.1074	-.1550	-.2343	-.3474
.274			-.0325				
.362	.1711						
.390		-.0042					
.400				-.1547	-.1663		-.4579
.402			-.0439				
.497	.0257						
.550				-.0273	-.1045		
.565			.0623				
.600							-.3027
.650						-.1933	
.700	.1446				-.1560		
.725				.0000			
.750						-.1564	-.3257
.760			-.0677				
.775				-.1194	-.1905		
.808			-.1017				
.834	-.0622						
.850				-.5195	-.4236	-.2900	
.857			-.4973				
.865	-.0964						
.900	-.4468			-.4644			-.1082
.905			-.4646		-.3373		
.950				-.3963		-.1652	
.953			-.3894				
.965	-.4256						

ALPHA (2) = -.408 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.3334	-.0579	.4950	.6620	.6253	.5978	.5417
.020			.4425	.3275	.3055	.2802	.2721
.040		.1878	.3239				
.050	-.2000			.0487	-.0207	.0370	.0091
.080				-.1428			
.081			.0045				



ARC11-014IA19 QTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR06)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.408 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.086		.2532					
.094	-.1371						
.150				-.1397	-.1923	-.2367	-.3261
.163		.2420					
.177			-.2008				
.229	.0393						
.246		-.0210					
.250				-.3206	-.3805	-.4368	-.5183
.274			-.2230				
.362	.1820						
.390		-.1686					
.400				-.4014	-.4465		-.6175
.402			-.2341				
.497	-.1270						
.550				-.0139	-.0927		
.565			.0724				
.600							-.6108
.650						-.1103	
.700	.1578				-.1164		
.725				.0000			
.750						-.0745	-.2387
.760			.0003				
.775				-.0684	-.1332		
.808			-.0347				
.834	.0203						
.850				-.4541	-.3403	-.1605	
.857			-.4515				
.865	-.0217						
.900	-.4132			-.3790			-.0810
.905			-.4207		-.2538		
.950				-.3102		-.0371	
.953			-.3439				
.965	-.3861						

ALPHA (2) = -.339 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1107	.0313	.5271	.7221	.6715	.6895	.6419
.020			.4238	.2604	.2371	.1808	.1630
.040		.2208	.2698				
.050	-.0113			-.0356	-.1149	-.0986	-.1484
.080				-.2265			
.081			-.1603				
.086		.2536					
.094	.0812						
.150				-.4123	-.3956	-.3748	-.4434

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR16)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.339 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.163		.1907					
.177			-.3167				
.229	.1425						
.246		-.1071					
.250				-.4833	-.5428	-.5730	-.6138
.274			-.3792				
.362	.1566						
.390		-.2862					
.400				-.5594	-.6601		-.7222
.402			-.4314				
.497	-.2018						
.550				-.2077	-.4738		
.565			-.0780				
.600							-.6679
.650						-.6152	
.700	.0400				-.2743		
.725				.0000			
.750						-.4286	-.6325
.760			.0397				
.775				-.0440	-.2667		
.808			.0027				
.834	.0696						
.850				-.4008	-.2470	-.2935	
.857			-.1171				
.865	.0298						
.900	-.4065			-.2879			-.4844
.905			-.3927		-.1607		
.950				-.1934		-.1294	
.953			-.2859				
.965	-.3856						

ALPHA (3) = 3.984 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.3216	-.2079	.4570	.6660	.6082	.6326	.5522
.020			.3735	.1806	.1448	.0378	-.0356
.040		.1449	.2178				
.050	-.1810			-.0908	-.1934	-.2308	-.3232
.080				-.2637			
.081			-.1833				
.086		.2066					
.094	-.1231						
.150				-.4374	-.4489	-.4626	-.5504
.163		.1714					
.177			-.3105				
.229	.1092						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 QTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR06)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.984 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		-.1095					
.250				-.4928	-.5767	-.6401	-.6934
.274			-.3476				
.362	.1566						
.390		-.2590					
.400				-.5393	-.6671		-.7792
.402			-.4085				
.497	-.1810						
.550				-.1839	-.3231		
.565			-.0725				
.600							-.7556
.650						-.6399	
.700	.0365				-.2348		
.725				.0000			
.750						-.4459	-.7474
.760			-.0361				
.775				-.1036	-.2253		
.808			-.0716				
.834	-.0155						
.850				-.4442	-.2998	-.2560	
.857			-.4575				
.865	-.0362						
.900	-.4518						-.6548
.905				-.4409	-.2163		
.950				-.2885		-.0249	
.953			-.3773				
.965	-.4257						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - 1A19 (ARC 11-014)

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ARC11-0141A19 OTS+STRUT SRB-NCH MPS-NCH TOP WING

(REURD7) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.131	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.1892	-.0111	.1954	.4717	.4734	.3330	.2426
		.020			.3652	.4290	.4282	.4466	.4479
		.040		.0242	.2993				
		.050	-.1754			.1995	.1757	.2662	.2632
		.080				.0285			
		.081			.0795				
		.086		.0640					
		.094	-.1160						
		.150				-.0091	-.0396	-.0401	-.0573
		.163		.1457					
		.177			-.1050				
		.229	-.0271						
		.246		-.0160					
		.250				-.2155	-.2223	-.2228	-.2519
		.274			-.1632				
		.362	.0074						
		.390		-.1480					
		.400				-.3277	-.3481		-.4182
		.402			-.2451				
		.497	-.1059						
		.550				-.0736	-.3129		
		.565			.0302				
		.600							-.4570
		.650						-.4350	
		.700	.1235				-.0537		
		.725				.0000			
		.750						-.2353	-.4275
		.760			.0697				
		.775				.0469	-.0428		
		.808			.0440				
		.834	.0552						
		.850				-.3008	-.2029	-.1869	
		.857			-.3117				
		.865	.0252						
		.900	-.2974			-.2665			-.2297
		.905			-.2879		-.1515		
		.950				-.2144		-.0741	
		.953			-.2416				
		.965	-.2709						

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM TOP WING

(REURD7:

SECTION (1) TOP WING

DEPENDENT VARIABLE CF

ALPHA (2) = -.300 BETA (1) = -4.000		2Y/B	.299	.364	.427	.534	.641	.780	.887
	X/C	.000	-.3489	-.1404	.1655	.4453	.4452	.3249	.2337
		.020			.2371	.3574	.3465	.3366	.3356
		.040		-.0971	.1925				
		.060	-.2522			.1404	.0880	.1597	.1449
		.080				-.0303			
		.081			.0335				
		.086		-.0281					
		.094	-.1877						
		.150				-.0700	-.0918	-.1227	-.1578
		.163		.0634					
		.177			-.1541				
		.229	-.0886						
		.246		-.0648					
		.290				-.2469	-.2694	-.2906	-.3257
		.274			-.1832				
		.362	-.0489						
		.390		-.1741					
		.400				-.3510	-.3812		-.4747
		.402			-.2834				
		.497	-.1353						
		.590				-.0774	-.2294		
		.565			.0229				
		.600							-.4993
		.690						-.3139	
		.700	.0877				-.0748		
		.725				.0000			
		.790						-.2419	-.3782
		.760			-.0038				
		.775				-.0119	-.0679		
		.808			-.0260				
		.834	-.0039						
		.890				-.3474	-.2464	-.2105	
		.857			-.3465				
		.865	-.0353						
		.900	-.3133			-.3137			-.2355
		.905			-.3270		-.1947		
		.990				-.2677		-.1011	
		.953			-.2805				
		.965	-.3011						
ALPHA (2) = -.411 BETA (2) = .012		2Y/B	.299	.364	.427	.534	.641	.780	.807
	X/C	.000	-.1876	-.0849	.3174	.5891	.5875	.4828	.3973
		.020			.3523	.3475	.3563	.3344	.3485
		.040		-.0081	.2384				
		.050	-.1643			.1087	.0803	.1116	.1100
		.080				-.0656			
		.081			-.0646				

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR07)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) =	BETA (2) =	2Y/B	.299	.364	.427	.534	.641	.780	.887
	.012	X/C							
		.086		.0284					
		.094	-.1008						
		.150				-.1994	-.2035	-.1595	-.1850
		.163		.0767					
		.177				-.2009			
		.229	-.0497						
		.246		-.0866					
		.250				-.3216	-.3047	-.3464	-.3692
		.274				-.2577			
		.362	-.0373						
		.390		-.2190					
		.400				-.4013	-.4606		-.5032
		.402				-.2946			
		.497	-.1534						
		.550				-.4003	-.4802		
		.565				-.2643			
		.600							-.5320
		.650						-.5553	
		.700	-.0642				-.2240		
		.725				.0000			
		.750						-.5339	-.5205
		.760				.0370			
		.775				-.0555	-.2237		
		.808				.0140			
		.834	.0461						
		.850				-.2995	-.2506	-.3115	
		.857				-.3068			
		.865	.0162						
		.900	-.3030			-.2657			-.3191
		.905				-.2902	-.1849		
		.950				-.2131		-.1803	
		.953				-.2489			
		.965	-.2901						

ALPHA (2) = -.438 BETA (3) = 4.031

2Y/B	.299	.364	.427	.534	.641	.780	.887
X/C							
.000	-.0677	-.0412	.4616	.7085	.6699	.6578	.6376
.020			.4158	.3214	.3371	.3342	.3363
.040		.0559	.2717				
.050	-.0758			.0586	.0185	.0789	.0571
.080				-.0932			
.081				-.0805			
.086		.0904					
.094	-.0158						
.150				-.2812	-.2557	-.2035	-.2352

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR07)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.438 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.163		.1409					
.177			-.2378				
.229	.0053						
.246		-.0715					
.250				-.3774	-.4010	-.3887	-.4144
.274			-.3326				
.362	.0448						
.390		-.2534					
.400				-.5052	-.5039		-.5301
.402			-.3805				
.497	-.1563						
.590				-.4863	-.5759		
.565			-.3941				
.600							-.5617
.690						-.5914	
.700	-.2959				-.4055		
.725				.0000			
.790						-.5635	-.6240
.760			-.0599				
.775				-.2399	-.3554		
.808			-.0596				
.834	.0614						
.890				-.3200	-.2845	-.4139	
.857			-.2708				
.865	.0451						
.900	-.2879			-.2542			-.4295
.905				-.2501	-.2803		
.990				-.1807		-.3413	
.953			-.2000				
.965	-.2719						

ALPHA (3) = 3.582 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2079	-.2626	.3037	.6493	.5929	.6473	.6332
.020			.2914	.2137	.2080	.1928	.1545
.040		-.0865	.1409				
.050	-.1334			-.0603	-.1026	-.0586	-.1239
.080				-.2217			
.081			-.1610				
.086		-.0435					
.094	-.1184						
.190				-.3637	-.3385	-.3027	-.3529
.163		.0132					
.177			-.3040				
.229	-.0918						

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ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM TOP WING

(REURD7)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.582	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		-.1611					
		.250				-.4382	-.4713	-.4650	-.4933
		.274			-.3764				
		.362	-.0757						
		.390		-.2810					
		.400				-.5213	-.5483		-.5909
		.402			-.3724				
		.497	-.1995						
		.550				-.4720	-.5925		
		.565			-.3762				
		.600							-.6014
		.650						-.6398	
		.700	-.2554				-.3390		
		.725				.0000			
		.750						-.6079	-.6325
		.760			-.0548				
		.775				-.2191	-.3284		
		.808			-.0581				
		.834	.0081						
		.850				-.3252	-.2940	-.4145	
		.857			-.3131				
		.865	-.0039						
		.900	-.3185			-.2767			-.4307
		.905			-.3022		-.2538		
		.950				-.2187		-.3829	
		.953			-.2575				
		.965	-.3161						

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TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM TOP WING

(REURO8) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.480
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.017	BETA (1) = .006	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.1489	-.0471	.2382	.4915	.5113	.3914	.2782
		.020			.3796	.4548	.4595	.4613	.4827
		.040		.0205	.2915				
		.050	-.1067			.2368	.2154	.2925	.3182
		.080				.0776			
		.081			.0510				
		.086		.0677					
		.094	-.0940						
		.150				-.0174	.0014	.0329	.0188
		.163		.1322					
		.177			-.0826				
		.229	-.0146						
		.246		.0129					
		.250				-.1749	-.1549	-.1412	-.1517
		.274			-.1452				
		.362	.0009						
		.390		-.1306					-.3098
		.400				-.2641	-.2928		
		.402			-.2018				
		.497	-.0939						
		.550				-.2995	-.3293		
		.565			-.2144				
		.600							-.3611
		.650						-.3712	
		.700	-.0005				-.1666		
		.725				.0000			
		.750						-.3595	-.4840
		.760			.0562				
		.775				-.0198	-.1448		
		.808			.0411				
		.834	.0603						
		.850				-.1958	-.1550	-.2880	
		.857			-.2100				
		.865	.0342						
		.900	-.2140			-.1510			-.2747
		.905			-.1926		-.1128		
		.950				-.1135		-.2253	
		.953			-.1545				
		.965	-.1905						

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM TOP WING

(RELR08)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.486 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2635	-.1419	.1646	.4717	.4677	.3493	.2604
.020		.2430	.3706	.3668	.3450		.3594
.040		-.0729	.1935				
.050	-.2055			.1636	.1225	.1708	.1794
.080				.0059			
.081			.0043				
.086		-.0140					
.094	-.1749						
.150				-.0971	-.1044	-.0670	-.0856
.163		.0596					
.177			-.1287				
.229	-.0594						
.246		-.0567					
.250				-.2372	-.2235	-.2275	-.2429
.274			-.1939				
.362	-.0458						
.390		-.1729					
.400				-.3109	-.3437		-.3696
.402			-.2368				
.497	-.1357						
.550				-.3258	-.3640		
.565			-.2310				
.600							-.4045
.650						-.4157	
.700	-.0429				-.1715		
.725				.0000			
.750						-.4006	-.5136
.760			.0241				
.775				-.0263	-.1676		
.808			.0029				
.834	.0298						
.850				-.2581	-.1948	-.2951	
.857			-.2615				
.865	-.0006						
.900	-.2406			-.2138			-.2929
.905			-.2416		-.1404		
.950				-.1746		-.2377	
.953			-.2023				
.965	-.2215						

ALPHA (2) = -.438 BETA (2) = .016

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1193	-.0868	.2868	.6114	.5894	.5073	.4112
.020			.3387	.3790	.3964	.3928	.4078
.040		.0054	.2321				
.050	-.1061			.1397	.1275	.1918	.1858
.080				-.0043			
.081			-.0237				

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TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 CFS+STRUT SRB-NOM MPS-NOM TOP WING

(REURDB)

SECTION 1 (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.438 BETA (2) = .016

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.086		.0429					
.094	-.0917						
.150				-.1446	-.1282	-.0713	-.0816
.163		.0892					
.177			-.1543				
.229	-.0375						
.246		-.0510					
.250				-.2627	-.2520	-.2500	-.2566
.274			-.2338				
.362	-.0138						
.390		-.1974					
.400				-.3655	-.3776		-.3885
.402			-.2736				
.497	-.1358						
.550				-.3657	-.4310		
.565			-.2886				
.600							-.4378
.650						-.4456	
.700	-.2075				-.3838		
.725				.0000			
.750						-.4410	-.5142
.760			-.0303				
.775				-.1595	-.3126		
.808			-.0340				
.834	.0406						
.850				-.2553	-.2152	-.3381	
.857			-.2254				
.865	.0209						
.900	-.2330			-.2039			-.3288
.905			-.2155		-.1884		
.950				-.1563		-.2864	
.953			-.1797				
.965	-.2213						

ALPHA (2) = -.456 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.0164	-.0158	.4137	.7396	.6949	.6460	.5642
.020			.4140	.3983	.4105	.4162	.4340
.040		.0741	.2812				
.050	-.0190			.1347	.1093	.1847	.1812
.080				-.0293			
.081			-.0071				
.086		.0940					
.094	.0011						
.150				-.1832	-.1448	-.0888	-.1003

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ARC11-014IA19 OTS+STRUT SRB-NOM MFS-NOM TOP WING

(REUR08)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.456 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.163		.1294					
.177			-.1587				
.229	.0008						
.246		-.0307					
.250				-.2761	-.2872	-.2641	-.2723
.274			-.2556				
.362	.0286						
.390		-.1929					
.400				-.4039	-.3938		-.4019
.402			-.2900				
.497	-.1072						
.550				-.3948	-.4548		
.565			-.3102				
.600							-.4365
.650						-.4733	
.700	-.2333				-.4556		
.725				.0000			
.750						-.4608	-.4571
.760			-.1202				
.775				-.2386	-.4387		
.808			-.1285				
.834	.0031						
.850				-.3014	-.2977	-.4480	
.857			-.2327				
.865	.0048						
.900	-.2183			-.2554			-.4282
.905			-.2062		-.2729		
.950				-.2148		-.3138	
.953			-.1515				
.965	-.1932						

ALPHA (3) = 4.014 BETA (1) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1530	-.2594	.2693	.6653	.6281	.6299	.5769
.020			.2651	.2754	.2875	.2664	.2710
.040		-.0773	.1595				
.050	-.0992			.0181	-.0118	.0347	.0047
.080				-.1344			
.081			-.1092				
.086		-.0439					
.094	-.0790						
.150				-.3004	-.2508	-.2066	-.2330
.163		.0069					
.177			-.2478				
.229	-.0781						

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM TCF WING

(REUR08)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 4.014	BETA (1) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		-.1253					
		.250				-.3554	-.3813	-.3610	-.3686
		.274			-.3342				
		.362	-.0512						
		.390		-.2705					
		.400				-.4583	-.4772		-.4731
		.402			-.3587				
		.497	-.1850						
		.550				-.4577	-.5248		
		.565			-.3613				
		.600							-.4966
		.650						-.5349	
		.700	-.2863				-.5107		
		.725				.0000			
		.750						-.5286	-.5152
		.760			-.1684				
		.775				-.2656	-.4735		
		.808			-.1727				
		.834	-.0207						
		.850				-.3284	-.2765	-.4092	
		.857			-.2712				
		.865	-.0278						
		.900	-.2512			-.2868			-.4809
		.905			-.2390		-.2560		
		.950				-.2476		-.3572	
		.953			-.1940				
		.965	-.2416						

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-0141A19 OTS+STRUT SRB-LOW MPS-NOM TOP WING

(RELRO9) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.191	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.0522	-.0624	.1714	.3407	.3257	.1084	-.0334
		.020			.3650	.3320	.3375	.3213	.2831
		.040		.1299	-.2777				
		.050	.0081			.0829	.0633	.1148	.0443
		.080				-.0679			
		.081			.0191				
		.086		.1816					
		.094	.0572						
		.150				-.1617	-.2314	-.2587	-.3439
		.163		.1771					
		.177			-.1925				
		.229	.0602						
		.246		-.1247					
		.250				-.2996	-.3519	-.4733	-.6053
		.274			-.2520				
		.362	.0612						
		.390		-.2003					
		.400				-.3589	-.3691		-.6851
		.402			-.3135				
		.497	-.1616						
		.550				-.2622	-.3467		
		.565			-.1636				
		.600							-.5189
		.650						-.3954	
		.700	-.0454				-.4397		
		.725				.0000			
		.750						-.3768	-.5245
		.760			-.3031				
		.775				-.3759	-.4301		
		.808			-.3448				
		.834	-.2870						
		.850				-.4239	-.4503	-.4334	
		.857			-.4393				
		.865	-.3240						
		.900	-.3928			-.3919		-.2607	
		.905			-.4104		-.4235		
		.950				-.3913		-.2662	
		.953			-.3698				
		.965	-.3409						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 QTS+STRUT SRB-LCW MPS-NOM TOP WING (REUR09)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.438	BETA (1) = -4.000	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.000	-.2323	-.0483	.0562	.3484	.3251	.1558	.0463
		.020			.2537	.2828	.2524	.2226	.1822
		.040		.0029	.2016				
		.050	-.1153			.0270	-.0248	.0051	-.0735
		.080				-.1113			
		.081			.0161				
		.086		.0716					
		.094	-.0594						
		.150				-.2009	-.3054	-.3285	-.4362
		.163		.1166					
		.177			-.1944				
		.229	-.0006						
		.246		-.1247					
		.250				-.3404	-.3851	-.5348	-.6747
		.274			-.2480				
		.362	.0172						
		.390		-.2147					
		.400				-.4042	-.4477		-.7971
		.402			-.3040				
		.497	-.1778						
		.550				-.3180	-.4065		
		.565			-.2172				
		.600							-.5807
		.650						-.4851	
		.700	-.1139				-.4953		
		.725				.0000			
		.750						-.4519	-.6191
		.760			-.3797				
		.775				-.4446	-.5307		
		.808			-.4167				
		.834	-.3743						
		.850				-.5006	-.5100	-.4746	
		.857			-.4942				
		.865	-.4076						
		.900	-.4937			-.4729			-.3674
		.905			-.4655		-.4756		
		.950				-.4493		-.3139	
		.955			-.4118				
		.965	-.4759						

ALPHA (2) = -.525 BETA (2) = -.603

2Y/B	.299	.364	.427	.534	.641	.780	.887
X/C							
.000	-.1524	.0356	.3308	.4831	.4687	.3891	.3045
.020			.3321	.2001	.1911	.1559	.1196
.040		.1112	.2087				
.050	-.0265			-.1146	-.1576	-.1227	-.1857
.080				-.2980			
.081			-.1198				

ORIGINAL PAGE IS
NOT FOR QUALITY

ARC11-014IA19 OTS+STRUT SRB-LOW HPS-NOM TOP WING (REUR09)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -0.525	BETA (2) = -0.003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.086		.1484					
		.094	.0294						
		.150				-.3202	-.4355	-.4960	-.5946
		.163		.1003					
		.177			-.4193				
		.229	.0328						
		.246		-.2360					
		.250				-.5414	-.6026	-.6821	-.8108
		.274			-.3982				
		.332	.0014						
		.390		-.3377					
		.400				-.5994	-.6437		-.9323
		.402			-.4418				
		.497	-.2549						
		.550				-.2973	-.3984		
		.565			-.1858				
		.600							-.6628
		.650						-.3782	
		.700	-.0790				-.4568		
		.725				.0000			
		.750						-.3436	-.5031
		.760			-.3022				
		.775				-.3875	-.4359		
		.808			-.3414				
		.834	-.2911						
		.850				-.4093	-.3748	-.2926	
		.857			-.3517				
		.865	-.3256						
		.900	-.3668			-.3746			-.2814
		.905			-.3430		-.3278		
		.950				-.3337		-.1573	
		.953			-.3062				
		.965	-.3005						

ALPHA (2) = -0.441 BETA (3) = 4.025

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.0554	.0252	.3999	.5751	.5275	.5261	.4565
.020			.2889	.0891	.0581	-.0080	-.0153
.040		.1246	.1226				
.050	.0286			-.2579	-.3591	-.3314	-.3524
.080				-.4954			
.081			-.2918				
.086		.1345					
.094	.0748						
.150				-.4885	-.5834	-.6201	-.7339

ARC11-014IA19 OTS+STRUT SRB-LOW MPS-NOM TOP WING

(REUR09)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.441 BETA (3) = 4.025

2Y/B X/C	.99	.364	.427	.534	.641	.780	.887
.163		.0301					
.177			-.5455				
.229	.0549						
.246		-.3202					
.257				-.7104	-.7791	-.8776	-.9649
.274			-.5734				
.362	-.0274						
.390		-.4681					
.400				-.7516	-.8833		-1.0487
.402			-.5943				
.497	-.4447						
.557				-.2913	-.3752		
.565			-.1849				
.600							-.6381
.657						-.4003	
.700	-.0800				-.2545		
.725				.0000			
.750						-.2102	-.5251
.767			-.2393				
.775				-.2653	-.2444		
.808			-.2763				
.834	-.2187						
.857				-.3346	-.3237	-.1569	
.857			-.3299				
.865	-.2612						
.900	-.3490			-.2699			-.3924
.905			-.2819		-.2413		
.957				-.2023		-.0386	
.953			-.2134				
.965	-.2330						

ALPHA (3) = 4.050 BETA (1) = .006

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.3534	-.1065	.3487	.5329	.4641	.4763	.3871
.020			.2383	.0133	-.0486	-.1675	-.2309
.040		.0562	.0730				
.050	-.0980			-.3306	-.4550	-.4878	-.5930
.080				-.5550			
.081			-.3419				
.086		.0798					
.094	-.0230						
.150				-.6217	-.7427	-.7883	-.8840
.163		-.0044					
.177			-.5815				
.229	-.0002						

ARC11-D14IA19 OTS+STRUT SRB-LCW MPS-NON TOP WING

(REUR09)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 4.059 BETA (1) = .006

2Y/B X/C	.299	.364	.427	.554	.641	.780	.887
.246		-.3461					
.250				-.7806	-.8462	-.9508	-1.0567
.274			-.6079				
.362	-.0574						
.390		-.5257					
.400				-.8434	-.9268		-1.0884
.402			-.6069				
.497	-.4752						
.550				-.3533	-.4540		
.565		-.2382					
.600							-.6665
.650						-.5324	
.700	-.1392				-.3335		
.725				.0000			
.750						-.4317	-.6470
.760			-.3219				
.775			-.3683	-.3165			
.808			-.3576				
.834	-.3178						
.850				-.3849	-.3633	-.3665	
.857			-.3566				
.865	-.3447						
.900	-.3857			-.3308			-.5997
.905			-.3258	-.2892			
.950				-.2858		-.2430	
.953			-.2854				
.965	-.3247						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-LOW MPS-NCM TOP WING

(REUR10) (19 OCT 74)

REFERENCE DATA

SREF = 2600.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -3.978	BETA (1) = -.006	2Y/B X/C	.299	.364	.427	.534	.641	.700	.807
		.000	-.3165	.0059	.4317	.5633	.5421	.3827	.2813
		.020			.4937	.4436	.4569	.4638	.4572
		.040		.1775	.4092				
		.050	-.2018			.1970	.2067	.2643	.2373
		.080				.0907			
		.081			.1650				
		.086		.2773					
		.094	-.0459						
		.150				.0405	-.0490	-.0299	-.0928
		.163		.3032					
		.177			-.1036				
		.229	.0024						
		.246		.0491					
		.250				-.1537	-.1794	-.2021	-.3035
		.274			-.0511				
		.362	.2086						
		.390		-.0094					
		.400				-.1576	-.1558		-.4172
		.402			-.0734				
		.497	.0249						
		.550				.0231	-.0564		
		.565			.1159				
		.600							-.2618
		.650						-.1222	
		.700	.2090				-.1122		
		.725				.0000			
		.750						-.0958	-.2697
		.760			.0105				
		.775				-.0574	-.1314		
		.808			-.0235				
		.834	.0185						
		.850				-.4639	-.3670	-.2184	
		.857			-.4660				
		.865	-.0214						
		.900	-.4264			-.3981			-.0324
		.905			-.4301		-.2732		
		.950				-.3320		-.0900	
		.953			-.3556				
		.965	-.4018						

ARC11-014IA19 QTS+STRUT SRB-LOW MPS-NCM TOP WING

(REUR10)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.387 BETA (1) = -4.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.5007	.0085	.2390	.5536	.5078	.3705	.2947
.020			.3150	.4044	.3909	.3812	.3729
.040		.0772	.2975				
.050	-.2723			.1690	.1480	.1792	.1492
.080				.0450			
.081			.1829				
.086		.1565					
.094	-.1123						
.150				.0045	-.0778	-.0826	-.1612
.163		.2504					
.177			-.0018				
.229	.0502						
.246		.0699					
.250				-.1063	-.1553	-.2319	-.3484
.274			-.0314				
.362	.1696						
.390		-.0041					
.400				-.1548	-.1704		-.4601
.402			-.0455				
.497	.0226						
.550				-.0269	-.1051		
.565			.0620				
.600							-.3050
.650						-.1923	
.700	.1443				-.1559		
.725				.0000			
.750						-.1555	-.3275
.760			-.0677				
.775				-.1195	-.1908		
.808			-.1016				
.834	-.0614						
.850				-.5198	-.4250	-.2980	
.857			-.4993				
.865	-.0978						
.900	-.4565			-.4651			-.1078
.905			-.4692		-.3384		
.950				-.3994		-.1664	
.953			-.4006				
.965	-.4383						

ALPHA (2) = -.429 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.3212	-.0512	.4946	.6619	.6228	.5975	.5403
.020			.4425	.3245	.3050	.2843	.2773
.040		.1890	.3227				
.050	-.1997			.0500	-.0208	.0415	.0063
.080				-.1443			
.081			.0085				



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ARC11-014IA19 OTS+STRUT SRB-LCW MPS-NOM TOP WING (REUR10)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.429	BETA (2) = .009	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.086		.2534					
		.094	-.1355						
		.150				-.1412	-.1910	-.2347	-.3242
		.163		.2434					
		.177			-.2014				
		.229	.0321						
		.246		-.0194					
		.250				-.3192	-.3774	-.4352	-.5202
		.274			-.2195				
		.362	.1817						
		.390		-.1680					
		.400				-.3969	-.4457		-.6174
		.402			-.2411				
		.497	-.1276						
		.550				-.0132	-.0885		
		.565			.0730				
		.600							-.6067
		.650						-.1075	
		.700	.1574				-.1154		
		.725				.0000			
		.750						-.0719	-.2358
		.760			.0007				
		.775				-.0685	-.1316		
		.808			-.0342				
		.834	.0202						
		.850				-.4523	-.3414	-.1568	
		.857			-.4500				
		.865	-.0204						
		.900	-.4189			-.3797			-.0797
		.905			-.4225		-.2526		
		.950				-.3117		-.0364	
		.953			-.3503				
		.965	-.3961						

ALPHA (2) = -.384 BETA (3) = 4.028

2Y/B	.299	.364	.427	.534	.641	.780	.887
X/C							
.000	-.0943	.0309	.5243	.7190	.6678	.6863	.6396
.020			.4228	.2583	.2346	.1822	.1596
.040		.2195	.2676				
.050	-.0112			-.0341	-.1175	-.1036	-.1491
.080				-.2258			
.081			-.1607				
.086		.2501					
.094	.0792						
.150				-.4095	-.3949	-.3762	-.4417

SECTION (1) TOP WING		ARC11-014IA19 OTS+STRUT SRB-LOW MPS-NOM TOP WING								(REUR10)
DEPENDENT VARIABLE CP										
ALPHA (2) = -.384	BETA (3) = 4.028	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.163		.1893						
		.177				-.3148				
		.229	.1425							
		.246		-.1089						
		.250				-.4829	-.5457	-.5708	-.6130	
		.274				-.3760				
		.362	.1544							
		.390		-.2864						
		.400				-.5594	-.6599		-.7212	
		.402				-.4312				
		.497	-.2036							
		.550				-.2099	-.4593			
		.565				-.0761				
		.600								-.6669
		.650							-.6077	
		.700	.0395				-.2763			
		.725				.0000				
		.750						-.4283	-.6332	
		.760				.0385				
		.775				-.0501	-.2748			
		.808				.0023				
		.834	.0677							
		.850				-.4003	-.2482	-.2884		
		.857				-.4174				
		.865	.0302							
		.900	-.4112			-.2893			-.4901	
		.905				-.3954	-.1638			
		.950				-.1962		-.1312		
		.953				-.2923				
		.965	-.3905							
ALPHA (3) = 3.930	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.000	-.3161	-.1977	.4573	.6644	.6054	.6309	.5508	
		.020			.3721	.1821	.1431	.0373	-.0369	
		.040		.1460	.2177					
		.050	-.1805			-.0913	-.1946	-.2350	-.3227	
		.080				-.2654				
		.081				-.1867				
		.086		.2083						
		.094	-.1218							
		.150				-.4405	-.4534	-.4657	-.5517	
		.163		.1691						
		.177				-.3117				
		.229	.1106							

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-LCW MPS-NOM TCF WING

(REUR10)

SECTION (1) TCF WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.930 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		-.1096					
.250				-.4953	-.5799	-.6411	-.6969
.274			-.3511				
.362	.1571						
.390		-.2602					
.400				-.5428	-.6678		-.7815
.402			-.4091				
.497	-.1829						
.550				-.1869	-.3406		
.565		-.0769					
.600							-.7571
.650						-.6436	
.700	.0367				-.2361		
.725				.0000			
.750						-.4539	-.7484
.760			-.0370				
.775			-.1071	-.2229			
.808			-.0727				
.834	-.0149						
.850				-.4451	-.3014	-.2711	
.857		-.4592					
.865	-.0374						
.900	-.4600			-.3669			-.6568
.905			-.4437	-.2167			
.950			-.2914		-.0304		
.953		-.3853					
.965	-.4396						

ARC11-014IA19 OTS+STRUT SRB-LOW MPS-NOM TOP WING

(REUR11) (19 OCT 74)

REFERENCE DATA

SREF = 2650.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.746 BETA (1) = .006

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2136	-.0103	.1867	.4594	.4569	.3111	.2193
.020			.3748	.4354	.4349	.4484	.4532
.040		.0225	.3211				
.050	-.1786			.2094	.1873	.2733	.2693
.080				.0421			
.081			.1078				
.086		.0679					
.094	-.1186						
.150				-.0093	-.0386	-.0442	-.0491
.163		.1571					
.177			-.0932				
.229	-.0302						
.246		-.0051					
.250				-.2097	-.2184	-.2200	-.2493
.274			-.1521				
.362	.0209						
.390		-.1453					
.400				-.3204	-.3506		-.4212
.402			-.2413				
.497	-.1063						
.550				-.0506	-.2254		
.565			.0500				
.600							-.4598
.650						-.3540	
.700	.1341				-.0308		
.725				.0000			
.750						-.1929	-.4040
.760			.0704				
.775				.0450	-.0245		
.808			.0442				
.834	.0588						
.850				-.3369	-.2269	-.1745	
.857			-.3421				
.865	.0270						
.900	-.3310			-.2999			-.2167
.905			-.3186		-.1740		
.950				-.2459		-.0638	
.953			-.2708				
.965	-.2976						

ARC11-014IA19 QTS+STRUT SRB-LOW MPS-NOM TOP WING

(REUR11)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.444 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.3515	-.1465	.1675	.4517	.4456	.3208	.2311
.020			.2374	.3563	.3404	.3335	.3307
.040		-.1036	.1906				
.050	-.2550			.1357	.0830	.1542	.1414
.080				-.0335			
.081			.0355				
.086		-.0318					
.094	-.1903						
.150				-.0732	-.0986	-.1409	-.1632
.163		.0664					
.177			-.1555				
.229	-.0925						
.246		-.0667					
.250				-.2532	-.2749	-.2993	-.3334
.274			-.1842				
.362	-.0476						
.390		-.1766					
.400				-.3580	-.3899		-.4817
.402			-.2678				
.497	-.1392						
.550				-.0711	-.2034		
.565			.0236				
.600							-.5076
.650						-.2902	
.700	.0844				-.0718		
.725				.0000			
.750						-.2248	-.3750
.760			-.0052				
.775				-.0158	-.0670		
.808			-.0290				
.834	-.0099						
.850				-.3788	-.2677	-.2071	
.857			-.3743				
.865	-.0393						
.900	-.3532			-.3451			-.2129
.905			-.3578		-.2128		
.950				-.2960		-.1013	
.953			-.3084				
.965	-.3298						

ALPHA (2) = -.402 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2005	-.0927	.3251	.5948	.5815	.4742	.3909
.020			.3516	.3490	.3424	.3241	.3375
.040		-.0142	.2354				
.050	-.1700			.1022	.0466	.0965	.0999
.080				-.0743			
.081			-.0703				

ARC11-014IA19 OTS+STRUT SRB-LCW NPS-NQM TOP WING

(REUR11)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.402 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.87
.086		.0211					
.094	-.1031						
.150				-.2102	-.2184	-.1827	-.1985
.163		.0749					
.177			-.2083				
.229	-.0538						
.246		-.0894					
.250				-.3306	-.3160	-.3583	-.3838
.274			-.2649				
.362	-.0354						
.390		-.2178					
.400				-.4139	-.4745		-.5156
.402			-.3061				
.497	-.1530						
.550				-.4122	-.4929		
.565			-.2765				
.600							-.5344
.650						-.5733	
.700	-.0802				-.2307		
.725				.0000			
.750						-.5509	-.5354
.760			.0292				
.775				-.0616	-.2397		
.808			.0058				
.834	.0386						
.850				-.3381	-.2714	-.3372	
.857			-.3427				
.865	.0094						
.900	-.3437			-.3040			-.3270
.905			-.3288		-.2172		
.950				-.2471		-.1974	
.953			-.2873				
.965	-.3246						

ALPHA (2) = -.324 BETA (3) = 4.034

2Y/B X/C	.299	.364	.427	.534	.641	.780	.867
.000	-.0868	-.0357	.4731	.7136	.6742	.6751	.6518
.020			.4186	.3199	.3360	.3272	.3231
.040		.0609	.2731				
.050	-.0754			.0593	.0165	.0726	-.0428
.080				-.0980			
.081			-.0823				
.086		.0926					
.094	-.0128						
.150				-.2864	-.2573	-.2191	-.2439



ARC11-014IA19 OTS+STRUT SRB-LOW MPS-NOM TOP WING

(REUR11)

SECTION (1) TOP WING	DEPENDENT VARIABLE CP								
ALPHA (2) = -0.324 BETA (3) = 4.034	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
	.163		.1397						
	.177			-.2401					
	.229	.0094							
	.246		-.0726						
	.250				-.3800	-.4053	-.3932	-.4199	
	.274			-.3336					
	.362	.0512							
	.390		-.2562						
	.400				-.5099	-.5096		-.5363	
	.402			-.3809					
	.497	-.1597							
	.550				-.4914	-.5838			
	.565			-.3934					
	.600							-.5638	
	.690						-.5966		
	.700	-.2940				-.3884			
	.725				.0000				
	.750						-.5683	-.6271	
	.760			-.0462					
	.775				-.2399	-.3403			
	.808			-.0459					
	.834	.0698							
	.850				-.3379	-.2383	-.4166		
	.857			-.2932					
	.865	.0517							
	.900	-.3189			-.2690			-.4415	
	.905			-.2774		-.2654			
	.930				-.1981		-.3398		
	.953			-.2249					
	.965	-.2972							
ALPHA (3) = 3.552 BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
	.000	-.2115	-.2556	.3228	.6467	.5934	.6513	.6350	
	.020			.2987	.2096	.2045	.1830	.1427	
	.040		-.0825	.1498					
	.050	-.1402			-.0654	-.1098	-.0684	-.1357	
	.080				-.2267				
	.081			-.1604					
	.086		-.0409						
	.094	-.1197							
	.150				-.3715	-.3416	-.3224	-.3623	
	.163		.0152						
	.177			-.3033					
	.229	-.0948							

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ARC11-014IA19 OTS+STRUT SRB-LCW MPS-NOM TOP WING

(REUR11)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.552	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		-.1552					
		.297				-.4441	-.4766	-.4737	-.5731
		.274			-.3743				
		.362	-.0651						
		.390		-.2787					
		.400				-.5201	-.5538		-.6011
		.402			-.3768				
		.497	-.1912						
		.520				-.4789	-.5970		
		.565			-.3768				
		.600							-.6111
		.650						-.6456	
		.700	-.2470				-.3387		
		.725				.0000			
		.750						-.6160	-.6315
		.760			-.0499				
		.775				-.2163	-.3311		
		.808			-.0569				
		.834	.0096						
		.850				-.3560	-.3035	-.4298	
		.857			-.3395				
		.865	-.0007						
		.900	-.3572			-.3060			-.4501
		.905			-.3286		-.2626		
		.950				-.2445		-.3804	
		.953			-.2856				
		.965	-.3413						

ARC11-014IA19 OTS+STRUT SRB-LOW MPS-NOM TOP WING

(REUR12) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.122	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.1508	-.0451	.2406	.4913	.5086	.3931	.2781
		.020			.3803	.4562	.4612	.4631	.4868
		.040		.0203	.2923				
		.060	-.1066			.2354	.2153	.2954	.3194
		.080				.0795			
		.100			.0526				
		.120		.0665					
		.134	-.0963						
		.150				-.0180	.0003	.0338	.0191
		.163		.1320					
		.177			-.0820				
		.229	-.0171						
		.246		.0124					
		.250				-.1729	-.1554	-.1438	-.1530
		.274			-.1450				
		.362	.0013						
		.390		-.1322					
		.400				-.2672	-.2940		-.3122
		.402			-.2044				
		.497	-.0955						
		.550				-.3020	-.3306		
		.565			-.2173				
		.600							-.3618
		.650						-.3749	
		.700	-.0018				-.1673		
		.725				.0000			
		.750						-.3608	-.4872
		.760			.0574				
		.775				-.0205	-.1452		
		.808			.0415				
		.834	.0632						
		.850				-.1968	-.1564	-.2899	
		.857			-.2112				
		.865	.0340						
		.900	-.2229			-.1523			-.2792
		.905			-.1952		-.1130		
		.950				-.1149		-.2274	
		.953			-.1609				
		.965	-.1966						

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ARC11-014IA19 OTS+STRUT SRB-LCW MPS-NOM TOP WING

(REUR12)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.396 BETA (1) = -4.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2596	-.1416	.1696	.4789	.4732	.3557	.2685
.020			.2466	.3739	.3672	.3451	.3619
.040		-.0722	.1955				
.050	-.2058			.1681	.1256	.1733	.1815
.080				.0088			
.081			.0089				
.086		-.0126					
.094	-.1748						
.150				-.1021	-.1026	-.0640	-.0822
.163		.0616					
.177			-.1281				
.229	-.0616						
.246		-.0549					
.250				-.2359	-.2217	-.2239	-.2424
.274			-.1896				
.362	-.0416						
.390		-.1700					
.400				-.3103	-.3406		-.3698
.402			-.2332				
.497	-.1364						
.550				-.3248	-.3623		
.565			-.2279				
.600							-.4055
.650						-.4135	
.700	-.0409				-.1708		
.725				.0000			
.750						-.3966	-.5108
.760			.0267				
.775				-.0268	-.1630		
.808			.0064				
.834	.0305						
.890				-.2563	-.1901	-.2926	
.857			-.2598				
.865	.0002						
.900	-.2479			-.2160			-.2945
.905			-.2411		-.1378		
.950				-.1747		-.2353	
.953			-.2064				
.965	-.2306						

ALPHA (2) = -.378 BETA (2) = .006

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1216	-.0946	-.2892	.6167	.5913	.5137	.4194
.020			.3360	.3829	.3980	.3940	.4119
.040		.0072	.2312				
.050	-.1031			.1408	.1255	.1896	.1855
.080				-.0051			
.081			-.0224				

ARC11-014IA19 OTS+STRUT SRB-LOW MPS-NOM TOP WING

(REUR12)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.378 BETA (2) = .006

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.086		.0447					
.094	-.0084						
.150				-.1459	-.1287	-.0695	-.0022
.163		.0913					
.177			-.1559				
.229	-.0398						
.246		-.0518					
.257				-.2602	-.2548	-.2570	-.2545
.274			-.2336				
.362	-.0123						
.390		-.1957					
.400				-.3653	-.3759		-.3881
.402			-.2724				
.497	-.1370						
.550				-.3656	-.4301		
.565		-.2884					
.600							-.4382
.650						-.4445	
.700	-.2089				-.3823		
.725				.0000			
.750						-.4405	-.5130
.760			-.0287				
.775				-.1586	-.3158		
.808			-.0350				
.834	.0400						
.850				-.2526	-.2151	-.3363	
.857		-.2228					
.865	.0218						
.900	-.2375			-.2040			-.3351
.915			-.2135		-.1882		
.950				-.1540		-.2845	
.953			-.1806				
.965	-.2254						

ALPHA (2) = -.315 BETA (3) = 4.025

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.0097	-.0106	.4136	.7443	.7010	.6577	.5772
.020			.4143	.4018	.4155	.4196	.4372
.040		.0723	.2842				
.050	-.0123			.1382	.1153	.1868	.1843
.080				-.0267			
.081			.0003				
.086		.0972					
.094	.0045						
.150				-.1790	-.1443	-.0826	-.0965

ORIGINAL PAGE IS
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ARC11-014IA19 OTS+STRUT SRB-LCW MFS-NOM TOP WING

(REUR12)

SECTION (1) TOP WING		DEPENDENT VARIABLE CP									
ALPHA (2) =	-0.315	BETA (3) =	4.025	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.163		.1294					
				.177			-.1521				
				.229	.0076						
				.246		-.0284					
				.250				-.2724	-.2831	-.2595	-.2664
				.274							
				.362	.0321						
				.390		-.1887					
				.400				-.3997	-.3903		-.3979
				.402							
				.497	-.1031						
				.550				-.3895	-.4908		
				.565							
				.600							
				.650							
				.650							-.4331
				.700	-.2280					-.4693	
				.725							
				.750							
				.760							
				.760				-.1178			
				.775					-.2382	-.4380	
				.808							
				.834	.0103						
				.850					-.2977	-.2974	-.4364
				.857							
				.865	.0080						
				.900	-.2161				-.2483		-.4234
				.905							
				.905				-.2017	-.2704		
				.950							
				.950				-.2101		-.3096	
				.953							
				.955	-.1881			-.1454			
ALPHA (3) =	4.005	BETA (1) =	.000	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.000	-.1548	-.2593	.2707	.6692	.6270	.6312	.5866
				.020			.2656	.2777	.2862	.2739	.2687
				.040		-.0777	.1636				
				.050	-.1002			.0184	-.0112	.0361	.0047
				.080					-.1349		
				.081							
				.086							
				.086		-.0415					
				.094	-.0808						
				.150							
				.150				-.3020	-.2907	-.2073	-.2326
				.163			.0137				
				.177							
				.177							
				.229	-.0766						



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TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-LOW MPS-NOM TOP WING

(REUR12)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 4.005	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		-.1264					
		.257				-.3551	-.3811	-.3625	-.3706
		.274			-.3366				
		.362	-.0499						
		.397		-.2716					
		.400				-.4600	-.4773		-.4766
		.402			-.3601				
		.497	-.1839						
		.557				-.4585	-.5072		
		.565			-.3623				
		.607							-.5002
		.657						-.5378	
		.700	-.2841				-.5123		
		.725				.0000			
		.757						-.5310	-.5193
		.760			-.1694				
		.775				-.2634	-.4687		
		.808			-.1705				
		.834	-.0125						
		.857				-.3249	-.2769	-.4107	
		.857			-.2730				
		.865	-.0229						
		.900	-.2573			-.2813			-.4787
		.915			-.2427		-.2576		
		.957				-.2379		-.3598	
		.953			-.1970				
		.965	-.2492						

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-0141A19 OTS+STRUT SRB-NOM MPS-OFF TOP WING

(REUR13) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 ZREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.119	BETA (1) = -.003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.0776	.0681	.1795	.3456	.3242	.1032	-.0483
		.020			.3684	.3371	.3340	.3157	.2756
		.040		.1341	.2860				
		.050	.0168			.0832	.0564	.0996	.0355
		.080				-.0688			
		.081			.0184				
		.086		.1877					
		.094	.0708						
		.150				-.1567	-.2401	-.2508	-.3539
		.163		.1785					
		.177			-.1904				
		.229	.0781						
		.246		-.1267					
		.250				-.2987	-.3613	-.4898	-.6128
		.274			-.2567				
		.362	.0665						
		.390		-.2023					
		.400				-.3609	-.3781		-.6532
		.402			-.3144				
		.497	-.1561						
		.550				-.2575	-.3561		
		.565		-.1639					
		.600							-.4818
		.650						-.3952	
		.700	-.0366				-.4498		
		.725				.0000			
		.750						-.3802	-.4079
		.760			-.3016				
		.775				-.3776	-.4396		
		.808		-.3427					
		.834	-.2800						
		.850				-.3454	-.4159	-.3648	
		.857			-.3710				
		.865	-.3163						
		.900	-.3171			-.3179			-.1207
		.905			-.3415		-.3748		
		.950				-.2887		-.2068	
		.953			-.3035				
		.965	-.2681						

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-OFF TOP WING

(REUR13)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -3.390 BETA (1) = -3.997

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2310	-.0371	.0657	.3550	.3201	.1338	.0213
.020			.2610	.2796	.2606	.2163	.1675
.040		.0164	.2168				
.050	-.1100			.0270	-.0216	-.0069	-.0889
.080				-.1186			
.081			.0229				
.086		.0837					
.094	-.0496						
.151				-.2025	-.3031	-.3157	-.4431
.163		.1298					
.177			-.1913				
.229	.0080						
.246		-.1142					
.250				-.3431	-.3887	-.5402	-.6882
.274			-.2494				
.362	.0249						
.390		-.2047					
.400				-.4001	-.4480		-.8045
.402			-.3043				
.497	-.1715						
.550				-.3201	-.4060		
.565			-.2196				
.600							-.5703
.650						-.4901	
.700	-.1072				-.5046		
.725				.0000			
.750						-.4581	-.5116
.760			-.3805				
.775				-.4501	-.5333		
.808			-.4172				
.834	-.3710						
.850				-.3853	-.4237	-.4124	
.857			-.4183				
.865	-.3972						
.900	-.3770			-.3752			-.2660
.905			-.3895		-.3953		
.950				-.3495		-.2651	
.953			-.3669				
.965	-.3381						

ALPHA (2) = -3.378 BETA (2) = .016

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1659	.0377	.3319	.4939	.4713	.3850	.2942
.020			.3329	.2093	.1898	.1499	.1144
.040		.1166	.2097				
.050	-.0165			-.1058	-.1610	-.1295	-.1795
.080				-.2877			
.081			-.1161				

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-OFF TOP WING

(REUR13)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.370	BETA (2) = .016	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.086		.1526					
		.094	.0417						
		.151				-.3123	-.4360	-.4829	-.5909
		.163		.1082					
		.177			-.4227				
		.229	.0459						
		.246		-.2292					
		.250				-.5295	-.6114	-.6997	-.8039
		.274			-.4045				
		.362	.0135						
		.390		-.3338					
		.400				-.5885	-.6436		-.9089
		.402			-.4407				
		.497	-.2450						
		.590				-.2890	-.3938		
		.565			-.1790				
		.600							-.6135
		.650						-.3931	
		.700	-.0683				-.4524		
		.725				.0000			
		.750						-.3502	-.4472
		.760			-.2958				
		.775				-.3795	-.4487		
		.808			-.3320				
		.834	-.2775						
		.850				-.3553	-.3704	-.2986	
		.857			-.3258				
		.865	-.3113						
		.900	-.3024			-.3224			-.2362
		.905			-.2955		-.3230		
		.950				-.2941		-.1216	
		.953			-.2647				
		.965	-.2601						

ALPHA (2) = -.327	BETA (3) = 4.028	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.0820	.0320	.3895	.5663	.5214	.5748	.4381
		.020			.2758	.0685	.0436	-.0324	-.0464
		.040		.1285	.1079				
		.050	.0320			-.2859	-.3749	-.3581	-.3878
		.080				-.5255			
		.081			-.3146				
		.086		.1332					
		.094	.0811						
		.150				-.4952	-.5573	-.6349	-.7705

ARC11-014IA19 OTS+STRUT SRB-NON MPS-OFF TOP WING (REUR13)

SECTION (1) TOP WING

DEPENDENT VARIABLE C_p

ALPHA (2) = -.327 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.163		.0326					
.177			-.5700				
.229	.0587						
.246		-.3348					
.291				-.6720	-.7944	-.9055	-.9992
.274			-.5946				
.362	-.0329						
.390		-.4586					
.400				-.7749	-.8807		-.9853
.402			-.6131				
.497	-.4224						
.550				-.2840	-.3667		
.565			-.2006				
.600							-.5585
.650						-.4467	
.700	-.0714				-.2547		
.725				.0000			
.750						-.2849	-.4020
.760			-.2459				
.775				-.2395	-.2661		
.808			-.2805				
.834	-.1920						
.850				-.2455	-.3477	-.1897	
.857			-.3290				
.865	-.2368						
.900	-.2832			-.1801			-.2176
.905			-.2761		-.2340		
.950				-.1241		-.0466	
.953			-.2042				
.965	-.1752						

ALPHA (3) = 3.909 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.3568	-.1092	.3454	.5259	.4572	.4617	.3757
.020			.2341	.0025	-.0580	-.1810	-.2499
.040		.0506	.0629				
.050	-.1067			-.3457	-.4673	-.5076	-.6043
.080				-.5690			
.081			-.3584				
.086		.0762					
.094	-.0276						
.150				-.6107	-.7438	-.7922	-.9043
.163		-.0078					
.177			-.5951				
.229	-.0015						

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ARC11-014IA19 OTS+STRUT SRB-NOM HPS-OFF TOP WING

(REUR13)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.909 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		-3.530					
.250				-7.643	-8.588	-9.922	-1.0797
.274			-6.201				
.362	-0.0596						
.390		-5.221					
.400				-7.659	-9.350		-1.0627
.402			-6.097				
.497	-4.713						
.550				-3.732	-4.593		
.565		-2.654					
.600							-61.76
.650						-5.471	
.700	-1.503				-3.426		
.725				0.000			
.750						-4.527	-5.5973
.760			-3.372				
.775				-3.371	-3.177		
.808			-3.691				
.834	-3.178						
.850				-2.997	-3.073	-3.956	
.857			-3.597				
.865	-3.420						
.900	-2.867			-2.532			-51.94
.905			-3.154		-2.771		
.950				-2.156		-2.602	
.953			-2.750				
.965	-2.382						

ARC11-014IA19 QTS+STRUT SRB-NCM MFS-OFF TOP WING

(REUR14) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -5.142 BETA (1) = -.006

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.3107	.0367	.3865	.5200	.4979	.3217	.1955
.020			.4952	.4633	.4803	.4948	.4891
.040		.1843	.4210				
.060	-.1818			.2341	.2408	.3143	.2906
.080				.1080			
.081			.1916				
.086		.2762					
.094	-.0077						
.150				.0492	-.0181	.0385	-.0387
.163		.3130					
.177			-.0743				
.229	.0280						
.246		.0627					
.250				-.0980	-.0644	-.1625	-.2676
.274			-.0407				
.362	.2119						
.390		.0039					
.400				-.0992	-.1041		-.3999
.402			-.0481				
.497	.0561						
.550				.0290	-.0433		
.565			.1159				
.600							-.2527
.650						-.1305	
.700	.2133				-.1119		
.725				.0020			
.750						-.1019	-.2940
.760			.0077				
.775				-.0590	-.1347		
.808			-.0270				
.834	.0149						
.850				-.4727	-.3811	-.2357	
.857			-.4717				
.865	-.0245						
.900	-.4229			-.4090			-.0384
.905			-.4309		-.2852		
.950				-.3389		-.1053	
.953			-.3491				
.965	-.3875						

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-OFF TOP WING

(REUR14)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.321 BETA (1) = -4.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.5032	.0153	.2277	.5541	.5027	.3615	.2864
.020			.3133	.4062	.3898	.3782	.3720
.040		.0763	-.2982				
.050	-.2728			.1727	.1442	.1803	.1518
.080				.0422			
.081			.1871				
.086		.1535					
.094	-.1091						
.150				.0209	-.0808	-.0829	-.1605
.163		.2487					
.177			.0018				
.229	.0492						
.246		.0699					
.250				-.1122	-.1591	-.2358	-.3541
.274			-.0369				
.362	.1702						
.390		-.0044					
.400				-.1595	-.1722		-.4604
.402			-.0447				
.497	.0221						
.550				-.0303	-.1075		
.565			.0590				
.600							-.3067
.650						-.1956	
.700	.1419				-.1588		
.725				.0000			
.750						-.1585	-.3317
.760			-.0707				
.775				-.1239	-.1934		
.808			-.1030				
.834	-.0660						
.850				-.5235	-.4289	-.3017	
.857			-.5019				
.865	-.1001						
.900	-.4475			-.4678			-.1109
.905			-.4681		-.3428		
.950				-.3984		-.1711	
.953			-.3871				
.965	-.4273						

ALPHA (2) = -.432 BETA (2) = .016

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.3249	-.0101	.4974	.6612	.6234	.5906	.5319
.020			.4476	.3303	.3107	.2885	.2779
.040		.2008	.3300				
.050	-.2018			.0527	-.0170	.0467	.0143
.080				-.1424			
.081			.0172				

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-OFF TOP WING

(REUR14)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.432	BETA (2) = .016	2Y/B X/C	.299	.364	.427	.534	.641	.730	.887
		.086		.2612					
		.094	-.1349						
		.150				-.1356	-.1938	-.2375	-.3252
		.163		.2476					
		.177			-.1968				
		.229	.0697						
		.246		-.0169					
		.250				-.3166	-.3748	-.4360	-.5177
		.274			-.2173				
		.362	.1861						
		.390		-.1637					
		.400				-.3815	-.4503		-.6168
		.402			-.2331				
		.497	-.1261						
		.550				-.0146	-.0890		
		.565			.0712				
		.630							-.6043
		.680						-.1183	
		.700	.1565				-.1185		
		.725				.0000			
		.750						-.0770	-.2367
		.760			-.0031				
		.775				-.0714	-.1393		
		.808			-.0391				
		.834	.0155						
		.850				-.4588	-.3459	-.1680	
		.857			-.4538				
		.865	-.0237						
		.900	-.4145			-.3834			-.0740
		.905			-.4234		-.2593		
		.950				-.3126		-.0399	
		.953			-.3410				
		.965	-.3812						

ALPHA (2) = -.396	BETA (3) = 4.025	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.0855	.0339	.5275	.7225	.6731	.6857	.6392
		.020			.4255	.2589	.2396	.1814	.1638
		.040		.2203	.2688				
		.050	-.0091			-.0342	-.1166	-.1000	-.1512
		.080				-.2279			
		.081			-.1601				
		.086		.2510					
		.094	.0916						
		.150				-.4124	-.3966	-.3757	-.4419

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ARC11-014IA19 OTS+STRUT SRB-NOM MPS-CFF TOP WING

(REUR14)

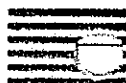
SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.396	BETA (3) = 4.025	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.163		.1895					
		.177			-.3156				
		.229	.1428						
		.246		-.1088					
		.250				-.4861	-.5458	-.5725	-.6154
		.274			-.3772				
		.362	.1534						
		.390		-.2876					
		.400				-.5628	-.6639		-.7257
		.402			-.4350				
		.497	-.2056						
		.550				-.2104	-.4389		
		.565			-.0693				
		.600							-.6712
		.650						-.6077	
		.700	.0405				-.2781		
		.725				.0000			
		.750						-.4263	-.6347
		.760			.0357				
		.775				-.0450	-.2714		
		.808			.0003				
		.834	.0665						
		.850				-.4071	-.2533	-.2881	
		.857			-.4219				
		.865	.0279						
		.900	-.4073			-.2962			-.4903
		.905				-.3962	-.1653		
		.950				-.1986		-.1227	
		.953			-.2885				
		.965	-.3853						

ALPHA (3) = 3.864 BETA (1) = .003

2Y/B	.299	.364	.427	.534	.641	.780	.887
X/C							
.000	-.3192	-.1627	.4628	.6655	.6092	.6284	.5484
.020			.3733	.1835	.1446	.0393	-.0400
.040		.1506	.2198				
.050	-.1792			-.0910	-.1947	-.2280	-.3255
.080				-.2653			
.081			-.1856				
.086		.2107					
.094	-.1169						
.150				-.4372	-.4536	-.4665	-.5497
.163		.1730					
.177			-.3115				
.229	.1256						



ARC11-014IA19 OTS+STRUT SRB-NOM MPS-OFF TOP WING

(REUR14)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.864	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		-.1076					
		.250				-.4956	-.5795	-.6397	-.6941
		.274			-.3492				
		.362	.1572						
		.390		-.2617					
		.400				-.5446	-.6712		-.7838
		.402			-.4117				
		.497	-.1846						
		.550				-.1922	-.3391		
		.565			-.0795				
		.600							-.7560
		.650						-.6434	
		.700	.0326				-.2441		
		.725				.0000			
		.750						-.4404	-.7468
		.760			-.0379				
		.775				-.1058	-.2340		
		.808			-.0732				
		.834	-.0179						
		.850				-.4480	-.3019	-.2556	
		.857			-.4601				
		.865	-.0412						
		.900	-.4533			-.3658			-.6574
		.905			-.4437		-.2173		
		.950				-.2881		-.0313	
		.953			-.3754				
		.965	-.4250						

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ARC11-014IA19 OTS+STRUT SRB-NOM MPS-OFF TOP WING

(REL15) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.113 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1898	-.0112	.1997	.4783	.4713	.3365	.2498
.020			.3708	.4322	.4261	.4497	.4512
.040		.0274	.2996				
.050	-.1745			.2081	.1719	.2707	.2679
.080				.0376			
.081			.0817				
.086		.0655					
.094	-.1184						
.150				-.0078	-.0357	-.0385	-.0530
.163		.1453					
.177			-.1016				
.229	-.0250						
.246		-.0175					
.250				-.2123	-.2191	-.2197	-.2468
.274			-.1582				
.362	.0097						
.390		-.1479					
.400				-.3239	-.3435		-.4151
.402			-.2368				
.497	-.1071						
.550				-.0737	-.3294		
.565		.0365					
.600							-.4517
.650						-.4330	
.700	.1235				-.0545		
.725				.0000			
.750						-.2357	-.4354
.760			.0735				
.775				.0472	-.0380		
.808		.0473					
.834	.0568						
.850				-.2964	-.1976	-.1834	
.857			-.3063				
.865	.0286						
.900	-.2915			-.2611			-.2270
.905			-.2818		-.1484		
.950				-.2103		-.0653	
.953			-.2360				
.965	-.2671						

ARC11-014IA19 OTS+STRUT SRB-NCM MPS-OFF TOP WING

(REUR15)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.390 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.3510	-.1388	.1683	.4513	.4476	.3242	.2394
.020			.2371	.3597	.3454	.3355	.3325
.040		-.0984	.1903				
.050	-.2919			.1387	.0857	.1611	.1440
.080				-.0299			
.081			.0308				
.086		-.0287					
.094	-.1883						
.150				-.0715	-.0920	-.1247	-.1568
.163		.0636					
.177			-.1533				
.229	-.0870						
.246		-.0668					
.250				-.2503	-.2686	-.2917	-.3251
.274			-.1815				
.362	-.0516						
.390		-.1781					
.400				-.3535	-.3859		-.4771
.402			-.2613				
.497	-.1368						
.550				-.0805	-.2288		
.565			.0219				
.600							-.5021
.650						-.3046	
.700	.0850				-.0804		
.725				.0000			
.750						-.2365	-.3750
.760			-.0021				
.775				-.0158	-.0673		
.808			-.0260				
.834	-.0062						
.850				-.3524	-.2464	-.2036	
.857			-.3465				
.865	-.0366						
.900	-.3165			-.3172			-.2300
.905			-.3278		-.1967		
.950				-.2713		-.0994	
.953			-.2820				
.965	-.3033						

ALPHA (2) = -.363 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1866	-.0004	.3138	.5938	.5845	.4831	.3992
.020			.3514	.3562	.3553	.3356	.3467
.040		-.0055	.2363				
.050	-.1657			.1139	.0595	.1095	.1102
.080				-.0605			
.081			-.0636				

ARC11-014IA19 QTS+STRUT SRB-NOM MPS-OFF TOP WING

(REUR15)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) =	BETA (2) =	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.086		.0300					
		.094	-.1001						
		.150				-.1991	-.2022	-.1617	-.1852
		.163		.0763					
		.177			-.2012				
		.229	-.0453						
		.246		-.0845					
		.250				-.3233	-.3041	-.3454	-.3689
		.274			-.2526				
		.362	-.0755						
		.390		-.2138					
		.400				-.3991	-.4589		-.5002
		.402			-.2921				
		.497	-.1510						
		.550				-.4000	-.4782		
		.565			-.2638				
		.600							-.5312
		.650						-.5565	
		.700	-.0651				-.2224		
		.725				.0200			
		.750						-.5349	-.5157
		.760			.0380				
		.775				-.0518	-.2270		
		.808			.0150				
		.834	.0478						
		.850				-.2984	-.2524	-.3180	
		.857			-.3058				
		.865	.0181						
		.900	-.3018			-.2633			-.3165
		.905			-.2888		-.1859		
		.950				-.2117		-.1831	
		.953			-.2478				
		.965	-.2895						

ALPHA (2) = -.294 BETA (3) = 4.028

2Y/B	.299	.364	.427	.534	.641	.780	.887
X/C							
.000	-.0663	-.0432	.4605	.7102	.6701	.6597	.6408
.020			.4187	.3239	.3375	.3329	.3352
.040		.0595	.2743				
.050	-.0733			.0544	.0197	.0820	-.0613
.080				-.0898			
.081			-.0764				
.086		.0926					
.094	-.0120						
.150				-.2775	-.2517	-.2008	-.2298

ARC11-0141A1S OYS+STRUT SRB-NM MPS-OFF TOP WING

(REUR15)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.294 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.163		.1384					
.177			-.2354				
.229	.0106						
.246		-.0708					
.250				-.3730	-.3974	-.3854	-.4075
.274			-.3283				
.362	.0515						
.390		-.2527					
.400				-.5011	-.5025		-.5262
.402			-.3754				
.497	-.1526						
.550				-.4802	-.5741		
.565			-.3919				
.600							-.5564
.650						-.5371	
.700	-.2935				-.4238		
.725				.0000			
.750						-.5588	-.6186
.760			-.0555				
.775				-.2343	-.3522		
.808			-.0583				
.834	.0694						
.850				-.3167	-.2811	-.4059	
.857			-.2665				
.865	.0476						
.900	-.2846			-.2509			-.4169
.905			-.2460		-.2578		
.950				-.1782		-.3352	
.953			-.1976				
.965	-.2691						

ALPHA (3) = 3.834 BETA (1) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2795	-.2661	.3031	.6478	.5926	.6531	.6387
.020			.2897	.2167	.2024	.1763	.1343
.040		-.0867	.1427				
.050	-.1386			-.0654	-.1100	-.0726	-.1440
.080				-.2257			
.081			-.1616				
.086		-.0465					
.094	-.1151						
.150				-.3706	-.3389	-.3124	-.3657
.163		.0096					
.177			-.3064				
.229	-.0930						

ARC11-014IA19 OYS+STRUT SRB-NOM MPS-OFF TOP WING

(REUR15)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.834	BETA (1) = .012	2Y/B X/C	.299	.364	.427	.534	.641	.760	.887
		.246		-.1623					
		.250				-.4427	-.4745	-.4726	-.5028
		.274			-.3775				
		.362	-.0705						
		.390		-.2775					
		.400				-.5215	-.5551		-.5941
		.402			-.3722				
		.497	-.1851						
		.550				-.4699	-.5920		
		.565			-.3760				
		.600							-.6027
		.650						-.6429	
		.700	-.2532				-.3456		
		.725				.0000			
		.750						-.6172	-.6265
		.760			-.0579				
		.775				-.2174	-.3381		
		.808			-.0618				
		.834	.0026						
		.850				-.3271	-.2967	-.4229	
		.857			-.3119				
		.865	.0002						
		.900	-.3182			-.2777			-.4393
		.905			-.2969		-.2513		
		.950				-.2158		-.3830	
		.953			-.2551				
		.965	-.3111						

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TABLULATED SOURCE PRESSURE DATA - 1A19 (ARC 11-0114)

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ARC11-01141A19 QTS+STRUT SRB-NOM MPS-OFF TOP WING

(REUR16) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.095	BETA (1) = .012	2Y/B	.299	.354	.427	.534	.641	.780	.887
		X/C							
		.000	-.1479	-.0487	.2349	.4900	.5761	.3873	.2736
		.020			.3795	.4558	.4588	.4656	.4859
		.040		.0186	.2952				
		.050	-.1065			.2382	.2133	.2996	.3227
		.080				.0801			
		.081			.0527				
		.086		.0654					
		.094	-.0951						
		.150				-.0164	.0027	.0331	.0221
		.163		.1316					
		.177			-.0814				
		.229	-.0144						
		.246		.0126					
		.250				-.1718	-.1549	-.1408	-.1514
		.274			-.1430				
		.362	.0003						
		.390		-.1292					
		.400				-.2648	-.2921		-.3121
		.402			-.2030				
		.497	-.0944						
		.550				-.2984	-.3290		
		.565			-.2131				
		.600							-.3620
		.650						-.3723	
		.700	.0032				-.1622		
		.725				.0000			
		.750						-.3577	-.4866
		.760			.0578				
		.775				-.0181	-.1429		
		.808			.0402				
		.834	.0611						
		.850				-.1954	-.1529	-.2874	
		.857			-.2107				
		.865	.0348						
		.900	-.2171			-.1518			-.2757
		.905			-.1925		-.1096		
		.950				-.1139		-.2279	
		.953			-.1582				
		.965	-.1940						

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 OF POOR QUALITY

ARC11-014IA19 QTS+STRUT SRB-NOM MPS-OFF TOP WING

(REUR16)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.393 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2581	-.1413	.1656	.4762	.4696	.3562	.2599
.020			.2455	.3718	.3656	.3457	.3613
.040		-.0695	.1945				
.050	-.2025			.1668	.1262	.1720	.1790
.080				.0077			
.081			.0090				
.086		-.0116					
.094	-.1717						
.150				-.0997	-.0998	-.0659	-.0845
.163		.0607					
.177			-.1258				
.229	-.0584						
.246		-.0546					
.250				-.2347	-.2207	-.2274	-.2429
.274			-.1896				
.362	-.0422						
.390		-.1700					
.400				-.3084	-.3409		-.3682
.402			-.2342				
.497	-.1338						
.550				-.3230	-.3614		
.565			-.2254				
.600							-.4047
.650						-.4133	
.700	-.0405				-.1691		
.725				.0000			
.750						-.4000	-.5189
.760			.0259				
.775				-.0235	-.1660		
.808			.0055				
.834	.0322						
.850				-.2545	-.1891	-.2955	
.857			-.2596				
.865	.0040						
.900	-.2434			-.2130			-.2928
.905			-.2402		-.1392		
.950				-.1700		-.2396	
.953			-.2045				
.965	-.2260						

ALPHA (2) = -.291 BETA (2) = -.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1207	-.0957	.2898	.6122	.5884	.5135	.4122
.020			.3329	.3798	.3964	.3915	.4087
.040		.0055	.2304				
.050	-.1060			.1392	.1249	.1885	.1837
.080				-.0074			
.081			-.0203				

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-OFF TOP WING

(REL16)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.291	BETA (2) = -.003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.086		.0437					
		.094	-.0912						
		.150				-.1451	-.1303	-.0723	-.0819
		.163		.0896					
		.177			-.1560				
		.229	-.0405						
		.246		-.0536					
		.250				-.2624	-.2552	-.2906	-.2571
		.274			-.2335				
		.362	-.0143						
		.390		-.1983					
		.400				-.3669	-.3770		-.3903
		.402			-.2708				
		.497	-.1386						
		.550				-.3661	-.4296		
		.565		-.2895					
		.600							-.4398
		.650						-.4456	
		.700	-.2084				-.3842		
		.725				.0000			
		.750						-.4413	-.5144
		.760			-.0313				
		.775				-.1609	-.3085		
		.808			-.0352				
		.834	.0381						
		.850				-.2538	-.2166	-.3376	
		.857			-.2256				
		.865	.0166						
		.900	-.2352			-.2063			-.3336
		.905			-.2142		-.1904		
		.950				-.1571		-.2854	
		.953			-.1797				
		.965	-.2235						

ALPHA (2) = -.318 BETA (3) = 4.025

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.0115	-.0101	.4158	.7444	.6989	.6552	.5743
.020			.4153	.4028	.4136	.4203	.4381
.040		.0727	.2850				
.050	-.0147			.1378	.1131	.1878	.1839
.080				-.0277			
.081			-.0030				
.086		.0980					
.094	.0012						
.150				-.1805	-.1423	-.0863	-.0966

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-OFF TOP WING

(REUR16)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = - .318 BETA (3) = 4.025

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.163		.1298					
.177			-.1551				
.229	.0050						
.246		-.0278					
.251				-.2718	-.2827	-.2616	-.2695
.274			-.2541				
.362	.0346						
.390		-.1893					
.400				-.3993	-.3897		-.4002
.402			-.2884				
.497	-.1028						
.550				-.3902	-.4504		
.565			-.3066				
.600							-.4333
.650						-.4712	
.700	-.2292				-.4482		
.725				.0000			
.750						-.4592	-.4546
.760			-.1170				
.775				-.2332	-.4392		
.808			-.1273				
.834	.0090						
.850				-.2961	-.2996	-.4369	
.857			-.2274				
.865	.0067						
.900	-.2150			-.2486			-.4241
.905			-.2033		-.2716		
.950				-.2096		-.3127	
.953			-.1488				
.965	-.1886						

ALPHA (3) = 3.861 BETA (1) = -.006

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1495	-.2521	.2747	.6718	.6340	.6296	.5872
.020			.2678	.2824	.2923	.2770	.2738
.040		-.0708	.1618				
.050	-.0974			.0231	-.0065	.0418	.0127
.080				-.1281			
.081			-.1050				
.086		-.0324					
.094	-.0753						
.150				-.2970	-.2443	-.2006	-.2262
.163		.0163					
.177			-.2409				
.229	-.0740						



ARC11-014IA19 QTS+STRUT SRB-NON MPS-OFF TOP WING

(REUR16)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.861	BETA (1) = -.006	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		-.1174					
		.250				-.3526	-.3746	-.3546	-.3627
		.274			-.3290				
		.362	-.0474						
		.390		-.2662					
		.400				-.4554	-.4731		-.4712
		.402			-.3528				
		.497	-.1807						
		.550				-.4536	-.5022		
		.565			-.3514				
		.600							-.4941
		.650						-.5295	
		.700	-.2814				-.5372		
		.725				.0000			
		.750						-.5233	-.5133
		.760			-.1111				
		.775				-.2618	-.4587		
		.808			-.1662				
		.834	-.0110						
		.850				-.3254	-.2719	-.4015	
		.857			-.2641				
		.865	-.0212						
		.900	-.2471			-.2805			-.4710
		.905			-.2349		-.2528		
		.950				-.2400		-.3521	
		.953			-.1900				
		.965	-.2456						

ARC11-014IA19 QTS+STRUT SRB-HI MPS-HI TOP WING

(REUR17) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.135	BETA (1) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.0415	.0779	.1993	.3646	.3517	.1389	-.0015
		.020			.3805	.3462	.3490	.3373	.2998
		.040		.1454	.2969				
		.060	.0223			.0971	.0710	.1301	.0641
		.080				-.0486			
		.081			.0413				
		.086		.1972					
		.094	.0759						
		.121				-.1576	-.2198	-.2352	-.3192
		.163		.1895					
		.177			-.1767				
		.229	.0803						
		.246		-.1081					
		.251				-.2890	-.3293	-.4524	-.5760
		.274			-.2332				
		.362	.0720						
		.390		-.1874					
		.400				-.3412	-.3578		-.7033
		.402			-.2921				
		.497	-.1492						
		.551				-.2363	-.3238		
		.565		-.1381					
		.600							-.5088
		.650						-.3698	
		.700	-.0255				-.4144		
		.725				.0000			
		.750						-.3519	-.5329
		.760		-.2750					
		.775			-.3533	-.4123			
		.808		-.3157					
		.834	-.2624						
		.850				-.4180	-.4333	-.3817	
		.857		-.3950					
		.865	-.3006						
		.900	-.3751			-.3738			-.2603
		.905		-.3636			-.3874		
		.950			-.3450			-.2081	
		.953		-.3355					
		.965	-.3353						

SECTION (1) TOP WING		DEPENDENT VARIABLE CF								
ALPHA (2) = -.426 BETA (1) = -4.003		2Y/B	.299	.364	.427	.534	.641	.780	.887	
		X/C								
		.000	-.2288	-.0583	.0524	.3499	.3180	.1468	.0385	
		.020			.2378	.2718	.2474	.2173	.1753	
		.040		-.0072	.1924					
		.050	-.1153			.0211	-.0057	.0001	-.0757	
		.080				-.1178				
		.081			.0129					
		.086		.0806						
		.094	-.0634							
		.150				-.1978	-.3222	-.3384	-.4332	
		.163		.1081						
		.177			-.2001					
		.229	-.0050							
		.246		-.1337						
		.250				-.3417	-.3953	-.5398	-.6782	
		.274			-.2577					
		.362	.0124							
		.390		-.2243						
		.400				-.4100	-.4620		-.8015	
		.402			-.3157					
		.497	-.1847							
		.550				-.3236	-.4147			
		.565			-.2264					
		.600							-.5808	
		.650						-.4928		
		.700	-.1205				-.5052			
		.725				.0000				
		.750						-.4619	-.6122	
		.760			-.3871					
		.775				-.4516	-.5372			
		.808			-.4267					
		.834	-.3820							
		.850				-.5060	-.5287	-.5065		
		.857			-.5151					
		.865	-.4137							
		.900	-.5195			-.4851			-.3655	
		.905			-.4946		-.4964			
		.950				-.4509		-.3387		
		.953			-.4327					
		.965	-.5065							
ALPHA (2) = -.447 BETA (2) = .009		2Y/B	.299	.364	.427	.534	.641	.780	.887	
		X/C								
		.000	-.1467	.0287	.3275	.4895	.4724	.3913	.3068	
		.020			.3267	.2018	.1903	.1459	.1252	
		.040		.1087	.2007					
		.050	-.0233			-.1162	-.1641	-.1261	-.1775	
		.080				-.3086				
		.081			-.1247					

		ARC11-014IA19 QTS+STRUT SRB-HI MPS-HI TOP WING								(REUR17)	
SECTION (1) TOP WING		DEPENDENT VARIABLE CP									
ALPHA (2) =	-.447	BETA (2) =	.009	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.086		.1465					
				.094	.0352						
				.150				-.3114	-.4394	-.5040	-.5938
				.163		.0967					
				.177			-.4307				
				.229	.0384						
				.246		-.2402					
				.250			-.5429	-.6204	-.7045	-.8074	
				.274			-.4098				
				.362	.0056						
				.390		-.3467					
				.400			-.5980	-.6541		-.9199	
				.402			-.4499				
				.497	-.2493						
				.550			-.2880	-.3962			
				.565			-.1822				
				.600						-.6701	
				.650					-.3891		
				.700	-.0743			-.4548			
				.725			.0000				
				.750					-.3585	-.5127	
				.760			-.2999				
				.775			-.3823	-.4519			
				.808			-.3398				
				.834	-.2842						
				.850			-.4255	-.4260	-.3672		
				.857			-.3963				
				.865	-.3244						
				.900	-.4053			-.4009		-.2817	
				.905			-.3700	-.3834			
				.950			-.3748		-.2057		
				.953			-.3285				
				.965	-.3401						
ALPHA (2) =	-.435	BETA (3) =	4.028	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.000	-.0656	.0207	.4081	.5897	.5336	.5341	.4719
				.020			.2983	.1032	.0580	.0031	.0065
				.040		.1260	.1322				
				.050	.0300			-.2416	-.3503	-.3149	-.3348
				.080				-.4767			
				.081			-.2826				
				.086		.1428					
				.094	.0824						
				.150				-.4939	-.6078	-.5989	-.7133

ARC11-014IA19 OTS+STRUT SRB-HI MPS-HI TOP WING (REUR17)

SECTION (1) TOP WING	DEPENDENT VARIABLE CP								
ALPHA (2) = -.435 BETA (3) = 4.028	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
	.163		.0349						
	.177			-.5295					
	.229	.0655							
	.246		-.3148						
	.250				-.7189	-.7653	-.8483	-.9371	
	.274			-.5569					
	.362	-.0217							
	.390		-.4969						
	.400				-.7669	-.8887		-1.0489	
	.402			-.5735					
	.497	-.4374							
	.550				-.2775	-.3805			
	.565			-.1638					
	.600							-.6520	
	.650							-.3930	
	.700	-.0720				-.3115			
	.725				.0000				
	.750						-.2169	-.5406	
	.760			-.2322					
	.775				-.2751	-.2412			
	.808			-.2561					
	.834	-.2132							
	.850				-.3515	-.3472	-.1292		
	.857			-.3038					
	.865	-.2555							
	.900	-.3719			-.2942			-.4214	
	.905			-.2587		-.2558			
	.950				-.2365		-.0087		
	.953			-.1897					
	.965	-.2734							
ALPHA (3) = 3.930 BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
	.000	-.3313	-.1352	.3264	.5172	.4535	.4516	.3687	
	.020			.2133	-.0075	-.0687	-.1936	-.2553	
	.040		.0289	.0471					
	.050	-.1151			-.3522	-.4772	-.5128	-.6140	
	.080				-.5763				
	.081			-.3890					
	.086		.0546						
	.094	-.0360							
	.150				-.6208	-.7723	-.8154	-.9146	
	.163		-.0250						
	.177			-.6132					
	.220	-.0095							

ARC11-014IA19 QTS+STRUT SRB-HI MPS-HI TOP WING

(REUR17)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.930	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		-.3663					
		.291				-.7755	-.8790	-.9806	-1.0816
		.274			-.6442				
		.362	-.0673						
		.390		-.5576					
		.400				-.8066	-.9520		-1.0711
		.402			-.6849				
		.497	-.4803						
		.590				-.3742	-.4997		
		.555			-.2651				
		.600							-.6445
		.650						-.6019	
		.700	-.1629				-.3819		
		.725				.0000			
		.750						-.4907	-.6194
		.760			-.3531				
		.775				-.3684	-.3625		
		.808			-.3852				
		.834	-.3394						
		.850				-.3742	-.4495	-.4481	
		.857			-.4450				
		.865	-.3665						
		.900	-.3940			-.3380			-.5752
		.905			-.4096		-.3780		
		.950				-.3085		-.3182	
		.953			-.3416				
		.965	-.3313						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

PAGE 209

ARC11-014IA19 QTS+STRUT SRB-HI MPS-HI TOP WING

(REUR18) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-C8 = 4.000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.098	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.3274	.0034	.4301	.5640	.5434	.3810	.2741
		.020			.4953	.4425	.4637	.4644	.4600
		.040		.1646	.4094				
		.060	-.2026			.1974	.2090	.2642	.2399
		.080				.0469			
		.081			.1641				
		.086		.2772					
		.094	-.0445						
		.150				.0400	-.0479	-.0291	-.0911
		.163		.3054					
		.177			-.1034				
		.229	-.0003						
		.246		.0492					
		.250				-.1543	-.1631	-.1923	-.3015
		.274			-.0541				
		.362	.2082						
		.390		-.0121					
		.400				-.1569	-.1444		-.4180
		.402			-.0718				
		.497	.0264						
		.550				.0233	-.0563		
		.565			.1159				
		.600							-.2643
		.650						-.1249	
		.700	.2110				-.1138		
		.725				.0000			
		.750						-.0978	-.2715
		.760			.0094				
		.775				-.0587	-.1348		
		.808			-.0251				
		.834	.0183						
		.850				-.4675	-.3689	-.2218	
		.957			-.4652				
		.865	-.0228						
		.900	-.3979			-.3990			-.0332
		.905			-.4202		-.2746		
		.950				-.3207		-.0916	
		.953			-.3163				
		.965	-.3564						

ARC11-014IA19 OTS+STRUT SRB-HI MPS-HI TOP WING

(REUR18)

SECTION (1) TOP WING

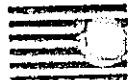
DEPENDENT VARIABLE CP

ALPHA (2) = -.396 BETA (1) = -4.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.5025	.0130	.2303	.5506	.5032	.3679	.2935
.020			.3173	.4064	.3910	.3833	.3770
.040		.0754	.2962				
.050	-.2710			.1736	.1477	.1849	.1550
.080				.0471			
.081			.1834				
.086		.1555					
.094	-.1114						
.150				.0052	-.0728	-.0810	-.1587
.163		.2513					
.177			-.0046				
.229	.0474						
.246		.0692					
.250				-.1053	-.1546	-.2344	-.3476
.274			-.0323				
.362	.1708						
.390		-.0028					
.400				-.1466	-.1635		-.4563
.402			-.0418				
.497	.0243						
.550				-.0212	-.1060		
.565			.0625				
.600							-.3032
.650						-.1925	
.700	.1444				-.1571		
.725				.0000			
.750						-.1557	-.3279
.760			-.0675				
.775				-.1207	-.1899		
.808			-.1022				
.834	-.0624						
.850				-.5195	-.4236	-.2984	
.857			-.4975				
.865	-.0974						
.900	-.4214			-.4616			-.1094
.905			-.4544		-.3381		
.950				-.3807		-.1680	
.953			-.3484				
.965	-.3973						

ALPHA (2) = -.438 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.3329	-.0601	.4963	.6626	.6263	.5961	.5423
.020			.4448	.3283	.3096	.2855	.2807
.140		.1876	.3254				
.050	-.2005			.0517	-.0193	.0453	.0112
.080				-.1444			
.081			.0080				



SECTION (1) TOP WING		ARC11-014IA19 OYS+STRUT SRB-HI MPS-HI TOP WING (REUR18)									
DEPENDENT VARIABLE CP											
ALPHA (2) =	-0.438	BETA (2) =	.009	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.086		.2540					
				.094	-.1340						
				.150				-.1365	-.1913	-.2332	-.3229
				.163		.2447					
				.77				-.1993			
				.229	.0195						
				.246		-.0186					
				.293				-.3214	-.3768	-.4335	-.5160
				.274				-.2190			
				.362	.1825						
				.390		-.1673					
				.400				-.3914	-.4462		-.6167
				.402				-.2337			
				.497	-.1249						
				.550				-.0134	-.0869		
				.565				.0725			
				.600							-.6038
				.650						-.1113	
				.700	.1587				-.1159		
				.725				.0000			
				.750						-.0724	-.2378
				.760				.0001			
				.775				-.0668	-.1361		
				.808				-.0345			
				.834	.0207						
				.850				-.4545	-.3383	-.1612	
				.857				-.4497			
				.865	-.0205						
				.900	-.3933						-.0759
				.905				-.4140	-.2529		
				.950				-.2964		-.0366	
				.953				-.3137			
				.965	-.3485						
ALPHA (2) =	-0.573	BETA (3) =	4.028	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.000	-.1053	.0391	.5312	.7237	.6767	.6904	.6420
				.020			.4261	.2599	.2401	.1841	.1682
				.040		.2216	.2686				
				.050	-.0099			-.0341	-.1145	-.0994	-.1440
				.080				-.2271			
				.081				-.1583			
				.086		.2517					
				.094	.0878						
				.150				-.4095	-.3942	-.3749	-.4594

ARC11-014IA19 QTS+STRUT SRB-HI MPS-HI TOP WING (RELR18)

SECTION (1) TOP WING

DEPENDENT VARIABLE CF

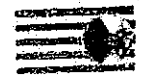
ALPHA (2) = -.573 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.163		.1886					
.177			-.3152				
.229	.1441						
.246		-.1063					
.251				-.4856	-.5409	-.5727	-.6147
.274			-.3762				
.362	.1549						
.390		-.2868					
.410				-.5616	-.6632		-.7227
.402			-.4302				
.497	-.2043						
.550				-.2089	-.3942		
.565			-.0735				
.600							-.6572
.651						-.6079	
.710	.0400				-.2762		
.725				.0700			
.750						-.4171	-.6195
.760			.0374				
.775				-.0440	-.2662		
.808			.0020				
.834	.0699						
.850				-.4011	-.2474	-.2850	
.857			-.4185				
.865	.0298						
.900	-.3853			-.2829			-.4909
.915			-.3881		-.1591		
.950				-.1823		-.1307	
.953			-.2585				
.965	-.3446						

ALPHA (3) = 3.915 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.3212	-.1954	.4577	.6635	.6098	.6288	.5510
.020			.3704	.1836	.1429	.0362	-.0328
.040		.1474	.2180				
.050	-.1802			-.0921	-.1923	-.2297	-.3221
.080				-.2647			
.081			-.1843				
.086		.2060					
.094	-.1212						
.150				-.4410	-.4511	-.4650	-.5467
.163		.1707					
.177			-.3097				
.229	.1117						

0-4



ARC11-0141A19 QTS+STRUT SRB-HI MPS-HI 1/2 WING

(REUR10)

SECTION (1) TOP WING

DEPENDENT VARIABLE CF

ALPHA (3) = 3.915 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		-.1090					
.250				-.4948	-.5823	-.6393	-.6947
.274			-.3479				
.362	.1577						
.390		-.2609					
.400				-.5410	-.6677		-.7798
.402			-.4087				
.497	-.1810						
.550				-.1878	-.3356		
.565			-.0749				
.600							-.7528
.650						-.6396	
.700	.0368				-.2354		
.725				.0000			
.750						-.4521	-.7430
.760			-.0367				
.775				-.1035	-.2307		
.808			-.0719				
.934	-.0156						
.850				-.4449	-.2977	-.2507	
.857			-.4566				
.865	-.0363						
.900	-.4389			-.3634			-.6596
.905			-.4382		-.2129		
.950				-.2792		-.0354	
.953			-.3557				
.965	-.3925						

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ARC11-014IA19 QTS+STRUT SRB-HI MPS-HI TCP WING

(REUR19) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.290
 GIMBAL = 1.000

SECTION (1) TCP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.185 BETA (1) = -.009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2129	-.0135	.1949	.4681	.4665	.3314	.2404
.020			.3661	.4292	.4285	.4461	.4472
.040		.0237	.2973				
.050	-.1755			.2024	.1757	.2707	.2660
.080				.0332			
.081			.0831				
.086		.0642					
.094	-.1191						
.150				-.0795	-.0368	-.0356	-.0524
.163		.1438					
.177			-.1005				
.229	-.0274						
.246		-.0189					
.250				-.2092	-.2178	-.2183	-.2447
.274			-.1570				
.362	.0083						
.390		-.1465					
.400				-.3231	-.3430		-.4155
.402			-.2397				
.497	-.1042						
.550				-.0678	-.3181		
.565			.0368				
.600							-.4516
.650						-.4210	
.700	.1240				-.0465		
.725				.0000			
.750						-.2302	-.4329
.760			.0718				
.775				.0491	-.0365		
.808			.0464				
.834	.0569						
.850				-.2987	-.1986	-.1846	
.857			-.3071				
.865	.0293						
.900	-.2777			-.2627			-.2323
.905			-.2797		-.1494		
.950				-.2113		-.0697	
.953			-.2258				
.965	-.2401						

ARC11-014IA19 OTS+STRUT SRB-HI MPS-HI TOP WING (REUR19)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

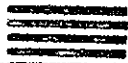
ALPHA (2) = -.459 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.3507	-.1370	.1661	.4385	.4501	.3199	.2292
.020			.2373	.3519	.3470	.3362	.3347
.040		-.0951	.1937				
.050	-.2512			.1319	.0907	.1637	.1475
.080				-.0333			
.081			.0323				
.086		-.0283					
.094	-.1886						
.150				-.0665	-.0909	-.1203	-.1541
.163		.0667					
.177			-.1535				
.229	-.0865						
.246		-.0647					
.250				-.2464	-.2690	-.2895	-.3237
.274			-.1851				
.362	-.0476						
.390		-.1733					
.400				-.3525	-.3819		-.4717
.402			-.2601				
.497	-.1355						
.550				-.0763	-.2284		
.565			.0221				
.600							-.4959
.650						-.3087	
.700	.0888			.0000	-.0766		
.725							
.750						-.2394	-.3810
.760			-.0032				
.775				-.0127	-.0676		
.808			-.0242				
.834	-.0041						
.850				-.3497	-.2444	-.2077	
.857			-.3444				
.865	-.0327						
.900	-.2954			-.3146			-.2263
.905			-.3169		-.1949		
.950				-.2656		-.1031	
.953			-.2557				
.965	-.2746						

ALPHA (2) = -.438 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2041	-.0910	.3028	.5870	.5802	.4793	.3975
.020			.3538	.3582	.3578	.3395	.3511
.040		-.0082	.2410				
.050	-.1655			.1135	.0621	.1162	.1148
.080				-.0576			
.081			-.0634				

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SECTION (1) TOP WING		DEPENDENT VARIABLE CP								(REL19)
ALPHA (2) = -.438 BETA (2) = .012		2Y/B	.299	.364	.427	.534	.641	.780	.887	
		X/C								
		.086		.0314						
		.094	-.0991							
		.150				-.1953	-.1982	-.1537	-.1805	
		.163		.0804						
		.177			-.1998					
		.229	-.0424							
		.246		-.0861						
		.250				-.3180	-.3002	-.3377	-.3649	
		.274			-.2515					
		.362	-.0333							
		.390		-.2148						
		.400				-.3971	-.4544		-.4964	
		.402				-.2929				
		.497	-.1541							
		.550				-.3931	-.4738			
		.565			-.2479					
		.600							-.5327	
		.650						-.5540		
		.700	-.0586				-.2197			
		.725				.0000				
		.750						-.5330	-.5122	
		.760			.0377					
		.775				-.0516	-.2224			
		.808			.0189					
		.834	.0471							
		.850				-.2980	-.2505	-.3056		
		.857			-.3052					
		.865	.0179							
		.900	-.2877			-.2641			-.3097	
		.905			-.2832		-.1812			
		.950				-.2103		-.1835		
		.953			-.2369					
		.965	-.2632							
ALPHA (2) = -.549 BETA (3) = 4.028		2Y/B	.299	.364	.427	.534	.641	.780	.887	
		X/C								
		.000	-.0936	-.0375	-.4602	.7153	.6771	.6419	.6317	
		.020			.4211	.3314	.3445	.3407	.3483	
		.040		.0671	.2798					
		.050	-.0748			.0658	.0272	.0908	.0707	
		.080				-.0854				
		.081			-.0733					
		.086		.1002						
		.094	-.0130							
		.150				-.2740	-.2467	-.1936	-.2208	

ARC11-0141A19 QTS+STRUT SRB-HI MPS-HI TOP WING (REUR19)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.549 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.163		.1462					
.177			-.2296				
.229	.0085						
.246		-.0641					
.290				-.3691	-.3913	-.3781	-.4017
.274			-.3243				
.362	.0513						
.390		-.2448					
.400				-.5000	-.4960		-.5218
.402			-.3724				
.497	-.1477						
.550				-.4801	-.5718		
.565			-.3891				
.600							-.5311
.650						-.5818	
.700	-.2902				-.4031		
.725				.0000			
.750						-.5558	-.6225
.760			-.0546				
.775			-.2316	-.3494			
.808			-.0530				
.834	.0693						
.890				-.3144	-.2717	-.4075	
.857			-.2672				
.865	.0513						
.900	-.2669			-.2473			-.4243
.905			-.2437		-.2500		
.950				-.1741		-.3360	
.953			-.1879				
.965	-.2525						

ALPHA (3) = 3.516 BETA (1) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2209	-.2668	.2997	.6433	.5890	.6395	.6281
.020			.2937	.2085	.2057	.1886	.1514
.040		-.0862	.1431				
.050	-.1402			-.0647	-.1069	-.0586	-.1260
.080				-.2258			
.081			-.1661				
.086		-.0459					
.094	-.1213						
.150				-.3648	-.3399	-.3073	-.3072
.163		.0033					
.177			-.3103				
.229	-.0946						

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ARC11-014IA19 O75+STRUT SRB-W3 MPS-HI TOP WING

(REUR19)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.316	BETA (1) = .012	2Y/B X/C	.299	.36A	.427	.536	.641	.780	.887
		.246		-.1563					
		.251				-.4395	-.4754	-.4684	-.4961
		.274			-.1758				
		.362	-.0750						
		.390		-.2773					
		.400				-.5169	-.9820		-.5941
		.452			-.3743				
		.497	-.1859						
		.551				-.4744	-.5926		
		.565			-.3797				
		.600							-.8057
		.650						-.6428	
		.700	-.2512				-.3377		
		.725				.0200			
		.750						-.6139	-.6355
		.760			-.0562				
		.775				-.2141	-.3315		
		.808			-.0616				
		.834	.0067						
		.850				-.3286	-.2966	-.4193	
		.857			-.3187				
		.865	-.0030						
		.900	-.3093			-.2778			-.4318
		.905			-.3037		-.2527		
		.950				-.2190		-.3821	
		.953			-.2540				
		.965	-.2921						

ARC11-13 1A19 OTS+STRUT SRB-HI MPS-HI TOP WING

(REL20) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.167	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.1207	-.0462	.2386	.4853	.5145	.3921	.2798
		.020			.3763	.4497	.4572	.4611	.4802
		.040		.0212	.2898				
		.050	-.1073			.2332	.2115	.2937	.3176
		.080				.0750			
		.081			.0493				
		.086		.0654					
		.094	-.0918						
		.150				-.0177	.0015	.0224	.0178
		.163		.1298					
		.177			-.0829				
		.229	-.0177						
		.246		.0119					
		.250				-.1724	-.1553	-.1434	-.1531
		.274			-.1452				
		.362	-.0004						
		.390		-.1326					
		.400				-.2650	-.2938		-.3102
		.402			-.2032				
		.497	-.0945						
		.550				-.3012	-.3311		
		.565			-.2175				
		.600							-.3604
		.650						-.3715	
		.700	-.0030				-.1698		
		.725				.0000			
		.750						-.3591	-.4849
		.760			.0574				
		.775				-.0211	-.1429		
		.808			.0386				
		.834	.0628						
		.850				-.1980	-.1546	-.2871	
		.857			-.2096				
		.865	.0329						
		.900	-.2063			-.1533			-.2717
		.905			-.1917		-.1123		
		.950				-.1152		-.2290	
		.953			-.1489				
		.965	-.1737						

ORIGINAL PAGE IS
 OF POOR QUALITY

ARC11-014IA19 QTS+STRUT SRB-HI MPS-HI TOP WING

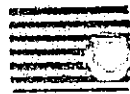
(REUR20)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -0.489	BETA (1) = -4.033	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.2421	-.1400	.1678	.4716	.4739	.3532	.2722
		.020			.2436	.3734	.3681	.3429	.3591
		.040		-.0714	.1941				
		.050	-.2042			.1641	.1255	.1719	.1806
		.080				.0088			
		.081			.0056				
		.086		-.0100					
		.094	-.1734						
		.150				-.0957	-.1002	-.0750	-.0832
		.163		.0618					
		.177			-.1283				
		.229	-.0591						
		.246		-.0549					
		.250				-.2341	-.2176	-.2209	-.2409
		.274			-.1901				
		.362	-.0419						
		.390		-.1661					
		.400				-.3069	-.3389		-.3649
		.402			-.2345				
		.497	-.1374						
		.550				-.3212	-.3598		
		.565			-.2279				
		.600							-.4031
		.650						-.4114	
		.700	-.0399				-.1631		
		.725				.0000			
		.750						-.3983	-.5379
		.760			.0257				
		.775				-.0229	-.1620		
		.808			.0051				
		.834	.0304						
		.850				-.2531	-.1915	-.2932	
		.857			-.2582				
		.865	.0021						
		.900	-.2238			-.2114			-.2875
		.905			-.2343		-.1370		
		.950				-.1695		-.2392	
		.953			-.1898				
		.965	-.1944						

ALPHA (2) = -0.432	BETA (2) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.0883	-.0889	.2926	.6175	.5970	.5149	.4314
		.020			.3420	.3854	.4018	.4006	.4139
		.040		.0108	.2373				
		.050	-.0983			.1458	.1298	.1974	.1892
		.080				.0011			
		.081			-.0172				



ARC11-0141A19 OTS+STRUT SRB-HI MPS-HI TOP WING (REL20)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.452	BETA (2) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.086		.0447					
		.094	-.0849						
		.150				-.1399	-.1239	-.0731	-.0759
		.163		.0979					
		.177			-.1474				
		.229	-.0303						
		.246		-.0464					
		.250				-.2542	-.2462	-.2403	-.2459
		.274			-.2279				
		.362	-.0084						
		.390		-.1889					
		.400				-.3586	-.3700		-.3828
		.402			-.2657				
		.497	-.1321						
		.550				-.3598	-.4233		
		.565			-.2833				
		.600							-.4296
		.650						-.4353	
		.700	-.2020				-.3748		
		.725				.0000			
		.750						-.4302	-.5079
		.760			-.0294				
		.775				-.1532	-.3037		
		.808			-.0298				
		.834	.0434						
		.850				-.2489	-.2090	-.3284	
		.857			-.2183				
		.865	.0269						
		.900	-.2160			-.2002			-.3238
		.905			-.2065		-.1828		
		.950				-.1497		-.2763	
		.953			-.1670				
		.965	-.1940						

ALPHA (2) = -.486	BETA (3) = 4.025	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	.0211	-.0137	.4157	.7434	.7031	.6524	.5841
		.020			.4139	.4028	.4151	.4193	.4382
		.040		.0730	.2796				
		.050	-.0128			.1381	.1147	.1891	.1827
		.080				-.0251			
		.081			-.0035				
		.086		.0959					
		.094	.0034						
		.150				-.1773	-.1412	-.0901	-.0968

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ARC11-014IA19 OTS+STRUT SRB-HI MFS-HI TOP WING

(REUR20)

SECTION (1) TOP WING

DEPENDENT VARIABLE CF

ALPHA (2) = -.406 BETA (3) = 4.025

2Y/B X/C	.299	.364	.427	.534	.641	.780	.867
.163		.1275					
.177			-.1517				
.229	.0054						
.246		-.0256					
.250				-.2719	-.2809	-.2577	-.2677
.274			-.2503				
.362	.0338						
.390		-.1884					
.400				-.3978	-.3891		-.3980
.402				-.2855			
.497	-.1025						
.550				-.3890	-.4496		
.565				-.3064			
.600							-.4331
.650						-.4681	
.700	-.2275				-.4476		
.725				.0000			
.750						-.4543	-.4549
.760			-.1197				
.775				-.2372	-.4346		
.808			-.1283				
.834	.0055						
.850				-.2963	-.2958	-.4376	
.857			-.2306				
.865	.0091						
.900	-.2094			-.2482			-.4211
.905				-.2017	-.2682		
.950				-.2079		-.3072	
.953			-.1444				
.965	-.1777						

ALPHA (3) = 3.657 BETA (1) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.867
.000	-.1133	-.2415	.2744	.6698	.6338	.6308	.5870
.020			.2673	.2884	.3023	.2884	.2918
.040		-.0656	.1645				
.050	-.0924			.0315	.0069	.0532	.0301
.080				-.1218			
.081			-.0974				
.086		-.0289					
.094	-.0697						
.150				-.2859	-.2344	-.1988	-.2138
.163		.0204					
.177			-.2366				
.229	-.0731						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - (ARC 11-014)

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ARC11-0141A19 OTS+STRUT SRB-HT MPS-HT TOP WING

(REUR20)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.657	BETA (1) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		-.1157					
		.250				-.3403	-.3659	-.3481	-.3528
		.274			-.3228				
		.362	-.0409						
		.390		-.2613					
		.400				-.4456	-.4678		-.4581
		.402			-.3451				
		.497	-.1776						
		.550				-.4419	-.4924		
		.565			-.3485				
		.600							-.4807
		.650						-.5225	
		.700	-.2744				-.4954		
		.725				.0000			
		.750						-.5155	-.4909
		.760			-.1605				
		.775				-.2563	-.4596		
		.808			-.1634				
		.834	-.0086						
		.850				-.3129	-.2654	-.3964	
		.857			-.2563				
		.865	-.0172						
		.900	-.2325			-.2705			-.4644
		.905			-.2284		-.2493		
		.950				-.2338		-.3483	
		.953			-.1813				
		.965	-.2162						

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ARC11-0141A19 QTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR21) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = 8.000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.200	BETA (1) = .003	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.000	-.1159	-.0442	.2418	.4918	.5154	.3977	.2874
		.020			.3791	.4574	.4622	.4645	.4859
		.040		.0199	.2954				
		.050	-.1041			.2390	.2167	.3035	.3221
		.080				.0793			
		.081			.0555				
		.086		.0690					
		.094	-.0922						
		.150				-.0134	.0048	.0333	.0219
		.163		.1345					
		.177			-.0796				
		.229	-.0125						
		.246		.0144					
		.250				-.1711	-.1524	-.1365	-.1484
		.274			-.1411				
		.362	.0020						
		.390		-.1303					
		.400				-.2627	-.2877		-.3073
		.402			-.1989				
		.497	-.0894						
		.550				-.2965	-.3255		
		.565			-.2123				
		.600							-.3543
		.650						-.3679	
		.700	-.0106				-.1699		
		.725				.0000			
		.750						-.3541	-.4078
		.760			.0593				
		.775				-.0170	-.1416		
		.808			.0438				
		.834	.0635						
		.850				-.1897	-.1382	-.2749	
		.857			-.2076				
		.865	.0348						
		.900	-.2255			-.1448			-.3103
		.905			-.1920		-.1055		
		.950				-.1089		-.1135	
		.953			-.1641				
		.965	-.1974						

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR21)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.180 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2378	-.1444	.1702	.4769	.4786	.3657	.2872
.020			.2471	.3694	.3668	.3435	.3969
.040		-.0702	.1947				
.050	-.2025			.1623	.1236	.1702	.1761
.080				.0083			
.081			.0071				
.086		-.0116					
.094	-.1713						
.150				-.1063	-.1020	-.0671	-.0841
.163		.0631					
.177			-.1276				
.229	-.0603						
.246		-.0548					
.250				-.2362	-.2225	-.2251	-.2417
.274			-.1931				
.362	-.0429						
.390		-.1709					
.400				-.3100	-.3429		-.3700
.402			-.2324				
.497	-.1346						
.550				-.3225	-.3635		
.565			-.2288				
.600							-.4044
.650						-.4116	
.700	-.0468				-.1738		
.725				.0000			
.750						-.3977	-.4538
.760			.0263				
.775				-.0287	-.1629		
.808			.0060				
.834	.0317						
.850				-.2550	-.1704	-.2227	
.857			-.2587				
.865	.0037						
.900	-.2542			-.2087			-.3441
.905			-.2431		-.1379		
.950				-.1667		-.1416	
.953			-.2129				
.965	-.2437						

ALPHA (2) = -.291 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.0930	-.0928	.2964	.6181	.5994	.5223	.4396
.020			.3375	.3795	.3971	.3945	.4099
.040		.0057	.2342				
.050	-.0994			.1402	.1235	.1893	.1799
.080				-.0082			
.081			-.0213				

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ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR21)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.291	BETA (2) = .012	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.086		.0490					
		.094	-.0835						
		.150				-.1447	-.1297	-.0707	-.0809
		.163		.0917					
		.177			-.1534				
		.229	-.0349						
		.246		-.0513					
		.250				-.2575	-.2540	-.2471	-.2507
		.274			-.2294				
		.362	-.0092						
		.390		-.1946					
		.400				-.3633	-.3748		-.3864
		.402			-.2672				
		.457	-.1328						
		.550				-.3641	-.4278		
		.565			-.2860				
		.600							-.4319
		.690						-.4392	
		.700	-.2085				-.3840		
		.725				.0700			
		.750						-.4330	-.4467
		.760			-.0372				
		.775				-.1587	-.3137		
		.808			-.0363				
		.834	.0412						
		.890				-.2446	-.1996	-.4148	
		.857			-.2164				
		.865	.0248						
		.900	-.2366			-.2012			-.3473
		.905			-.2098		-.1739		
		.950				-.1559		-.2575	
		.953			-.1794				
		.965	-.2248						

ALPHA (2) = -.306 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	.0221	-.0136	.4141	.7475	.7054	.6608	.5898
.020			.4133	.4015	.4127	.4165	.4336
.040		.0748	.2798				
.050	-.0119			.1339	.1092	.1843	.1604
.080				-.0281			
.081			-.0043				
.086		.0947					
.094	.0069						
.150				-.1824	-.1422	-.0904	-.1028

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR21)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.306 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.163		.1276					
.177			-.1530				
.229	.0090						
.246		-.0291					
.250				-.2727	-.2857	-.2623	-.2700
.274			-.2529				
.362	.0345						
.390		-.1891					
.400				-.4003	-.3933		-.3993
.402			-.2864				
.497	-.1013						
.550				-.3896	-.4511		
.565			-.3069				
.600							-.4318
.650						-.4727	
.700	-.2298				-.4515		
.725				.0000			
.750						-.4576	-.4012
.760			-.1225				
.775			-.2420	-.4392			
.808			-.1305				
.834	.0027						
.850				-.2953	-.3089	-.4112	
.857			-.2352				
.865	.0065						
.900	-.2245			-.2493			-.3620
.905			-.2082		-.2663		
.950				-.2136		-.3173	
.953			-.1554				
.965	-.1900						

ALPHA (3) = 3.969 BETA (1) = .006

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1191	-.2524	.2730	.6681	.6295	.6372	.5881
.020			.2669	.2817	.2923	.2768	.2771
.040		-.0728	.1619				
.050	-.0946			.0231	-.0036	.0407	.0129
.080				-.1291			
.081			-.1053				
.086		-.0378					
.094	-.0735						
.150				-.2945	-.2425	-.2050	-.2272
.163		.0164					
.177			-.2428				
.229	-.0746						

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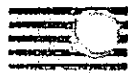
ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR21)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.969	BETA (1) = .006	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		-.1217					
		.290				-.3507	-.3746	-.3560	-.3618
		.274			-.3294				
		.362	-.0460						
		.390		-.2652					
		.400				-.4514	-.4704		-.4675
		.402			-.3530				
		.497	-.1821						
		.550				-.4497	-.4970		
		.565			-.3548				
		.600							-.4905
		.650						-.5292	
		.700	-.2812				-.5027		
		.725				.0200			
		.750						-.5222	-.4743
		.760			-.1676				
		.775				-.2616	-.4686		
		.808			-.1736				
		.834	-.0134						
		.850				-.3210	-.2761	-.4817	
		.857			-.2631				
		.865	-.0227						
		.900	-.2590			-.2770			-.4517
		.915			-.2366		-.2513		
		.950				-.2412		-.3613	
		.953			-.1971				
		.965	-.2493						



ARC11-0141A19 QTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR22) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GTSAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.167 BETA (1) = .006

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1186	-.0470	.2369	.4873	.5132	.3957	.2868
.020			.3774	.4523	.4586	.4623	.4813
.040		.0172	.2897				
.060	-.1080			.2348	.2134	.2985	.3185
.080				.0754			
.100			.0491				
.120		.0648					
.140	-.0946			-.0175	-.0212	.0299	.0182
.160		.1316					
.180			-.0842				
.200	-.0151						
.220		.0123					
.240				-.1753	-.1563	-.1428	-.1543
.260			-.1487				
.280	-.0011						
.300		-.1334					
.320				-.2661	-.2932		-.3102
.340			-.2047				
.360	-.0946						
.380				-.3014	-.3297		
.400			-.2169				
.420							
.440							-.3579
.460						-.3728	
.480	-.0062				-.1679		
.500				.0000			
.520						-.3674	-.4103
.540			.0569				
.560				-.0190	-.1468		
.580			.0401				
.600	.0609						
.620				-.1948	-.1420	-.2735	
.640			-.2112				
.660	.0341						
.680	-.2147			-.1496			-.3141
.700			-.1941		-.1111		
.720				-.1114		-.1187	
.740			-.1558				
.760	-.1893						

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ARC11-014IA19 OTS STRUT SRB-NOM MPS-NOM TOP WING

(REUR22)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -0.348	BETA (1) = -3.997	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.2404	-.1391	.1662	.4764	.4763	.3600	.2776
		.020			.2451	.3720	.3703	.3457	.3599
		.040		-.0718	.1966				
		.050	-.2034			.1659	.1268	.1721	.1811
		.080				.0085			
		.081			.0095				
		.086		-.0104					
		.094	-.1732						
		.150				-.1017	-.1001	-.0658	-.0827
		.163		.0629					
		.177			-.1257				
		.229	-.0597						
		.246		-.0552					
		.250				-.2339	-.2188	-.2220	-.2403
		.274			-.1908				
		.362	-.0410						
		.390		-.1688					
		.400				-.3084	-.3397		-.3679
		.402			-.2312				
		.497	-.1324						
		.550				-.3225	-.3616		
		.565			-.2253				
		.600							-.4029
		.650						-.4105	
		.700	-.0394				-.1706		
		.725				.0000			
		.750						-.3965	-.4542
		.760			.0268				
		.775				-.0233	-.1611		
		.808			.0069				
		.834	.0306						
		.850				-.2541	-.1707	-.2205	
		.857			-.2580				
		.865	.0015						
		.900	-.2374			-.2090			-.3401
		.905			-.2360		-.1543		
		.950				-.1662		-.1354	
		.953			-.1975				
		.965	-.2163						

ALPHA (2) = -0.366	BETA (2) = .012	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.0924	-.0900	.2932	.6172	.5975	.5208	.4347
		.020			.3403	.3872	.4029	.3986	.4122
		.040		.0101	.2370				
		.050	-.1008			.1447	.1291	.1948	.1881
		.080				.0000			
		.081			-.0166				

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM TOP WING (REUR22)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.366 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.086		.0438					
.094	-.0848						
.150				-.1418	-.1264	-.0677	-.0780
.163		.0975					
.177			-.1482				
.229	-.0329						
.246		-.0476					
.250				-.2559	-.2500	-.2432	-.2492
.274			-.2289				
.362	-.0095						
.390		-.1909					
.400				-.3599	-.3708		-.3843
.402			-.2651				
.497	-.1329						
.550				-.3610	-.4254		
.565			-.2820				
.600							-.4314
.650						-.4380	
.700	-.2019				-.3802		
.725				.0000			
.750						-.4337	-.4469
.760			-.0294				
.775				-.1549	-.3101		
.808			-.0330				
.834	.0438						
.850				-.2430	-.1969	-.4146	
.857			-.2177				
.865	.0237						
.900	-.2283			-.1965			-.3443
.905			-.2084		-.1735		
.950				-.1514		-.2567	
.953			-.1716				
.965	-.2103						

ALPHA (2) = -.522 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	.0211	-.0103	.4159	.7433	.7046	.6559	.5852
.020			.4150	.4031	.4158	.4195	.4406
.040		.0738	.2813				
.050	-.0141			.1372	.1148	.1904	.1840
.080				-.0229			
.081			-.0010				
.086		.0957					
.094	.0010						
.150				-.1789	-.1412	-.0889	-.0975

ARC11-014IA19 OTS+STRUT SRB-NCM MPS-NCM TOP WING

(REUR22)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -0.522	BETA (3) = 4.031	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.163		.1277					
		.177			-.1525				
		.229	.0029						
		.246		-.0281					
		.250				-.2721	-.2814	-.2599	-.2687
		.274			-.2485				
		.362	.0336						
		.390		-.1899					
		.400				-.3981	-.3893		-.3976
		.402			-.2847				
		.497	-.1023						
		.550				-.3898	-.4499		
		.565			-.3050				
		.600							-.4349
		.650						-.4715	
		.700	-.2285				-.4488		
		.725				.0270			
		.750						-.4568	-.4031
		.760			-.1177				
		.775				-.2394	-.4368		
		.808			-.1270				
		.834	.0047						
		.850				-.2926	-.3045	-.4113	
		.857			-.2282				
		.865	.0081						
		.900	-.2158			-.2473			-.3619
		.905			-.1995		-.2652		
		.950				-.2101		-.3155	
		.953			-.1486				
		.965	-.1872						
ALPHA (3) = 3.942	BETA (1) = .012	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.1195	-.2521	.2737	.6727	.6312	.6322	.5876
		.020			.2676	.2817	.2935	.2768	.2762
		.040		-.0729	.1622				
		.050	-.0951			.0254	-.0229	.0420	.0178
		.080				-.1290			
		.081			-.1051				
		.086		-.0343					
		.093	-.0750						
		.150				-.2365	-.2429	-.2023	-.2254
		.163			.0157				
		.177			-.2434				
		.229	-.0716						

ARC11-C141A19 OTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR22)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.942 BETA (1) = .012

2Y/B Y/C	.299	.364	.427	.534	.641	.787	.887
.246		-.1178					
.251				-.3578	-.3727	-.3533	-.3600
.274			-.3284				
.362	-.0444						
.390		-.2647					
.400				-.4514	-.4680		-.4660
.402			-.3551				
.497	-.1795						
.550				-.4535	-.4972		
.565		-.3559					
.600							-.4902
.657						-.5280	
.700	-.2794				-.5024		
.725				.0000			
.750						-.5208	-.4746
.760			-.1653				
.775				-.2586	-.4622		
.808			-.1722				
.834	-.0129						
.850				-.3226	-.2756	-.4807	
.857		-.2644					
.865	-.0221						
.900	-.2473			-.2772			-.4517
.905			-.2341		-.2502		
.950				-.2412		-.3572	
.953			-.1913				
.965	-.2388						

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ARC11-0141A19 OYS+STRUT SRB-OFF MPS-OFF TOP WING

(REL23) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 ØREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.047	BETA (1) = .000	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.000	-.0429	.0696	.1922	.3573	.3448	.1339	-.0109
		.020			.3720	.3371	.3428	.3295	.2938
		.040		.1374	.2844				
		.050	.0202			.0852	.0634	.1213	.0585
		.080				-.0644			
		.081			.0265				
		.086		.1854					
		.094	.0720						
		.150				-.1489	-.2274	-.2453	-.3301
		.163		.1791					
		.177			-.1800				
		.229	.0749						
		.246		-.1228					
		.250				-.2869	-.3399	-.4642	-.5881
		.274			-.2463				
		.362	.0669						
		.390		-.1961					
		.400				-.3450	-.3651		-.6894
		.402			-.3035				
		.497	-.1470						
		.550				-.2395	-.3302		
		.565			-.1469				
		.600							-.4782
		.650							-.3911
		.700	-.0284				-.4237		
		.725				.0000			
		.750						-.3575	-.1832
		.760			-.2786				
		.775				-.3510	-.4145		
		.808			-.3146				
		.834	-.2587						
		.850				-.2726	-.3891	-.1342	
		.857			-.4065				
		.865	-.2883						
		.900	-.3782			-.0774			-.0383
		.905			-.2172		-.0880		
		.950				-.0598		-.0819	
		.953			-.1062				
		.965	-.1430						

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR23)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

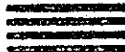
ALPHA (2) = -.276 BETA (1) = -4.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2364	-.0443	.0530	.3626	.3297	.1592	.0656
.020			.2325	.2710	.2550	.2132	.1756
.040		.0034	.1878				
.050	-.1166			.0169	-.0301	-.0096	-.0781
.080				-.1347			
.081			.0104				
.086		.0701					
.094	-.0550						
.153				-.1997	-.3059	-.3392	-.4456
.163		.1130					
.177			-.2002				
.229	.0057						
.246		-.1257					
.250				-.3436	-.3784	-.5368	-.6878
.274			-.2551				
.362	.0222						
.390		-.2169					
.400				-.3943	-.4549		-.7927
.402			-.3020				
.497	-.1694						
.550				-.3093	-.4013		
.565			-.2179				
.600							-.5614
.650						-.4834	
.700	-.1066				-.4914		
.725				.0200			
.750						-.4468	-.3949
.760			-.3717				
.775			-.4324	-.5211			
.808			-.4041				
.834	-.3596						
.850				-.4951	-.5760	-.2997	
.857			-.4979				
.865	-.3796						
.900	-.4388			-.3526			-.1770
.905			-.4107		-.3296		
.950				-.1835		-.1845	
.953			-.2244				
.965	-.2802						

ALPHA (2) = -.237 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1501	.0344	.3438	.5051	.4851	.4083	.3325
.020			.3390	.2123	.1887	.1638	.1276
.040		.1181	.2139				
.050	-.0165			-.1000	-.1582	-.1133	-.1710
.080				-.2947			
.081			-.1099				

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ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR23)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.237	BETA (2) = .009	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.086		.1532					
		.094	.0431						
		.150				-.2779	-.4236	-.4941	-.5782
		.163		.1080					
		.177				-.4106			
		.229	.0480						
		.246		-.2250					
		.250				-.5347	-.6191	-.6778	-.7893
		.274				-.3871			
		.362	.0141						
		.390		-.3265					
		.400				-.5945	-.6361		-.9109
		.402				-.4232			
		.497	-.2407						
		.550				-.2705	-.3739		
		.565				-.1603			
		.600							-.6709
		.650						-.3461	
		.700	-.0593				-.4298		
		.725				.0220			
		.750						-.3034	-.2472
		.760				-.2690			
		.775				-.3590	-.4203		
		.808				-.3035			
		.834	-.2606						
		.850				-.3535	-.2292	-.0475	
		.857				-.3644			
		.865	-.2873						
		.900	-.3936			-.1992			-.1029
		.905				-.1217	-.0078		
		.950				-.1184		-.0043	
		.953				-.0670			
		.965	-.1906						

ALPHA (2) = -.195 BETA (3) = 4.028

2Y/B	.299	.364	.427	.534	.641	.780	.887
X/C							
.000	-.0738	.0209	.4089	.5879	.5373	.5408	.4770
.020			.2894	.0975	.0575	-.0039	-.0068
.040		.1330	.1325				
.050	.0279			-.2455	-.3467	-.3240	-.3622
.080				-.4734			
.081			-.2855				
.086		.1400					
.094	.0824						
.150				-.5311	-.6265	-.6122	-.7069

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TABLATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 QTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR23)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.195 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.163		.0380					
.177			-.5225				
.229	.0646						
.246		-.5097					
.250				-.7367	-.7743	-.8413	-.9332
.274			-.5526				
.362	-.0211						
.390		-.4863					
.400				-.7850	-.8853		-.9769
.402			-.5616				
.497	-.4384						
.550				-.2689	-.3510		
.565			-.1525				
.600							-.5590
.650						-.4081	
.700	-.0690				-.1868		
.725				.0000			
.750						-.2461	-.4248
.760			-.1149				
.775				-.1477	-.1458		
.808			-.1230				
.834	-.1576						
.850				-.0198	-.0345	.0117	
.857			-.0215				
.865	-.1761						
.900	-.1571			.0209			-.2713
.905			.0197		.0597		
.950				-.0050		.0640	
.953			-.0135				
.965	-.0261						

ALPHA (3) = 3.855 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.3483	-.1085	.3905	.5325	.4693	.4770	.3935
.020			.2389	.0200	-.0370	-.1802	-.2186
.040		.0526	.0747				
.050	-.0962			-.3197	-.4388	-.4763	-.5783
.080				-.5437			
.081			-.3916				
.086		.0789					
.1	-.0171						
.150				-.6170	-.7362	-.7846	-.8709
.163		-.0029					
.177			-.5761				
.229	.0061						

ARC11-014IA19 OYS+STRUT SRB-OFF MPS-OFF TCF WING

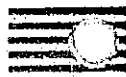
(REUR23)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.855 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		-.3397					
.257				-.7741	-.8402	-.9382	-1.0392
.274			-.6079				
.362	-.0527						
.390		-.5287					
.400				-.8298	-.9239		-1.0371
.402			-.6477				
.497	-.4670						
.550				-.3441	-.4664		
.565			-.2362				
.600							-.6704
.650						-.5389	
.700	-.1329				-.3484		
.725				.0000			
.750						-.4251	-.6620
.730			-.3070				
.775			-.3347	-.3029			
.808			-.3318				
.834	-.3059						
.850				-.2449	-.2831	-.2898	
.857			-.3041				
.865	-.3256						
.900	-.4072			-.1421			-.5189
.905			-.1754	-.0886			
.950				-.1060		-.1762	
.953			-.1214				
.965	-.1390						



ARC11-014TA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR24) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.100
 G1M6AL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -3.993	BETA (1) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.700	.887
		.000	-.2869	.0083	.4262	.5583	.5481	.3988	.2978
		.020			.4869	.4321	.4560	.4625	.4576
		.040		-.1912	.4004				
		.050	-.2062			.1835	.2010	.2587	.2324
		.060				.0307			
		.081				.1560			
		.086		.2779					
		.094	-.0484						
		.150				.0465	-.0528	-.0611	-.1015
		.163		.2980					
		.177			-.1122				
		.229	.0098						
		.246		.0393					
		.250				-.1626	-.1914	-.2102	-.3140
		.274			-.0904				
		.362	.2021						
		.390		-.0137					
		.400				-.1733	-.1636		-.4254
		.402			-.0797				
		.497	.0033						
		.550				.0190	-.0589		
		.565			.1094				
		.600							-.2356
		.650						-.1246	
		.700	.2021				-.1166		
		.725				.0000			
		.750						-.0915	-.0195
		.760			.0082				
		.775				-.0598	-.1333		
		.808			-.0259				
		.834	.0178						
		.850				-.1196	-.1976	.0583	
		.857			-.1277				
		.865	-.0141						
		.900	-.1744			-.0753			.1357
		.905			-.1225		.0254		
		.950				.0033		.1295	
		.953			-.0555				
		.965	-.0738						

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(FEUR24)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -0.279	BETA (1) = -4.003	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.000	-.4890	.0140	.2264	.5482	.5078	.3785	.3143
		.020			.3054	.3933	.3851	.3715	.3605
		.040		.0757	.2870				
		.050	-.2756			.1571	.1318	.1680	.1357
		.080				.0231			
		.081			.1723				
		.086		.1572					
		.094	-.1150						
		.150				-.0060	-.0931	-.1234	-.1758
		.163		.2385					
		.177			-.0094				
		.229	.0500						
		.246		.0629					
		.250				-.1235	-.1665	-.2436	-.3631
		.274			-.0507				
		.362	.1639						
		.390		-.0193					
		.400				-.1719	-.1911		-.4752
		.402			-.0566				
		.497	.0108						
		.550				-.0342	-.1123		
		.565			.0510				
		.600							-.2827
		.650						-.1976	
		.700	.1336				-.1653		
		.725				.0220			
		.750						-.1611	-.1146
		.760			-.0739				
		.775				-.1262	-.1960		
		.808			-.1035				
		.834	-.0690						
		.850				-.2022	-.2928	-.0728	
		.857			-.2066				
		.865	-.0978						
		.900	-.2407			-.1804			.0510
		.905			-.2020		-.1449		
		.920				-.1553		.0413	
		.953			-.1653				
		.965	-.1790						

ALPHA (2) = -0.246	BETA (2) = .009	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.000	-.2921	.0081	.4942	.6578	.6294	.5983	.5541
		.020			.4403	.3199	.3011	.2698	.2693
		.040		.1966	.3205				
		.050	-.2006			.0408	-.0310	.0190	-.0063
		.080				-.1527			
		.081			.0032				

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING (RELR24)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.246 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.086		.2552					
.094	-.1326						
.150				-.1498	-.1990	-.2662	-.3375
.163		.2387					
.177			-.2084				
.229	.1153						
.246		-.0259					
.250				-.3362	-.3934	-.4473	-.5277
.274			-.2289				
.362	.1810						
.390		-.1755					
.400				-.4221	-.4578		-.6307
.402			-.2642				
.497	-.1342			-.0154	-.0936		
.550							
.565			.0702				
.600							-.6060
.650						-.1028	
.700	.1517				-.1210		
.725				.0000			
.750						-.0590	-.0862
.760			-.0015				
.775				-.0679	-.1333		
.808			-.0337				
.834	.0200						
.850				-.1114	-.1536	.0696	
.857			-.1268				
.865	-.0127						
.900	-.1731			-.0511			.0634
.905			-.1249		.0728		
.950				.0274		.1262	
.953			-.0554				
.965	-.0887						

ALPHA (2) = -.273 BETA (3) = 4.025

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.0469	.0235	.5181	.7118	.6729	.6899	.6437
.020			.4125	.2468	.2301	.1710	.1596
.040		.2086	.2566				
.050	-.0105			-.0443	-.1262	-.1120	-.1608
.080				-.2384			
.081			-.1705				
.086		.2401					
.094	.0858						
.150				-.4215	-.4054	-.4034	-.4541

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR24)

SECTION (1) TOP WING

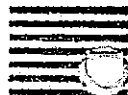
DEPENDENT VARIABLE CP

ALPHA (2) = -.273 BETA (3) = 4.025

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.163		.1792					
.177			-.3259				
.229	.1355						
.246		-.1168					
.257				-.4921	-.5570	-.5841	-.6243
.274			-.3887				
.362	.1462						
.390		-.2967					
.400				-.5718	-.6697		-.7319
.402			-.4399				
.497	-.2108						
.550				-.2010	-.5119		
.565			-.0864				
.600							-.6705
.650						-.5440	
.700	.0279				-.2376		
.725				.0200			
.750						-.3556	-.6287
.760			.0358				
.775				-.0493	-.2150		
.808			.0054				
.834	.0650						
.850				.0350	-.0005	-.1880	
.857			-.0619				
.865	.0353						
.900	-.1391			.0920			-.4476
.905			-.0134		.1004		
.950				.1042		-.0294	
.953			.0579				
.965	.0554						

ALPHA (3) = 5.804 BETA (1) = -.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2841	-.1458	.4588	.6595	.6095	.6285	.5645
.020			.3710	.1828	.1458	.0419	-.0221
.040		.1521	.2196				
.050	-.1782			-.0894	-.1964	-.2294	-.3225
.080				-.2696			
.081			-.1867				
.086		.2087					
.094	-.1155						
.150				-.4403	-.4532	-.4811	-.5533
.163		.1698					
.177			-.3161				
.229	.1374						



DATE 01 MAY 75

TABLATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS-STRUT SRB-OFF MPS-OFF TOP WING (REUR24)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.804 BETA (1) = -.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		-.1133					
.250				-.4992	-.5766	-.6436	-.6988
.274			-.3572				
.362	.1522						
.390		-.2691					
.400				-.5475	-.6740		-.7827
.402			-.4191				
.497	-.1905						
.590				-.1871	-.3304		
.565			-.0854				-.7591
.600						-.5790	
.690					-.2556		
.700	.0279						
.725				.0000			
.750						-.3892	-.6141
.760			-.0373				
.775				-.0922	-.2232		
.808			-.0681				
.834	-.0209						
.890				-.1037	-.0718	-.1196	
.857			-.1448				
.865	-.0414						
.900	-.1984			-.0320			-.4144
.905			-.1439		.0468		
.920				.0026		.0573	
.953			-.0716				
.965	-.1155						

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TCF WING

(REUR25) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) TCF WING

DEPENDENT VARIABLE CP

ALPHA (1) = -3.975	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.1838	-.0171	.2015	.4776	.4834	.3649	.2413
		.020			.3696	.4244	.4268	.4479	.4490
		.040		.0242	.2980				
		.060	-.1761			.1973	.1669	.2692	.2634
		.080				.0275			
		.081			.0746				
		.086		.0625					
		.094	-.1160						
		.150				-.0136	-.0413	-.0490	-.0596
		.163		.1421					
		.177			-.1057				
		.229	-.0279						
		.246		-.0211					
		.250				-.2201	-.2274	-.2237	-.2544
		.274			-.1657				
		.362	.0066						
		.390		-.1931					
		.400				-.3323	-.3524		-.4224
		.402			-.2445				
		.497	-.1099						
		.550				-.0823	-.3417		
		.565			.0271				
		.600							-.4527
		.650						-.4261	
		.700	.1193				-.0628		
		.725				.0000			
		.750						-.2192	-.3649
		.760			.0721				
		.775				.0449	-.0429		
		.808			.0485				
		.834	.0601						
		.850				.0001	-.0703	-.0635	
		.857			-.0239				
		.865	.0347						
		.900	-.0833			.0143			-.1437
		.905			-.0224		.0082		
		.950				.0228		.0688	
		.953			.0058				
		.965	.0205						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(RELR25)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.255 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.3359	-.1448	.1719	.4481	.4619	.3472	.2386
.020			.2354	.3556	.3486	.3327	.3313
.040		-.0987	.1877				
.050	-.2536			.1345	.0833	.1562	.1399
.080				-.0321			
.081			.0224				
.086		-.0305					
.094	-.1941			-.0748	-.0945	-.1332	-.1637
.150							
.163		.0633					
.177			-.1593				
.229	-.0865						
.246		-.0671					
.250				-.2544	-.2740	-.2915	-.3317
.274			-.1852				
.362	-.0505						
.390		-.1743					
.400				-.3603	-.3886		-.4808
.402			-.2655				
.497	-.1387			-.0858	-.2505		
.550				.0167			
.565							-.5024
.600							
.650						-.3169	
.700	.0810				-.0879		
.725				.0000			
.750						-.2392	-.3485
.760			-.0010				
.775				-.0143	-.0719		
.808			-.0243				
.834	-.0060						
.850				-.0695	-.1344	-.0862	
.857			-.0914				
.865	-.0296						
.900	-.1408			-.0353			-.1441
.908			-.0949		-.0660		
.950				-.0473		.0353	
.953			-.0706				
.965	-.0784						

ALPHA (2) = -.285 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1748	-.0973	.3216	.5904	.5973	.5074	.4189
.020			.3562	.3512	.3579	.3354	.3467
.040		-.0071	.2379				
.050	-.1623			.1062	.0576	.1136	.1080
.080				-.0670			
.081			-.0694				

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ARC11-014IA19 QTS+STRUT SRB-OFF NPS-OFF TOP WING

(RELR25)

SECTION (1) TOP WING		DEPENDENT VARIABLE CP									
ALPHA (2) =	-.285	BETA (2) =	.012	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.086		.0277					
				.094	-.1022						
				.150				-.2094	-.2093	-.1704	-.1864
				.163		.0786					
				.177			-.2064				
				.229	-.0454						
				.246		-.0866					
				.290				-.3266	-.3077	-.3462	-.3703
				.274			-.2666				
				.362	-.0340						
				.390		-.2190					
				.400				-.4030	-.4617		-.5047
				.402			-.3023				
				.497	-.1579						
				.550				-.4052	-.4778		
				.565		-.2717					
				.600							-.5291
				.650						-.5569	
				.700	-.0812				-.2154		
				.725				.0000			
				.750						-.5382	-.4993
				.760			.0397				
				.775				-.0572	-.1963		
				.808			.0241				
				.834	.0540						
				.850				-.0079	-.1424	-.1893	
				.857		-.0302					
				.865	.0285						
				.900	-.0938			.0112			-.2696
				.905			-.0275		-.0568		
				.950				.0319		-.0910	
				.953		-.0081					
				.975	-.0117						
ALPHA (2) =	-.189	BETA (3) =	4.031	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.000	-.0595	-.0469	.4538	.7080	.6739	.6575	.6648
				.020			.4106	.3172	.3316	.3259	.3297
				.040		.0557	.2661				
				.050	-.0763			.0436	.0118	.0728	.0442
				.080				-.0981			
				.081			-.0845				
				.086		.0853					
				.094	-.0128						
				.150				-.2855	-.2599	-.2200	-.2421

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR25)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.189 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.163		.1337					
.177			-.2430				
.229	.0067						
.246		-.0755					
.250				-.3817	-.4084	-.3934	-.4184
.274			-.3354				
.362	.0464						
.390		-.2584					
.400				-.5099	-.5109		-.5351
.402			-.3823				
.497	-.1580						
.550				-.4931	-.5844		
.565			-.3986				
.600							-.5434
.650						-.6001	
.700	-.2990				-.3532		
.725				.0000			
.750						-.5680	-.5931
.760			-.0576				
.775				-.1967	-.2852		
.808			-.0510				
.834	.0684						
.850				-.0953	-.2439	-.2989	
.857			.0240				
.865	.0539						
.900	-.0544			.0032			-.4756
.905			.0277		-.2149		
.950				.0855		-.2817	
.953			.0524				
.965	.0507						

ALPHA (3) = 4.005 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1901	-.2727	.2962	.6425	.5969	.6590	.6131
.020			.2827	.2013	.1954	.1729	.1327
.040		-.0941	-.1325				
.050	-.1369			-.0752	-.1195	-.0801	-.1480
.080				-.2321			
.081			-.1716				
.086		-.0497					
.094	-.1153						
.150				-.3809	-.3516	-.3288	-.3748
.163		.0006					
.177			-.3203				
.229	-.0974						

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR25)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 4.005	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.700	.887
		.246		-.1717					
		.250				-.4481	-.4831	-.4799	-.5100
		.274			-.3941				
		.362	-.0769						
		.390		-.2936					
		.400				-.5319	-.5676		-.6007
		.402			-.3801				
		.497	-.1985						
		.590				-.4767	-.6003		
		.565			-.3787				
		.600							-.6049
		.690						-.6534	
		.700	-.2669				-.3350		
		.725				.0000			
		.790						-.6243	-.6168
		.760			-.0655				
		.775				-.1933	-.3038		
		.808			-.0635				
		.834	-.0026						
		.890					-.1010	-.2498	-.2906
		.857			-.0428				
		.665	-.0045						
		.900	-.1087				-.0258		-.4050
		.905				-.0416	-.1764		
		.950					.0286		-.2551
		.953			-.0192				
		.965	-.0193						

ARC11-0141A19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR26) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -3.909 BETA (1) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1166	-.0449	.2451	.4909	.5218	.4030	.2946
.020			.3808	.4571	.4621	.4642	.4824
.040		.0227	.2923				
.050	-.1051			.2394	.2129	.2970	.3185
.080				.0778			
.081			.0510				
.086		.0698					
.094	-.0949						
.150				-.0173	-.0019	.0160	.0195
.163		.1330					
.177			-.0830				
.229	-.0147						
.246		.0126					
.250				-.1753	-.1550	-.1413	-.1525
.274			-.1462				
.362	.0013						
.390		-.1327					
.400				-.2677	-.2934		-.3102
.402			-.2024				
.497	-.0921						
.550				-.3011	-.3303		
.565			-.2155				
.600							-.3547
.650						-.3720	
.700	-.0066				-.1642		
.725				.0000			
.750						-.3584	-.4142
.760			.0589				
.775				-.0188	-.1220		
.808			.0425				
.834	.0645						
.850				.0561	-.0631	-.2111	
.857			.0400				
.865	.0378						
.900	-.0256			.0923			-.3126
.905			.0434		-.0004		
.950				.1122		-.1181	
.953			.0612				
.965	.0665						

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REL26)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.243	BETA (1) = -4.000	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.000	-.2413	-.1428	.1756	.4768	.4811	.3658	.2893
		.020			.2476	.3689	.3659	.3434	.3581
		.040		-.0714	.1962				
		.050	-.2030			.1644	.1227	.1695	.1751
		.080				.0078			
		.081			.0087				
		.086		-.0115					
		.094	-.1713						
		.150				-.1052	-.1036	-.0770	-.0866
		.163		.0607					
		.177			-.1292				
		.229	-.0598						
		.246		-.0560					
		.250				-.2379	-.2220	-.2261	-.2441
		.274			-.1948				
		.362	-.0431						
		.390		-.1702					
		.400				-.3108	-.3448		-.3711
		.402			-.2346				
		.497	-.1358						
		.590				-.3247	-.3639		
		.565			-.2276				
		.600							-.4024
		.690						-.4136	
		.700	-.0494				-.1680		
		.725				.0000			
		.750						-.3986	-.4604
		.760			.0284				
		.775				-.0298	-.1434		
		.808			.0106				
		.834	.0319						
		.850				-.0192	-.1034	-.1900	
		.857			-.0407				
		.865	.0168						
		.900	-.0901			.0203			-.2953
		.905			-.0328		-.0343		
		.950				.0428		-.1257	
		.953			-.0128				
		.965	-.0324						

ALPHA (2) = -.237 BETA (2) = .012

2Y/B	.299	.364	.427	.534	.641	.780	.887
X/C							
.000	-.0938	-.0966	.2935	.6144	.6203	.5203	.4406
.020			.3352	.3772	.3961	.3912	.4072
.040		.0039	.2281				
.050	-.1031			.1341	.1212	.1855	.1787
.080				-.0114			
.081			-.0248				



ARC11-0141A19 OTS+STRUT SER-OFF MFB-OFF TOP WING (REL26)

SECTION (1) TOP WING DEPENDENT VARIABLE CF

ALPHA (2) = -.237 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.086		.0425					
.094	-.0853						
.150				-.1474	-.1344	-.0852	-.0859
.163		.0886					
.177			-.1586				
.229	-.0401						
.246		-.0547					
.251				-.2628	-.2587	-.2518	-.2567
.274			-.2356				
.362	-.0131						
.390		-.1976					
.400				-.3677	-.3790		-.3905
.402			-.2719				
.497	-.1378						
.550				-.3689	-.4347		
.565		-.2392					
.600							-.4357
.650						-.4438	
.700	-.2117				-.3805		
.725				.0000			
.750						-.4386	-.4547
.800			-.0361				
.775				-.1331	-.2515		
.808			-.0305				
.834	.0388						
.850				-.0684	-.1541	-.3366	
.857			.0094				
.865	.0257						
.900	-.0498			-.0009			-.3530
.905			.0121		-.1271		
.950				.0570		-.1864	
.953			.0323				
.965	.0169						

ALPHA (2) = -.234 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	.0180	-.0190	.4107	.7403	.7040	.6603	.5944
.020			.4083	.3940	.4088	.4138	.4315
.040		.0729	.2758				
.050	-.0143			.1286	.1052	.1807	.1752
.080				-.0327			
.081			-.0090				
.086		.0924					
.094	.0035						
.150				-.1890	-.1467	-.1049	-.1049

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ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR26)

SECTION : WING

DEPENDENT VARIABLE CP

ALPHA (2) = - .234	BETA (3) = 4.031	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.163		.1259					
		.177			-.1575				
		.229	.0058						
		.246		-.0325					
		.250				-.2761	-.2886	-.2664	-.2748
		.274			-.2576				
		.362	.0312						
		.390		-.1929					
		.400				-.4038	-.3967		-.4042
		.402			-.2902				
		.497	-.1051						
		.550				-.3931	-.4547		
		.565			-.3091				
		.600							-.4319
		.650						-.4765	
		.700	-.2339				-.4545		
		.725				.0000			
		.750						-.4619	-.4123
		.760			-.1131				
		.775				-.1900	-.4427		
		.808			-.1113				
		.834	.0006						
		.850				-.1283	-.1872	-.4130	
		.857			-.0275				
		.865	.0076						
		.900	-.0133			-.0926			-.3700
		.905				.0248	-.1391		
		.950				-.0375		-.2816	
		.953			.0789				
		.965	.0721						
ALPHA (3) = 4.047	BETA (1) = .006	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.000	-.1275	-.2560	.2731	.6663	.6360	.6399	.5896
		.020			.2687	.2789	.2897	.2720	.2718
		.040		-.0740	.1608				
		.050	-.0997			.0193	-.0392	.0369	.0070
		.080				-.1335			
		.081			-.1087				
		.086		-.0408					
		.094	-.0761						
		.150				-.3004	-.2479	-.2186	-.2326
		.163		.0124					
		.177			-.2457				
		.229	-.0784						



ARC11-0141A19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR26)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 4.047	BETA (1) = .006	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		-.1224					
		.250				-.3562	-.3803	-.3599	-.3682
		.274			-.3351				
		.362	-.0468						
		.390		-.2701					
		.400				-.4594	-.4762		-.4734
		.402			-.3594				
		.497	-.1836						
		.550				-.4572	-.5055		
		.565			-.3598				
		.600							-.4970
		.650						-.5390	
		.700	-.2854				-.5064		
		.725				.0000			
		.750						-.5258	-.4906
		.760			-.1619				
		.775				-.2284	-.3440		
		.808			-.1530				
		.834	-.0141						
		.850				-.2017	-.2597	-.3429	
		.857			-.0623				
		.865	-.0219						
		.900	-.0715			-.1350			-.4623
		.905			-.0175		-.2348		
		.950				-.0493		-.2707	
		.953			.0160				
		.965	.0018						

ARC11-014IA19 QTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR27) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

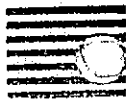
PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.125	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.0472	.0636	.1843	.3506	.3382	.1199	-.0195
		.020			.3717	.3418	.3425	.3314	.2946
		.040		.1314	.2872				
		.050	.0158			.0994	.0640	.1294	.0618
		.080				-.0485			
		.081			.0303				
		.086		.1840					
		.094	.0650						
		.150				-.1546	-.2277	-.2410	-.3255
		.163		.1790					
		.177			-.1789				
		.229	.0670						
		.246		-.1144					
		.250				-.2913	-.3397	-.4590	-.5811
		.274			-.2362				
		.362	.0620						
		.390		-.1925					
		.400				-.3509	-.3630		-.6959
		.402			-.2988				
		.497	-.1590						
		.550				-.2473	-.3318		
		.565			-.1503				
		.600							-.4893
		.650						-.3834	
		.700	-.0363				-.4249		
		.725				.0000			
		.750						-.3603	-.2453
		.760			-.2826				
		.775				-.3603	-.4161		
		.808			-.3190				
		.834	-.2706						
		.850				-.3643	-.4439	-.1475	
		.857			-.4194				
		.865	-.2954						
		.900	-.4136			-.2130			-.0951
		.905			-.2710		-.1249		
		.950				-.1170		-.1006	
		.953			-.1382				
		.965	-.2204						



ARC11-0141A19 OTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR27)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.396 BETA (1) = -4.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2382	-.0484	.0655	.3547	.3225	.1586	.0433
.020			.2434	.2746	.2526	.2220	.1759
.040		.0023	.2015				
.050	-.1181			.0194	-.0282	-.0016	-.0742
.080				-.1271			
.081			.0117				
.086		.0693					
.094	-.0621						
.150				-.2064	-.3094	-.3354	-.4407
.163		.1151					
.177			-.1951				
.229	-.0038						
.246		-.1289					
.250				-.3456	-.3869	-.5378	-.6894
.274			-.2555				
.362	.0155						
.390		-.2189					
.400				-.4083	-.4539		-.8052
.402			-.3084				
.497	-.1808						
.550				-.3194	-.4083		
.565			-.2213				
.600							-.5703
.650						-.4893	
.700	-.1144				-.5005		
.725				.0000			
.750						-.4527	-.4106
.760			-.3784				
.775				-.4457	-.5295		
.808			-.4113				
.834	-.3706						
.850				-.5119	-.5956	-.3097	
.857			-.5096				
.865	-.3926						
.900	-.4660			-.4365			-.2022
.905			-.4459		-.3481		
.950				-.2895		-.1994	
.953			-.3188				
.965	-.3833						

ALPHA (2) = -.408 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1497	.0363	.3323	.4903	.4810	.3970	.3139
.020			.3311	.2018	.1934	.1523	.1222
.040		.1181	.2072				
.050	-.0242			-.1115	-.1523	-.1216	-.1784
.080				-.3028			
.081			-.1213				

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR27)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.408	BETA (2) = .009	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.086		.1530					
		.094	.0336						
		.150				-.3074	-.4271	-.5107	-.5863
		.163		.1065					
		.177			-.4204				
		.229	.0389						
		.246		-.2298					
		.257				-.5407	-.6092	-.6949	-.8048
		.274			-.4050				
		.362	.0054						
		.390		-.3384					
		.400				-.6006	-.6357		-.8226
		.402			-.4413				
		.497	-.2457						
		.550				-.2851	-.3864		
		.565			-.1779				
		.600							-.6669
		.657						-.3770	
		.700	-.0677				-.4449		
		.725				.0000			
		.750						-.3402	-.2776
		.760			-.2888				
		.775				-.3715	-.4396		
		.808			-.3239				
		.834	-.2725						
		.850				-.3609	-.3760	-.1341	
		.857			-.4273				
		.865	-.3015						
		.900	-.4141			-.2287			-.1187
		.905			-.2868		-.0895		
		.950				-.1498		-.0772	
		.953			-.1562				
		.965	-.2366						

ALPHA (2) = -.336 BETA (3) = 4.025

2Y/B	.299	.364	.427	.534	.641	.780	.887
X/C							
.000	-.0609	.0188	.4013	.5762	.5316	.5320	.4638
.020			.2894	.0901	.0581	-.0069	-.0173
.040		.1270	.1238				
.050	.0306			-.2603	-.3595	-.3316	-.3577
.080				-.4889			
.081			-.2907				
.086		.1360					
.094	.0814						
.150				-.4948	-.5953	-.6232	-.7222

ARC11-014IA19 QTS+STRUT SRB-NOM MPS-NOM TOP WING

(REL#27)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -0.336	BETA (3) = 4.025	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.163		.0318					
		.177			-.5381				
		.229	.0020						
		.246		-.3211					
		.250				-.7204	-.7747	-.8650	-.9491
		.274			-.5708				
		.362	-.0250						
		.390		-.4824					
		.400				-.7481	-.8940		-1.0095
		.402			-.5856				
		.497	-.4411						
		.550				-.2789	-.3659		
		.565			-.1747				
		.600							-.5724
		.650						-.4583	
		.700	-.0748				-.2097		
		.725				.0000			
		.750						-.2525	-.3744
		.760			-.1726				
		.775				-.1703	-.1820		
		.808			-.1915				
		.834	-.1800						
		.850				-.0331	-.0646	.0012	
		.857			-.0699				
		.865	-.1956						
		.900	-.1776			-.0018			-.2051
		.905			-.0258		.0321		
		.950				-.0236		.0293	
		.953			-.0600				
		.965	-.0375						

ALPHA (3) = 3.792	BETA (1) = -.003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.0000	-.3482	-.0968	.3516	.5323	.4680	.4783	.3948
		.020			.2454	.0220	-.0378	-.1504	-.2091
		.040		.0558	.0783				
		.050	-.0989			-.3202	-.4412	-.4741	-.5622
		.080				-.5420			
		.081			-.3330				
		.086		.0815					
		.094	-.0225						
		.150				-.5904	-.7315	-.7779	-.8588
		.163		-.0009					
		.177			-.5693				
		.229	.0020						

ARC11-0141A19 OTS+STRUT SRB-NOM MPS-NOM TOP WING

(RELR27)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.792	BETA (1) = -.003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		-.3364					
		.250				-.7783	-.8410	-.9384	-1.0386
		.274			-.6001				
		.362	-.0576						
		.390		-.5225					
		.400				-.8395	-.9236		-1.1478
		.402			-.6013				
		.497	-.4717						
		.550				-.3504	-.4623		
		.565			-.2354				
		.600							-.7316
		.650						-.5374	
		.700	-.1374				-.3866		
		.725				.0000			
		.750						-.4019	-.6943
		.760			-.3206				
		.775				-.3886	-.3096		
		.808			-.3455				
		.834	-.3152						
		.850				-.2952	-.2898	-.2514	
		.857			-.3512				
		.865	-.3360						
		.900	-.4294						
		.905			-.2165		-.1266		-.5208
		.950				-.1683		-.1409	
		.953			-.1598				
		.965	-.1934						

ARC11-0141A19 OTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR28) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.191 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2843	.0453	.4143	.5442	.5335	.3732	.2764
.020			.4855	.4352	.4592	.4673	.4644
.040		.2030	.4016				
.060	-.1954			.1948	.2062	.2643	.2464
.080				.0439			
.081			.1583				
.086		.2762					
.094	-.0289						
.191				.0356	-.0488	-.0466	-.0890
.163		.2988					
.177			-.1104				
.229	.0356						
.246		.0405					
.291				-.1598	-.1712	-.1906	-.2985
.274			-.0609				
.362	.2032						
.390		-.0216					
.400				-.1566	-.1402		-.4232
.402			-.0797				
.497	.0206						
.591				.0180	-.0580		
.565			.1070				
.600							-.2386
.690						-.1281	
.700	.2017				-.1201		
.725				.0000			
.750						-.0952	-.0283
.760		.0033					
.775			-.0626	-.1374			
.808		-.0295					
.834	.0190						
.850				-.1237	-.2044	.0919	
.857			-.1310				
.865	-.0181						
.900	-.1733			-.0810			.1323
.915			-.1239		.0182		
.950				-.0006		.1248	
.953			-.0589				
.965	-.0799						

ARC11-0141A19 QTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR28)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.465 BETA (1) = -4.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.4881	.0064	.2225	.5476	.5101	.3783	.3012
.020			.3093	.3966	.3934	.3772	.3696
.040		.0711	.2911				
.050	-.2743			.1633	.1496	.1780	.1471
.080				.0328			
.081			.1736				
.086		.1487					
.094	-.1139						
.150				.0025	-.0789	-.1033	-.1639
.163		.2414					
.177			-.0097				
.229	.0430						
.246		.0666					
.250				-.1071	-.1585	-.2400	-.3560
.274			-.0402				
.362	.1654						
.390		-.0103					
.400				-.1540	-.1698		-.4606
.402			-.0466				
.497	.0182						
.550				-.0304	-.1078		
.565			.0559				
.600							-.2767
.650						-.1947	
.700	.1384				-.1612		
.725				.0000			
.750						-.1578	-.1181
.760			-.0690				
.775				-.1221	-.1932		
.808			-.0998				
.834	-.0635			-.1969	-.2915	-.0706	
.850				-.2021			
.865	-.0930						
.900	-.2309			-.1761			.0538
.905			-.1936		-.1424		
.950				-.1488		.0442	
.953			-.1560				
.965	-.1764						

ALPHA (2) = -.447 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2949	-.0472	.4926	.6592	.6315	.5005	.5523
.020			.4421	.3226	.3095	.2796	.2820
.040		.1855	.3199				
.050	-.2041			.0446	-.0216	.0397	.0114
.080				-.1456			
.081			.0038				

ARC11-014IA19 QTS+STRUT SRB-NOM MPS-NOM TOP WING

(REL28)

SECTION (1) TOP WING	DEPENDENT VARIABLE CP								
ALPHA (2) = -.447 BETA (2) = .012	2Y/B	.299	.364	.427	.534	.641	.780	.887	
	X/C								
	.086		.2515						
	.094	-.1372							
	.150				-.1403	-.1911	-.2597	-.3246	
	.163		.2367						
	.177			-.2023					
	.229	.0473							
	.246		-.0220						
	.251				-.3241	-.3801	-.4407	-.5196	
	.274			-.2217					
	.362	.1784							
	.390		-.1733						
	.400				-.4008	-.4502		-.6193	
	.402				-.2456				
	.497	-.1311							
	.550				-.0141	-.0909			
	.565				.0708				
	.600							-.5963	
	.650						-.1038		
	.700	.1540				-.1175			
	.725				.0000				
	.750						-.0564	-.0771	
	.760				.0019				
	.775				-.0653	-.1299			
	.808				-.0305				
	.834	.0211							
	.850				-.1077	-.1516	.0736		
	.857				-.1221				
	.865	-.0091							
	.900	-.1637			-.0492			.0738	
	.905				-.1201	.0751			
	.950				.0322		.1311		
	.953				-.0489				
	.965	-.0869							
ALPHA (2) = -.405 BETA (3) = 4.031	2Y/B	.299	.364	.427	.534	.641	.780	.887	
	X/C								
	.000	-.0547	.0294	.5209	.7134	.6766	.6924	.6428	
	.020			.4181	.2522	.2373	.1810	.1695	
	.040		.2142	.2620					
	.050	-.0139			-.0401	-.1178	-.0999	-.1531	
	.080				-.2317				
	.081			-.1644					
	.086		.2443						
	.094	.0793							
	.150				-.4140	-.3997	-.3944	-.4452	

ARC11-0141A19 OTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR28)

SECTION (1) TOP WING

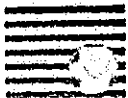
DEPENDENT VARIABLE CP

ALPHA (2) = -.405 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.163		.1836					
.177			-.3201				
.229	.1369						
.246		-.1127					
.250				-.4887	-.5461	-.5771	-.6193
.274			-.3851				
.362	.1497						
.390		-.2927					
.400				-.5667	-.6659		-.7271
.402			-.4366				
.497	-.2086						
.550				-.1975	-.4535		
.565			-.0791				
.600							-.6604
.650						-.5431	
.700	.0345				-.2374		
.725				.0020			
.750						-.3302	-.6225
.760			.0401				
.775				-.0389	-.2068		
.808			.0089				
.834	.0694						
.850				.0415	.0059	-.1615	
.857			-.0554				
.865	.0367						
.900	-.1322			.0994			-.4384
.905			-.0069		.1061		
.950				.1111		.0024	
.953			.0657				
.965	.0673						

ALPHA (3) = 3.819 BETA (1) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2848	-.1947	.4545	.6580	.6147	.6337	.5703
.020			.3695	.1877	.1901	.0466	-.0117
.040		.1398	.2197				
.050	-.1864			-.0869	-.1895	-.2221	-.3111
.080				-.2642			
.081			-.1836				
.086		.2042					
.094	-.1265						
.150				-.4334	-.4456	-.4746	-.5438
.163		.1695					
.177			-.3114				
.229	.1020						



ARC11-0141A19 OTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR28)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.819	BETA (1) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.248		-.1124					
		.291				-.4908	-.5725	-.6321	-.6882
		.274			-.3484				
		.362	.1537						
		.391		-.2617					
		.400				-.5364	-.6552		-.7755
		.402			-.4102				
		.497	-.1839						
		.550				-.1757	-.3156		
		.565			-.0714				
		.600							-.7529
		.691						-.5595	
		.700	.0415				-.2427		
		.725				.0000			
		.751						-.3887	-.5574
		.761			-.0327				
		.775				-.0867	-.2076		
		.808			-.0626				
		.834	-.0145						
		.891				-.0960	-.0666	-.0962	
		.857			-.1377				
		.865	-.0356						
		.900	-.1871			-.0273			-.3963
		.905			-.1370		.0542		
		.950				.0072		.0745	
		.953			-.0655				
		.965	-.1098						

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ARC11-014IA19 QTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR29) (10 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.250
 GINGAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.080	BETA (1) = .006	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.1831	-.0128	.2046	.4747	.4829	.3646	.2412
		.020			.3709	.4286	.4370	.4517	.4565
		.040		.0264	.3006				
		.050	-.1759			.2055	.1700	.2766	.2677
		.080				.0303			
		.081			.0784				
		.086		.0655					
		.094	-.1184						
		.150				-.0116	-.0375	-.0425	-.0526
		.163		.1469					
		.177			-.1038				
		.229	-.0235						
		.246		-.0186					
		.250				-.2190	-.2216	-.2175	-.2508
		.274			-.1612				
		.362	.0118						
		.390		-.1488					
		.400				-.3290	-.3459		-.4179
		.402			-.2381				
		.497	-.1062						
		.550				-.0745	-.3291		
		.565			.0314				
		.600							-.4476
		.650						-.4273	
		.700	.1243				-.0562		
		.725				.0000			
		.750						-.2139	-.3606
		.760			.0753				
		.775				.0483	-.0384		
		.808			.0522				
		.834	.0633						
		.850				.0042	-.0651	-.0592	
		.857			-.0185				
		.865	.0410						
		.900	-.0695			.0199			-.1366
		.905			-.0133		.0129		
		.950				.0310		.0732	
		.953			.0162				
		.965	.0210						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - TA19 (ARC 11-014)

PAGE 265

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR29)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -0.375	BETA (1) = -3.997	2Y/B	.299	.364	.427	.534	.641	.780	.887		
		X/C									
		.000	-.3355	-.1386	.1728	.4403	.4580	.3444	.2353		
		.020			.2425	.3563	.3513	.3389	.3362		
		.040		-.0963	.1953						
		.050	-.2574			.1373	.0918	.1637	.1478		
		.080				-.0284					
		.081			.0344						
		.086		-.0274							
		.094	-.1883								
		.150				-.0690	-.0882	-.1261	-.1545		
		.163		.0680							
		.177			-.1540						
		.229	-.0841								
		.246		-.0634							
		.250				-.2481	-.2670	-.2831	-.3216		
		.274			-.1830						
		.362	-.0466								
		.390		-.1736							
		.400				-.3492	-.3801		-.4704		
		.402			-.2633						
		.497	-.1361								
		.550				-.0769	-.2291				
		.565			.0254						
		.600							-.4907		
		.650						-.3094			
		.710	.0885				-.0809				
		.725				.0000					
		.750						-.2244	-.3394		
		.760			.0030						
		.775				-.0114	-.0640				
		.808			-.0170						
		.834	.0004								
		.850				-.0636	-.1282	-.0805			
		.857			-.0842						
		.865	-.0244			-.0476			-.1356		
		.900	-.1250								
		.905			-.0852		-.0607				
		.950				-.0403		.0423			
		.953			-.0568						
		.965	-.0767								
		ALPHA (2) = -0.408	BETA (2) = .012	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.000	-.1709	-.0943	.2991	.5849	.5889	.4972	.4113
				.020			.3577	.3494	.3595	.3405	.3527
				.040		-.0098	.2403				
				.050	-.1629			.1092	.0618	.1166	.1153
				.080				-.0626			
				.081			-.0613				

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM TOP WING (REL29)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) =	BETA (2) =	2Y/B	.299	.364	.427	.534	.641	.780	.887
	.012	X/C							
		.086		.0271					
		.094	-.0989						
		.127				-.2013	-.2042	-.1622	-.1808
		.163		.0804					
		.177				-.2035			
		.229	-.0465						
		.246		-.0826					
		.257				-.3240	-.3073	-.3395	-.3636
		.274				-.2673			
		.362	-.0332						
		.397		-.2207					
		.400				-.4016	-.4583		-.4966
		.402				-.3023			
		.497	-.1577						
		.557				-.4013	-.4750		
		.565				-.2394			
		.600							-.5277
		.657						-.5517	
		.707	-.0750				-.2142		
		.725				.0000			
		.757						-.5335	-.4958
		.760				.0427			
		.775				-.0551	-.1883		
		.808				.0251			
		.834	.0524						
		.857				-.0053	-.1365	-.1890	
		.857				-.0276			
		.865	.0292						
		.907	-.0860			.0128			-.2529
		.905				-.0241	-.0529		
		.957				.0349		-.0998	
		.953				-.0011			
		.965	-.0159						

ALPHA (2) = -.381 BETA (3) = 4.031

2Y/B	.299	.364	.427	.534	.641	.780	.887
X/C							
.000	-.0588	-.0396	.4591	.7113	.6788	.6648	.6560
.020			.4156	.3291	.3428	.3376	.3440
.040		.0620	.2767				
.050	-.0763			.0605	.0229	.0850	.0624
.080				-.0882			
.081			-.0756				
.086		.0889					
.094	-.0095						
.157				-.2774	-.2513	-.2065	-.2277

DATE 01 MAY 73

TABULATED SOURCE PRESSURE DATA - 1A19 (ARC 11-014)

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ARC11-0141A19 QTS+STRUT SRB-NOM MPS-NOM TOP WING

'REUR29'

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -0.381 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.163		.1365					
.177			-.2336				
.229	.0100						
.246		-.0691					
.250				-.3739	-.3993	-.3832	-.4065
.274			-.3263				
.362	.0531						
.390		-.2486					
.400				-.5014	-.5036		-.5252
.402			-.3733				
.497	-.1512						
.550				-.4840	-.5772		
.565			-.3890				
.600							-.5497
.660						-.5371	
.700	-.2943				-.3427		
.725				.0000			
.750						-.5582	-.5821
.760			-.0461				
.775				-.1880	-.2793		
.808			-.0396				
.834	.0717						
.850				-.0915	-.2375	-.2901	
.857			.0289				
.865	.0574						
.900	-.0453			.0127			-.4636
.905			.0341		-.2006		
.950				.0934		-.2716	
.953			.0573				
.965	.0564						

ALPHA (3) = 3.843 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1876	-.2694	.3048	.6463	.8003	.6619	.6157
.020			.2930	.2049	.2026	.1795	-.1392
.040		-.0870	.1401				
.050	-.1368			-.0685	-.1122	-.0738	-.1423
.080				-.2280			
.081			-.1650				
.086		-.0436					
.094	-.1149						
.150				-.3768	-.3419	-.3234	-.3686
.163		.0052					
.177			-.3122				
.229	-.0943						

ARC11-014IA19 DIS+STRUT SRB-NOM MPS-NOM TOP WING

(REL29)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.843	BETA (1) = .003	2Y/B Y/C	.299	.364	.427	.534	.641	.780	.887
		.246		-.1647					
		.250				-.4451	-.4768	-.4750	-.5051
		.274			-.3872				
		.362	-.0728						
		.390		-.2770					
		.400				-.5277	-.5591		-.5974
		.402			-.3718				
		.497	-.1890						
		.550				-.4737	-.5959		
		.565			-.3751				
		.600							-.6019
		.650						-.6485	
		.700	-.2568				-.3239		
		.725				.0000			
		.750						-.6201	-.6129
		.760			-.0564				
		.775				-.1880	-.2901		
		.808			-.0554				
		.834	.0073						
		.850				-.0894	-.2396	-.2850	
		.85			-.0389				
		.865	.0014						
		.900	-.0983			-.0174			-.3994
		.905			-.0359		-.1716		
		.990				.0336		-.2483	
		.953			-.0121				
		.965	-.0199						

ARC11-0141A19 OTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR30) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. YT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.224	BETA (1) = .006	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.1214	-.0482	.2371	.4873	.5187	.3971	.2876
		.020			.3785	.4515	.4628	.4596	.4837
		.040		.0178	.2915				
		.057	-.1074			.2346	.2151	.2968	.3203
		.080				.0751			
		.081			.0495				
		.086		.0679					
		.094	-.0986						
		.150				-.0193	.0009	.0167	.0165
		.163		.1332					
		.177			-.0849				
		.229	-.0153						
		.246		.0106					
		.250				-.1737	-.1567	-.1436	-.1558
		.274			-.1478				
		.362	-.0015						
		.390		-.1337					
		.400				-.2670	-.2934		-.3129
		.402			-.2039				
		.497	-.0964						
		.550				-.3004	-.3320		
		.565			-.2181				
		.600							-.3567
		.650						-.3744	
		.700	-.0103				-.1633		
		.725				.0000			
		.750						-.3608	-.4174
		.760			.0560				
		.775				-.0180	-.1224		
		.808			.0407				
		.834	.0597						
		.850				.0570	-.0628	-.2120	
		.857			.0362				
		.865	.0357						
		.900	-.0200			.0900			-.3121
		.905			.0425		.0049		
		.950				.1094		-.1181	
		.953			.0632				
		.965	.0597						

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ARC11-014IA19 QTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR30)

SECTION (1) TOP WING

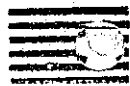
DEPENDENT VARIABLE CP

ALPHA (2) = -.444 BETA (1) = -3.997

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2414	-.1449	.1662	.4714	.4777	.3617	.2765
.020			.2454	.3715	.3673	.3439	.3593
.040		-.0709	.1973				
.050	-.2037			.1644	.1233	.1720	.1806
.080				.0360			
.081			.00193				
.086		-.0116					
.094	-.1736						
.150				-.1069	-.1020	-.0765	-.0844
.163		.0617					
.177			-.1262				
.229	-.0620						
.246		-.0552					
.250				-.2354	-.2220	-.2223	-.2418
.274			-.1930				
.362	-.0445						
.390		-.1693					
.400				-.3093	-.3420		-.3683
.402			-.2327				
.497	-.1380						
.550				-.3235	-.3624		
.565			-.2273				
.600							-.3999
.650						-.4128	
.700	-.0448				-.1652		
.725				.0000			
.750						-.3982	-.4632
.760			.0266				
.775			-.0264	-.1420			
.808			.0078				
.834	.0305						
.850				-.0197	-.1023	-.1909	
.857			-.0384				
.865	.0038						
.900	-.0814			.0232			-.2933
.905			-.0302		-.0311		
.950				.0423		-.1287	
.953			-.0062				
.965	-.0368						

ALPHA (2) = -.405 BETA (2) = .016

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.0928	-.0887	.2914	.6141	.5990	.5181	.4315
.020			.3408	.3832	.4007	.3965	.4141
.040		.0080	.2359				
.050	-.1023			.1424	.1275	.1934	.1855
.080				-.0017			
.081			-.0205				



DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 QTS+STRUT SRB-NOM MPS-NOM TOP WING (REUR30)

SECTION (1) TOP WING		DEPENDENT VARIABLE CP									
ALPHA (2) =	BETA (2) =	2Y/B	.299	.364	.427	.534	.641	.780	.887		
		X/C									
	.016	.086		.0446							
		.094	-.0888								
		.150				-.1436	-.1267	-.0804	-.0796		
		.163		.0933							
		.177			-.1501						
		.229	-.0343								
		.246		-.0504							
		.291				-.2571	-.2509	-.2458	-.2524		
		.274			-.2288						
		.362	-.0123								
		.390		-.1947							
		.400				-.3609	-.3742		-.3851		
		.402			-.2669						
		.497	-.1363								
		.550				-.3634	-.4275				
		.565		-.2839							
		.600							-.4300		
		.650						-.4394			
		.700	-.2032				-.3704				
		.725				.0000					
		.750						-.4346	-.4507		
		.760			-.0249						
		.775				-.1268	-.2357				
		.808			-.0225						
		.834	.0402								
		.850				-.0611	-.1501	-.3279			
		.857			.0119						
		.865	.0254								
		.900	-.0450			.0040			-.3475		
		.905			.0128		-.1226				
		.950				.0606		-.1868			
		.953			.0371						
		.965	.0146								
ALPHA (2) =	BETA (3) =	2Y/B	.299	.364	.427	.534	.641	.780	.887		
	4.031	X/C									
		.000	.0226	-.0106	.4181	.7448	.7093	.6607	.5946		
		.020			.4158	.4068	.4209	.4246	.4446		
		.040		.0775	.2835						
		.050	-.0130			.1389	.1183	.1926	.1862		
		.080				-.0222					
		.081			-.0014						
		.086		.1003							
		.094	.0036								
		.150				-.1749	-.1386	-.0952	-.0947		

ARC11-014IA19 OY3+STRUT SRB-NOM MPS-NOM TOP WING

(REUR30)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -3.60	BETA (3) = 4.031	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.163		.1335					
		.177			-.1514				
		.229	.0076						
		.246		-.0243					
		.251				-.2696	-.2774	-.2562	-.2658
		.274			-.2486				
		.352	.0330						
		.390		-.1858					
		.400				-.3965	-.3961		-.3965
		.402			-.2827				
		.497	-.0997						
		.550				-.3874	-.4471		
		.565			-.3047				
		.610							-.4307
		.650						-.4691	
		.700	-.2257				-.4453		
		.725				.0000			
		.750						-.4534	-.4105
		.760			-.1027				
		.775				-.1816	-.4334		
		.808			-.1005				
		.834	.0073						
		.850				-.1193	-.1785	-.4088	
		.857			-.0141				
		.865	.0103						
		.900	-.0039			-.0822			-.3619
		.905			.0360		-.1547		
		.950				-.0318		-.2742	
		.953			.0894				
		.965	.0765						
ALPHA (3) = 3.819	BETA (1) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.1208	-.2477	.2771	.6688	.6371	.6366	.5925
		.020			.2684	.2853	.2970	.2794	.2810
		.040		-.0715	-.1613				
		.050	-.0960			.0257	-.0036	.0429	.0186
		.080				-.1270			
		.081			-.1052				
		.086		-.0328					
		.094	-.0754						
		.150				-.2957	-.2432	-.2105	-.2231
		.163		.0162					
		.177			-.2436				
		.229	-.0779						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - 1A19 (ARC 11-014)

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ARC11-0141A19 QTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR30)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.819	BETA (1) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		-.1180					
		.250				-.3495	-.3746	-.3545	-.3612
		.274			-.3308				
		.362	-.0445						
		.390		-.2652					
		.400				-.4533	-.4688		-.4680
		.402			-.3536				
		.497	-.1814						
		.550				-.4511	-.4998		
		.565			-.3559				
		.600							-.4852
		.650						-.5291	
		.700	-.2805				-.5023		
		.725				.0000			
		.750						-.5210	-.4792
		.760			-.1589				
		.775				-.2247	-.3392		
		.808			-.1556				
		.834	-.0135						
		.850				-.1961	-.2573	-.3420	
		.857			-.0585				
		.865	-.0207						
		.900	-.0616			-.1340			-.4557
		.915			-.0097		-.2298		
		.950				-.0488		-.2655	
		.953			.0247				
		.965	.0005						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - 1A19 (ARC 11-014)

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ARC11-014:1A19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR31) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-CB = .000
 RUDDER = .000 MACH = .900
 GIMBAL = 2.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.020	BETA (1) = .006	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.0352	.0655	.1849	.3495	.3425	.1209	-.0079
		.020			.3727	.3368	.3427	.3295	.2932
		.040		.1340	.2907				
		.050	.0161			.0869	.0678	.1244	.0515
		.080				-.0666			
		.081			.0377				
		.086		.1874					
		.094	.0651						
		.150				-.1536	-.2307	-.2606	-.3425
		.163		.1808					
		.177			-.1755				
		.229	.0673						
		.246		-.1194					
		.250				-.2879	-.3445	-.4637	-.6008
		.274			-.2366				
		.362	.0617						
		.390		-.1922					-.6734
		.400				-.3495	-.3597		
		.402			-.2975				
		.497	-.1518						
		.550				-.2506	-.3370		
		.565			-.1544				-.4689
		.600						-.3681	
		.650					-.4393		
		.700	-.0367			.0000			
		.725						-.3452	-.0922
		.750							
		.760			-.2837				
		.775				-.3577	-.3983		
		.808			-.3201				
		.834	-.2649						
		.850				-.1302	-.1417	-.0310	
		.857			-.2659				
		.865	-.2871						
		.900	-.2990			-.0414			-.0063
		.905				-.0859	.0054		
		.950				-.0306		-.0179	
		.953			-.0777				
		.965	-.1116						

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING (REUR31)

SECTION 1 TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.288 BETA (1) = -4.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2285	-.0449	.0616	.3635	.3340	.1572	.1694
.020			.2409	.2747	.2545	.2191	.1760
.040		.0061	.1948				
.060	-.1133			.0193	-.0281	.0016	-.0789
.080				-.1285			
.081			.0128				
.086		.0727					
.094	-.0564						
.150				-.1950	-.3085	-.3487	-.4409
.163		.1181					
.177			-.1972				
.229	.0033						
.246		-.1218					
.250				-.3419	-.3818	-.5355	-.6812
.274			-.2544				
.362	.0191						
.390		-.2137					
.400				-.4002	-.4500		-.7929
.402			-.3002				
.497	-.1746						
.550				-.3102	-.3976		
.565			-.2171				
.600							-.5606
.650						-.4744	
.700	-.1062				-.4912		
.725				.0000			
.750						-.4394	-.3922
.760			-.3691				
.775				-.4338	-.5189		
.808			-.4010				
.834	-.3550						
.850				-.4937	-.5593	-.2865	
.857			-.4942				
.865	-.3773						
.900	-.4295			-.3334			-.1702
.905			-.3701		-.2885		
.950				-.1564		-.1590	
.953			-.1980				
.965	-.2706						

ALPHA (2) = -.279 BETA (2) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1250	.0335	.3437	.5020	.4793	.4059	.3226
.020			.3357	.2079	.1898	.1574	.1332
.040		.1212	.2119				
.050	-.0192			-.1051	-.1545	-.1139	-.1771
.080				-.2969			
.081			-.1157				

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ARC11-014IA19 QTS+STRUT SRB-OFF MPS-OFF TOP WING

(RELR31)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.279	BETA (2) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.086		.1558					
		.094	.0396						
		.150				-.2896	-.4225	-.5109	-.5811
		.163		.1058					
		.177			-.4128				
		.229	.0450						
		.246		-.2276					
		.250				-.5360	-.6101	-.6798	-.7934
		.274			-.3912				
		.362	.0103						
		.390		-.3283					
		.400				-.5947	-.6286		-.9142
		.402			-.4254				
		.497	-.2436						
		.550				-.2747	-.3799		
		.565			-.1669				
		.600							-.6658
		.650						-.3518	
		.700	-.0638				-.4364		
		.725				.0000			
		.750						-.2990	-.2327
		.760			-.2744				
		.775				-.3633	-.4190		
		.808			-.3069				
		.834	-.2614						
		.850				-.3349	-.1232	.0041	
		.857			-.2737				
		.865	-.2877						
		.900	-.3905			-.1307			-.0749
		.905			-.0770		.0216		
		.950				-.0798		.0228	
		.953			-.0455				
		.965	-.1633						

ALPHA (2) = -.264	BETA (3) = 4.031	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.0353	.0171	.4027	.5772	.5349	.5335	.4780
		.020			.2860	.0873	.0511	-.0158	-.0255
		.040		.1287	.1223				
		.050	.0303			-.2632	-.3602	-.3351	-.3714
		.080				-.4946			
		.081			-.2989				
		.086		.1324					
		.094	.0812						
		.150				-.5305	-.6278	-.6335	-.7295

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR31)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -0.264 BETA (3) = 4.031

2Y/B %C	.299	.364	.427	.534	.641	.780	.887
.163		.0301					
.177			-.5435				
.229	.0590						
.246		-.3193					
.250				-.7518	-.7802	-.8650	-.9561
.274			-.5716				
.362	-.0261						
.390		-.4845					
.400				-.7697	-.8988		-.9195
.402			-.5763				
.497	-.4370						
.550				-.2583	-.3083		
.565		-.1644					
.600							-.5366
.650						-.4687	
.700	-.0648				-.2118		
.725				.0000			
.750						-.3185	-.3459
.760			-.1340				
.775				-.1370	-.1695		
.808			-.1285				
.834	-.1337						
.850				-.0150	-.0464	-.0401	
.857			-.0414				
.865	-.1361						
.900	-.1221			.0237			-.1888
.905				.0075	.0547		
.950				.0120		.0480	
.953			-.0259				
.965	-.0141						

ALPHA (3) = 3.978 BETA (1) = .000

2Y/B %C	.299	.364	.427	.534	.641	.780	.887
.000	-.3004	-.1056	.3489	.5324	.4688	.4729	.4248
.020			.2362	.0187	-.0439	-.1644	-.2283
.040		.0544	.0715				
.050	-.0966			-.3218	-.4469	-.4856	-.5751
.080				-.5479			
.081			-.3456				
.086		.0764					
.094	-.0172						
.150				-.6324	-.7376	-.7882	-.8750
.163		-.0047					
.177			-.5787				
.229	.0059						

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR31)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.978	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		-.3428					
		.250				-.7768	-.8478	-.9390	-1.0471
		.274			-.6112				
		.362	-.0526						
		.390		-.5163					
		.400				-.8196	-.9294		-.9689
		.402			-.6312				
		.497	-.4641						
		.550				-.3369	-.4092		
		.565			-.2355				
		.600							-.6466
		.690						-.5822	
		.700	-.1303				-.3517		
		.725				.0000			
		.750						-.4848	-.6226
		.760			-.2858				
		.775				-.3160	-.3102		
		.808			-.3151				
		.834	-.2886						
		.850				-.1782	-.2253	-.2892	
		.857			-.2522				
		.865	-.3066						
		.900	-.3553			-.0775			-.4588
		.905			-.1082		-.0545		
		.950				-.0562		-.1476	
		.953			-.0625				
		.965	-.1017						

ARC11-014TA19 QTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR32) (19 OCT 74)

REFERENCE DATA

SREF = 2690.4000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 2.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -3.906	BETA (1) = .000	2Y/R X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.2752	-.0353	.3860	.5447	.5562	.4054	.3162
		.020			.4477	.4063	.4583	.4641	.4583
		.040		.0531	.3578				
		.050	-.2108			.1564	.2005	.2512	.2292
		.080				-.0038			
		.081			.1173				
		.086		.1775					
		.094	-.0567						
		.150				.0499	-.0447	-.0609	-.1009
		.163		.2463					
		.177			-.1385				
		.229	-.0163						
		.246		.0141					
		.250				-.1552	-.1778	-.2192	-.3119
		.274			.0107				
		.362	.1668						
		.390		.0246					
		.400				-.1656	-.1545		-.4221
		.402			-.0852				
		.497	.0141						
		.550				.0238	-.0567		
		.565			.1060				
		.600							-.2317
		.650						-.1177	
		.700	.2045				-.1127		
		.725				.0000			
		.750						-.0833	-.0124
		.760			.0106				
		.775				-.0537	-.1264		
		.808			-.0216				
		.834	.0236						
		.850				-.1087	-.1909	.0692	
		.857			-.1209				
		.865	-.0076						
		.900	-.1619			-.0651			.1436
		.905			-.1133		.0383		
		.950				.0153		.1384	
		.953			-.0443				
		.965	-.0716						

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REL32)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) =	BETA (1) =	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.000	-.4450	-.0704	.2419	.5452	.5192	.3902	.3384
		.020			.2680	.3705	.3859	.3694	.3723
		.040		-.0013	.2495				
		.050	-.3162			.1283	.1386	.1705	.1503
		.080				-.0171			
		.081			.1432				
		.086		.1199					
		.094	-.1611			.0033	-.0764	-.1259	-.1636
		.157							
		.163		.2246					
		.177			-.0448				
		.229	-.0609						
		.246		.0645					
		.257				-.1380	-.1692	-.2418	-.3369
		.274			-.0365				
		.362	.1459						
		.390		-.0046					
		.400				-.1621	-.1778		-.4444
		.402			-.0490				
		.497	.0105						
		.557				-.0137	-.0862		
		.565			.0599				
		.610							-.2551
		.650						-.1730	
		.700	.1448				-.1405		
		.725				.0000			
		.750						-.1338	-.0748
		.760			-.0519				
		.775				-.0998	-.1699		
		.808			-.0813				
		.834	-.0411						
		.857				-.1697	-.2660	-.0351	
		.865	-.0700						
		.900	-.2078						.0879
		.905				-.1718	-.1128		
		.950						.0702	
		.953			-.1368				
		.965	-.1535						
		2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.000	-.2673	-.1230	.4603	.6394	.6059	.5951	.5732
		.020			.4078	.3063	.2840	.2551	.2557
		.040		.0133	.2925				
		.050	-.2058			.0333	-.0406	.0015	-.0009
		.080				-.1582			
		.081			-.0594				

ALPHA (2) = -.213 BETA (2) = .009

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR32)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.213	BETA (2) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.086		.1092					
		.094	-.1493						
		.150				-.2217	-.2567	-.2499	-.3127
		.163		.1969					
		.177			-.2318				
		.229	-.0571						
		.246		-.0659					
		.257				-.3967	-.4129	-.4502	-.5076
		.274			-.2746				
		.362	.1221						
		.390		-.2290					
		.400				-.4480	-.5073		-.6208
		.402			-.3449				
		.497	-.1705						
		.557				-.0037	-.1364		
		.565			.0832				
		.600							-.5809
		.650						-.0929	
		.700	.1341				-.0819		
		.725				.0000			
		.750						-.0372	-.1130
		.760			.0259				
		.775				-.0315	-.0966		
		.808			-.0039				
		.834	.0429						
		.850				-.0717	-.1017	.0982	
		.857			-.0931				
		.865	.0117						
		.900	-.1358			-.0038			.0559
		.905			-.0903		.1181		
		.950				.0723		.1489	
		.953			-.0102				
		.965	-.0549						

ALPHA (2) = -.219 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1272	-.0502	.4883	.6985	.6663	.6928	.6601
.020			.3869	.2239	.2225	.1733	.1646
.040		.1559	.2254				
.050	-.0335			-.0532	-.1266	-.1086	-.1496
.080				-.2365			
.081			-.1933				
.086		.1919					
.094	.0361						
.150				-.4321	-.4039	-.3938	-.4366

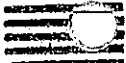
ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR32)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.219 BETA (3) = 4.028	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
	.163		.1485					
	.177			-.3357				
	.229	.0655						
	.246		-.1320					
	.250				-.4860	-.5590	-.5687	-.6061
	.274			-.4184				
	.362	.1076						
	.390		-.3076					
	.400				-.5906	-.6472		-.7127
	.402			-.4370				
	.497	-.2091						
	.550				-.2054	-.5236		
	.565			-.0810				
	.600							-.6556
	.650						-.5760	
	.700	.0205				-.2257		
	.725				.0000			
	.750						-.3252	-.6145
	.760			.0509				
	.775				-.0555	-.1733		
	.808			.0246				
	.834	.0849						
	.850				.0579	.0261	-.2108	
	.857			-.0340				
	.865	.0547						
	.900	-.1103			.1089			-.4460
	.905			.0055		.1309		
	.950				.1130		-.0384	
	.955			.0793				
	.965	.0731						
ALPHA (3) = 3.981 BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
	.000	-.2491	-.3368	.4183	.6528	.5972	.6396	.6063
	.020			.3448	.1641	.1347	.0343	-.0109
	.040		.0030	.1889				
	.050	-.2069			-.0961	-.2062	-.2268	-.3018
	.080				-.2498			
	.081			-.1956				
	.086		.1414					
	.094	-.1610						
	.150				-.4550	-.4525	-.4694	-.5234
	.163		.1336					
	.177			-.3236				
	.229	-.0469						



DATE 01 MAY 75

TABLULATED SOURCE PRESSURE DATA - TA19 (ARC 11-014)

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ARC11-014TA19 QTS+STRUT SRB-OFF MSB-OFF TOP WING

(REL32)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.981	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		-.1250					
		.250				-.4921	-.5936	-.6210	-.6659
		.274			-.3682				
		.362	.1224						
		.390		-.2831					
		.400				-.5623	-.6616		-.7647
		.402			-.3993				
		.497	-.1953						
		.550				-.1866	-.4512		
		.565			-.0643				
		.630							-.7177
		.650						-.5611	
		.700	.0006				-.2386		
		.725				.0000			
		.750						-.4939	-.6787
		.760			-.0027				
		.775				-.0869	-.1571		
		.808			-.0293				
		.834	.0099						
		.850				-.0540	-.0474	-.0863	
		.857			-.1010				
		.865	-.0091						
		.900	-.1591			.0186			-.4791
		.905			-.1020		.0718		
		.950				.0395		.1062	
		.953			-.0287				
		.965	-.0867						

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ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR33) (19 OCT 74)

REFERENCE DATA

SREF = 2000.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 2.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.044	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.1702	-.0180	.2083	.4757	.4835	.3649	.2628
		.020			.3713	.4244	.4252	.4440	.4534
		.040		.0271	.2996				
		.050	-.1737			.1988	.1640	.2688	.2655
		.080				.0249			
		.081			.0887				
		.086		.0633					
		.094	-.1164			-.0139	-.0406	-.0557	-.0554
		.150							
		.163		.1527					
		.177			-.1094				
		.229	-.0262						
		.246		-.0229					
		.250				-.2236	-.2266	-.2195	-.2485
		.274				-.1695			
		.362	.0067						
		.390		-.1570					
		.400				-.3298	-.3499		-.4153
		.402			-.2392				
		.497	-.1116						
		.550				-.0760	-.3206		
		.565			.0251				
		.600							-.4450
		.650						-.4301	
		.700	.1220				-.0675		
		.725				.0000			
		.750						-.2160	-.3692
		.760			.0753				
		.775				.0509	-.0444		
		.808			.0544				
		.854	.0657			.0066	-.0603	-.0671	
		.850							
		.857			-.0158				
		.865	.0432						
		.900	-.0722			.0212			-.1411
		.905			-.0169		.0140		
		.950				.0392		.0623	
		.953			.0126				
		.965	.0181						

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR33)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.198 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.3141	-.1466	.1770	.4507	.4574	.3464	.2487
.020			.2388	.3539	.3477	.3267	.3333
.040		-.1016	.1919				
.050	-.2515			.1317	.0850	.1646	.1460
.080				-.0399			
.081			.0302				
.086		-.0319					
.094	-.1939						
.150				-.0756	-.0929	-.1363	-.1576
.163		.0636					
.177			-.1613				
.229	-.0864						
.246		-.0685					
.250				-.2561	-.2727	-.2868	-.3244
.274			-.1926				
.362	-.0517						
.390		-.1772					
.400				-.3567	-.3824		-.4753
.402			-.2619				
.497	-.1405						
.550				-.0824	-.2436		
.565			.0182				
.600							-.4922
.650						-.3105	
.700	.0833				-.0859		
.725				.0000			
.750						-.2293	-.3509
.760			.0023				
.775				-.0096	-.0673		
.808			-.0170				
.834	.0017						
.850				-.0629	-.1246	-.0716	
.857			-.0832				
.865	-.0232						
.900	-.1298			-.0473			-.1432
.905			-.0884		-.0568		
.950				-.0396		.0400	
.953			-.0643				
.965	-.0796						

ALPHA (2) = -.162 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1551	-.1067	.3068	.5815	.5929	.5019	.4202
.020			.3502	.3445	.3591	.3289	.3475
.040		-.0110	.2342				
.050	-.1599			.1127	.0590	.1098	.1079
.080				-.0662			
.081			-.0641				

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR33)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.162	BETA (2) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.086		.0238					
		.094	-.1013						
		.150				-.2117	-.2108	-.1782	-.1871
		.163		.0737					
		.177			-.2192				
		.229	-.0496						
		.246		-.0833					
		.250				-.3297	-.3137	-.3463	-.3678
		.274			-.2774				
		.362	-.0338						
		.390		-.2245					
		.400				-.4099	-.4636		-.5022
		.402			-.3073				
		.497	-.1597						
		.550				-.4109	-.4786		
		.565			-.2740				
		.600							-.5276
		.650						-.5526	
		.700	-.0912				-.2154		
		.725				.0000			
		.750						-.5365	-.5008
		.760			.0411				
		.775				-.0580	-.1981		
		.808			.0249				
		.834	.0563						
		.850				-.0050	-.1488	-.1895	
		.857			-.0256				
		.865	.0333						
		.900	-.0879			.0153			-.2664
		.905			-.0254		-.0610		
		.950				.0388		-.1057	
		.953			-.0058				
		.965	-.0152						

ALPHA (2) = -.210	BETA (3) = 4.031	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.0491	-.0472	.4583	.7054	.6791	.6620	.6630
		.020			.4073	.3234	.3379	.3319	.3370
		.040		.0610	.2751				
		.050	-.0764			.0570	.0185	.0811	.0536
		.080				-.0913			
		.081			-.0773				
		.086		.0865					
		.094	-.0118						
		.150				-.2842	-.2524	-.2162	-.2336

ARC11-0141A19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR33)

SECTION (1) TOP WING

DEPENDENT VARIABLE CF

ALPHA (2) = -.210 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.163		.1293					
.177			-.2463				
.229	.0067						
.246		-.0718					
.250				-.3758	-.4008	-.3862	-.4102
.274			-.3304				
.362	.0483						
.390		-.2528					
.400				-.5056	-.5040		-.5257
.402			-.3778				
.497	-.1543						
.550				-.4869	-.5764		
.565			-.3948				
.600							-.5299
.650						-.5962	
.700	-.2957				-.3455		
.725				.0000			
.750						-.5630	-.5827
.760			-.0611				
.775				-.1852	-.2778		
.808			-.0500				
.834	.0742						
.850				-.0935	-.2426	-.2916	
.857			.0288				
.865	.0586						
.900	-.0386			.0020			-.4773
.905			.0327		-.2081		
.920				.0861		-.2676	
.953			.0541				
.965	.0537						

ALPHA (3) = 3.846 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1713	-.2792	.3004	.6457	.5962	.6614	.6493
.020			.2847	.2071	.2033	.1802	.1369
.040		-.0912	.1405				
.050	-.1351			-.0665	-.1136	-.0709	-.1408
.080				-.2283			
.081			-.1659				
.086		-.0483					
.094	-.1169						
.150				-.3786	-.3377	-.3250	-.3641
.163		.0045					
.177			-.2932				
.229	-.0973						

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ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR33)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.846	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		-.1573					
		.250				-.4424	-.4757	-.4718	-.4993
		.274			-.3881				
		.362	-.0667						
		.390		-.2883					
		.400				-.5370	-.5570		-.5936
		.402			-.3816				
		.497	-.2044						
		.550				-.4720	-.5938		
		.565			-.3752				
		.600							-.5973
		.650						-.6465	
		.700	-.2586				-.3259		
		.725				.0200			
		.750						-.6172	-.6098
		.760			-.0615				
		.775				-.1861	-.2994		
		.808			-.0569				
		.834	.0088						
		.850				-.0973	-.2367	-.2711	
		.857			-.0355				
		.865	.0058						
		.900	-.0980			-.0213			-.4085
		.905			-.0355		-.1620		
		.950				.0320		-.2360	
		.953			-.0130				
		.965	-.0220						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

PAGE 289

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR34) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 2.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -3.981	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.1111	-.0479	.2393	.4931	.5169	.3972	.3047
		.020			.3752	.4492	.4637	.4652	.4865
		.040		.0226	.2913				
		.050	-.1047			.2445	.2153	.2983	.3212
		.080				.0871			
		.081			.0656				
		.086		.0712					
		.094	-.0936			-.0250	-.0054	.0142	.0199
		.150							
		.163		.1316					
		.177			-.0873				
		.229	-.0116						
		.246		.0223					
		.250				-.1751	-.1524	-.1392	-.1513
		.274			-.1469				
		.362	.0119						
		.390		-.1325					
		.400			-.2673	-.2907			-.3101
		.402			-.1097				
		.497	-.0956			-.2948	-.3306		
		.550			-.2121				
		.565							
		.600							-.3509
		.650						-.3703	
		.700	-.0054				-.1628		
		.725				.0000			
		.750						-.3574	-.4156
		.760			.0614				
		.775				-.0164	-.1196		
		.808			.0470				
		.834	.0645						
		.850				.0607	-.0583	-.2033	
		.857			.0437				
		.865	.0415						
		.900	-.0187			.0927			-.3109
		.905			.0460		.0062		
		.950				.1134		-.1137	
		.953			.0622				
		.965	.0651						

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR34)

SECTION (1) TOP WING

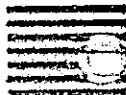
DEPENDENT VARIABLE CP

ALPHA (2) = -.231 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2273	-.1474	.1727	.4762	.4801	.3679	.2939
.020			.2460	.3736	.3625	.3455	.3572
.040		-.0714	.1943				
.050	-.2028			.1637	.1187	.1690	.1760
.080				.0076			
.081			.0046				
.086		-.0118					
.094	-.1720						
.150				-.0893	-.1062	-.0843	-.0882
.163		.0601					
.177			-.1254				
.229	-.0620						
.246		-.0543					
.250				-.2414	-.2309	-.2258	-.2457
.274			-.1986				
.362	-.0362						
.390		-.1728					
.400				-.3165	-.3471		-.3730
.402			-.2350				
.497	-.1397						
.550				-.3254	-.3672		
.565			-.2280				
.600							-.4032
.650						-.4144	
.700	-.0466				-.1704		
.725				.0000			
.750						-.4007	-.4656
.760			.0281				
.775				-.0280	-.1469		
.808			.0109				
.834	.0307						
.850				-.0188	-.1046	-.1898	
.857			-.0390				
.865	.0055						
.900	-.0863			.0189			-.2988
.905			-.0340		-.0337		
.950				.0414		-.1280	
.953			-.0138				
.965	-.0388						

ALPHA (2) = -.231 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.0791	-.0981	.2919	.6120	.5994	.5256	.4421
.020			.3368	.3773	.3973	.3946	.4068
.040		.0054	.2333				
.050	-.1025			.1348	.1229	.1889	.1816
.060				.0009			
.081			-.0219				



ARC11-0141A19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR34)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.231	BETA (2) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.086		.0416					
		.094	-.0853						
		.150				-.1564	-.1334	-.0915	-.0842
		.163		.0900					
		.177			-.1338				
		.229	-.0349						
		.246		-.0519					
		.250				-.2656	-.2575	-.2501	-.2568
		.274			-.2354				
		.362	-.0078						
		.390		-.1989					
		.400				-.3691	-.3776		-.3897
		.402			-.2730				
		.497	-.1370						
		.551				-.3670	-.4347		
		.565			-.2893				
		.600							-.4349
		.650						-.4420	
		.700	-.2098				-.3686		
		.725				.0000			
		.750						-.4392	-.4570
		.760			-.0322				
		.775				-.1322	-.2442		
		.808			-.0273				
		.834	.0433						
		.850				-.0666	-.1556	-.3451	
		.857			.0117				
		.865	.0286						
		.900	-.0436			.0017			-.3498
		.905			.0125		-.1311		
		.950				.0601		-.1885	
		.953			.0318				
		.965	.0151						

ALPHA (2) = -.210 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	.0257	-.0187	.4089	.7378	.7002	.6558	.5974
.020			.4060	.3920	.4078	.4119	.4342
.040		.0704	.2735				
.050	-.0151			.1265	.1048	.1795	.1711
.080				-.0307			
.081			-.0105				
.086		.0960					
.094	.0012						
.150				-.1861	-.1528	-.1071	-.1067

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR34)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.210 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.163		.1261					
.177			-.1686				
.229	.0015						
.246		-.0376					
.250				-.2768	-.2872	-.2664	-.2745
.274			-.2617				
.362	.0387						
.390		-.1960					
.400				-.4086	-.4022		-.4062
.402			-.2933				
.497	-.1066						
.550				-.3969	-.4574		
.565			-.3126				
.600							-.4330
.650						-.4768	
.700	-.2381				-.4597		
.725				.0000			
.750						-.4636	-.4168
.760			-.1128				
.775				-.1903	-.4480		
.808			-.1116				
.834	.0016						
.850				-.1268	-.1929	-.4141	
.857			-.0240				
.865	.0080				-.0926		-.3738
.900	-.0035						
.905			.0227		-.1428		
.950				-.0400		-.2916	
.953			.0796				
.965	.0670						

ALPHA (3) = 3.930 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1121	-.2522	.2719	.6577	.6315	.6335	.6166
.020			.2667	.2779	.2925	.2771	.2763
.040		-.0734	.1615				
.050	-.0989			.0189	-.0092	.0397	.0144
.080				-.1320			
.081			-.1063				
.085		-.0423					
.094	-.0757						
.150				-.3031	-.2462	-.2160	-.2283
.163		.0123					
.177			-.2440				
.229	-.0706						

ARC11-014IA19 QTS+STRUT SRB-OFF MPS-OFF TOP WING

(REUR34)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.990 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		-.1202					
.251				-.3561	-.3773	-.3565	-.3633
.274			-.3381				
.362	-.0443						
.391		-.2695					
.401				-.4588	-.4712		-.4732
.402			-.3566				
.497	-.1853						
.550				-.4581	-.5161		
.565			-.3597				
.600							-.4922
.650						-.5308	
.710	-.2847				-.5187		
.725				.0000			
.750						-.5242	-.4888
.760			-.1647				
.775				-.2256	-.3537		
.806			-.1587				
.834	-.0132						
.850				-.1990	-.2588	-.3521	
.857			-.0603				
.865	-.0185						
.900	-.0669			-.1379			-.4600
.905			-.0171		-.2322		
.950				-.0542		-.2585	
.953			.0172				
.965	-.0048						

ARC11-014IA19 QTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR35) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TE = .000 ELV-CB = .000
 RUDDER = .000 MACH = .900
 GIMBAL = 2.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.308 BETA (1) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.0313	.0674	.1844	.3485	.3379	.1140	-.0096
.020			.3754	.3451	.3453	.3360	.3046
.040		.1381	.2950				
.050	.0188			.0966	.0753	.1327	.0644
.080				-.0901			
.081			.0388				
.086		.1914					
.094	.0702						
.150				-.1457	-.2223	-.2495	-.3235
.163		.1870					
.177			-.1714				
.229	.0733						
.246		-.1147					
.290				-.2842	-.3322	-.4510	-.5808
.274			-.2301				
.362	.0694						
.390		-.1868					
.400				-.3440	-.3497		-.6795
.402			-.2906				
.497	-.1460						
.550				-.2389	-.3264		
.565			-.1451				
.600							-.4837
.650						-.3711	
.700	-.0277				-.4224		
.725				.0000			
.750						-.3454	-.2357
.760			-.2746				
.775				-.3516	-.4083		
.808			-.3108				
.834	-.7612						
.890				-.3591	-.4367	-.1385	
.857			-.4189				
.865	-.2894						
.900	-.4211			-.2200			-.0878
.905			-.2655		-.1148		
.950				-.1196		-.0905	
.953			-.1479				
.965	-.2199						

ARC11-0141A19 OYS+STRUT SRB-NOM WPS-NOM TOP WING

(REUR35)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) =	BETA (1) =	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.000	-.2250	-.0487	.0679	.3551	.3309	.1567	.0522
		.020			.2493	.2740	.2553	.2225	.1798
		.040		.0061	.2042				
		.060	-.1156			.0198	-.0274	.0016	-.0742
		.080				-.1268			
		.081			.0202				
		.086		.0735					
		.094	-.0586						
		.150				-.2009	-.3891	-.3440	-.4395
		.163		.1192					
		.177			-.1930				
		.229	.0008						
		.246		-.1236					
		.250				-.3454	-.3839	-.5308	-.6839
		.274			-.2508				
		.362	.0159						
		.390		-.2130					
		.400				-.4037	-.4477		-.7971
		.402			-.3038				
		.497	-.1781						
		.550				-.3151	-.4018		
		.565			-.2175				
		.600							-.5661
		.650						-.4780	
		.700	-.1091				-.4966		
		.725				.0000			
		.750						-.4429	-.4046
		.760			-.3735				
		.775				-.4404	-.5206		
		.808			-.4064				
		.834	-.3645						
		.850				-.5104	-.5930	-.3056	
		.857			-.5111				
		.865	-.3898						
		.900	-.4702			-.4479			-.1950
		.905			-.4538		-.3500		
		.950				-.3135		-.1916	
		.953			-.3364				
		.965	-.4106						
ALPHA (2) =	BETA (2) =	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.000	-.1238	.0283	.3342	.4969	.4764	.3991	.3108
		.020			.3323	.2105	.1879	.1632	.1312
		.040		.1137	.2111				
		.050	-.0232			-.1104	-.1591	-.1084	-.1742
		.080				-.2893			
		.081			-.1150				

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ARC11-0141A19 OTS+STRUT SRB-NCM MPS-NCM TOP WING

(REUR35)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.384	BETA (2) = .012	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.086		.1496					
		.094	.0362						
		.150				-.3057	-.4305	-.5043	-.5813
		.163		.1058					
		.177			-.4153				
		.229	.0389						
		.246		-.2322					
		.250				-.5424	-.6181	-.6779	-.7955
		.274			-.3931				
		.362	.0042						
		.390		-.3377					
		.400				-.5967	-.6411		-.9176
		.402			-.4280				
		.497	-.2474						
		.550				-.2828	-.3887		
		.565			-.1735				
		.600							-.6818
		.650							-.3672
		.700	-.0687				-.4458		
		.725				.0000			
		.750						-.3274	-.2785
		.760			-.2839				
		.775				-.3735	-.4319		
		.808			-.3182				
		.834	-.2720						
		.850				-.3788	-.3658	-.0990	
		.857			-.4146				
		.865	-.2994						
		.900	-.4254			-.2660			-.1270
		.905			-.2725		-.0918		
		.950				-.1749		-.0655	
		.953			-.1444				
		.965	-.3127						

ALPHA (2) = -.345	BETA (3) = 4.025	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.000	-.0381	.0143	.3987	.5734	.5299	.5246	.4731
		.020			.2839	.0862	.0537	-.0140	-.0215
		.040		.1232	.1199				
		.050	.0306			-.2653	-.3617	-.3328	-.3731
		.080				-.4990			
		.081			-.2961				
		.086		.3312					
		.094	.0758						
		.150				-.5309	-.6090	-.6335	-.7294

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 QTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR35)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -0.345	BETA (3) = 4.025	2Y/B	.299	.364	.427	.534	.641	.780	.887		
		X/C									
		.163		.0278							
		.177			-.5494						
		.229	.0520								
		.246		-.3267							
		.250				-.7143	-.7820	-.8699	-.9583		
		.274			-.5782						
		.362	-.0316								
		.390		-.4874							
		.400				-.7737	-.9011		-.9807		
		.402			-.5892						
		.497	-.4441								
		.550				-.2852	-.3553				
		.565			-.1771						
		.600							-.5620		
		.650						-.5173			
		.700	-.0772				-.2541				
		.725				.0000					
		.750						-.3375	-.3912		
		.760			-.2035						
		.775				-.2028	-.2134				
		.808			-.2060						
		.834	-.1959								
		.850				-.0500	-.0876	-.0582			
		.857			-.0827						
		.865	-.2197								
		.900	-.1953			-.0192			-.2339		
		.905			-.0378		.0133				
		.950				-.0393		.0075			
		.953			-.0700						
		.965	-.0546								
		ALPHA (3) = 3.903	BETA (1) = .006	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.000	-.2872	-.1108	.3442	.5268	.4619	.4733	.4154
				.020			.2292	.0073	-.0525	-.1721	-.2302
				.040		.0488	.0631				
				.050	-.1013			-.3351	-.4574	-.4947	-.5968
				.080				-.5604			
				.081			-.3599				
				.086		.0693					
				.094	-.0209						
				.130				-.6106	-.7315	-.8027	-.8903
				.153		-.0137					
				.177			-.5918				
				.229	-.0024						

ARC11-014IA19 QTS+STRUT SRB-NOM MPS-NOM TOP WING

(REL35)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.903	BETA (1) = .006	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		-.3526					
		.257				-.7890	-.8610	-.9549	-1.0561
		.274			-.6227				
		.362	-.0624						
		.390		-.5343					
		.400				-.8245	-.9431		-1.0240
		.402			-.6200				
		.497	-.4784						
		.550				-.3564	-.4566		
		.565			-.2480				
		.600							-.7354
		.650						-.6273	
		.700	-.1426				-.4087		
		.725				.0000		-.4929	-.6690
		.750							
		.760			-.3258				
		.775				-.3734	-.3350		
		.808			-.3484				
		.834	-.3153						
		.850				-.3004	-.3417	-.2695	
		.857			-.3875				
		.865	-.3370						
		.900	-.4335			-.2185			-.5154
		.905			-.2758		-.1657		
		.950				-.1742		-.1701	
		.953			-.1799				
		.965	-.2266						

ARC11-014IA19 QTS+STRUT SRB-NOM MPS-NOM TOP WING

(RELR36) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 2.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.000	BETA (1) = .003	2Y/B	.299	.364	.427	.534	.641	.780	.887
		Y/C							
		.000	-.2751	.0762	.4151	.5504	.5447	.3927	.2991
		.020			.4746	.4202	.4559	.4631	.4596
		.040		.2063	.3934				
		.050	-.1955			.1697	.1958	.2624	.2569
		.080				.0255			
		.081			.1455				
		.086		.2780					
		.094	-.0340						
		.150				.0378	-.0562	-.0604	-.0966
		.163		.2960					
		.177			-.1175				
		.229	.0287						
		.246		.0372					
		.250				-.1635	-.1878	-.1977	-.3093
		.274			-.0531				
		.362	.2005						
		.390		-.0156					
		.400				-.1705	-.1559		-.4284
		.402			-.0792				
		.497	.0119						
		.550				.0189	-.0605		
		.565		.0016					
		.600							-.2377
		.650						-.1253	
		.700	.1999				-.1202		
		.725				.0000			
		.750						-.0923	-.0247
		.760		.0030					
		.775				-.0620	-.1355		
		.800		-.0291					
		.834	.0172						
		.850				-.1204	-.2002	.0592	
		.857		-.1289					
		.865	-.0143						
		.900	-.1752			-.0805			.1350
		.905			-.1250		.0263		
		.950				-.0005		.1305	
		.953		-.0526					
		.965	-.0839						

ARC11-0141A19 OTS+STRUT SRB-NCM MPS-NCM TOP WING

(REL36)

SECTION (1) TOP WING

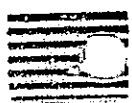
DEPENDENT VARIABLE CP

ALPHA (2) = -.342 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.4531	.0039	.2375	.5399	.5149	.3841	.3228
.020			.3089	.3860	.3924	.3811	.3740
.040		.0701	.2864				
.060	-.2794			.1499	.1437	.1811	.1539
.080				.0230			
.081			.1687				
.086		.1448					
.094	-.1133						
.150				.0034	-.0769	-.1041	-.1595
.163		.2399					
.177			-.0221				
.229	.0456						
.246		.0595					
.250				-.1177	-.1460	-.2288	-.3495
.274			-.0426				
.362	.1620						
.390		-.0094					
.400				-.1552	-.1679		-.4583
.402							
.497	.0219						
.550				-.0253	-.1028		
.565			.0593				
.600							-.2719
.650						-.1836	
.700	.1429				-.1564		
.725				.0000			
.750						-.1464	-.1081
.760			-.0622				
.775				-.1158	-.1854		
.808			-.0934				
.834	-.0558						
.850				-.1894	-.2832	-.0561	
.857			-.1918				
.865	-.0837						
.900	-.2237			-.1684			.0619
.905			-.1884		-.1312		
.950				-.1396		.0556	
.953			-.1480				
.965	-.1743						

ALPHA (2) = -.318 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2698	-.0969	.5071	.6702	.6228	.6109	.5593
.020			.4577	.3416	.3044	.2969	.2917
.040		.1320	.3389				
.050	-.2038			.0637	-.0120	.0579	.0301
.080				-.1266			
.081			.0232				



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TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR36)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.318	BETA (2) = .012	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.086		.2359					
		.094	-.1494						
		.150				-.2092	-.1827	-.2411	-.3060
		.163		.2417					
		.177			-.1859				
		.229	-.0532						
		.246		-.0129					
		.250				-.3867	-.3708	-.4147	-.4951
		.274			-.2029				
		.362	.1319						
		.390		-.1561					
		.400				-.4401	-.4319		-.6064
		.402			-.2255				
		.497	-.1556						
		.550				.0047	-.0757		
		.565			.0895				
		.600							-.5736
		.650						-.0743	
		.700	.1584				-.1013		
		.725				.0000			
		.797						-.0401	-.0629
		.760			.0216				
		.775				-.0464	-.1080		
		.808			-.0100				
		.834	.0413						
		.850				-.0855	-.1328	.0921	
		.857			-.1023				
		.865	.0107						
		.900	-.1432			-.0245			.0807
		.905			-.1034		.0977		
		.997				.0531		.1494	
		.953			-.0299				
		.965	-.0689						

ALPHA (2) = -.417 BETA (3) = 4.031

2Y/B	.299	.364	.427	.534	.641	.780	.887
X/C							
.000	-.0831	-.0111	.5135	.7111	.6772	.6927	.6560
.020			.4171	.2514	.2407	.1880	.1743
.040		.2080	.2593				
.050	-.0205			-.0353	-.1139	-.0976	-.1405
.080				-.2242			
.081			-.1591				
.086		.2437					
.094	.0534						
.150				-.4079	-.3900	-.3911	-.4367

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR36)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.417 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.163		.1888					
.177			-.3160				
.229	.1206						
.246		-.1092					
.250				-.4769	-.5362	-.5659	-.6085
.274			-.3781				
.362	.1543						
.390		-.2813					
.400				-.5554	-.6527		-.7152
.402			-.4224				
.497	-.1976						
.550				-.1946	-.5107		
.565			-.0768				
.600							-.6520
.650						-.5875	
.700	.0330				-.2312		
.725				.0000			
.750						-.3434	-.6131
.760			.0425				
.775				-.0413	-.2124		
.808			.0150				
.834	.0787						
.850				.0442	.0191	-.1611	
.857			-.0476				
.865	.0453						
.900	-.1203			.1077			-.4355
.905			-.0013		.1172		
.950				.1161		.0017	
.953			.0772				
.965	.0676						

ALPHA (3) = 3.717 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2606	-.1267	.4674	.6614	.6103	.6284	.5031
.020			.3784	.1954	.1531	.0484	-.0058
.040		.1626	.2272				
.050	-.1842			-.0822	-.1854	-.2164	-.3054
.080				-.2609			
.081			-.1750				
.086		.2167					
.094	-.1282						
.150				-.4407	-.4450	-.4734	-.5406
.163		.1749					
.177			-.3125				
.229	.1207						

ARC11-014IA19 QTS+STRUT SRB-NOM MPS-NOM TOP WING (REUR36)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.717 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		-.1085					
.297				-.4959	-.5612	-.6326	-.6844
.274			-.3565				
.362	-.1515						
.390		-.2657					
.400				-.5405	-.6675		-.7758
.402			-.4172				
.497	-.1863						
.550				-.1719	-.3147		
.565			-.0708				
.600							-.7583
.693						-.5666	
.700	.0413				-.7361		
.725				.0000			
.793						-.3102	-.5526
.760			-.0302				
.775				-.0903	-.2035		
.808			-.0607				
.834	-.0167						
.893				-.1023	-.0576	-.0739	
.857			-.1353				
.865	-.0347						
.900	-.1877			-.0298			-.4147
.905			-.1382		.0595		
.950				.0030		.0560	
.953			-.0600				
.965	-.1233						

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ARC11-014IA19 OTS+STRUT SRB-NOM MPB-NOM TOP WING

(REUR37) (19 OCT 74)

REFERENCE DATA

SREF = 2680.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 2.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.149	BETA (1) = .006	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.1725	-.0214	.1999	.4674	.4775	.3561	.2509
		.020			.3677	.4232	.4267	.4461	.4528
		.040		.0242	.2961				
		.050	-.1746			.1971	.1700	.2701	.2658
		.080				.0245			
		.081			.0844				
		.086		.0612					
		.094	-.1230						
		.150				-.0121	-.0431	-.0546	-.0554
		.163		.1512					
		.177			-.1103				
		.220	-.0273						
		.246		-.0238					
		.250				-.2203	-.2253	-.2203	-.2511
		.274			-.1693				
		.362	.0041						
		.390		-.1580					
		.400				-.3323	-.3501		-.4179
		.402			-.2426				
		.497	-.1123						
		.550				-.0732	-.3117		
		.565			.0264				
		.600							-.4461
		.650						-.4133	
		.700	.1235				-.0604		
		.725				.0000			
		.750						-.2126	-.3568
		.760			.0749				
		.775				.0481	-.0428		
		.808			.0505				
		.834	.0642						
		.850				.0022	-.0675	-.0657	
		.857			-.0213				
		.865	.0406						
		.900	-.0710			.0169			-.1422
		.905			-.0197		.0106		
		.950				.0278		.0648	
		.953			.0107				
		.965	.0131						

ARC11-0141A19 OTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR37)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.414 BETA (1) = -4.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.3113	-.1442	.1735	.4387	.4578	.3436	.2458
.020			.2452	.3575	.3503	.3407	.3348
.040		-.1016	.1966				
.050	-.2505			.1341	.0893	.1666	.1514
.080				-.0368			
.081			.0347				
.086		-.0293					
.094	-.1902						
.150				-.0706	-.0909	-.1318	-.1514
.163		.0692					
.177			-.1584				
.229	-.0863						
.246		-.0673					
.250				-.2501	-.2678	-.2850	-.3192
.274			-.1883				
.362	-.0443						
.390		-.1761					
.400				-.3536	-.3789		-.4702
.402			-.2595				
.497	-.1393						
.550				-.0734	-.2277		
.565		.0230					
.600							-.4874
.650						-.2966	
.700	.0901				-.0823		
.725				.0000			
.750						-.2231	-.3388
.760		.0034					
.775			-.0090	-.0619			
.808		-.0161					
.834	.0015						
.850			-.0620	-.1259	-.0691		
.857		-.0818					
.865	-.0207						
.900	-.1240			-.0450			-.1276
.905			-.0847		-.0573		
.950				-.0373		.0440	
.953		-.0605					
.965	-.0825						

ALPHA (2) = -.459 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1561	-.0977	.2941	.5791	.5887	.4938	.4125
.020			.3482	.3527	.3614	.3385	.3498
.040		-.0085	.2354				
.050	-.1620			.1157	.0637	.1152	.1145
.080				-.0645			
.081			-.0617				

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR37)

SECTION (1) TOP WING

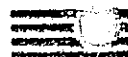
DEPENDENT VARIABLE CP

ALPHA (2) = -.459 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.787	.887
.086		.0269					
.094	-.1007						
.150				-.2068	-.2026	-.1717	-.1806
.163		.0771					
.177			-.2161				
.229	-.0474						
.246		-.0810					
.291				-.3232	-.3098	-.3423	-.3637
.274			-.2710				
.362	-.0340						
.391		-.2213					
.400				-.4040	-.4597		-.4982
.402			-.3042				
.497	-.1604						
.550				-.4021	-.4742		
.565			-.2621				
.600							-.5248
.690						-.5495	
.700	-.0789				-.2109		
.725				.0000			
.790						-.5329	-.4978
.780			.0440				
.775				-.0506	-.1957		
.808			.0276				
.834	.0597						
.890				-.0011	-.1399	-.1063	
.857			-.0240				
.865	.0337						
.900	-.0838			.0178			-.2584
.905			-.0238		-.0527		
.990				.0370		-.1007	
.953			-.0034				
.965	-.0156						

ALPHA (2) = -.468 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.0478	-.0404	.4609	.7088	.6784	.6591	.6644
.020			.4161	.3314	.3454	.3405	.3443
.040		.0545	.2842				
.050	-.0753			.0648	.0265	.0886	.0656
.080				-.0813			
.081			-.0716				
.086		.0950					
.094	-.0121						
.150				-.2771	-.2475	-.2071	-.2232



ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR37)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.468	BETA (3) = 4.028	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.163		.1421					
		.177			-.2399				
		.229	.0093						
		.246		-.0683					
		.253				-.3676	-.3939	-.3788	-.4025
		.274			-.5257				
		.362	.0476						
		.390		-.2468					
		.400				-.5278	-.4978		-.5218
		.402			-.3712				
		.497	-.1504						
		.550				-.4804	-.5706		
		.565			-.3861				
		.600							-.5354
		.650						-.5029	
		.700	-.2920				-.3372		
		.725				.0000			
		.750						-.5552	-.5734
		.760			-.0418				
		.775				-.1844	-.2670		
		.808			-.0373				
		.834	.0749						
		.850				-.0881	-.2353	-.2839	
		.857			.0364				
		.865	.0666						
		.900	-.0374			.0093			-.4707
		.905			.0399		-.1995		
		.950				.0981		-.2610	
		.953			.0610				
		.965	.0550						

ALPHA (3) = 3.864	BETA (1) = .003	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.000	-.1721	-.2805	.3006	.6444	.5951	.6589	.6471
		.020			.2815	.2032	.1980	.1777	.1305
		.040		-.0904	.1775				
		.050	-.1380			-.0711	-.1179	-.0773	-.1450
		.060				-.2331			
		.081			-.1706				
		.086		-.0482					
		.094	-.1187						
		.150				-.3797	-.3415	-.3271	-.3707
		.163		.0040					
		.177			-.2964				
		.229	-.0968						

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ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR37)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (5) = 3.864 BETA (1) = .003

Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		-.1577					
.250				-.4481	-.4814	-.4775	-.5079
.274			-.3891				
.362	-.0689						
.390		-.2931					
.400				-.5369	-.5640		-.6002
.402			-.3821				
.497	-.2044						
.550				-.4788	-.6012		
.565			-.3783				
.600							-.6047
.650						-.6514	
.700	-.2605				-.3297		
.725				.0000			
.750						-.6202	-.6162
.760			-.0561				
.775				-.1886	-.2935		
.808			-.0534				
.834	.0035						
.850				-.0959	-.2428	-.2774	
.857			-.0388				
.865	.0065						
.900	-.0990			-.0211			-.4139
.905			-.0369		-.1651		
.950				.0331		-.2379	
.953			-.0142				
.965	-.0314						

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TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OYS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR38) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 2.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.155	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.1147	-.0492	.2338	.4851	.5167	.3944	.3026
		.020			.3716	.4470	.4631	.4621	.4832
		.040		.0196	.2873				
		.060	-.1102			.2442	.2128	.2959	.3206
		.080				.0840			
		.081			.0607				
		.086		.0685					
		.094	-.0955						
		.150				-.0228	-.0042	.0111	.0165
		.163		.1279					
		.177			-.0906				
		.229	-.0137						
		.246		.0179					
		.250				-.1766	-.1571	-.1422	-.1562
		.274			-.1485				
		.362	.0099						
		.390		-.1361					
		.400				-.2700	-.2954		-.3123
		.402			-.2052				
		.497	-.0980						
		.550				-.2969	-.3324		
		.565			-.2175				
		.600							-.3542
		.650						-.3728	
		.700	-.0050				-.1660		
		.725				.0000			
		.750						-.3614	-.4184
		.760			.0586				
		.775				-.0170	-.1249		
		.808			.0396				
		.834	.0622						
		.850				.0606	-.0617	-.2107	
		.857			.0390				
		.865	.0357						
		.900	-.0193			.0903			-.3140
		.905			.0432		.0044		
		.950				.1119		-.1190	
		.953			.0618				
		.965	.0574						

ARC11-014IA19 OTS+STRUT SRB-NOM M/S NOM TOP WING

(REL38)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.387 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2264	-.1434	.1627	.4796	.4783	.3581	.2849
.020			.2417	.3786	.3684	.3483	.3566
.040		-.0721	.1970				
.050	-.2039			.1658	.1229	.1721	.1808
.080				.0081			
.081			.0087				
.086		-.0116					
.094	-.1735						
.150				-.0836	-.1018	-.0834	-.0846
.163		.0617					
.177			-.1232				
.229	-.0615						
.246		-.0507					
.250				-.2372	-.2246	-.2193	-.2414
.274			-.1961				
.362	-.0367						
.390		-.1745					
.400				-.3124	-.3407		-.3695
.402			-.2318				
.497	-.1399						
.550				-.3220	-.3616		
.565			-.2277				
.600							-.4013
.650						-.4106	
.700	-.0399				-.1660		
.725				.0000			
.750						-.3982	-.4684
.760			.0294				
.775				-.0257	-.1444		
.808			.0092				
.834	.0306						
.850				-.0180	-.0995	-.1897	
.857			-.0372				
.865	.0061						
.900	-.0791			.0220			-.2945
.905			-.0296		-.0273		
.950				.0442		-.1250	
.953			-.0095				
.965	-.0404						

ALPHA (2) = -.318 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.0821	-.0929	.2893	.6766	.5955	.5163	.4351
.020			.3370	.3811	.3988	.3974	.4122
.040		.0085	.2337				
.050	-.1034			.1435	.1269	.1910	.1867
.080				.0086			
.081			-.0196				

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR38)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.318	BETA (2) = .009	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.086		.0431					
		.094	-.0864						
		.150				-.1524	-.1270	-.0857	-.0790
		.163		.0918					
		.177			-.1287				
		.229	-.0345						
		.246		-.0509					
		.257				-.2660	-.2537	-.2468	-.2542
		.274			-.2346				
		.362	-.0066						
		.390		-.1975					
		.400				-.3659	-.3772		-.3871
		.402			-.2706				
		.497	-.1376						
		.550				-.3644	-.4308		
		.565			-.2853				
		.600							-.4313
		.690						-.4388	
		.700	-.2064				-.3650		
		.725				.0000			
		.750						-.4364	-.4550
		.760			-.0230				
		.775				-.1292	-.2353		
		.808			-.0236				
		.834	.0434						
		.850				-.0630	-.1535	-.3301	
		.857			.0104				
		.865	.0290						
		.900	-.0422			.0058			-.3493
		.905			.0127		-.1272		
		.950				.0631		-.1905	
		.953			.0344				
		.965	.0127						

ALPHA (2) = -.354 BETA (3) = 4.031

2Y/B	.299	.364	.427	.534	.641	.780	.887
X/C							
.000	.0274	-.0135	.4126	.7382	.7057	.6567	.5936
.020			.4109	.4038	.4172	.4207	.4399
.040		.0758	.2813				
.050	-.0132			.1374	.1161	.1879	.1850
.080				-.0211			
.081			-.0032				
.086		.1011					
.094	.0026						
.150				-.1756	-.1440	-.0951	-.0965

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ARC11-014IA19 OTS+STRUT SRB-NCM MPS-NCM TOP WING

(REUR38)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -0.354 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.163		.1283					
.177			-.1594				
.229	.0043						
.246		-.0289					
.250				-.2660	-.2770	-.2558	-.2665
.274			-.2498				
.362	.0413						
.390		-.1885					
.400				-.4021	-.3908		-.3968
.402			-.2861				
.497	-.1030						
.550				-.3905	-.4510		
.565			-.3048				
.600							-.4261
.650						-.4681	
.700	-.2294				-.4507		
.725				.0000			
.750						-.4552	-.4118
.760			-.1046				
.775				-.1832	-.4385		
.808			-.1018				
.834	.0063						
.850				-.1180	-.1844	-.4099	
.857			-.0146				
.865	.0130						
.900	.0026			-.0841			-.3648
.905				.0325	-.1384		
.950				-.0295		-.2856	
.953				.0866			
.965	.0692						

ALPHA (3) = 3.939 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1044	-.2484	.2754	.6598	.6355	.6373	.6176
.020			.2706	.2811	.2944	.2782	.2805
.040		-.0708	.1661				
.050	-.0934			.0257	-.0024	.0464	.0171
.080				-.1278			
.081			-.1006				
.086			-.0350				
.094	-.0708						
.150				-.2978	-.2413	-.2119	-.2226
.163		.0148					
.177			-.2374				
.229	-.0708						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014:IA19 OTS+STRUT SRB-NOM MPS-NOM TOP WING

(REUR38)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.939 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		-.1137					
.250				-.3515	-.3722	-.3528	-.3593
.274			-.3311				
.362	-.0386						
.390		-.2640					
.400				-.4528	-.4667		-.4665
.402			-.3514				
.497	-.1822						
.550				-.4578	-.4981		
.565		-.3531					
.600							-.4853
.650						-.5245	
.700	-.2781				-.5717		
.725				.0000			
.750						-.5183	-.4822
.760			-.1572				
.775				-.2220	-.3515		
.808		-.1538					
.834	-.0073						
.850				-.1933	-.2521	-.3492	
.857		-.0549					
.865	-.0151						
.900	-.0563			-.1309			-.4543
.905			-.0114		-.2280		
.950				-.0488		-.2536	
.953			.0242				
.965	-.0053						

ARC11-014IA19 OTS

SRB-OFF MPS-OFF TOP WING

(REL39) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = .000 ELV-CB = .000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -8.139	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	.0071	.0364	-.0949	.1532	.1440	-.1754	-.3461
		.020			.4161	.4703	.4520	.4236	.3614
		.040		.1477	.3890				
		.060	.0479			.3006	.2635	.3096	.2389
		.080				.1718			
		.081			.2108				
		.086		.2350					
		.094	.1072						
		.150				.0404	-.0066	-.0173	-.0947
		.163		.2764					
		.177			.0157				
		.229	.1224						
		.246		.0328					
		.250				-.1064	-.1461	-.2008	-.3356
		.274			-.0543				
		.362	.1463						
		.390		-.0459					
		.400				-.2005	-.2317		-.3438
		.402			-.1450				
		.497	-.0261						
		.550				-.1752	-.2421		
		.565			-.0858				
		.600							-.4039
		.650						-.3079	
		.700	.0197				-.3604		
		.725				.0000			
		.750						-.3061	-.1101
		.760			-.2273				
		.775				-.3054	-.3423		
		.808			-.2658				
		.834	-.2262						
		.850				-.1445	-.1454	.0171	
		.857			-.1400				
		.865	-.2505						
		.900	-.2784			-.0269			.0111
		.905			-.0433		.0151		
		.950				-.0336		.0265	
		.953			-.0571				
		.965	-.1227						

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TABULATED SOURCE PRESSURE DATA - 1A19 (ARC 11-014)

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		ARC11-0141A19 QTS	SRB-OFF MPS-OFF TOP WING							(REL39)
SECTION (1) TOP WING		DEPENDENT VARIABLE CP								
ALPHA (2) = -4.032	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.000	-.0244	.0740	.1891	.3592	.3398	.1118	-.0293	
		.020			.3919	.3618	.3450	.3503	.3081	
		.040		.1453	.3087					
		.050	.0149			.1198	.0793	.1421	.0744	
		.080				-.0330				
		.081			.0595					
		.086		.2010						
		.094	.0726							
		.150				-.1441	-.2144	-.2298	-.3137	
		.163		.1917						
		.177			-.1496					
		.229	.0812							
		.246		-.1055						
		.250				-.2822	-.3317	-.4390	-.5694	
		.274			-.2121					
		.362	.0728							
		.390		-.1792						
		.400				-.3357	-.3467		-.6563	
		.402			-.2722					
		.497	-.1446							
		.550				-.2362	-.3275			
		.565		-.1348						
		.600							-.4692	
		.650						-.3255		
		.700	-.0284				-.4154			
		.725				.0000				
		.750						-.3049	-.1024	
		.760			-.2620					
		.775				-.3519	-.3748			
		.808			-.2988					
		.834	-.2569							
		.850				-.1729	-.1074	.0353		
		.857			-.1303					
		.865	-.2826							
		.900	-.3162			-.0422			.0004	
		.905			-.0410		.0303			
		.950				-.0280		.0353		
		.953			-.0420					
		.965	-.1273							
ALPHA (3) = -.228	BETA (1) = -4.003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.000	-.1920	-.0041	.1544	.4171	.3723	.2321	.1158	
		.020			.2321	.2267	.2093	.1776	.1453	
		.040		.0391	.1731					
		.050	-.0897			-.0352	-.0823	-.0587	-.1182	
		.080				-.1736				
		.081			-.0238					

SECTION (1) TOP WING		ARC11-014IA19 OTS SRB-OFF MPS-OFF TOP WING (REUR39)							
DEPENDENT VARIABLE CP									
ALPHA (3) = -.228	BETA (1) = -4.003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.086		.0816					
		.094	-.0266						
		.150				-.2318	-.3461	-.3737	-.4766
		.163		.0963					
		.177				-.2194			
		.229	.0283						
		.246		-.1395					
		.250				-.3759	-.4079	-.5625	-.7085
		.274				-.2683			
		.362	.0133						
		.390		-.2251					
		.400				-.4135	-.4583		-.8096
		.402				-.3101			
		.497	-.1917						
		.550				-.3148	-.4067		
		.565				-.2158			
		.600							-.5704
		.650						-.4750	
		.700	-.1086				-.4905		
		.725				.0000			
		.750						-.4325	-.3645
		.760				-.3670			
		.775				-.4365	-.5173		
		.808				-.4014			
		.834	-.3558						
		.850				-.4569	-.4407	-.2121	
		.857				-.4583			
		.865	-.3756						
		.900	-.3872			-.2003			-.1091
		.905				-.2679	-.1467		
		.950				-.0813		-.0954	
		.953				-.1325			
		.965	-.2279						
ALPHA (3) = -.249	BETA (2) = .012	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.1016	.0468	.3410	.4930	.4748	.3965	.2991
		.020			.3372	.2029	.1954	.1493	.1165
		.040		.1212	.2124				
		.050	-.0265			-.1108	-.1592	-.1230	-.1871
		.080				-.2847			
		.081			-.1161				
		.086		.1572					
		.094	.0346						
		.150				-.3219	-.4355	-.5208	-.5992

ARC11-014IA19 OTS

SRB-OFF MPS-OFF TOP WING

(REUR39)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = -.249	BETA (2) = .012	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.163		.1087					
		.177			-.4205				
		.229	.0476						
		.246		-.2302					
		.250				-.5336	-.6022	-.6869	-.8099
		.274			-.4007				
		.362	.0086						
		.390		-.3336					
		.400				-.5960	-.6343		-.9177
		.402			-.4449				
		.497	-.2551						
		.550				-.2858	-.3981		
		.565			-.1640				
		.600							-.6165
		.650						-.3265	
		.700	-.0738				-.4515		
		.725				.0020			
		.750						-.2010	-.1079
		.760			-.2888				
		.775				-.3717	-.3710		
		.808			-.3179				
		.834	-.2727						
		.850				-.0920	-.0655	.0443	
		.857			-.1313				
		.865	-.2985						
		.900	-.2645			-.0083			.0276
		.915			-.0401		.0667		
		.950				-.0021		.0443	
		.953			-.0407				
		.965	-.0898						

ALPHA (3) = -.261	BETA (3) = 4.028	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.0347	.0986	.4318	.5934	.5621	.5380	.4583
		.020			.3509	.1575	.1192	.0602	.0292
		.040		.1570	.1869				
		.050	.0045			-.2033	-.3011	-.2664	-.3131
		.080				-.4552			
		.081			-.2136				
		.086		.1703					
		.094	.0632						
		.150				-.4740	-.5166	-.6321	-.7189
		.163		.0714					
		.177			-.5029				
		.229	.0604						

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ARC11-014IA19 QTS

SRB-OFF MPS-OFF TOP WING

(REUR39)

SECTION (1) TOP WING

DEPENDENT VARIABLE: CP

ALPHA (3) = -0.261	BETA (3) = 4.028	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		-.2951					
		.250				-.6116	-.7389	-.8392	-.9282
		.274			-.4851				
		.362	-.0122						
		.390		-.3783					
		.400				-.7282	-.8627		-.7875
		.402			-.5616				
		.497	-.3671						
		.550				-.2209	-.2521		
		.565			-.1513				
		.600							-.4780
		.650						-.3726	
		.710	-.0520				-.1905		
		.725				.0000			
		.750						-.2490	-.3134
		.760			-.1047				
		.775				-.1072	-.1522		
		.808			-.1110				
		.834	-.0922						
		.850				.0134	-.0128	-.0118	
		.857			-.0296				
		.865	-.1026						
		.900	-.0952			.0490			-.1184
		.915			.0081		.0945		
		.920				.0351		.0624	
		.953			-.0047				
		.965	-.0172						
ALPHA (4) = 4.032	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.2609	-.0881	.3581	.5518	.4660	.4735	.4249
		.020			.2454	.0199	-.0453	-.1674	-.2228
		.040		.0597	.0771				
		.050	-.0986			-.3206	-.4524	-.4874	-.5871
		.080				-.5486			
		.081			-.3425				
		.086		.0838					
		.094	-.0186						
		.150				-.6027	-.7407	-.7968	-.78734
		.163		-.0966					
		.177			-.5800				
		.229	.0085						
		.246		-.3490					
		.250				-.7703	-.8495	-.9489	-1.0297
		.274			-.6091				

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TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014) .

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SECTION (1) TOP WING		DEPENDENT VARIABLE CP										
ALPHA (4) = 4.032 BETA (1) = .003		2Y/B	.299	.364	.427	.534	.641	.780	.887			
		X/C										
		.362	-.0556									
		.390		-.5279								
		.400				-.8147	-.9310			-.9146		
		.402				-.5973						
		.497	-.4702									
		.550				-.3382	-.4187					
		.565				-.2358						
		.600								-.6277		
		.650								-.5701		
		.700	-.1398				-.3451					
		.725				.0000				-.4772	-.5825	
		.750										
		.760				-.2776						
		.775				-.3097	-.3123					
		.808				-.2962						
		.834	-.2858									
		.850				-.1579	-.1662	-.2532				
		.857				-.1447						
		.865	-.3093									
		.900	-.2903			-.0574				-.4254		
		.905				-.0575	-.0280					
		.930				-.0453		-.0946				
		.950				-.0426						
		.965	-.0903									
ALPHA (5) = 7.920 BETA (1) = .003		2Y/B	.299	.364	.427	.534	.641	.780	.887			
		X/C										
		.000	-.3609	-.2364	.3179	.5126	.4294	.4234	.3763			
		.020			.1679	-.1127	-.2059	-.4147	-.5347			
		.040		-.0075	-.0311							
		.050	-.1809			-.4608	-.6287	-.7496	-.8935			
		.080				-.6761						
		.081				-.5568						
		.086		.0134								
		.094	-.0879									
		.150				-.8937	-.9300	-1.0125	-1.0260			
		.163		-.0967								
		.177				-.7164						
		.229	-.0357									
		.246		-.4420								
		.250				-.9423	-1.0992	-.9650	-1.0053			
		.274				-.7535						
		.362	-.1041									
		.390		-.6418								
		.400				-.10074	-.9734		-.6954			

SECTION (1) TOP WING		DEPENDENT VARIABLE CP							
ALPHA (5) = 7.920 BETA (1) = .005		2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.402			-.8158				
		.497	-.5430						
		.550				-.2794	-.5874		
		.565			-.2878				
		.600							-.6186
		.650						-.6242	
		.700	-.1807					-.5311	
		.725				.0000			
		.750						-.5830	-.6457
		.760			-.2689				
		.775				-.3419	-.4572		
		.808			-.2952				
		.834	-.2430						
		.850				-.2185	-.3318	-.5003	
		.857			-.2557				
		.865	-.2668						
		.900	-.3522			-.1339			-.5733
		.905			-.1224		-.2122		
		.950				-.0949		-.4119	
		.953			-.0777				
		.965	-.0875						

ARC11-0141A19 OTS

SRB-OFF HPS-OFF TOP WING

(REUR40) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -7.992	BETA (1) = .003	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.000	-.2411	-.0361	.1616	.3714	.3670	.1189	-.0414
		.020			.4792	.5532	.5642	.5718	.5330
		.040		.0903	.4471				
		.060	-.1838			.3970	.4000	.4653	.4199
		.080				.2733			
		.081			.2769				
		.086		.1690					
		.094	-.0089						
		.150				.1787	.1658	.1834	.1435
		.163		.3220					
		.177			.1262				
		.229	-.0088						
		.246		.0952					
		.250				.0917	.0627	-.0040	-.0521
		.274			.0948				
		.362	.1880						
		.390		.1207					
		.400				.0295	.0353		-.2304
		.402			.0593				
		.497	.1203						
		.550				.0917	.0245		
		.565			.1661				
		.600							-.1683
		.650						-.0654	
		.700	.2538				-.0690		
		.725				.0000			
		.750						-.0624	-.0785
		.760			.0430				
		.775				-.0192	-.0878		
		.808			.0101				
		.834	.0474						
		.850				-.0693	-.1838	.0155	
		.857			-.0806				
		.865	.0206						
		.900	-.1287			-.0451			.1477
		.905			-.0727		.0004		
		.950				.0089		.1435	
		.953			-.0171				
		.965	-.0143						

ARC11-0141A19 OTS

SRB-OFF MPS-OFF TOP WING

(REUR40)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -4.080 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2554	-.0165	.4083	.5513	.5454	.3911	.2844
.020			.4896	.4362	.4708	.4848	.4825
.040		.0760	.3915				
.060	-.2257			.1970	.2166	.2874	.2654
.080				.0620			
.081			.1550				
.086		.2296					
.094	-.0642						
.150				.0605	-.0320	-.0260	-.0631
.163		.2833					
.177			-.1023				
.229	-.0284						
.246		.0407					
.250				-.1230	-.1179	-.1703	-.2781
.274			-.0368				
.362	.1613						
.390		.0095					
.400				-.1190	-.1209		-.4030
.402			-.0515				
.497	.0333						
.550				.0355	-.0449		
.565			.1223				
.600							-.2233
.650						-.1068	
.700	.2172				-.0977		
.725				.0000			
.750						-.0677	.0019
.760			.0249				
.775				-.0440	-.1150		
.808			-.0092				
.834	.0358						
.850				-.0999	-.1830	.0795	
.857			-.1094				
.865	.0024						
.900	-.1503			-.0582			.1623
.905			-.0998		.0470		
.950				.0279		.1538	
.953			-.0304				
.965	-.0557						

ALPHA (3) = -.225 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.4290	.0555	.2806	.5812	.5375	.4590	.3832
.020			.2768	.3240	.3331	.3217	.3060
.040		.1085	.2397				
.050	-.2839			.0864	.0700	.1153	.0809
.080				-.0657			
.081			.1192				

SECTION (1) TOP WING		ARC11-014IA19 QTS	SRB-OFF MPS-OFF TOP WING							(REUR40)	
		DEPENDENT VARIABLE CP									
ALPHA (3) =	-0.225	BETA (1) =	-4.000	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.086		.1673					
				.094	-.0957						
				.150			-.0320	-.1186	-.1819	-.2360	
				.163		-.2119					
				.177			-.0451				
				.229	.0956						
				.246		.0484					
				.257			-.1615	-.2184	-.3049	-.4015	
				.274			-.0592				
				.362	.1607						
				.390		-.0237					
				.400			-.1857	-.2265		-.4838	
				.402			-.0623				
				.497	-.0039						
				.550			-.0218	-.0993			
				.565			.0546				
				.600						-.2895	
				.690						-.1814	
				.700	.1359			-.1516			
				.725			.0000				
				.750						-.1375	-.0882
				.760			-.0611				
				.775			-.1127	-.1807			
				.808			-.0904				
				.834	-.0484						
				.850			-.1786	-.2813	-.0409		
				.857			-.1864				
				.865	-.0773						
				.900	-.2158		-.1608				.0725
				.905			-.1767	-.1149			
				.950			-.1268		.0695		
				.953			-.1408				
				.965	-.1561						
ALPHA (3) =	-0.159	BETA (2) =	.012	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.000	-.2600	-.0540	.5139	.6704	.6281	.8163	.5512
				.020			.4595	.3347	.3014	.2871	.2783
				.040		.1709	.3359				
				.050	-.2101			.0583	-.0250	.0475	.0073
				.080				-.1391			
				.081			.0229				
				.086		.2486					
				.094	-.1565						
				.150			-.1757	-.1931	-.2571	-.3214	

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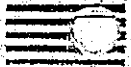
TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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SECTION (1) TOP WING		DEPENDENT VARIABLE CP								
ALPHA (3) = -.159 BETA (2) = .012		2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	(REUR40)
		.163		.2424						
		.177			-.1910					
		.229	-.0226							
		.246		-.0206						
		.250				-.3391	-.3780	-.4314	-.5112	
		.274			-.2112					
		.362	.1608							
		.390		-.1622						
		.400				-.3973	-.4400			-.6149
		.402			-.2320					
		.497	-.1355			-.0068	-.0884			
		.550								
		.565			.0799					-.5933
		.600						-.0908		
		.650					-.1070			
		.700	.1576			.0000				
		.725						-.0454	-.0848	
		.750			.0118					
		.750				-.0556	-.1159			
		.775			-.0192					
		.808								
		.834	.0349							
		.850				-.0951	-.1469	.0821		
		.857			-.1145					
		.865	.0007							.0797
		.900	-.1583			-.0382				
		.905			-.1161		.0840			
		.950				.0399		.1417		
		.953			-.0413					
		.965	-.0799							
ALPHA (3) = -.312 BETA (3) = 4.028		2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.000	-.1110	.0760	.5948	.7690	.7156	.7194	.6768	
		.020			.4926	.3387	.3004	.2460	.2216	
		.040		.2399	.3450					
		.050	-.0627			.0376	-.0582	-.0405	-.0948	
		.080				-.1693				
		.081			-.0793					
		.086		.2884						
		.094	-.0208							
		.150				-.3801	-.3446	-.3464	-.3933	
		.163		.2379						
		.177			-.2509					
		.229	.0333							

SECTION (1) TOP WING		ARC11-0141A19 QTS SRB-OFF MPS-OFF TOP WING (REUR40)							
DEPENDENT VARIABLE CP									
ALPHA (3) = -.312	BETA (3) = 4.028	2Y/B X/C	.299	.384	.427	.534	.641	.780	.887
		.246		-.0404					
		.251				-.4578	-.4305	-.5311	-.5777
		.274			-.3107				
		.362	.1366						
		.390		-.2345					
		.400				-.5344	-.6217		-.6930
		.402			-.3847				
		.497	-.1838						
		.550				-.1174	-.3184		
		.565			-.0096				
		.600							-.6186
		.650						-.5083	
		.700	.0942				-.1863		
		.725				.0000			
		.750						-.2820	-.5760
		.760			.0671				
		.775				-.0144	-.1207		
		.808			.0347				
		.834	.0987						
		.850				.0576	.0741	-.0267	
		.857			-.0343				
		.865	.0620						
		.900	-.0955			.1220			-.3914
		.905			.0342		.1803		
		.950				.1360		.1342	
		.953			.0935				
		.965	.0692						
ALPHA (4) = 3.885	BETA (4) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.2232	-.1151	.4727	.6703	.6090	.6317	.5857
		.020			.3817	.1890	.1544	.0480	-.0197
		.040		.1640	.2286				
		.050	-.1852			-.0869	-.1917	-.2212	-.3150
		.080				-.2607			
		.081			-.1744				
		.086		.2096					
		.094	-.1232						
		.150				-.4329	-.4485	-.4780	-.5426
		.163		.1735					
		.177			-.3088				
		.229	.1313						
		.246		-.1091					
		.251				-.4951	-.5725	-.6355	-.6911
		.274			-.3484				

		ARC11-0141A19 OTS	SRB-OFF MPS-OFF TOP WING							(REUR4D)
SECTION (1) TOP WING		DEPENDENT VARIABLE CF								
ALPHA (4) = 3.885	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.362	.1553							
		.390		-.2622						
		.400				-.5439	-.6693			-.7805
		.402			-.4116					
		.497	-.1840							
		.550				-.1695	-.3191			
		.565			-.0709					
		.600								-.7619
		.650							-.6488	
		.700	.0330				-.2586			
		.725				.0000				
		.750						-.3202		-.6040
		.760			-.0317					
		.775				-.0929	-.1959			
		.808			-.0614					
		.834	-.0127							
		.850				-.0990	-.0467		-.0888	
		.857			-.1408					
		.865	-.0324							
		.900	-.1909			-.0331				-.4153
		.905			-.1424		.0558			
		.950				.0043		.0364		
		.953			-.0636					
		.965	-.1205							
ALPHA (5) = 8.073	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.000	-.2417	-.2345	.3694	.6533	.5620	.6022	.5582	
		.020			.2837	.0614	.0110	-.1393	-.2310	
		.040		.0824	.1136					
		.050	-.1693			-.2412	-.3353	-.4234	-.5383	
		.080				-.4103				
		.081			-.2867					
		.086		.1466						
		.094	-.1228							
		.150				-.5632	-.5789	-.6559	-.7239	
		.163		.0948						
		.177			-.4264					
		.229	.1277							
		.246		-.1719						
		.250				-.6195	-.7231	-.7875	-.8459	
		.274			-.4675					
		.362	.1044							
		.390		-.3397						
		.400				-.6888	-.8209		-.9008	



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TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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SECTION (1) TOP WING		DEPENDENT VARIABLE CP								
ALPHA (5) = 8.073 BETA (1) = .000		2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	(REUR40)
		.402								
		.497	-.2584							
		.550					-.4761	-.7953		
		.565					-.2786			
		.600								-.7774
		.650							-.7346	
		.700	-.1756						-.3552	
		.725					.0000			
		.750							-.6328	-.7689
		.760					-.1030			
		.775					-.2164	-.3732		
		.808					-.1266			
		.834	-.0721							
		.850					-.1814	-.1823	-.5120	
		.857					-.1915			
		.865	-.0919							
		.900	-.2410				-.0974			-.7327
		.905					-.1920	-.0773		
		.950					-.0533		-.5559	
		.953					-.1113			
		.965	-.1773							

ARC11-014IA19 OTS

SRB-OFF MPS-OFF TOP WING

(REUR41) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.250
 GTMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -8.232	BETA (1) = -.006	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.1731	-.1434	.0047	.3499	.3711	.1682	.0499
		.020			.3955	.5147	.5103	.5073	.4981
		.040		-.0098	.3763				
		.060	-.1419			.3333	.3225	.3835	.3714
		.080				.2066			
		.081			.2331				
		.086		.0738					
		.094	-.0702						
		.150				.1018	.0768	.1124	.0971
		.163		.1890					
		.177			-.0023				
		.229	-.0221						
		.246		.0676					
		.250				-.0847	-.0846	-.0816	-.1159
		.274			-.0533				
		.362	.0350						
		.390		-.0615					
		.400				-.2159	-.2184		-.2990
		.402			-.1472				
		.497	-.0525						
		.550				.1127	.0717		
		.565			.1564				
		.600							-.3009
		.690						.0223	
		.700	.2277				.0779		
		.725				.0000			
		.750						.0411	.0164
		.760			.1269				
		.775				.0935	.0518		
		.808			.0988				
		.834	-.1140						
		.850				.0261	-.0023	.0243	
		.857			.0221				
		.865	.0934						
		.900	-.0310			.0511			.1546
		.905			.0247		.0347		
		.950				.0580		.1475	
		.953			.0488				
		.965	.0877						

SECTION (1) TOP WING		DEPENDENT VARIABLE CP							
ALPHA (2) = -4.098 BETA (1) = -.006		2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.1532	-.0374	.1824	.4959	.4922	.3502	.2420
		.020			.3763	.4529	.4434	.4597	.4592
		.040		.0200	.3086				
		.050	-.1754			.2235	.1855	.2786	.2764
		.080				.0528			
		.081			.1064				
		.086		.0620					
		.094	-.1181						
		.150				.0012	-.0309	-.0313	-.0453
		.163		.1346					
		.177			-.0845				
		.229	-.0361						
		.246		-.0064					
		.250				-.2000	-.2129	-.2102	-.2389
		.274			-.1461				
		.352	.0028						
		.390		-.1406					
		.400				-.3233	-.3388		-.4088
		.402			-.2230				
		.497	-.1012						
		.550				-.0698	-.2900		
		.565			.0456				
		.600							-.4418
		.650						-.4000	
		.700	.1292				-.0495		
		.725				.0000			
		.750						-.1944	-.3389
		.760			.0875				
		.775				.0574	-.0209		
		.808			.0615				
		.834	.0748						
		.850				.0095	-.0629	-.0389	
		.857			-.0117				
		.865	.0499						
		.900	-.0651			.0228			-.1295
		.905			-.0112		.0189		
		.950				.0325		.0900	
		.953			.0207				
		.965	.0290						
ALPHA (3) = -.243 BETA (1) = -4.000		2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.2988	-.1286	.2291	.5220	.4716	.3528	.2532
		.020			.2423	.3152	.3043	.2846	.3013
		.040		-.0531	.1892				
		.050	-.2562			.0956	.0448	.0948	.1113
		.080				-.0684			
		.081			.0253				

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ARC11-0141A19 OTS

SRB-OFF MPS-OFF TCP WING

(REUR41)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = -.243 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.086		.0032					
.094	-.1989						
.153				-.1005	-.1180	-.1461	-.1850
.163		.0866					
.177			-.1571				
.229	-.0697						
.246		-.0513					
.250				-.2754	-.2933	-.3119	-.3496
.274			-.2036				
.362	-.0155						
.390		-.1798					
.400				-.3710	-.4023		-.4904
.402			-.2753				
.497	-.1311						
.550				-.1299	-.3442		
.565			-.0186				
.600							-.5131
.650						-.3846	
.700	.0630				-.1121		
.725				.0000			
.750						-.2584	-.3498
.760			.0018				
.775				-.0118	-.0890		
.808			-.0210				
.834	.0020						
.850				-.0536	-.1293	-.0968	
.857			-.0878				
.865	-.0227						
.900	-.1318			-.0473			-.1496
.905			-.0921		-.0664		
.950				-.0415		.0304	
.953			-.0623				
.965	-.0739						

ALPHA (3) = -.171 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1426	-.0738	.3358	.6235	.5882	.4953	.4063
.020			.3772	.3670	.3523	.3349	.3453
.040		-.0122	.2574				
.050	-.1625			.1193	.0541	.1105	.1113
.080				-.0589			
.081			-.0645				
.086		.0261					
.094	-.1011						
.150				-.1950	-.2083	-.1640	-.1830

ARC11-014IA19 OTS SRB-OFF HFS-OFF TOP WING (REUR41)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = -.171 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.163		.0813					
.177			-.1932				
.229	-.0692						
.246		-.0829					
.250				-.3215	-.3096	-.3431	-.3695
.274			-.2639				
.362	-.0521						
.390		-.2146					
.400				-.4063	-.4611		-.5723
.402			-.2998				
.497	-.1578						
.550				-.3985	-.4780		
.565		-.2682					
.600							-.5189
.650						-.5520	
.700	-.0746				-.2160		
.725				.0000			
.750						-.5320	-.4968
.760		.0467					
.775			-.0462	-.1930			
.808		.0281					
.834	.0570						
.850			-.0047	-.1271	-.1807		
.857		-.0301					
.865	.0294						
.900	-.0907			.0125			-.2571
.905		-.0282			-.0439		
.950				.0329		-.1181	
.953		-.0054					
.965	-.0133						

ALPHA (3) = -.171 BETA (3) = 4.025

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.0334	.0067	.3837	.7228	.6921	.6639	.6436
.020			.4288	.4097	.3914	.3772	.3690
.040		.0423	.3007				
.050	-.0791			.1360	.0605	.1184	.0852
.080				-.0590			
.081			-.0563				
.086		.0721					
.094	-.0218						
.150				-.2449	-.2297	-.1826	-.2134
.163		.1187					
.177			-.2069				
.229	-.0460						

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-014IA19 OTS

SRB-OFF MPS-OFF TOP WING

(REUR41)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = -.171 BETA (3) = 4.025

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		-.0732					
.250				-.3591	-.3742	-.3725	-.4016
.274			-.3187				
.362	-.0111						
.390		-.2461					
.400				-.4919	-.4985		-.5207
.402			-.3680				
.497	-.1518						
.550				-.4721	-.5716		
.565			-.3806				
.610							-.5453
.650						-.5839	
.700	-.2873				-.3305		
.725				.0000			
.750						-.5569	-.5638
.760			-.0241				
.775				-.1693	-.2536		
.808			-.0170				
.834	.0836						
.850				-.0550	-.2245	-.2835	
.857			.0308				
.865	.0655						
.900	-.0370			.0335			-.4581
.905			.0295		-.1595		
.950				.1025		-.2486	
.953			.0569				
.965	.0496						

ALPHA (4) = 7.860 BETA (1) = -.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1767	-.3782	.1486	.6158	.5732	.6279	.6071
.020			.1861	.0673	.0622	-.0421	-.1263
.040		-.1405	.0489				
.050	-.1496			-.1928	-.2526	-.2917	-.4020
.080				-.3845			
.081			-.2758				
.086		-.1281					
.094	-.1280						
.150				-.5210	-.4876	-.5040	-.5590
.163		-.0626					
.177			-.4569				
.229	-.1573						
.246		-.2306					
.250				-.6059	-.6065	-.6223	-.6606
.274			-.4953				

SECTION (1) TOP WING		ARC11-014IA19 OTS	SRB-OFF MPS-OFF TOP WING							(REUR41)
		DEPENDENT VARIABLE CP								
ALPHA (4) = 7.860	BETA (1) = -.003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.362	-.0716							
		.390		-.3273						
		.400				-.6334	-.6976			-.7170
		.402			-.4291					
		.497	-.2147							
		.550				-.5419	-.7010			
		.565			-.4272					
		.600								-.6787
		.650							-.7165	
		.700	-.3634				-.5494			
		.725				.0000				
		.750						-.6255	-.7202	
		.760			-.1807					
		.775				-.2431	-.5476			
		.808			-.1638					
		.834	-.0196							
		.850				-.2178	-.3352	-.4163		
		.857			-.0900					
		.865	-.0388							
		.900	-.1345			-.1432				-.6874
		.905			-.0756		-.1983			
		.950				-.0559		-.3400		
		.953			-.0436					
		.965	-.0591							

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ARC11-014JA19 OTS

SRB-OFF MPS-OFF TOP WING

(REUR42) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.059	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.0955	-.0881	.1936	.4840	.5072	.3608	.2793
		.020			.3880	.4701	.4744	.4823	.4971
		.040		-.0243	.3131				
		.050	-.1026			.2626	.2268	.3184	.3385
		.080				.0959			
		.081			.0676				
		.086		.0570					
		.094	-.0902						
		.130				.0180	.0230	.0373	.0377
		.163		.1443					
		.177			-.0639				
		.229	-.0097						
		.246		.0161					
		.250				-.1648	-.1438	-.1293	-.1388
		.274			-.1347				
		.362	-.0157						
		.390		-.1238					
		.400				-.2571	-.2794		-.3009
		.402			-.1947				
		.497	-.0896						
		.550				-.2851	-.3175		
		.565			-.2094				
		.600							-.3442
		.650						-.3579	
		.700	-.0069				-.1565		
		.725				.0000			
		.750						-.3448	-.4074
		.780			.0716				
		.775				-.0055	-.1133		
		.808			.0536				
		.834	.0735						
		.850				.0754	-.0431	-.2020	
		.857			.0489				
		.865	.0462						
		.900	-.0114			.0988			-.2989
		.905			.0510		.0245		
		.950				.1153		-.0989	
		.953			.0684				
		.5	.0787						

ARC11-014IA19 OTS

SRB-OFF MPS-OFF TOP WING

(REUR42)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.183 BETA (1) = -3.997

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2093	-.1328	.2254	.5137	.4897	.3885	.3033
.020			.2512	.3426	.3477	.3307	.3398
.040		-.0545	.1975				
.050	-.1989			.1393	.1049	.1494	.1482
.080				-.0098			
.081			-.0028				
.086		-.0014					
.094	-.1699						
.150				-.1176	-.1263	-.0926	-.1004
.163		.0799					
.177			-.1307				
.229	-.0550						
.246		-.0484					
.250				-.2412	-.2253	-.2408	-.2558
.274			-.1929				
.362	-.0433						
.390		-.1661					
.400				-.3131	-.3481		-.3808
.402			-.2323				
.497	-.1297						
.550				-.3213	-.3754		
.565			-.2360				
.600							-.4023
.650						-.4135	
.700	-.0770				-.1764		
.725				.0000			
.750						-.3979	-.4508
.760			.0337				
.775				-.0337	-.1472		
.808			.0169				
.834	.0384						
.850				-.0116	-.1080	-.2074	
.857			-.0330				
.865	.0138						
.900	-.0784			.0241			-.2927
.905			-.0298		-.0393		
.950				.0439		-.1221	
.953			-.0134				
.965	-.0223						

ALPHA (2) = -.195 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.0676	-.0807	.2988	.6121	.5985	.5151	.4390
.020			.3521	.3997	.4739	.4033	.4146
.040		.0193	.2490				
.050	-.1083			.1603	.1362	.1972	.1902
.080				.0042			
.081			.0020				

		ARC11-014IA19 OTS	SRB-OFF MPS-OFF TOP WING							(RELR42)	
SECTION (1) TOP WING		DEPENDENT VARIABLE CP									
ALPHA (2) =	-.195	BETA (2) =	.012	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.086		.0512					
				.094	-.0841						
				.150				-.1291	-.1209	-.0760	-.0793
				.163		.0994					
				.177				-.1390			
				.229	-.0380						
				.246		-.0432					
				.250				-.2539	-.2407	-.2438	-.2533
				.274				-.2293			
				.362	-.0338						
				.390		-.1933					
				.400				-.3638	-.3729		-.3862
				.402				-.2696			
				.497	-.1355						
				.550				-.3605	-.4230		
				.565		-.2833					
				.600							-.4297
				.650						-.4397	
				.700	-.2049				-.3582		
				.725				.0000			
				.750						-.4364	-.4381
				.760				-.0184			
				.775				-.1242	-.2337		
				.808		-.0184					
				.834	.0483						
				.850				-.0512	-.1526	-.3178	
				.857				.0155			
				.865	.0333						
				.900	-.0430			.0129			-.3337
				.905				.0164	-.1224		
				.950				.0679		-.1826	
				.953				.0368			
				.965	.0285						
ALPHA (2) =	.027	BETA (3) =	4.028	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.000	.0413	-.0221	.4046	.7287	.7127	.6511	.5909
				.020			.4320	.4519	.4544	.4436	.4553
				.040		.0546	.3072				
				.050	-.0112			.1773	.1428	.2090	.1962
				.080				.0032			
				.081				.0255			
				.086		.0828					
				.094	.0045						
				.150				-.1693	-.1256	-.0816	-.0874

SECTION (1) TOP WING		DEPENDENT VARIABLE CP							
ALPHA (2) = .027 BETA (3) = 4.028		2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.163		.1309					
		.177			-.1405				
		.229	-.0118						
		.246		-.0344					
		.250				-.2637	-.2730	-.2500	-.2636
		.274			-.2522				
		.362	-.0097						
		.390		-.1931					
		.400				-.3956	-.3924		-.3955
		.402			-.2893				
		.497	-.1104						
		.550				-.3859	-.4473		
		.565			-.3030				
		.600							-.4259
		.650						-.4654	
		.700	-.2249				-.4483		
		.725				.0000			
		.750						-.4521	-.4113
		.760			-.0999				
		.775				-.1793	-.4365		
		.808			-.1001				
		.834	.0127						
		.850				-.1168	-.1829	-.4101	
		.857			-.0054				
		.865	.0149						
		.900	.0134			-.0767			-.3606
		.905				.0393	-.1284		
		.950				-.0172		-.2791	
		.953				.0912			
		.965	.0800						
ALPHA (3) = 3.924 BETA (1) = .003		2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.000	-.0892	-.1836	.2977	.6775	.6466	.6464	.6087
		.020			.2923	.3028	.3117	.2744	.2722
		.040		-.0530	.1840				
		.050	-.0903			.0445	.0106	.0436	.0090
		.080				-.1108			
		.081			-.0814				
		.086		-.0128					
		.094	-.0691						
		.150				-.2805	-.2318	-.2055	-.2236
		.163		.0261					
		.177			-.2440				
		.229	-.0823						

ARC11-014IA19 OTS

SRB-OFF MPS-OFF TOP WING

(REUR42)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.924 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		-.1195					
.250				-.3426	-.3656	-.3530	-.3605
.274			-.3218				
.362	-.0517						
.390		-.2611					
.400				-.4450	-.4559		-.4640
.402			-.3447				
.497	-.1763						
.550				-.4398	-.4914		
.565			-.3422				
.600							-.4776
.650						-.5213	
.700	-.2675				-.4973		
.725				.0000			
.750						-.5138	-.4722
.760			-.1439				
.775				-.2092	-.3536		
.808			-.1422				
.834	.0026						
.850				-.1804	-.2376	-.3746	
.857			-.0499				
.865	-.0049						
.900	-.0542			-.1205			-.4480
.905			-.0089		-.2172		
.950				-.0413		-.2473	
.953			.0237				
.965	.0096						

ALPHA (4) = 7.809 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1372	-.2658	.2381	.6718	.6295	.6774	.6975
.020			.2017	.1911	.1960	.1355	.1070
.040		-.0876	.0904				
.050	-.1004			-.0636	-.1049	-.1089	-.1617
.080				-.2094			
.081			-.1911				
.086		-.1012					
.094	-.0707						
.150				-.3744	-.3301	-.3201	-.3434
.163		-.0668					
.177			-.3255				
.229	-.1048						
.246		-.1861					
.250				-.4628	-.4456	-.4397	-.4545
.274			-.3992				

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TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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SECTION: (1) TOP WING		DEPENDENT VARIABLE CP									
ALPHA (4) = 7.809 BETA (1) = .003		2Y/B	.299	.364	.427	.534	.641	.780	.887		
		X/C									
		.362	-.0939								
		.390		-.3077							
		.400				-.5184	-.5356		-.5203		
		.402			-.4052						
		.497	-.2073								
		.550				-.5314	-.5724				
		.565			-.3931						
		.600								-.5105	
		.650						-.5706			
		.700	-.3195				-.5694				
		.725				.0200					
		.750						-.5587	-.5701		
		.760			-.2414						
		.775				-.2957	-.3098				
		.808			-.2410						
		.834	-.0531								
		.850				-.2805	-.3388	-.4987			
		.857			-.1632						
		.865	-.0646								
		.900	-.1188			-.2293			-.5450		
		.905			-.0981		-.2519				
		.950				-.1650		-.3745			
		.953			-.0181						
		.965	-.0525								

DEFINITE PAGE IS
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ARC11-014IA19 OTS

SRB-NCM MFG-OFF TOP WING

(REUR45) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-CB = .000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -8.133	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	.0148	.0430	-.0912	.1589	.1604	-.1620	-.3406
		.020			.4191	.4607	.4599	.4249	.3587
		.040		.1597	.3899				
		.060	.0622			.2873	.2794	.3114	.2370
		.080				.1639			
		.081			.2120				
		.086		.2396					
		.094	.1223						
		.150				.0499	.0140	-.0104	-.0881
		.163		.2072					
		.177			.0141				
		.229	.1322						
		.246		.0405					
		.250				-.0936	-.1341	-.1903	-.3357
		.274			-.0549				
		.362	.1552						
		.390		-.0362					
		.400				-.1843	-.2134		-.5234
		.402			-.1399				
		.497	-.0168						
		.550				-.1592	-.2305		
		.565			-.0780				
		.600							-.4084
		.650						-.3197	
		.700	.0337				-.3446		
		.725				.0000			
		.750						-.3286	-.2384
		.760			-.2220				
		.775				-.2888	-.3438		
		.808			-.2598				
		.834	-.2134						
		.850				-.3019	-.4357	-.1479	
		.857			-.3630				
		.865	-.2368						
		.900	-.3553			-.1235			-.0448
		.905			-.2189		-.0730		
		.950				-.0604		-.0707	
		.953			-.1080				
		.965	-.1561						

ARC11-014IA19 OTS

SRB-NOM MPS-OFF TOP WING

(REUR43)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -4.002 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.0240	.0712	.1931	.3674	.3400	.1154	-.0252
.020			.3912	.3596	.3464	.3455	.3075
.040		.1419	.3093				
.060	.0139			.1205	.0697	.1413	.0728
.080				-.0267			
.081			.0583				
.086		.1965					
.094	.0689						
.120				-.1474	-.2222	-.2351	-.3057
.163		.1900					
.177			-.1543				
.229	.0783						
.246		-.1104					
.250				-.2855	-.3339	-.4405	-.5717
.274			-.2124				
.362	.0679						
.390		-.1834					
.400				-.3419	-.3470		-.6718
.402			-.2771				
.497	-.1501						
.550				-.2389	-.3316		
.565			-.1345				
.600							-.4784
.650						-.3408	
.700	-.0306				-.4187		
.725				-.0000			
.750						-.3232	-.1905
.760			-.2664				
.775				-.3531	-.3819		
.808			-.3034				
.834	-.2366						
.850				-.2809	-.1245	.0061	
.857			-.1845				
.865	-.2870						
.900	-.3672			-.0623			-.0332
.905			-.0533		.0231		
.950				-.0503		.0217	
.953			-.0567				
.965	-.1533						

ALPHA (3) = -.342 BETA (1) = -4.000

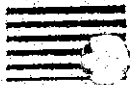
2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1714	-.0135	.1438	.4040	.3594	.2117	.0863
.020			.2227	.2130	.2023	.1704	.1353
.040		.0300	.1687				
.050	-.0872			-.0414	-.0890	-.0530	-.1218
.080				-.1789			
.081			-.0290				

ARC11-014IA19 OTS SRB-NCM MPS-OFF TOP WING (REUR45)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) =	BETA (1) =	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.086		.0756					
		.094	-.0276						
		.150				-.2350	-.3564	-.3815	-.4887
		.163		.0946					
		.177				-.2307			
		.229	.0203						
		.246		-.1500					
		.250				-.3758	-.4149	-.5710	-.7186
		.274				-.2785			
		.362	.0084						
		.390		-.2375					
		.400				-.4212	-.4691		-.8170
		.402				-.3214			
		.497	-.1976						
		.550				-.3265	-.4230		
		.565				-.2279			
		.600							-.5745
		.650						-.4881	
		.700	-.1183				-.5092		
		.725				.0000			
		.750						-.4456	-.3482
		.760				-.3830			
		.775				-.4544	-.5339		
		.808				-.4162			
		.834	-.3704						
		.850				-.4534	-.4689	-.2036	
		.857				-.4742			
		.865	-.3891						
		.900	-.4027			-.1980			-.0846
		.905				-.2758	-.1605		
		.950				-.0888		-.0921	
		.953				-.1490			
		.965	-.2392						
ALPHA (3) =	BETA (2) =	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.000	-.1037	.0398	.3332	.4811	.4677	.3809	.2883
		.020			.3308	.1982	.1892	.1528	.1180
		.040		.1145	.2057				
		.050	-.0319			-.1074	-.1612	-.1241	-.1837
		.080				-.2897			
		.081			-.1193				
		.086		.1501					
		.094	.0295						
		.150				-.3212	-.4382	-.5155	-.5953



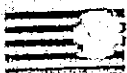
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TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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		ARC11-014IA19 OTS	SRB-NOM MPS-OFF TOP WING (REUR43)								
SECTION (1) TOP WING		DEPENDENT VARIABLE CP									
ALPHA (3) =	-0.357	BETA (2) =	.012	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.163		.1012					
				.177			-.4163				
				.229	.0404						
				.246		-.2359					
				.250				-.5298	-.6014	-.6943	-.8139
				.274			-.3993				
				.362	.0009						
				.390		-.3356					
				.400				-.5991	-.6490		-.9125
				.402			-.4457				
				.497	-.2599						
				.550				-.2949	-.4075		
				.565			-.1908				
				.600							-.6326
				.650						-.3692	
				.700	-.0816				-.4612		
				.725				.0000			
				.750						-.3132	-.1393
				.760			-.3014				
				.775				-.3833	-.4195		
				.808			-.3377				
				.834	-.2865						
				.850				-.1814	-.1054	.0120	
				.857			-.2095				
				.865	-.3144						
				.900	-.3419			-.0760			-.0166
				.905			-.0639		.0288		
				.950				-.0451		.0205	
				.953			-.0579				
				.965	-.1267						
ALPHA (3) =	-0.288	BETA (3) =	4.022	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.000	-.0284	.1027	.4332	.5946	.5611	.5343	.4566
				.020			.3548	.1689	.1275	.0673	.0453
				.040		.1597	.1908				
				.050	.0054			-.1896	-.2983	-.2506	-.2898
				.080				-.4358			
				.081			-.2040				
				.086		.1762					
				.094	.0646						
				.120				-.4638	-.5066	-.6198	-.7068
				.163		.0784					
				.177			-.4579				
				.229	.0642						

SECTION (1) TOP WING		DEPENDENT VARIABLE CP							
ALPHA (3) = -.288 BETA (3) = 4.022		2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.246		-.2877					
		.257				-.6104	-.7280	-.8337	-.9193
		.274			-.4690				
		.362	-.0067						
		.390		-.3706					
		.400				-.7274	-.8512		-.8067
		.402			-.5537				
		.497	-.3708						
		.550				-.2240	-.2633		
		.565			-.1550				
		.670						-.3880	
		.650					-.1962		
		.700	-.0801						
		.725				.0000			
		.750						-.2498	-.3407
		.760			-.1208				
		.775				-.1397	-.1549		
		.808			-.1254				
		.834	-.1166						
		.850				-.0088	-.0237	-.0007	
		.857			-.0348				
		.865	-.1241						
		.900	-.1097			.0319			-.1356
		.905			.0086		.0874		
		.950				.0158		.0691	
		.953			-.0113				
		.965	-.0290						
ALPHA (4) = 3.924 BETA (1) = .000		2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.000	-.2488	-.0797	.3482	.5189	.4590	.4670	.4064
		.020			.2357	.0013	-.0529	-.1737	-.2420
		.040		.0568	.0721				
		.050	-.1105			-.3405	-.4600	-.4933	-.6029
		.080				-.5734			
		.081			-.3454				
		.086		.0799					
		.094	-.0327						
		.150				-.5934	-.7066	-.7972	-.8941
		.163		-.0076					
		.177			-.5925				
		.229	-.0005						
		.246		-.3560					
		.250				-.7459	-.8477	-.9661	-1.0723
		.274			-.6121				



		ARC11-0141A19 OTS	SRB-NOM MPS-OFF TOP WING							(REUR43)
SECTION (1) TOP WING		DEPENDENT VARIABLE CP								
ALPHA (4) = 3.924	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.362	-.0649							
		.390		-.5144						
		.400				-.7774	-.9130			-.9137
		.402			-.6227					
		.497	-.4721							
		.550				-.3585	-.3745			
		.565			-.2612					
		.600								-.5899
		.650						-.5633		
		.700	-.1558				-.3285			
		.725				.0000				
		.750						-.4518	-.5170	
		.760			-.2866					
		.775				-.2793	-.3055			
		.808			-.2799					
		.834	-.2722							
		.850				-.0799	-.1240	-.2164		
		.857			-.1199					
		.865	-.2945							
		.900	-.1998			-.0159				-.3638
		.905			-.0638		.0068			
		.920				-.0210		-.0896		
		.953			-.0640					
		.965	-.0594							
ALPHA (5) = 7.962	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.000	-.3853	-.2228	.3228	.5224	.4282	.4311	.3751	
		.020			.1761	-.1037	-.2054	-.4018	-.5310	
		.040		.0066	-.0166					
		.050	-.1826			-.4556	-.6259	-.7406	-.8802	
		.080				-.6704				
		.081			-.5447					
		.086		.0249						
		.094	-.0796							
		.150				-.8943	-.9267	-.9946	-1.0104	
		.163		-.0855						
		.177			-.7032					
		.229	-.0278							
		.246		-.4303						
		.250				-.9427	-1.0936	-.9386	-.9857	
		.274			-.7396					
		.362	-.0993							
		.390		-.6352						
		.400				-1.0026	-.9233		-.7039	

SECTION (1) TOP WING		DEPENDENT VARIABLE CP							
ALPHA (5) = 7.962 BETA (1) = .000		2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.402				-.7999			
		.497	-.5352						
		.551				-.2632	-.5541		
		.565			-.2531				
		.600							-.6266
		.650						-.6009	
		.700	-.1686				-.4853		
		.725				.0000			
		.750						-.5376	-.6471
		.760			-.2619				
		.775			-.3248	-.4264			
		.808			-.2873				
		.834	-.2369						
		.850				-.1988	-.2860	-.4530	
		.857			-.2062				
		.865	-.2669						
		.900	-.2761			-.1124			-.5670
		.905			-.0890	-.1537			
		.950				-.0920		-.3747	
		.955			-.0594				
		.965	-.0796						

ARC11-014IA19 OTS

SRB-NOM MPS-OFF TOP WING

(REUR44) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.100
 GINBAL = 1.000

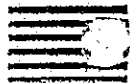
SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -8.106	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.2375	-.0393	.2003	.3923	.3675	.1285	-.0343
		.020			.5280	.5720	.5715	.5719	.5293
		.040		.0657	.4887				
		.060	-.1801			.4035	.4014	.4628	.4188
		.080				.2908			
		.081			.3105				
		.086		.2059					
		.094	-.0072						
		.151				.1892	.1752	.1835	.1385
		.163		.3580					
		.177			.1469				
		.229	-.0092						
		.246		.1457					
		.250				.0820	.0664	-.0030	-.0555
		.274			.1099				
		.362	.1921						
		.390		.1309					
		.400				.0288	.0355		-.2299
		.402			.0602				
		.497	.1223						
		.550				.0915	.0245		
		.565		.1693					
		.600							-.1675
		.650						-.0669	
		.700	.2524				-.0695		
		.725				.0000			
		.750						-.0635	-.0811
		.760			.0453				
		.775				-.0200	-.0877		
		.808			.0120				
		.834	.0473						
		.850				-.0691	-.1848	.0123	
		.857			-.0815				
		.865	.0207						
		.900	-.1213			-.0427			.1497
		.905			-.0731		-.0049		
		.950				.0116		.1416	
		.953			-.0163				
		.965	-.0163						

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		ARC11-014IA19 OTS	SRB-NON MPS-OFF TOP WING							(REUR44)
SECTION (1) TOP WING		DEPENDENT VARIABLE CP								
ALPHA (2) = -4.038	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.000	-.2563	.0170	.4365	.5711	.5505	.3855	.2819	
		.020			.5038	.4539	.4777	.4824	.4777	
		.040		.1355	.4234					
		.050	-.2264			.2174	.2234	.2814	.2621	
		.080				.0724				
		.081			.1813					
		.086		.2761						
		.094	-.0626							
		.150				.0512	-.0349	-.0300	-.0715	
		.163		.3138						
		.177			-.0842					
		.229	-.0173							
		.246		.0631						
		.250				-.1188	-.1217	-.1743	-.2855	
		.274			-.0491					
		.362	.2009							
		.390		.0011						
		.400				-.1292	-.1270		-.4082	
		.402			-.0627					
		.497	.0558							
		.550				.0337	-.0472			
		.565			.1225					
		.600							-.2271	
		.650						-.1103		
		.700	.2168				-.0996			
		.725				.0200				
		.750						-.0715	-.0002	
		.761			.0229					
		.775				-.0456	-.1186			
		.808			-.0108					
		.834	.0329							
		.850				-.1023	-.1871	.0741		
		.857			-.1139					
		.865	.0004							
		.900	-.1511			-.0606			.1592	
		.905			-.1046		.0409			
		.950				.0248		.1481		
		.953			-.0366					
		.965	-.0679							
ALPHA (3) = -3.363	BETA (1) = -4.003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.000	-.4318	.0606	.2799	.5765	.5338	.4423	.3600	
		.020			.2745	.3265	.3336	.3226	.3103	
		.040		.1127	.2390					
		.050	-.2761			.0866	.0711	.1149	.0857	
		.080				-.0501				
		.081			.1215					



		ARC11-014IA19 OTS	SRB-NOM MPS-OFF TOP WING							(REUR44)	
SECTION (1) TOP WING		DEPENDENT VARIABLE CP									
ALPHA (3) =	-0.363	BETA (1) =	-4.003	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.086		.1654					
				.094	-.0914						
				.150				-.0393	-.1193	-.1751	-.2290
				.163		.2095					
				.177			-.0415				
				.229	.1065						
				.246		.0481					
				.250				-.1617	-.2077	-.2879	-.3910
				.274			-.0641				
				.362	.1611						
				.390		-.0289					
				.400				-.1959	-.2228		-.4958
				.402			-.0637				
				.497	-.0015						
				.550				-.0521	-.1126		
				.565		.0489					
				.600							-.3002
				.650						-.1940	
				.700	.1298				-.1642		
				.725				.0200			
				.750						-.1524	-.1042
				.760			-.0703				
				.775				-.1269	-.1921		
				.808			-.1014				
				.834	-.0606						
				.850				-.1950	-.2935	-.0628	
				.857			-.1965				
				.865	-.0902						
				.900	-.2250			-.1732			.0570
				.905			-.1869		-.1317		
				.950				-.1439		.0517	
				.953			-.1512				
				.965	-.1709						
ALPHA (3) =	-0.363	BETA (2) =	.012	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.000	-.2607	.0506	.5306	.6573	.6260	.5955	.5353
				.020			.4568	.3353	.3139	.2891	.2811
				.040		.2174	.3331				
				.050	-.2088			.0562	-.0147	.0452	.0189
				.080				-.1395			
				.081			.0230				
				.086		.2648					
				.094	-.1419						
				.150				-.1308	-.1954	-.2626	-.3258

		ARC11-014IA19 OTS	SRB-NOM MPS-OFF TOP WING (RELR44)						
SECTION (1) TOP WING		DEPENDENT VARIABLE CP							
ALPHA (3) =	BETA (2) =	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
	.012	.163		.2420					
		.177			-.1940				
		.229	.0913						
		.246		-.0143					
		.250				-.3119	-.3703	-.4370	-.5169
		.274			-.2155				
		.362	.1873						
		.390		-.1577					
		.400				-.3429	-.4477		-.6185
		.402			-.2193				
		.497	-.1221						
		.550				-.0118	-.0882		
		.565			.0729				
		.600						-.0988	-.5852
		.650							
		.700	.1560				-.1141		
		.725				.0000			
		.750						-.0518	-.0576
		.760			.0027				
		.775				-.0662	-.1304		
		.808			-.0280				
		.834	.0250						
		.850				-.1090	-.1604	.0778	
		.857			-.1233				
		.865	-.0072						
		.900	-.1660			-.0556			.0894
		.905			-.1228		.0721		
		.950				.0261		.1398	
		.953			-.0502				
		.965	-.0952						
ALPHA (3) =	BETA (3) =	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
	4.022	.000	-.1146	.1092	.5859	.7604	.7169	.7111	.6673
		.020			.4959	.3404	.3076	.2456	.2248
		.040		.2434	.3351				
		.050	-.0594			.0352	-.0558	-.0420	-.0950
		.080				-.1694			
		.081			-.0786				
		.086		.2785					
		.094	-.0079						
		.150				-.3462	-.3469	-.3523	-.3983
		.163		.2252					
		.177			-.2517				
		.229	.0723						

ARC11-014TA19 OTS SRB-NOM MPS-OFF TOP WING (RELRA4)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = -.393 BETA (3) = 4.022

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		-.0529					
.250				-.4518	-.4369	-.5342	-.5926
.274			-.3158				
.362	.1748						
.390		-.2416					
.400				-.5279	-.6291		-.6935
.402			-.3913				
.497	-.1708						
.550				-.1100	-.3209		
.565			.0741				
.600							-.6253
.650						-.3836	
.700	.0987				-.1709		
.725				.0700			
.750						-.2133	-.5696
.760			.0602				
.775				-.0139	-.0868		
.808			.0285				
.834	.0912						
.850				.0513	.0738	-.0389	
.857		-.0432					
.865	.0545						
.900	-.1004			.1159			-.3814
.905			.0234		.1834		
.950				.1286		.0702	
.953			.0826				
.965	.0676						

ALPHA (4) = 3.888 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2178	-.0795	.4755	.6621	.6020	.6223	.5743
.020			.3828	.1927	.1517	.0445	-.0214
.040		.1753	.2296				
.050	-.1711			-.0888	-.1915	-.2300	-.3212
.080				-.2691			
.081			-.1810				
.086		.2199					
.094	-.1111						
.150				-.4311	-.4528	-.4878	-.5521
.163		.1717					
.177			-.3172				
.229	.1574						
.246		-.1167					
.250				-.5075	-.5559	-.6447	-.6993
.274			-.3620				

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SECTION (1) TOP WING		ARC11-014IA19 OTS	SRB-NOM MPS-OFF TOP WING							(REUR48)
ALPHA (4) = 3.888 BETA (1) = .000		DEPENDENT VARIABLE CP								
		2Y/B	.299	.364	.427	.534	.641	.780	.887	
		X/C								
		.362	.1485							
		.390		-.2814						
		.400				-.5595	-.6807			-.7888
		.402			-.4311					
		.497	-.2025							
		.550				-.1797	-.3417			
		.565			-.0796					
		.600								-.7710
		.650						-.4760		
		.700	.0346				-.2371			
		.725				.0000				
		.750						-.3282		-.4762
		.760			-.0387					
		.775				-.0931	-.1762			
		.808			-.0695					
		.834	-.0220							
		.850				-.1084	-.0742	-.1162		
		.857			-.1489					
		.865	-.0455							
		.900	-.2010			-.0372				-.4023
		.905			-.1490		.0552			
		.950				.0004		.0238		
		.953			-.0700					
		.965	-.1312							
ALPHA (5) = 7.977 BETA (1) = .000		2Y/B	.299	.364	.427	.534	.641	.780	.887	
		X/C								
		.000	-.2155	-.2244	.4157	.6595	.5739	.6102	.5635	
		.020			.3154	.0823	.0223	-.1265	-.2218	
		.040		.1078	.1420					
		.050	-.1581			-.2188	-.3280	-.4151	-.5294	
		.080				-.3790				
		.081			-.2690					
		.086		.1593						
		.094	-.1134							
		.150				-.5511	-.5687	-.6425	-.7190	
		.163		.1044						
		.177			-.4133					
		.229	.1304							
		.246		-.1700						
		.250				-.8087	-.7131	-.7773	-.8399	
		.274			-.4679					
		.362	.1112							
		.390		-.3369						
		.400				-.6815	-.8075		-.8970	

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

PAGE 353

SECTION (1) TOP WING	ARC11-0141A19 OTS	SRB-NOM MPS-OFF TOP WING	(RELR44)
DEPENDENT VARIABLE CP			
ALPHA (5) = 7.977	BETA (1) = .000	2Y/B X/C	.299 .364 .427 .534 .641 .780 .887
		.402	-.4870
		.497	-.2502
		.550	-.5314 -.7917
		.565	-.2497
		.610	-.7717
		.650	-.7351
		.700	-.1666 -.3418
		.725	.0000
		.750	-.6314 -.7596
		.760	-.0984
		.775	-.2106 -.3736
		.808	-.1239
		.834	-.0722
		.851	-.1709 -.1518 -.4933
		.857	-.1864
		.865	-.0895
		.900	-.2377
		.915	-.1887
		.950	-.0576
		.953	-.5310
		.965	-.1069
		.965	-.1784

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-014IA19 OTS

SRB-NCM MPS-OFF TOP WING

(REUR45) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.290
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -8.244	BETA (1) = -.009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.1725	-.1381	.0058	.3529	.3767	.1697	.0515
		.020			.4019	.5204	.5162	.5145	.5027
		.040		-.0025	.3845				
		.050	-.1428			.3421	.3290	.3940	.3786
		.080				.2133			
		.081			.2385				
		.086		.0765					
		.094	-.0679						
		.150				.1034	.0809	.1171	.1033
		.163		.1926					
		.177			.0070				
		.229	-.0184						
		.246		.0686					
		.250				-.0838	-.0822	-.0769	-.1141
		.274			-.0380				
		.362	.0386						
		.390		-.0915					
		.400				-.2169	-.2194		-.3000
		.402			-.1340				
		.497	-.0518						
		.550				.1112	.0761		
		.565		.1641					
		.600							-.2936
		.650						.0357	
		.700	.2304				.0783		
		.725				.0000			
		.750						.0463	.0153
		.760			.1321				
		.775			.1026	.0936	.0535		
		.808							
		.834	.1136						
		.850				.0256	-.0817	.0233	
		.857			.0262				
		.865	.0936						
		.900	-.0268			.0512			.1545
		.905			.0305		.0353		
		.950				.0599		.1578	
		.953			.0546				
		.965	.0882						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

PAGE 355

ARC11-014IA19 OTS SRB-NOM MPS-OFF TOP WING (REUR45)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -3.936 BETA (1) = -.009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1541	-.0327	.1851	.4932	.4973	.3542	.2464
.020			.3729	.4411	.4390	.4482	.4506
.040		.0188	.3062				
.050	-.1785			.2106	.1771	.2626	.2664
.080				.0371			
.081			.0869				
.086		.0600					
.094	-.1142						
.150				-.0064	-.0373	-.0473	-.0613
.163		.1308					
.177			-.0992				
.229	-.0367						
.246		-.0191					
.250				-.2160	-.2230	-.2227	-.2558
.274			-.1594				
.362	-.0024						
.390		-.1501					
.400				-.3292	-.3502		-.4212
.402			-.2353				
.497	-.1098			-.0741	-.3227		
.550							
.565			.0331				-.4547
.600							
.650						-.4299	
.700	.1229				-.0597		
.725				.0000			
.750						-.2168	-.3462
.760			.0768				
.775				.0485	-.0417		
.808			.0516				
.834	.0665						
.850				.0023	-.0690	-.0562	
.857			-.0205				
.865	.0404						
.900	-.0676			.0174			-.1339
.905			-.0163		.0103		
.950				.0283		.0728	
.953			.0156				
.965	.0166						

ALPHA (3) = -.309 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2990	-.1257	.2329	.5394	.4674	.3528	.2624
.020			.2513	.3187	.3128	.2934	.3020
.040		-.0541	.1940				
.050	-.2528			.0877	.0484	.1058	.0967
.080				-.0855			
.081			.0361				

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		ARC11-014IA19 QTS	SRB-NOM MPS-OFF TCP WING							(REUR45)	
SECTION (1) TCP WING		DEPENDENT VARIABLE CP									
ALPHA (3) =	- .308	BETA (1) =	-4.000	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.086		.0066					
				.094	- .2005						
				.150				-.0954	-.1111	-.1378	-.2009
				.163		.0916					
				.177			-.1487				
				.229	- .0689						
				.246		-.0451					
				.250				-.2713	-.2874	-.3018	-.3801
				.274			-.1946				
				.362	- .0101						
				.390		-.1778					
				.400				-.3708	-.3965		-.4850
				.402			-.2681				
				.497	- .1282						
				.550				-.1190	-.3354		
				.565			-.0084				
				.600							-.5076
				.650						-.3690	
				.700	.0688				-.1119		
				.725				.0000			
				.750						-.2495	-.3533
				.760			.0067				
				.775				-.0101	-.0815		
				.808			-.0156				
				.834	.0043						
				.850				-.0588	-.1236	-.0886	
				.857			-.0804				
				.865	- .0194						
				.900	- .1214						-.1492
				.905				-.0442			
				.905			-.0834		-.0596		
				.950				-.0370		.0370	
				.953			-.0533				
				.965	- .0695						
ALPHA (3) =	- .360	BETA (2) =	.009	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.000	-.1421	-.0671	.3136	.6075	.5680	.4919	.3989
				.020			.3689	.3700	.3568	.3379	.3499
				.040		-.0101	.2536				
				.050	-.1648			.1261	.0644	.1165	.1168
				.080				-.0536			
				.081			-.0634				
				.086		.0313					
				.094	- .1001						
				.120				-.1848	-.2008	-.1611	-.1792

		ARC11-014IA19 OTS	SRB-NOM MPS-OFF TOP WING							(RELRA5)	
SECTION (1) TOP WING		DEPENDENT VARIABLE CP									
ALPHA (3) =	-0.360	BETA (2) =	.009	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.163		.0854					
				.177			-.1911				
				.229	-.0641						
				.246		-.0793					
				.250				-.3161	-.3031	-.3383	-.3651
				.274			-.2557				
				.362	-.0512						
				.390		-.2110					
				.400				-.3999	-.4539		-.4944
				.402			-.3017				
				.497	-.1480						
				.550				-.3916	-.4726		
				.565			-.2656				
				.600							-.5205
				.650						-.5501	
				.700	-.0660				-.2119		
				.725				.0000			
				.750						-.5307	-.4947
				.760			.0476				
				.775				-.0393	-.1967		
				.808			.0276				
				.834	.0579						
				.850				-.0006	-.1304	-.1769	
				.857			-.0280				
				.865	.0338						
				.900	-.0839			.0188			-.2447
				.905			-.0248		-.0434		
				.950				.0365		-.1179	
				.953			.0008				
				.965	-.0139						
ALPHA (3) =	-0.405	BETA (3) =	4.025	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.000	-.0295	.0096	.3832	.7282	.6958	.6515	.6423
				.020			.4272	.4240	.4027	.3907	.3838
				.040		.0433	.3131				
				.050	-.0777			.1470	.0719	.1340	.1017
				.080				-.0473			
				.081			-.0468				
				.086		.0729					
				.094	-.0221						
				.150				-.2316	-.2188	-.1706	-.1981
				.163		.1264					
				.177			-.1992				
				.229	-.0415						

		ARC11-014IA19 OTS	SRB-NOM MPS-OFF TOP WING						(REUR45)		
SECTION (1) TOP WING		DEPENDENT VARIABLE CP									
ALPHA (3) =	-0.405	BETA (3) =	4.025	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.246		-.0701					
				.250				-.3493	-.3657	-.3616	-.3883
				.274			-.3091				
				.362	-.0073						
				.390		-.2355					
				.400				-.4839	-.4888		-.5099
				.402			-.3586				
				.497	-.1469						
				.550				-.4666	-.5628		
				.565			-.3727				
				.600							-.5398
				.650						-.5744	
				.700	-.2813				-.3239		
				.725				.0000			
				.750						-.5482	-.5478
				.760			-.0129				
				.775				-.1704	-.2565		
				.808			-.0041				
				.834	.0928						
				.850				-.0495	-.2173	-.2719	
				.857			.0385				
				.865	.0724						
				.900	-.0306			.0484			-.4483
				.905				.0404	-.1375		
				.950				.1126		-.2406	
				.953				.0642			
				.965	.0517						
ALPHA (4) =	3.873	BETA (1) =	.000	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.000	-.1462	-.2280	.3525	.6477	.8002	.6679	.6530
				.020			.3162	.2073	.2023	.1722	.1316
				.040		-.0745	.1628				
				.050	-.1414			-.0665	-.1120	-.0798	-.1445
				.080				-.2302			
				.081			-.1480				
				.086		-.0304					
				.094	-.1194						
				.150				-.3673	-.3407	-.3210	-.3700
				.163		.0252					
				.177			-.3043				
				.229	-.1045						
				.246		-.1505					
				.250				-.4401	-.4736	-.4743	-.5059
				.274			-.3741				

ARC11-014IA19 OTS

SRB-NOM MPS-OFF TOP WING

(REUR45)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (4) = 3.873 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.362	-.0734						
.390		-.2798					
.400				-.5230	-.5519		-.5964
.402			-.3721				
.497	-.1834						
.557				-.4683	-.5913		
.565			-.3721				
.600							-.6036
.650						-.6440	
.700	-.2562				-.3107		
.725				.0000			
.750						-.6164	-.6099
.760			-.0447				
.775				-.1789	-.2784		
.808			-.0455				
.834	.0214						
.850				-.0909	-.2413	-.2840	
.857			-.0323				
.865	.0108						
.900	-.0917			-.0155			-.4496
.905			-.0325		-.1564		
.950				.0370		-.2394	
.953			-.0041				
.965	-.0219						

ALPHA (5) = 7.989 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1652	-.3668	.1531	.6216	.5781	.6367	.6135
.020			.1958	.0722	.0651	-.0401	-.1278
.040		-.1316	.0551				
.050	-.1413			-.1869	-.2461	-.2897	-.3981
.080				-.3378			
.081			-.2700				
.086		-.1289					
.094	-.1188						
.150				-.5144	-.4802	-.4999	-.5522
.163		-.0607					
.177			-.4491				
.229	-.1543						
.246		-.2230					
.250				-.6097	-.6001	-.6165	-.6536
.274			-.4856				
.362	-.0801						
.390		-.3242					
.400				-.6336	-.6919		-.7110

ORIGINAL PAGE IS
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DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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SECTION (1) TOP WING		ARC11-014IA19 OTS		SRB-NOM MPS-OFF TOP WING					(REUR45)		
		DEPENDENT VARIABLE CP									
ALPHA (5) =	7.989	BETA (1) =	.000	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.402			-.4182				
				.497	-.2093						
				.557				-.5354	-.6953		
				.565			-.4187				
				.600							-.6733
				.650						-.7036	
				.700	-.3586				-.5418		
				.725				.0000			
				.750						-.6124	-.7044
				.760			-.1578				
				.775				-.2266	-.5391		
				.808			-.1581				
				.834	-.0148						
				.850				-.2106	-.3390	-.4112	
				.857			-.0831				
				.865	-.0331						
				.900	-.1220			-.1390			-.6950
				.905			-.0642		-.1948		
				.950				-.0559		-.3347	
				.953			-.0271				
				.965	-.0572						

ARC11-014IA19 QTS

SRB-NOM MPS-OFF TOP WING

(REL46) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -8.175 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.0924	-.0899	.0109	.3258	.3714	.2065	.1184
.020			.3714	.5044	.5135	.5236	.5282
.040		-.0229	.3382				
.060	-.0894			.3339	.3323	.4107	.4117
.080				.1950			
.081			.2014				
.086		.0471					
.094	-.0346						
.150				.1164	.1116	.1514	.1526
.163		.1707					
.177			.0101				
.229	.0235						
.246		.0634					
.250				-.0611	-.0517	-.0345	-.0426
.274			-.0432				
.362	.0170						
.390		-.0627					
.400				-.1839	-.1847		-.2163
.402			-.1246				
.497	-.0480						
.550				-.1658	-.2375		
.565			.0239				
.600							-.2680
.650						-.2671	
.700	.1541				.0081		
.725				.0000			
.750						-.2523	-.3465
.760			.1345				
.775				.1153	.0197		
.808			.1394				
.834	.1097						
.850				.1147	.0525	-.0024	
.857			.0778				
.865	.1019						
.900	.0241			.1208			-.0768
.905			.0791		.1106		
.950				.1334		.1398	
.953			.1012				
.965	.1203						

ARC11-014IA19 OTS

SRB-NON MPS-OFF TOP WING

(REUR46)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -4.002 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.0958	-.0909	.1933	.4060	.5003	.3705	.2853
.020			.3857	.4681	.4737	.4765	.4953
.040		-.0260	.3090				
.050	-.1023			.2584	.2233	.3114	.3333
.080				.0917			
.081			.0552				
.086		.0594					
.094	-.0917						
.150				-.0010	.0172	.0387	.0285
.163		.1448					
.177			-.0686				
.229	-.0127						
.246		.0125					
.250				-.1694	-.1499	-.1325	-.1454
.274			-.1420				
.362	-.0355						
.390		-.1282					
.400				-.2629	-.2855		-.3065
.402			-.2012				
.497	-.0922			-.2897	-.3243		
.550				-.2115			
.565							-.3509
.600						-.3628	
.650							
.700	-.0115				-.1596		
.725				.0000			
.750						-.3492	-.4055
.760			.0659				
.775			-.0089	-.1159			
.800			.0494				
.834	.0702						
.850				.0691	-.0493	-.2047	
.857			.0455				
.865	.0441						
.900	-.0118			.0956			-.2991
.905			.0467		.0179		
.950				.1149		-.1030	
.953			.0694				
.965	.0698						

ALPHA (3) = -.348 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2088	-.1307	.2254	.5135	.4895	.3834	.3039
.020			.2516	.3520	.3546	.3300	.3443
.040		-.0325	.1984				
.050	-.1987			.1422	.1119	.1557	.1576
.080				-.0103			
.081			.0066				

		ARC11-014IA19 OTS	SRB-NON MPS-OFF TOP WING						(REUR46)		
SECTION (1) TOP WING		DEPENDENT VARIABLE CP									
ALPHA (3) =	-0.348	BETA (1) =	-4.000	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.086		-.0035					
				.094	-.1705						
				.150				-.1068	-.1196	-.0836	-.0936
				.163		.0810					
				.177			-.1294				
				.229	-.0557						
				.246		-.0444					
				.250				-.2401	-.2227	-.2358	-.2512
				.274			-.1929				
				.362	-.0444						
				.390		-.1648					
				.400				-.3118	-.3418		-.3763
				.402			-.2306				
				.497	-.1294						
				.550				-.3184	-.3610		
				.565			-.2320				
				.600							-.4020
				.650						-.4106	
				.700	-.0689				-.1730		
				.725				.0000			
				.750						-.3976	-.4545
				.760			.0343				
				.775				-.0290	-.1470		
				.808			.0150				
				.834	.0387						
				.850				-.0093	-.1075	-.2136	
				.857			-.0305				
				.865	.0135						
				.900	-.0720			.0268			-.3030
				.905			-.0265		-.0411		
				.950				.0466		-.1202	
				.953			-.0063				
				.965	-.0200						
ALPHA (3) =	-0.369	BETA (2) =	.016	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.000	-.0600	-.0847	.2986	.6093	.5958	.5113	.4394
				.020			.3554	.4062	.4144	.4092	.4215
				.040		.0177	.2535				
				.050	-.1027			.1659	.1418	.2041	.1981
				.080				.0104			
				.081			.0062				
				.086		.0552					
				.094	-.0840						
				.150				-.1239	-.1110	-.0659	-.0728

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-014IA19 OTS

SRB-NOM MPS-OFF TOP WING

(RELR46)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) =	BETA (2) =	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
	.016	.163		.1003					
		.177			-.1356				
		.229	-.0352						
		.246		-.0428					
		.250			-.2503	-.2370	-.2381	-.2458	
		.274			-.2217				
		.362	-.0354						
		.390		-.1903					
		.400			-.3576	-.3667		-.3791	
		.402			-.2644				
		.497	-.1332						
		.550			-.3535	-.4172			
		.565			-.2795				
		.600						-.4229	
		.690					-.4343		
		.700	-.2033				-.3577		
		.725			.0000				
		.750						-.4307	-.4385
		.760			-.0155				
		.775			-.1197	-.2326			
		.808			-.0179				
		.834	.0483						
		.850			-.0514	-.1459	-.3362		
		.857			.0146				
		.865	.0313						
		.900	-.0406			.0138		-.3294	
		.905			.0170	-.1177			
		.950				.0669		-.1783	
		.953			.0418				
		.965	.0278						
ALPHA (3) =	BETA (3) =	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
	4.028	.000	.0414	-.0189	.3985	.7290	.7141	.6394	.5737
		.020			.4366	.4696	.4750	.4646	.4756
		.040		.0541	.3122				
		.050	-.0125			.2008	.1662	.2308	.2234
		.080				.0273			
		.081			.0393				
		.086			.0874				
		.094	.0942						
		.150				-.1486	-.1101	-.0593	-.0644
		.163			.1422				
		.177			-.1193				
		.229	-.0066						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - 1A19 (ARC 11-014)

PAGE 365

ARC11-0141A19 OTS SRB-NOM MFS-OFF TOP WING (REUR46)

SECTION (1) TOP WING

DEPENDENT VARIABLE CF

ALPHA (3) = -0.360	BETA (3) = 4.028	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		-.0264					
		.250				-.2488	-.2560	-.2313	-.2448
		.274			-.2356				
		.362	-.0067						
		.390		-.1805					
		.400				-.3855	-.3722		-.3806
		.402			-.2736				
		.497	-.1060						
		.550				-.3755	-.4364		
		.565			-.2904				
		.600							-.4236
		.650						-.4468	
		.700	-.2109				-.4304		
		.725				.0000			
		.750						-.4326	-.4044
		.760			-.0845				
		.775				-.1660	-.4175		
		.808			-.0817				
		.834	.0246						
		.850				-.1016	-.1701	-.4044	
		.857			.0123				
		.865	.0265						
		.900	.0123			-.0569			-.3448
		.905			.0524		-.1209		
		.950				-.0004		-.2645	
		.953			.1022				
		.965	.0857						

ALPHA (4) = 3.900	BETA (1) = .006	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.0868	-.1854	.2956	.6816	.6475	.6461	.6117
		.020			.2879	.3078	.3155	.2802	.2737
		.040		-.0507	.1867				
		.050	-.0901			.0467	.0150	.0459	.0138
		.080				-.1084			
		.081			-.0822				
		.086		-.0137					
		.094	-.0680						
		.150				-.2768	-.2272	-.2013	-.2226
		.163		.0301					
		.177			-.2421				
		.229	-.0818						
		.246		-.1161					
		.250				-.3475	-.3610	-.3465	-.3562
		.274			-.3174				

ARC11-014IA19 OTS SRB-NOM MPS-OFF TOP WING (REUR46)

SECTION (1) TOP WING

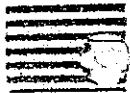
DEPENDENT VARIABLE CP

ALPHA (4) = 3.900 BETA (1) = .006

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.362	-.0492						
.390		-.2571					
.400				-.4426	-.4530		-.4630
.402			-.3424				
.497	-.1726						
.550				-.4381	-.4895		
.565			-.3408				
.600							-.4742
.650						-.5170	
.700	-.2676				-.4950		
.725				.0000		-.5193	-.4682
.750							
.760			-.1436				
.775				-.2076	-.3652		
.808			-.1369				
.834	.0025						
.850				-.1017	-.2363	-.3038	
.857			-.0492				
.865	-.0030			-.1232			-.4448
.900	-.0462				-.2076		
.905			-.0055				
.950				-.0427		-.2458	
.953			.0300				
.965	.0072						

ALPHA (5) = 7.653 BETA (1) = .006

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1407	-.2692	.2360	.6830	.6347	.6739	.6940
.020			.2037	.1968	.2005	.1418	.1150
.040		-.0923	.0921				
.050	-.1083			-.0592	-.1036	-.1038	-.1565
.080				-.2065			
.081			-.1640				
.086		-.1030					
.094	-.0737						
.150				-.3735	-.3284	-.3194	-.3396
.163		-.0581					
.177			-.3247				
.229	-.1036						
.246		-.1829					
.250				-.4610	-.4451	-.4373	-.4497
.274			-.3935				
.362	-.0905						
.390		-.3066					
.400				-.5185	-.5366		-.5195



DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

PAGE 367

SECTION (1) TOP WING		ARC11-014IA19 OTS	SRB-NOM MFB-OFF TOP WING							(RELR46)	
		DEPENDENT VARIABLE CP									
ALPHA (5) =	7.653	BETA (1) =	.016	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.472			-.4057				
				.497	-.2077						
				.550			-.5300	-.5711			
				.565			-.3926				
				.600						-.5080	
				.690						-.5695	
				.700	-.3204				-.5683		
				.725			.0000				
				.750						-.5592	-.5695
				.760			-.2421				
				.775			-.2958	-.5159			
				.808			-.2432				
				.834	-.0539						
				.850			-.2597	-.3389	-.5035		
				.857			-.1665				
				.865	-.0648						
				.900	-.1186			-.2294			-.5446
				.905			-.1019	-.2533			
				.950			-.1655		-.3782		
				.955			-.0201				
				.965	-.0599						

ARC11-0141A19 OTS

SRB-OFF MPS-OFF TOP WING

(REUR47) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.050	BETA (1) = -.003	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.000	-.0986	-.0911	.1886	.4801	.5067	.3649	.2775
		.020			.3817	.4691	.4737	.4799	.4952
		.040		-.0305	.3083				
		.060	-.1069			.2564	.2276	.3162	.3321
		.080				.0902			
		.081			.0535				
		.086		.0483					
		.094	-.0955						
		.150				-.0017	.0173	.0292	.0316
		.163		.1395					
		.177			-.0695				
		.229	-.0127						
		.246		.0101					
		.250				-.1696	-.1494	-.1352	-.1462
		.274			-.1410				
		.362	-.0420						
		.390		-.1282					
		.400				-.2622	-.2853		-.3057
		.402			-.2013				
		.497	-.0961						
		.550				-.2889	-.3243		
		.565			-.2111				
		.600							-.3579
		.650						-.3633	
		.700	-.0039				-.1654		
		.725				.0000			
		.750						-.3908	-.4176
		.760			.0628				
		.775				-.0107	-.1376		
		.808			.0456				
		.834	.0679						
		.850				-.1856	-.1365	-.2723	
		.857			-.2056				
		.865	.0429						
		.900	-.2190			-.1465			-.3050
		.905			-.1937		-.1008		
		.920				-.1086		-.1038	
		.953			-.1625				
		.965	-.1976						

ARC11-014IA19 OTS SRB-OFF MPS-OFF TOP WING (REUR47)

SECTION (1) TCP WING

DEPENDENT VARIABLE CP

ALPHA (2) =	BETA (1) =	2Y/B	.299	.364	.427	.534	.641	.780	.887
	-4.000	X/C							
		.000	-.2146	-.1402	.2270	.5136	.4857	.3977	.3992
		.020			.2522	.3484	.3497	.3344	.3427
		.040		-.0590	.1946				
		.050	-.2003			.1391	.1045	.1515	.1487
		.080				-.0121			
		.081			.0029				
		.066		-.0016					
		.094	-.1742						
		.150				-.1153	-.1218	-.0968	-.0996
		.163		.0800					
		.177			-.1285				
		.229	-.0571						
		.246		-.0462					
		.250				-.2421	-.2243	-.2403	-.2531
		.274			-.1952				
		.362	-.0412						
		.390		-.1671					
		.400				-.3137	-.3432		-.3801
		.402			-.2324				
		.497	-.1282						
		.550				-.3215	-.3644		
		.565			-.2418				
		.600							-.4181
		.650					-.1875		
		.700	-.0825						
		.725				.0000			
		.750						-.4015	-.4640
		.760			.0342				
		.775				-.0391	-.1715		
		.808			.0143				
		.834	.0391						
		.850				-.2495	-.1895	-.2465	
		.857			-.2527				
		.865	.0114						
		.900	-.2477			-.2125			-.3289
		.905			-.2393		-.1543		
		.950				-.1702		-.1413	
		.953			-.2103				
		.965	-.2346						

ALPHA (2) =	BETA (2) =	2Y/B	.299	.364	.427	.534	.641	.780	.887
	.009	X/C							
		.000	-.0802	-.0880	.2996	.6137	.5990	.5173	.4420
		.020			.3533	.4051	.4151	.4098	.4215
		.040		.0138	.2507				
		.050	-.1017			.1615	.1370	.2019	.1949
		.080				.0042			
		.081			.0015				

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ARC11-0141A19 OTS

SRB-OFF HPS-OFF TOP WING

(REUR47)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.129	BETA (2) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.086		.0504					
		.094	-.0823						
		.150				-.1303	-.1188	-.0786	-.0756
		.163		.0990					
		.177			-.1396				
		.229	-.0386						
		.246		-.0471					
		.250				-.2516	-.2398	-.2397	-.2487
		.274			-.2258				
		.362	-.0333						
		.390		-.1948					
		.400				-.3831	-.3671		-.3825
		.402			-.2652				
		.497	-.1368						
		.550				-.3583	-.4237		
		.565			-.2822				
		.600							-.4297
		.650						-.4360	
		.700	-.2047				-.3800		
		.725				.0000			
		.750						-.4330	-.4608
		.760			-.0233				
		.775				-.1531	-.3031		
		.808			-.0320				
		.834	.0471						
		.850				-.2436	-.1986	-.4117	
		.857			-.2189				
		.865	.0277						
		.900	-.2373			-.1977			-.3332
		.905			-.2102		-.1747		
		.950				-.1902		-.2623	
		.953			-.1796				
		.965	-.2235						
ALPHA (2) = -.234	BETA (3) = 4.028	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	.0404	-.0205	.3987	.7290	.7182	.6434	.5792
		.020			.4324	.4670	.4700	.4589	.4717
		.040		.0505	.3072				
		.050	-.0124			.1945	.1611	.2241	.2124
		.080				.0206			
		.081			.0253				
		.086		.0821					
		.094	.0021						
		.150				-.1584	-.1184	-.0761	-.0720

		ARC11-014IA19 OTS	SRB-OFF MPS-OFF TOP WING							(REUR47)	
SECTION (1) TOP WING		DEPENDENT VARIABLE CP									
ALPHA (2) =	-0.234	BETA (3) =	4.028	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
				.163		.1334					
				.177							
				.229							
				.246							
				.250							
				.274							
				.362							
				.390							
				.400							
				.402							
				.497							
				.550							
				.565							
				.600							
				.650							
				.700							
				.725							
				.750							
				.760							
				.775							
				.808							
				.834							
				.850							
				.857							
				.865							
				.900							
				.905							
				.950							
				.953							
				.965							
ALPHA (3) =	3.867	BETA (1) =	.009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
				.000							
				.020							
				.040							
				.050							
				.080							
				.081							
				.086							
				.094							
				.150							
				.163							
				.177							
				.229							

		ARC11-014IA19 OTS	SRB-OFF MPB-OFF TOP WING							(REUR47)
SECTION (1) TOP WING		DEPENDENT VARIABLE CP								
ALPHA (3) = 3.867	BETA (1) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.730	.887	
		.246		-.1199						
		.250				-.3471	-.3619	-.3513	-.3578	
		.274			-.3196					
		.362	-.0542							
		.390		-.2589						
		.400				-.4435	-.4349		-.4639	
		.402			-.3459					
		.497	-.1765							
		.550				-.4394	-.4910			
		.565			-.3474					
		.600							-.4817	
		.650						-.5209		
		.700	-.2717				-.4960			
		.725				.0000				
		.750						-.5151	-.4855	
		.760			-.1545					
		.775				-.2455	-.4692			
		.808			-.1585					
		.834	.0026							
		.850				-.3139	-.2740	-.4724		
		.887			-.2545					
		.865	-.0035							
		.900	-.2511			-.2752			-.4448	
		.905			-.2324		-.2496			
		.950				-.2331		-.3609		
		.953			-.1948					
		.965	-.2431							

ARC11-014IA19 OTS

SRB-NOM MPS-OFF TOP WING

(REUR48) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GINGAL = 1.000

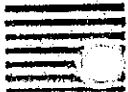
SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.143 BETA (1) = -.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.0990	-.0928	.1848	.4798	.5917	.3660	.2764
.020			.3802	.4658	.4716	.4771	.4932
.040		-.0323	.3087				
.050	-.1068			.2559	.2244	.3150	.3294
.080				.0879			
.081			.0519				
.086		.0512					
.094	-.0935						
.150				-.0025	.0145	.0264	.0284
.163		.1449					
.177			-.0731				
.229	-.0152						
.246		.0101					
.250				-.1690	-.1492	-.1356	-.1474
.274			-.1462				
.362	-.0414						
.390		-.1290					
.400				-.2636	-.2840		-.3084
.402			-.2034				
.497	-.0966						
.550				-.2899	-.3250		
.565			-.2152				
.600							-.3586
.650						-.3660	
.700	-.0358				-.1646		
.725				.0000			
.750						-.3525	-.4197
.760			.0611				
.775			-.0142	-.1385			
.808			.0435				
.834	.0702						
.850				-.1864	-.1388	-.2771	
.857			-.2106				
.865	.0421						
.900	-.2123			-.1469			-.3054
.905			-.1947		-.1015		
.950				-.1107		-.1049	
.953			-.1589				
.965	-.1903						

		ARC11-0141A19 OTS	SRB-NCM MPS-OFF TOP WING							(REL40)	
SECTION (1) TOP WING		DEPENDENT VARIABLE CP									
ALPHA (2) =	-0.243	BETA (1) =	-4.003	2Y/B	.299	.364	.427	.534	.641	.700	.887
				X/C							
				.000	-.2143	-.1355	.2254	.5100	.4049	.3935	.3005
				.020			.2513	.3492	.3517	.3335	.3444
				.040		-.0551	.1985				
				.060	-.2022			.1408	.1093	.1547	.1555
				.080				-.0098			
				.081			.0064				
				.086		-.0028					
				.094	-.1720						
				.150				-.1099	-.1175	-.0935	-.0963
				.163		.0803					
				.177			-.1265				
				.229	-.0562						
				.246		-.0435					
				.250				-.2399	-.2236	-.2354	-.2500
				.274			-.1932				
				.362	-.0414						
				.390		-.1633					
				.400				-.3114	-.3423		-.3760
				.402			-.2306				
				.497	-.1283						
				.590				-.3199	-.3612		
				.565			-.2389				
				.600							-.4175
				.650						-.4124	
				.700	-.0758				-.1809		
				.725				.0000			
				.750						-.3969	-.4592
				.760			.0341				
				.775				-.0354	-.1693		
				.808			.0149				
				.834	.0384						
				.850				-.2507	-.1864	-.2443	
				.857			-.2542				
				.865	.0111						
				.900	-.2355			-.2127			-.3263
				.905			-.2353		-.1519		
				.950				-.1696		-.1337	
				.953			-.1996				
				.965	-.2132						
ALPHA (2) =	-0.324	BETA (2) =	.009	2Y/B	.299	.364	.427	.534	.641	.700	.887
				X/C							
				.000	-.0656	-.0944	.2952	.6050	.5967	.5047	.4315
				.020			.3518	.4045	.4144	.4111	.4201
				.040		.0143	.2507				
				.050	-.1088			.1646	.1374	.2018	.1975
				.080				.0042			
				.081			.0013				



		ARC11-014IA19 OTS	SRB-NCM MPS-OFF TOP WING							(REUR48)	
SECTION (1) TOP WING		DEPENDENT VARIABLE CF									
ALPHA (2) =	-0.324	BETA (2) =	.009	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.036		.0494					
				.094	-.0869						
				.150			-.1277	-.1172	-.0768	-.0724	
				.163		.0983					
				.177			-.1406				
				.229	-.0421						
				.246		-.0458					
				.253			-.2526	-.2392	-.2403	-.2479	
				.274			-.2266				
				.362	-.0356						
				.390		-.1940					
				.400			-.3608	-.3689		-.3834	
				.402			-.2674				
				.497	-.1378						
				.550			-.3588	-.4239			
				.565			-.2828				
				.600						-.4301	
				.650					-.4364		
				.700	-.2030			-.3790			
				.725			.0000				
				.750					-.4328	-.4596	
				.760			-.0226				
				.775			-.1518	-.3015			
				.808			-.0290				
				.834	.0444						
				.850			-.2453	-.2003	-.4117		
				.857			-.2217				
				.865	.0271						
				.900	-.2340			-.1992		-.3351	
				.905			-.2138	-.1761			
				.950			-.1519		-.2538		
				.953			-.1788				
				.965	-.2179						
ALPHA (2) =	-0.435	BETA (3) =	4.025	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.000	.0434	-.0175	.4001	.7277	.7168	.6403	.5736
				.020			.4369	.4715	.4751	.4657	.4777
				.040		.0553	.3096				
				.050	-.0131			.2007	.1684	.2307	.2218
				.080				.0261			
				.081			.0317				
				.086		.0843					
				.094	.0021						
				.150			-.1485	-.1100	-.0709	-.0657	

ARC11-014IA19 OTS

SRB-NOM MPS-OFF TOP WING

(REUR48)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.435 BETA (3) = 4.025

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.163		.1400					
.177			-.1244				
.229	-.0056						
.246		-.0272					
.250				-.2492	-.2579	-.2330	-.2451
.274			-.2366				
.362	-.0100						
.390		-.1819					
.400				-.3851	-.3710		-.3814
.402			-.2760				
.497	-.1078						
.550				-.3764	-.4376		
.565			-.2940				
.600							-.4281
.650						-.4529	
.700	-.2126				-.4366		
.725				.0000			
.750						-.4394	-.4265
.760			-.0987				
.775				-.2214	-.4258		
.808			-.1082				
.834	.0231						
.850				-.2734	-.2848	-.4091	
.857			-.2082				
.865	.0247						
.900	-.1978			-.2275			-.3479
.905			-.1871		-.2484		
.950				-.1874		-.3135	
.953			-.1325				
.965	-.1764						

ALPHA (3) = 4.032 BETA (1) = -.006

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.0844	-.1911	.2935	.6775	.6462	.6470	.6052
.020			.2824	.3025	.3130	.2753	.2715
.040		-.0579	.1779				
.050	-.0914			.0413	.0136	.0388	.0071
.080				-.1125			
.081			-.0860				
.086		-.0179					
.094	-.0704						
.150				-.2801	-.2297	-.2128	-.2254
.163		.0241					
.177			-.2483				
.229	-.0871						

DATE 01 MAY 75

TABLATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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SECTION 1 (TOP WING)		ARC11-014IA19 OYS	SRB-NOM MPS-OFF TOP WING (REUR48)						
		DEPENDENT VARIABLE CP							
ALPHA (3) = 4.032 BETA (1) = -.006		2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		-.1205					
		.250				-.3527	-.3643	-.3502	-.3584
		.274			-.3187				
		.362	-.0537						
		.390		-.2598					
		.400				-.4450	-.4583		-.4659
		.402			-.3451				
		.497	-.1758						
		.550				-.4436	-.4956		
		.565			-.3454				
		.600							-.4863
		.650						-.5207	
		.700	-.2723				-.4982		
		.725				.0000			
		.750						-.5149	-.4863
		.760			-.1573				
		.775				-.2461	-.4772		
		.808			-.1620				
		.834	.0011						
		.850				-.3170	-.2750	-.4733	
		.857			-.2550				
		.865	-.0081						
		.900	-.2441			-.2768			-.4493
		.905			-.2305		-.2480		
		.950				-.2386		-.3676	
		.953			-.1889				
		.965	-.2367						

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ARC11-014IA19 QTS

SRB-OFF MPS-OFF TOP WING

(REUR49) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.041 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.0333	.0713	.1785	.3541	.3379	.1031	-.0327
.020			.3799	.3446	.3477	.3309	.2928
.040		.1387	.2969				
.050	.0079			.0959	.0691	.1212	.0518
.080				-.0520			
.081			.0392				
.086		.1932					
.094	.0675						
.150				-.1541	-.2304	-.2456	-.3372
.163		.1869					
.177			-.1702				
.229	.0733						
.246		-.1146					
.250				-.2907	-.3446	-.4662	-.5970
.274			-.2326				
.362	.0657						
.390		-.1899					
.400				-.3518	-.3607		-.6792
.402			-.2978				
.497	-.1470						
.550				-.2900	-.3428		
.565				-.1531			
.600							-.4817
.650						-.3678	
.700	-.0369				-.4334		
.725				.0000			
.750						-.3491	-.4376
.760			-.2875				
.775				-.3629	-.4115		
.808			-.3273				
.834	-.2705						
.850				-.3443	-.3695	-.2940	
.857			-.3283				
.865	-.3057						
.900	-.3119			-.3125			-.1586
.905			-.2923		-.3347		
.950				-.2798		-.1259	
.953			-.2686				
.965	-.2606						

		ARC11-014IA19 OTS		SRB-OFF MPS-OFF TOP WING				(RELR49)			
SECTION (1) TOP WING		DEPENDENT VARIABLE CP									
ALPHA (2) =	-.198	BETA (1) =	-4.003	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.000	-.1847	-.0096	.1545	.4075	.3680	.2219	.1129
				.020			.2203	.2094	.2066	.1622	.1264
				.040		.0333	.1632				
				.050	-.0870			-.0474	-.0878	-.0688	-.1378
				.080				-.1935			
				.081			-.0351				
				.086		.0770					
				.094	-.0303						
				.150				-.2434	-.3542	-.3802	-.4980
				.163		.0907					
				.177			-.2367				
				.229	.0197						
				.246		-.1472					
				.250				-.3840	-.4161	-.5799	-.7236
				.274			-.2809				
				.362	.0074						
				.390		-.2336					
				.400				-.4240	-.4707		-.8209
				.402			-.3261				
				.497	-.1972						
				.550				-.3264	-.4191		
				.565			-.2396				
				.600							-.5661
				.650						-.4916	
				.700	-.1173				-.5051		
				.725				.0000			
				.750						-.4449	-.4739
				.760			-.3851				
				.775				-.4488	-.5284		
				.808			-.4239				
				.834	-.3715						
				.850				-.3525	-.3930	-.3343	
				.857			-.3859				
				.865	-.3999						
				.900	-.3444			-.3366			-.2051
				.905			-.3699	-.3785			
				.950				-.3153		-.2043	
				.953			-.3337				
				.965	-.3055						
ALPHA (2) =	-.162	BETA (2) =	.009	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.000	-.1041	.0413	.3378	.4916	.4739	.3927	.3072
				.020			.3306	.2052	.1893	.1512	.1241
				.040		.1163	.2034				
				.050	-.0276			-.1116	-.1623	-.1290	-.1842
				.080				-.2902			
				.081			-.1223				

ARC11-014IA19 OTS

SRB-OFF MPS-OFF TOP WING

(REUR49)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.162	BETA (2) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.086		.1519					
		.094	.0343						
		.153				-.3155	-.4372	-.5273	-.5970
		.163		.1011					
		.177			-.4247				
		.229	.0452						
		.246		-.2364					
		.250				-.5367	-.6192	-.6963	-.8038
		.274			-.4085				
		.362	.0047						
		.390		-.3466					
		.400				-.5991	-.6498		-.9210
		.402			-.4519				
		.497	-.2546						
		.550				-.2867	-.4002		
		.565			-.1860				
		.610							-.6610
		.650						-.3873	
		.700	-.0743				-.4577		
		.725				.0000			
		.750						-.3198	-.4427
		.760			-.2961				
		.775				-.3801	-.4428		
		.808			-.3347				
		.834	-.2789						
		.850				-.3365	-.3560	-.2273	
		.857			-.2965				
		.865	-.3116						
		.900	-.3075			-.3144			-.1953
		.905			-.2698		-.3176		
		.950				-.2770		-.0518	
		.953			-.2465				
		.965	-.2626						

ALPHA (2) = -.285 BETA (3) = 4.022

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.0396	-.0996	.4334	.5984	.5624	.5402	.4665
.020			.3521	.1623	.1220	.0588	.0328
.040		.1597	.1877				
.050	.0053			-.1978	-.2978	-.2497	-.3087
.080				-.4464			
.081			-.2153				
.086		.1720					
.094	.0666						
.150				-.4743	-.5116	-.6065	-.7160

ARC11-014IA19 OTS		SRB-OFF MPS-OFF TOP WING								(REUR49)
SECTION (1) TOP WING		DEPENDENT VARIABLE CP								
ALPHA (2) = -0.285	BETA (3) = 4.022	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.163		.0734						
		.177				-.5024				
		.229	.0648							
		.246		-.2909						
		.250				-.6130	-.7421	-.8402	-.9397	
		.274				-.4541				
		.362	-.0051							
		.390		-.3754						
		.400				-.7307	-.8559		-.8768	
		.402				-.5624				
		.497	-.3722							
		.590				-.2519	-.3401			
		.565				-.1716				
		.600							-.5377	
		.690						-.3823		
		.700	-.0675				-.2474			
		.725				.0000				
		.750						-.2534	-.3785	
		.760				-.1970				
		.775				-.2384	-.2365			
		.808				-.2308				
		.834	-.1821							
		.850				-.2518	-.2731	-.0945		
		.857				-.2554				
		.865	-.2183							
		.900	-.2578						-.2129	
		.905				-.2046	-.1748			
		.950					-.1179	.0380		
		.953				-.1325				
		.965	-.1735							
ALPHA (3) = 3.828	BETA (1) = -.003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.000	-.2466	-.0828	.3535	.5294	.4689	.4773	.4182	
		.020			.2447	.0167	-.0416	-.1592	-.2172	
		.040		.0614	.0770					
		.050	-.1131			-.3263	-.4478	-.4782	-.5779	
		.080				-.5563				
		.081				-.3414				
		.086		.0817						
		.094	-.0281							
		.150				-.5957	-.7296	-.7764	-.8737	
		.163		-.0020						
		.177				-.5822				
		.229	.0016							

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ARC11-0141A19 OTS

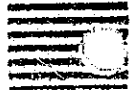
SRB-OFF MPS-OFF TOP WING

(RELR49)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.828	BETA (1) = -.003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		-.3435					
		.290				-.7586	-.8478	-.9474	-1.0508
		.274			-.6134				
		.362	-.0576						
		.390		-.5161					
		.403				-.7924	-.9210		-.9871
		.402			-.5968				
		.497	-.4661						
		.550				-.3580	-.4348		
		.565			-.2554				
		.600							-.6199
		.690						-.5700	
		.700	-.1493				-.3546		
		.725				.0000			
		.790						-.4663	-.5992
		.760			-.3166				
		.775				-.3417	-.3248		
		.808			-.3463				
		.834	-.3090						
		.850				-.3179	-.3208	-.3488	
		.857			-.3265				
		.865	-.3333						
		.900	-.2984			-.2725			-.5235
		.905			-.2912		-.2652		
		.950				-.2323		-.2146	
		.953			-.2485				
		.965	-.2486						



ARC11-014IA19 OTS

SRB-OFF MPS-OFF TOP WING

(REL93) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.017 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2616	-.0231	.4035	-.5522	.5460	.3875	.2863
.020			.4732	-.4265	.4642	.4745	.4693
.040		.0700	.3894				
.050	-.2223			.1822	.2134	.2784	.2514
.080				.0457			
.081			.1431				
.086		.2024					
.094	-.0697						
.150				.0441	-.0432	-.0265	-.0787
.163		.2635					
.177			-.1194				
.229	-.0350						
.246		.0233					
.250				-.1354	-.1472	-.1841	-.2912
.274			-.0408				
.362	.1844						
.390		.0093					
.400				-.1419	-.1352		-.4168
.402			-.0673				
.497	.0296						
.550				.0259	-.0585		
.565		.1107					
.600							-.2673
.690						-.1230	
.700	.2060				-.1105		
.725				.0000			
.750						-.0381	-.2708
.760			.0103				
.775				-.0537	-.1274		
.808			-.0263				
.834	.0211						
.850				-.4639	-.3669	-.2186	
.857			-.4694				
.865	-.0215						
.900	-.4238			-.3956			-.0259
.905			-.4319		-.2714		
.950				-.3292		-.0860	
.953			-.3492				
.965	-.4009						

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ARC11-014IA19 OTS

SRB-OFF MPS-OFF TOP WING

(REUR50)

SECTION (1) TOP WING

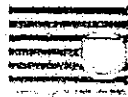
DEPENDENT VARIABLE CP

ALPHA (2) = -.162 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.4269	.0652	.2799	.5824	.5424	.4543	.3861
.020			.2751	.3181	.3344	.3173	.3012
.040		.1144	.2389				
.050	-.2774			.0829	.0647	.1112	.0733
.060				-.0739			
.081			.1133				
.086		.1687					
.094	-.0898						
.150				-.0390	-.1228	-.1739	-.2381
.163		.2154					
.177			-.0553				
.229	.1019						
.246		.0506					
.250				-.1666	-.2163	-.3006	-.3976
.274			-.0687				
.362	.1607						
.390		-.0272					
.400				-.1920	-.2371		-.4938
.402			-.0703				
.497	-.0043						
.550				-.0282	-.1071		
.565		.0455					
.600							-.3351
.650						-.1937	
.700	.1305				-.1637		
.725				.0000			
.750						-.1512	-.3128
.760			-.0777				
.775				-.1231	-.1915		
.808			-.1163				
.834	-.0612						
.850				-.5219	-.4259	-.2931	
.857			-.5074				
.865	-.0966						
.900	-.4454			-.4639			-.1150
.905			-.4706		-.3483		
.950				-.3908		-.1620	
.953			-.3587				
.965	-.4051						

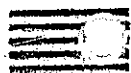
ALPHA (2) = -.141 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2594	-.0802	.5069	.6700	.6272	.6109	.5601
.020			.4502	.3350	.3057	.2912	.2858
.040		.1580	.3375				
.050	-.2118			.0555	-.0212	.0475	.0187
.080				-.1398			
.081			.0163				



		ARC11-014IA19 OTS	SRB-OFF MPS-OFF TOP WING							(RELUS)	
SECTION (1) TOP WING		DEPENDENT VARIABLE CP									
ALPHA (2) =	-.141	BETA (2) =	.012	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.086		.2294					
				.094	-.1566						
				.150			-.1734	-.1939	-.2396	-.3183	
				.163		.2277					
				.177			-.1992				
				.229	-.0348						
				.246		-.0298					
				.250			-.3331	-.3831	-.4298	-.5071	
				.274			-.2193				
				.362	.1589						
				.390		-.1745					
				.400			-.3934	-.4413		-.6136	
				.402			-.2330				
				.497	-.1445						
				.550			-.0086	-.0909			
				.565			.0759				
				.600						-.5994	
				.650					-.0825		
				.700	.1552			-.1089			
				.725			.0000				
				.750					-.0411	-.2431	
				.760			.0047				
				.775			-.0578	-.1233			
				.808			-.0330				
				.834	.0292						
				.850			-.4455	-.3300	-.1485		
				.857			-.4560				
				.865	-.0135						
				.900	-.4092			-.3701		-.0774	
				.905			-.4308	-.2477			
				.950			-.3015		-.0235		
				.953			-.3507				
				.965	-.3930						
ALPHA (2) =	-.234	BETA (3) =	4.025	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.000	-.1133	.1252	.5865	.7561	.7135	.7070	.6625
				.020			.4893	.3247	.3005	.2334	.2065
				.040		.2495	.3341				
				.050	-.0592			.0089	-.0675	-.0569	-.1133
				.080				-.1932			
				.081			-.0981				
				.086		.2845					
				.094	-.0038						
				.150			-.3474	-.3612	-.3514	-.4140	

		ARC11-014IA19 OTS		SRB-OFF MPS-OFF TOP WING						(REUR50)	
SECTION (1) TOP WING		DEPENDENT VARIABLE CP									
ALPHA (2) =	- .234	BETA (3) =	4.025	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.163		.2293					
				.177							
				.229	.1095						
				.246		-.0569					
				.250				-.4626	-.4544	-.5481	-.5966
				.274							
				.362	.1718						
				.390		-.2529					
				.400				-.5421	-.6419		-.7078
				.402				-.4130			
				.497	-.1813						
				.550				-.1189	-.3736		
				.565				-.2248			
				.600							-.6672
				.650						-.5906	
				.700	.0900				-.1775		
				.725				.0000			
				.750						-.5205	-.5948
				.760				.0422			
				.775				-.0339	-.1298		
				.800				.0332			
				.834	.0772						
				.850				-.4016	-.2436	-.2221	
				.857				-.4287			
				.865	.0347						
				.900	-.3868			-.2854			-.4319
				.905				-.3957	-.1303		
				.950				-.1951		-.0463	
				.953				-.2685			
				.965	-.3832						
ALPHA (3) =	3.879	BETA (1) =	.000	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.000	-.2279	-.1210	.4771	.6715	.6107	.6310	.5832
				.020			.3833	.1920	.1518	.0507	-.0188
				.040		.1685	.2319				
				.050	-.1832			-.0860	-.1878	-.2208	-.3143
				.080				-.2708			
				.081				-.1847			
				.086		.2192					
				.094	-.1230						
				.150				-.4342	-.4450	-.4626	-.5456
				.163		.1756					
				.177				-.3200			
				.229	.1411						



		ARC11-0141A19 OTS	SRB-OFF MPS-OFF TOP WING							(REL51)
SECTION (1) TOP WING		DEPENDENT VARIABLE CP								
ALPHA (3) = 3.879	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.246		-.1083						
		.250				-.4926	-.5642	-.6332	-.6900	
		.274			-.3594					
		.362	.1546							
		.390		-.2627						
		.400				-.5430	-.6672		-.7801	
		.402			-.4271					
		.497	-.1834							
		.550				-.1750	-.3510			
		.565		-.0810						
		.600							-.7749	
		.650						-.6708		
		.700	.0369				-.2509			
		.725				.0000				
		.750						-.5710	-.7303	
		.760		-.0409						
		.775			-.1068	-.2096				
		.808		-.0783						
		.834	-.0163							
		.850				-.4510	-.3065	-.2194		
		.857		-.4760						
		.865	-.0410							
		.900	-.4659			-.3750			-.6731	
		.905		-.4609		-.2114				
		.950			-.3010		-.0904			
		.953		-.3915						
		.965	-.4563							

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - TA19 (ARC 11-014)

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ARC11-014TA19 OTS

SRB-OFF MFS-OFF TOP WING

(REUR51) (18 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 975.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

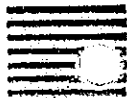
SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.008	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.1560	-.0247	.1915	.3127	.5051	.3528	.2438
		.020			.3841	.4572	.4512	.4613	.4610
		.040		.0251	.3254				
		.057	-.1754			.2290	.1936	.2780	.2740
		.080				.0540			
		.081			.1117				
		.086		.0708					
		.094	-.1154			-.0026	-.0284	-.0379	-.0519
		.150							
		.163		.1412					
		.177			-.0832				
		.229	-.0326						
		.246		-.0040		-.2064	-.2090	-.2124	-.2437
		.250							
		.274			-.1435				
		.362	.0027						
		.390		-.1325		-.3203	-.3359		-.4146
		.400							
		.402			-.2207				
		.497	-.1017			-.0619	-.3055		
		.550							
		.565			.0460				-.4510
		.600						-.4033	
		.690					-.0405		
		.700	.1343			.0000		-.2164	-.4359
		.725							
		.750							
		.760			.0846				
		.775				.0542	-.0264		
		.808			.0572				
		.834	.0692			-.2956	-.1960	-.1715	
		.850							
		.857			-.3025				
		.865	.0398						-.2142
		.900	-.2949			-.2589			
		.905			-.2810		-.1436		
		.950				-.2100		-.0640	
		.953			-.2363				
		.965	-.2729						

		ARC11-014IA19 OTS	SRB-OFF MPS-OFF TOP WING							(REUR51)	
SECTION (1) TOP WING		DEPENDENT VARIABLE CP									
ALPHA (2) =	-0.138	BETA (1) =	-4.003	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.000	-.2951	-.1239	.2343	.5275	.4681	.3545	.2454
				.020			.2432	.3183	.3058	.2877	.3042
				.040		-.0498	.1913				
				.050	-.2531			.1021	.0467	.0981	.1124
				.080				-.0637			
				.081			.0215				
				.086		.0098					
				.094	-.1975						
				.150				-.0983	-.1154	-.1452	-.1907
				.163		.0907					
				.177			-.1549				
				.229	-.0676						
				.246		-.0479					
				.250				-.2727	-.2886	-.3118	-.3440
				.274			-.1969				
				.362	-.0135						
				.390		-.1746					
				.400				-.3681	-.3985		-.4880
				.402			-.2736				
				.497	-.1294						
				.550				-.1275	-.3408		
				.565			-.0182				
				.600							-.5158
				.650						-.4234	
				.700	.0625				-.1111		
				.725				.0000			
				.750						-.2720	-.4325
				.760			.0024				
				.775				-.0137	-.0937		
				.808			-.0230				
				.834	.0014						
				.850				-.3465	-.2484	-.2187	
				.857			-.3435				
				.865	-.0278						
				.900	-.3196			-.3155			-.2409
				.905			-.3281		-.2042		
				.950				-.2718		-.1269	
				.953			-.2825				
				.965	-.2963						
ALPHA (2) =	-0.225	BETA (2) =	.009	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.000	-.1432	-.0727	.3355	.6226	.5885	.4963	.4120
				.020			.3755	.3733	.3532	.3379	.3464
				.040		-.0705	.2551				
				.050	-.1636			.1204	.0594	.1094	.1140
				.080				-.0625			
				.081			-.0693				

SECTION (1) TOP WING		ARC11-014IA19 OTS								SRB-OFF NPS-OFF TOP WING		(REUR51)
		DEPENDENT VARIABLE CP										
ALPHA (2) =	-0.225	BETA (2) =	0.009	2Y/B	.299	.364	.427	.534	.641	.780	.887	
				X/C								
				.086		.0305						
				.094	-.1026							
				.151				-.1951	-.2064	-.1662	-.1829	
				.163		.0848						
				.177			-.2021					
				.229	-.0656							
				.246		-.0799						
				.253				-.3205	-.3046	-.3427	-.3662	
				.274			-.2680					
				.362	-.0481							
				.390		-.2110						
				.400				-.4018	-.4561		-.4981	
				.402			-.3080					
				.497	-.1513							
				.557				-.3980	-.4714			
				.565			-.2680					
				.630							-.5206	
				.650						-.5497		
				.700	-.0715				-.2265			
				.725				.0000				
				.750						-.5346	-.5299	
				.760			.0387					
				.775				-.0540	-.2229			
				.808			.0162					
				.834	.0556							
				.850				-.2960	-.2479	-.3426		
				.857			-.3141					
				.865	.0246							
				.900	-.3090			-.2609			-.3176	
				.905			-.2999		-.1813			
				.950				-.2106		-.1856		
				.953			-.2603					
				.965	-.2997							
ALPHA (2) =	-0.252	BETA (3) =	4.022	2Y/B	.299	.364	.427	.534	.641	.780	.887	
				X/C								
				.020	-.0295	.0132	.3879	.7409	.6970	.6678	.6557	
				.020			.4269	.4200	.4008	.3903	.3812	
				.040		.0489	.3034					
				.050	-.0759			.1448	.0730	.1331	.0960	
				.080				-.0516				
				.081			-.0536					
				.086		.0807						
				.094	-.0186							
				.150				-.2334	-.2191	-.1736	-.2023	



ARC11-014IA19 OTS SRB-OFF MPS-OFF TOP WING (REUR51)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.252 BETA (3) = 4.022

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.163		.1300					
.177			-.2080				
.229	-.0421						
.246		-.0628					
.251				-.3493	-.3636	-.5622	-.3869
.274			-.3162				
.362	-.0070						
.390		-.2348					
.400				-.4839	-.4857		-.5105
.402			-.3674				
.497	-.1426			-.4667	-.5591		
.550				-.3824			
.565							-.5393
.600						-.5713	
.650							
.700	-.2771				-.4159		
.725				.0000			
.750						-.5494	-.5986
.760			-.0282				
.775				-.2027	-.3419		
.808			-.0260				
.834	.0875						
.850				-.2935	-.2567	-.3853	
.857			-.2666				
.865	.0648						
.900	-.2701			-.2255			-.4004
.905			-.2480		-.2207		
.950				-.1535		-.3138	
.953			-.1949				
.965	-.2580						

ALPHA (3) = 3.864 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1488	-.2266	.3459	.6478	.5997	.6589	.6472
.020			.3144	.2057	.211	.1740	.1320
.040		-.0753	.1597				
.050	-.1380			-.0662	-.1100	-.0750	-.1458
.080				-.2306			
.081			-.1511				
.086		-.0351					
.094	-.1182						
.150				-.3686	-.3405	-.3198	-.3701
.163		.0235					
.177			-.3066				
.229	-.1039						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS

SRB-OFF MPS-OFF TOP WING

(REUR52) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -3.990	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.867
		.000	-.0996	-.0873	.1916	.4874	.5095	.3662	.2791
		.020			.3867	.4735	.4767	.4818	.4971
		.040		-.0290	.3132				
		.050	-.1059			.2614	.2291	.3149	.3344
		.060				.0932			
		.080			.0548				
		.086		.0539					
		.094	-.0917						
		.150				.0001	.0192	.0334	.0336
		.163		.1448					
		.177			-.0713				
		.229	-.0113						
		.246		.0126					
		.250				-.1665	-.1475	-.3328	-.1411
		.274			-.1414				
		.362	-.0407						
		.390		-.1282					
		.400				-.2607	-.2825		-.3156
		.402			-.2011				
		.497	-.0932						
		.550				-.2878	-.3225		
		.565			-.2131				
		.600							-.3493
		.650						-.3622	
		.700	.0002				-.1619		
		.725				.0000			
		.750						-.3476	-.4762
		.760			.0630				
		.775				-.0108	-.1373		
		.808			.0468				
		.834	.0694						
		.850				-.1905	-.1506	-.2800	
		.857			-.2079				
		.865	.0400						
		.900	-.2199			-.1475			-.2749
		.905			-.1945		-.1069		
		.950				-.1112		-.2136	
		.953			-.1636				
		.965	-.1993						

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 OF POOR QUALITY

		ARC11-014IA19 OTS	SRB-OFF MPS-OFF TOP WING							(REUR52)	
SECTION (1) TOP WING		DEPENDENT VARIABLE CP									
ALPHA (2) =	-0.195	BETA (1) =	-4.003	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.000	-.2129	-.1430	.2224	.5138	.4871	.3874	.3072
				.020			.2485	.3449	.3478	.3296	.3366
				.040		-.0588	.1943				
				.060	-.2019			-.1352	.1042	.1481	.1468
				.080				-.0173			
				.081				-.0030			
				.086		-.0056					
				.094	-.1724						
				.150				-.1204	-.1267	-.0967	-.1042
				.163		.0745					
				.177				-.1336			
				.229	-.0601						
				.246		-.0936					
				.250				-.2448	-.2304	-.2483	-.2599
				.274				-.1964			
				.362	-.0456						
				.390		-.1701					
				.400				-.3200	-.3511		-.3853
				.402				-.2351			
				.497	-.1325						
				.550				-.3258	-.3674		
				.565				-.2412			
				.600							-.4205
				.650						-.4173	
				.700	-.0774				-.1874		
				.725				.0000			
				.750						-.4035	-.5027
				.760				.0307			
				.775				-.0374	-.1772		
				.808				.0106			
				.834	.0353						
				.850				-.2569	-.2054	-.3037	
				.857				-.2558			
				.865	.0074						
				.900	-.2499			-.2188			-.2942
				.905				-.2429	-.1550		
				.920				-.1791		-.2555	
				.953				-.2143			
				.965	-.2382						
ALPHA (2) =	-0.198	BETA (2) =	.009	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.000	-.0659	-.0925	.3017	.6128	.6018	.5119	.4400
				.020			.3553	.4022	.4122	.4079	.4170
				.040		.0163	.2494				
				.050	-.1064			.1608	.1372	.1992	.1909
				.060				.0936			
				.081				-.0013			

SECTION (1) TOP WING		DEPENDENT VARIABLE CP							
ALPHA (2) = -.198 BETA (2) = .009		2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.086		.0480					
		.094	-.0841						
		.150				-.1330	-.1181	-.0767	-.0773
		.163		.0958					
		.177			-.1441				
		.229	-.0416						
		.246		-.0487					
		.250				-.2529	-.2432	-.2427	-.2484
		.274			-.2288				
		.362	-.0361						
		.390		-.1969					
		.400				-.3631	-.3715		-.3852
		.402			-.2683				
		.497	-.1373						
		.550				-.3806	-.4244		
		.565			-.2855				-.4302
		.600							
		.650						-.4355	
		.700	-.2076				-.3773		
		.725				.0000			
		.750						-.4340	-.4974
		.760			-.0271				
		.775				-.1544	-.3062		
		.808			-.0325				
		.834	.0468						
		.850				-.2540	-.2113	-.3529	
		.857			-.2194				
		.865	.0291						
		.900	-.2384			-.2014			-.3663
		.905			-.2120		-.1883		
		.950				-.1521		-.2748	
		.953			-.1833				
		.965	-.2272						
ALPHA (2) = -.186 BETA (3) = 4.022		2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.000	.0389	-.0228	.4016	.7290	.7150	.6427	.5824
		.020			.4326	.4656	.4683	.4502	.4716
		.040		.0528	.3095				
		.050	-.0146			.1938	.1613	.2239	.2118
		.080				.0185			
		.081			.0252				
		.086		.0852					
		.094	.0001						
		.150				-.1579	-.1163	-.0744	-.0754

ARC11-014IA19 OTS

SRB-OFF MFG-OFF TOP WING

(REUR52)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -0.186	BETA (3) = 4.022	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.163		.1342					
		.177			-.1308				
		.229	-.0110						
		.246		-.0349					
		.291				-.2569	-.2643	-.2410	-.2519
		.274			-.2432				
		.362	-.0119						
		.390		-.1890					
		.400				-.3921	-.3760		-.3879
		.402			-.2831				
		.497	-.1094						
		.591				-.3907	-.4423		
		.565			-.2995				
		.600							-.4355
		.690						-.4555	
		.700	-.2193				-.4411		
		.725				.0000			
		.750						-.4449	-.4569
		.760			-.1062				
		.775				-.2339	-.4287		
		.808			-.1162				
		.834	.0185						
		.850				-.2843	-.2828	-.4668	
		.857			-.2138				
		.865	.0210						
		.900	-.2031			-.2330			-.4121
		.905			-.1900		-.2595		
		.950				-.1878		-.2992	
		.953			-.1385				
		.965	-.1880						
ALPHA (3) = 3.960	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.0863	-.1855	.2949	.6912	.6477	.6461	.6069
		.020			.2848	.3059	.3164	.2809	.2776
		.040		-.0536	.1817				
		.050	-.0930			.0447	.0149	.0461	.0116
		.080				-.1104			
		.081			-.0855				
		.086		-.0151					
		.094	-.0687						
		.150				-.2769	-.2276	-.2038	-.2224
		.163		.0263					
		.177			-.2472				
		.229	-.0811						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 QTS

SRB-OFF MPS-OFF TOP WING

(REUR52)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.960 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		-.1188					
.250				-.3485	-.3634	-.3492	-.3549
.274			-.3205				
.362	-.0536						
.390		-.2590					
.400				-.4438	-.4565		-.4643
.402			-.3458				
.497	-.1753						
.550				-.4382	-.4909		
.565			-.3465				
.600							-.4844
.650						-.5164	
.700	-.2705				-.4967		
.725				.0000			
.750						-.5098	-.4925
.760							
.775				-.2468	-.4727		
.808			-.1607				
.834	.0042						
.850				-.3204	-.2729	-.4118	
.857			-.2561				
.865	-.0045						
.900	-.2501			-.2812			-.4933
.905			-.2320		-.2541		
.950				-.2390		-.3434	
.953			-.1939				
.965	-.2457						

ARC11-014IA19 OTS

SRB-NOM MPE OFF TOP WING

(REUR53) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BRP = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.179	BETA (1) = -.003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.0291	.0589	.1641	.3358	.3241	.0822	-.0566
		.020			.3677	.3387	.3450	.3261	.2870
		.040		.1298	.2858				
		.060	.0078			.0890	.0644	.1190	.0499
		.080				-.0626			
		.081			.0281				
		.086		.1834					
		.094	.0631						
		.150				-.1448	-.2299	-.2461	-.3427
		.163		.1745					
		.177			-.1852				
		.229	.0731						
		.246		-.1210					
		.250				-.2893	-.3485	-.4732	-.6098
		.274			-.2428				
		.362	.0635						
		.390		-.2003					
		.400				-.3567	-.3710		-.6565
		.402			-.3056				
		.497	-.1533						
		.590				-.2514	-.3519		
		.565			-.1653				
		.600							-.4735
		.650						-.3870	
		.700	-.0463				-.4441		
		.725				.0000			
		.750						-.3636	-.4293
		.760			-.3003				
		.775				-.3720	-.4327		
		.808			-.3425				
		.834	-.2824						
		.850				-.3576	-.4087	-.3282	
		.857			-.3596				
		.865	-.3171						
		.900	-.3253			-.3269			-.1258
		.905			-.3241		-.3617		
		.950				-.2939		-.1640	
		.953			-.2896				
		.965	-.2835						

ARC11-0141A19 QTS SRB-NOM MPS-OFF TOP WING (REUR53)

SECTION (1) TOP WING		DEPENDENT VARIABLE CP							
ALPHA (2) = -.339	BETA (1) = -3.997	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.1914	-.0109	.1476	.3993	.3598	.2108	.0946
		.020			.2200	.2092	.1999	.1681	.1320
		.040		.0309	.1666				
		.050	-.0870			-.0459	-.0794	-.0642	-.1323
		.080				-.1864			
		.081			-.0344				
		.086		.0750					
		.094	-.0317						
		.150				-.2466	-.3545	-.3780	-.4883
		.163		.0865					
		.177			-.2354				
		.229	.0188						
		.246		-.1507					
		.250				-.3789	-.4200	-.5805	-.7230
		.274			-.2836				
		.362	.0045						
		.390		-.2385					
		.400				-.4280	-.4719		-.8294
		.402			-.3322				
		.497	-.1989						
		.550				-.3322	-.4230		
		.565			-.2337				
		.600							-.5700
		.650						-.4938	
		.700	-.1228				-.5147		
		.725				.0000			
		.750						-.4465	-.4890
		.760			-.3900				
		.775				-.4547	-.5363		
		.808			-.4292				
		.834	-.3779						
		.850				-.3666	-.4065	-.3417	
		.857			-.3930				
		.865	-.4056						
		.900	-.3545			-.3525			-.2227
		.905			-.3811		-.3802		
		.950				-.3251		-.2202	
		.953			-.3420				
		.965	-.3216						
ALPHA (2) = -.360	BETA (2) = .012	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.1036	.0444	.3342	.4837	.4714	.3882	.2944
		.020			.3330	.2088	.1962	.1513	.1202
		.040		.1198	.2092				
		.050	-.0284			-.1107	-.1569	-.1184	-.1859
		.080				-.2938			
		.081			-.1192				

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ARC11-014IA19 OTS

SRB-NOM MPS-OFF TOP WING

(REUR53)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) =	BETA (2) =	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
	.012	.086		.1554					
		.094	.0344						
		.150				-.3171	-.4328	-.4877	-.5933
		.163		.1060					
		.177			-.4142				
		.229	.0434						
		.246		-.2301					
		.250				-.5293	-.5924	-.6843	-.8058
		.274			-.3972				
		.362	.0040						
		.390		-.3321					
		.400				-.5944	-.6414		-.9183
		.402			-.4471				
		.497	-.2541						
		.590				-.2916	-.4005		
		.565			-.1878				
		.600							-.6547
		.650						-.3849	
		.700	-.0750				-.4574		
		.725				.0000			
		.750						-.3343	-.4422
		.760			-.3000				
		.775				-.3832	-.4385		
		.808			-.3407				
		.834	-.2814						
		.890				-.3368	-.3483	-.2435	
		.857			-.3092				
		.865	-.3145						
		.900	-.3001			-.3156			-.2015
		.905			-.2910		-.2958		
		.950				-.2757		-.0885	
		.953			-.2583				
		.965	-.2517						

ALPHA (2) =	BETA (3) =	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
	4.022	.000	-.0334	.0981	.4296	.5941	.5643	.5353	.4589
		.020			.3545	.1675	.1304	.0681	.0390
		.040		.1612	.1925				
		.090	.0028			-.1947	-.2935	-.2483	-.2983
		.080				-.4461			
		.081			-.2070				
		.086			.1742				
		.094	.0648						
		.150				-.4729	-.5063	-.6025	-.7133

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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		ARC11-014IA19 QTS	SRB-NOM MPS-OFF TOP WING							(REUR53)	
SECTION (1) TOP WING		DEPENDENT VARIABLE CP									
ALPHA (2) =	- .411	BETA (3) =	4.022	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.163		.0758					
				.177			-.4994				
				.229	.0630						
				.246		-.2921					
				.250				-.6101	-.7357	-.8281	-.9411
				.274			-.4400				
				.362	-.0083						
				.390		-.3755					
				.400				-.7303	-.8580		-.8894
				.402			-.5625				
				.497	-.3640						
				.550				-.2578	-.3620		
				.565			-.1705				
				.600							-.5415
				.650						-.3631	
				.700	-.0699				-.2495		
				.725				.0000			
				.750						-.2481	-.3942
				.760			-.2062				
				.775				-.2435	-.2397		
				.808			-.2442				
				.834	-.1921						
				.850				-.2713	-.2800	-.0949	
				.857			-.2664				
				.865	-.2323						
				.900	-.2649			-.2065			-.2402
				.905			-.2219		-.1742		
				.920				-.1376		.0253	
				.953			-.1560				
				.965	-.1830						
ALPHA (3) =	3.936	BETA (1) =	-.006	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.000	-.2574	-.0854	.3548	.5287	.4643	.4746	.4179
				.020			.2414	.0126	-.0492	-.1629	-.2282
				.040		.0594	.0721				
				.050	-.0985			-.3311	-.4562	-.4906	-.5887
				.080				-.5582			
				.081			-.3420				
				.086		.0830					
				.094	-.0228						
				.150				-.6106	-.7318	-.7731	-.8770
				.163		-.0015					
				.177			-.5809				
				.229	.0019						

ARC11-014TA19 OTS

SRB-NOM MPS-OFF TOP WING

(RELR53)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.936	BETA (1) = -.006	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		-.5475					
		.250				-.7739	-.8461	-.9488	-1.0530
		.274			-.6133				
		.362	-.0631						
		.390		-.5175					
		.400				-.8229	-.9170		-.9931
		.402			-.6107				
		.497	-.4746						
		.590				-.3557	-.4301		
		.565			-.2575				
		.600							-.6276
		.690						-.5634	
		.700	-.1440				-.3440		
		.725				.0000			
		.790						-.4583	-.6094
		.760			-.3166				
		.775				-.3428	-.3176		
		.808			-.3408				
		.834	-.3047						
		.890				-.3223	-.3106	-.3073	
		.857			-.3046				
		.865	-.3290						
		.900	-.2924			-.2717			-.5238
		.905			-.2686		-.2535		
		.990				-.2254		-.1725	
		.953			-.2309				
		.965	-.2341						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

PAGE 403

ARC11-014IA19 OTS

SRB-NOM MPS-OFF TOP WING

(REUR54) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.149	BETA (1) = .000	2Y/B Y/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.2592	-.0232	-.4041	.5516	.5411	.3717	.2663
		.020			.4748	.4348	.4683	.4774	.4709
		.040		.0967	.3959				
		.060	-.2137			.2017	.2143	.2799	.2516
		.080				.0538			
		.081			.1552				
		.086		.2206					
		.094	-.0559						
		.120				.0394	-.0450	-.0220	-.0729
		.163		.2714					
		.177			-.1049				
		.229	-.0041						
		.246		.0288					
		.250				-.1400	-.1333	-.1834	-.2915
		.274			-.0586				
		.362	.2005						
		.390		-.0067					
		.400				-.1411	-.1381		-.4211
		.402			-.0688				
		.497	.0472						
		.550				.0231	-.0633		
		.565			.1079				
		.610							-.2705
		.620						-.1250	
		.700	.2049				-.1151		
		.725				.0000			
		.750						-.0909	-.2794
		.760			.0069				
		.775				-.0585	-.1324		
		.808			-.0309				
		.834	.0141						
		.850				-.4706	-.3721	-.2225	
		.857			-.4739				
		.865	-.0262						
		.900	-.4159			-.4032			-.0339
		.905			-.4328		-.2779		
		.920				-.3308		-.0923	
		.953			-.3397				
		.955	-.3902						

ARC11-0141A19 OTS

SRB-NOM MPS-OFF TOP WING

(REUR54)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.315 BETA (1) = -4.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.897
.000	-.4243	.0611	.2847	.5821	.5378	.4510	.3742
.020			.2789	.3356	.3352	.3276	.3104
.040		.1161	.2452				
.050	-.2750			.0962	.0724	.1200	.0885
.080				-.0424			
.081			.1239				
.086		.1703					
.094	-.0933						
.150				-.0335	-.1165	-.1598	-.2249
.163		.2201					
.177			-.0190				
.229	.0989						
.246		.0496					
.250				-.1525	-.2021	-.2839	-.3831
.274			-.0607				
.362	.1634						
.390		-.0205					
.400				-.1886	-.2258		-.4862
.402			-.0585				
.497	.0033						
.550				-.0254	-.1052		
.565			.0522				
.600							-.3103
.650						-.1936	
.700	.1338				-.1588		
.725				.0000			
.750						-.1532	-.3156
.760			-.0715				
.775				-.1206	-.1878		
.808			-.1084				
.834	-.0576						
.850				-.5194	-.4203	-.2916	
.857			-.4957				
.865	-.0930						
.900	-.4288			-.4559			-.1126
.905			-.4530		-.3442		
.950				-.3556		-.1658	
.953			-.3264				
.965	-.3805						

ALPHA (2) = -.327 BETA (2) = .006

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2638	-.0867	.5054	.6624	.6211	.6030	.5486
.020			.4579	.3347	.3044	.2965	.2834
.040		.1444	.3373				
.050	-.2138			.0573	-.0297	.0572	.0264
.080				-.1376			
.081			.0280				

ARC11-0141A19 OTS SRB-NOM MPS-OFF TOP WING (REUR54)

SECTION (1) TOP WING DEPENDENT VARIABLE CP

ALPHA (2) = -.327 BETA (2) = .006

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.086		.2260					
.094	-.1600						
.151				-.1499	-.1931	-.2404	-.3213
.163		.2224					
.177			-.1890				
.229	-.0206						
.246		-.0310					
.250				-.3217	-.3801	-.4256	-.5077
.274			-.2104				
.362	.1706						
.390		-.1703					
.400				-.3681	-.4380		-.6096
.402			-.2199				
.497	-.1281						
.550				-.0115	-.0940		
.565			.0742				
.600							-.5907
.690						-.1422	
.700	.1540				-.1131		
.725				.0000			
.750						-.0823	-.2393
.760			.0042				
.775				-.0636	-.1294		
.800			-.0330				
.830	.0232						
.850				-.4508	-.3363	-.1576	
.857			-.4520				
.865	-.0195						
.900	-.4029			-.3761			-.0685
.905			-.4234		-.2552		
.950				-.3010		-.0314	
.953			-.3343				
.965	-.3781						

ALPHA (2) = -.288 BETA (3) = 4.016

2Y/B X/C	.299	.364	.427	.534	.641	.790	.887
.000	-.1150	.1195	.5928	.7556	.7146	.7054	.6611
.020			.4813	.3329	.3033	.2404	.2150
.040		.2454	.3283				
.050	-.0635			.0226	-.0604	-.0483	-.1000
.080				-.1797			
.081			-.0962				
.086		.2871					
.094	-.0073						
.151				-.3385	-.3539	-.3382	-.4043

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ARC11-014IA19 OTS

SRB-NOM MFS-OFF TOP WING

(REL 54)

SECTION (1) TOP WING

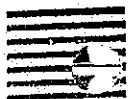
DEPENDENT VARIABLE CP

ALPHA (2) = -.288 BETA (3) = 4.016

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.163		.2317					
.177			-.2649				
.229	.0964						
.246		-.0530					
.257				-.4568	-.4445	-.5386	-.5857
.274			-.3279				
.362	.1679						
.390		-.2488					
.400				-.5344	-.6351		-.6954
.402			-.4004				
.497	-.1741						
.550				-.1173	-.3626		
.565			-.0164				
.670							-.6644
.680						-.5670	
.700	.0915				-.1840		
.725				.0000			
.750						-.4970	-.5832
.760			.0473				
.775				-.0253	-.1291		
.808			.0080				
.834	.0795						
.857				-.3990	-.2409	-.1792	
.857			-.4222				
.865	.0368						
.900	-.3741			-.2816			-.4169
.905			-.3849		-.1313		
.950				-.1900		-.0592	
.953			-.2499				
.965	-.3643						

ALPHA (3) = 3.915 BETA (1) = -.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2213	-.1377	.4764	.6720	.6122	.6357	.5865
.020			.3854	.2029	.1514	.0444	-.0096
.040		.1644	.2378				
.050	-.1887			-.0756	-.1899	-.2219	-.3077
.080				-.2558			
.081			-.1728				
.086		.2176					
.094	-.1245						
.150				-.4305	-.4433	-.4643	-.5399
.163		.1779					
.177			-.3051				
.229	.1380						



DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 QTS

SRB-NOM MPS-OFF TOP WING

(REUR54)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.915 BETA (1) = -.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.867
.246		-.1018					
.250				-.4920	-.5678	-.6311	-.6833
.274			-.3468				
.362	.1546						
.390		-.2585					
.400				-.5388	-.6646		-.7749
.402			-.4096				
.497	-.1809						
.550				-.1710	-.3568		
.565			-.0708				
.600							-.7665
.650						-.6596	
.700	.0392				-.2325		
.725				.0000			
.750						-.5663	-.7330
.760			-.0294				
.775				-.1082	-.2126		
.808			-.0688				
.834	-.0135						
.850				-.4484	-.3002	-.2280	
.857			-.4583				
.865	-.0352						
.900	-.4517			-.3666		-.6616	
.905			-.4416		-.2085		
.950				-.2926		-.1091	
.953			-.3686				
.965	-.4338						

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ARC11-014IA19 OTS

SRB-NOM MPS-OFF TOP WING

(REUR55) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.250
 GINGAL = 1.000

SECTION (1) TOP WING

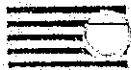
DEPENDENT VARIABLE CP

ALPHA (1) = -3.981	BETA (1) = .000	2Y/B Y/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.1575	-.0395	.1785	.4975	.4913	.3441	.2356
		.020			.3709	.4456	.4403	.4500	.4465
		.040		.0160	.3052				
		.060	-.1788			.2126	.1782	.2713	.2650
		.080				.0364			
		.081			.0914				
		.086		.0610					
		.094	-.1164						
		.150				-.0039	-.0366	-.0401	-.0545
		.163		.1296					
		.177			-.1014				
		.229	-.0368						
		.246		-.0146					
		.250				-.2065	-.2197	-.2185	-.2518
		.274			-.1611				
		.362	-.0028						
		.390		-.1452					
		.400				-.3247	-.3463		-.4207
		.402			-.2364				
		.497	-.1051						
		.550				-.0700	-.3135		
		.565			.0343				
		.600							-.4546
		.650						-.4232	
		.700	.1261				-.0505		
		.725				.0000			
		.750						-.2260	-.4418
		.760			.0723				
		.775				.0487	-.0358		
		.808			.0458				
		.834	.0615						
		.850				-.3023	-.2020	-.1810	
		.857			-.3143				
		.865	.0321						
		.900	-.2920			-.2660			-.2193
		.905			-.2906		-.1524		
		.950				-.2165		-.0717	
		.955			-.2409				
		.965	-.2690						

SECTION (1) TOP WING		ARC11-014IA19 QTS SRB-NOM MPS-OFF TOP WING (REUR55)									
DEPENDENT VARIABLE CP											
ALPHA (2) =	-0.369	BETA (1) =	-4.000	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.000	-.2967	-.1222	.2332	.5230	.4649	.3490	.2421
				.020			.2473	.3206	.3074	.2888	.3044
				.040		-.0482	.1922				
				.050	-.2540			.1017	.0973	.1066	.1170
				.080				-.0610			
				.081			.0290				
				.086		.0085					
				.094	-.1961						
				.150				-.0955	-.1117	-.1438	-.1810
				.163		.0909					
				.177			-.1499				
				.229	-.0684						
				.246		-.0478					
				.250				-.2702	-.2893	-.3137	-.3446
				.274			-.1972				
				.362	-.0100						
				.390		-.1735					
				.400				-.3673	-.3975		-.4887
				.402			-.2726				
				.497	-.1274						
				.550				-.1176	-.3208		
				.565			-.0153				
				.600							-.5155
				.650						-.3834	
				.700	.0662				-.1062		
				.725				.0000			
				.750						-.2653	-.4242
				.760			.0005				
				.775				-.0105	-.0901		
				.808			-.0248				
				.834	.0000						
				.850				-.3493	-.2524	-.2228	
				.857			-.3458				
				.865	-.0306						
				.900	-.3088			-.3188			-.2391
				.905			-.3262		-.2076		
				.950				-.2728		-.1213	
				.953			-.2680				
				.965	-.2766						
ALPHA (2) =	-0.309	BETA (2) =	.012	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.000	-.1450	-.0692	.3328	.6146	.5853	.4884	.3964
				.020			.3722	.3723	.3561	.3371	.3496
				.040		-.0093	.2526				
				.050	-.1667			.1190	.0596	.1132	.1157
				.080				-.0637			
				.081			-.0705				

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SECTION (1) TOP WING		ARC11-014IA19 OTS	SRB-NOM MPS-OFF TOP WING (REUR55)							
ALPHA (2) = -.309 BETA (2) = .012		DEPENDENT VARIABLE CF								
		2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.086		.0285						
		.094	-.1040							
		.150				-.1887	-.2028	-.1812	-.1813	
		.163		.0880						
		.177			-.2030					
		.229	-.0657							
		.246		-.0794						
		.250				-.3183	-.3087	-.3399	-.3662	
		.274			-.2679					
		.362	-.0510							
		.390		-.2101						
		.400				-.4021	-.4574		-.4984	
		.402			-.3107					
		.497	-.1484							
		.550				-.3917	-.4752			
		.565			-.2572					
		.600							-.5234	
		.650						-.5514		
		.700	-.0579				-.2199			
		.725				.0000				
		.750						-.5355	-.5286	
		.760			.0366					
		.775				-.0467	-.2203			
		.808			.0132					
		.834	.0495							
		.850				-.3025	-.2530	-.3294		
		.857			-.3187					
		.865	.0201							
		.900	-.3015			-.2674			-.3107	
		.905			-.3025		-.1834			
		.950				-.2158		-.1869		
		.953			-.2567					
		.965	-.2891							
ALPHA (2) = -.300 BETA (3) = 4.022		2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.000	-.0354	.0124	.3798	.7283	.6909	.6551	.6457	
		.020			.4311	.4167	.3967	.3855	.3761	
		.040		.0467	.3024					
		.050	-.0806			.1378	.0662	.1295	.0937	
		.080				-.0565				
		.081			-.0533					
		.086		.0763						
		.094	-.0239							
		.150				-.2381	-.2248	-.1750	-.2057	



		ARC11-014TA19 QTS	SRB-NOM MPS-OFF TOP WING							(REUR55)	
SECTION (1) TOP WING		DEPENDENT VARIABLE CP									
ALPHA (2) =	- .300	BETA (3) =	4.022	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.163		.1278					
				.177							
				.229		-.0433					
				.246							
				.250							
				.274							
				.362							
				.390							
				.400							
				.402							
				.497							
				.550							
				.565							
				.600							
				.650							
				.700							
				.725							
				.750							
				.760							
				.775							
				.800							
				.834							
				.850							
				.857							
				.865							
				.900							
				.905							
				.950							
				.953							
				.965							
ALPHA (3) =	3.966	BETA (1) =	.003	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.000							
				.020							
				.040							
				.050							
				.060							
				.081							
				.086							
				.094							
				.150							
				.163							
				.177							
				.229							

SECTION (1) TOP WING		ARC11-014IA19 OTS	SRB-NCM MPS-OFF TCF WING							(REUR55)
ALPHA (3) = 3.966 BETA (1) = .003		DEPENDENT VARIABLE CP								
		2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.246		-.1564						
		.257				-.4426	-.4815	-.4840	-.5165	
		.274			-.3815					
		.362	-.0789							
		.397		-.2801						
		.400				-.5219	-.5581		-.6158	
		.402			-.3750					
		.497	-.1831							
		.550				-.4764	-.5982			
		.565			-.3799					
		.600							-.6127	
		.657						-.6377		
		.700	-.2568				-.3649			
		.725				.0000				
		.750						-.6142	-.6435	
		.760			-.0591					
		.775				-.2208	-.3510			
		.808			-.0661					
		.834	.0091							
		.850				-.3391	-.3082	-.4436		
		.857			-.3149					
		.865	.0011							
		.900	-.3273			-.2872			-.4625	
		.905			-.3038		-.2502			
		.950				-.2230		-.3580		
		.953			-.2581					
		.965	-.3182							

ARC11-014IA19 OTS

SRB-NOM MPS-OFF TOP WING

(REUR56) (19 OCT 74)

REFERENCE DATA

SREF = 2090.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.071 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.0995	-.0899	.1901	.4866	.5087	.3632	.2756
.020			.3819	.4681	.4745	.4792	.4972
.040		-.0304	.3100				
.060	-.1078			.2600	.2289	.3145	.3324
.080				.0894			
.081			.0535				
.086		.0518					
.094	-.0952						
.150				-.0021	.0187	.0315	.0301
.163		.1465					
.177			-.0716				
.229	-.0128						
.246		.0115					
.250				-.1703	-.1489	-.1371	-.1451
.274			-.1411				
.362	-.0384						
.390		-.1282					
.400				-.2649	-.2849		-.3080
.402			-.2005				
.497	-.0962						
.550				-.2906	-.3248		
.565			-.2098				
.600							-.3537
.650						-.3641	
.700	.0022				-.1623		
.725				.0000			
.750						-.3514	-.4798
.760			.0625				
.775				-.0124	-.1382		
.808			.0444				
.834	.0679						
.850				-.1088	-.1526	-.2824	
.857			-.2073				
.865	.0394						
.900	-.2121			-.1510			-.2751
.905			-.1920		-.1084		
.950				-.1132		-.2167	
.953			-.1568				
.965	-.1950						

ARC11-0141A19 OTS

SRB-NCM MPS-OFF TOP WING

(RELRS6)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.294 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2131	-.1354	.2261	.5142	.4871	.3830	.3053
.020			.2480	.3939	.3561	.3347	.3416
.040		-.0546	.1989				
.050	-.2013			.1432	.1120	.1552	.1549
.080				-.0096			
.081			.0027				
.086		-.0037					
.094	-.1713						
.150				-.1082	-.1168	-.0880	-.0950
.163		.0802					
.177			-.1279				
.229	-.0586						
.246		-.0442					
.250				-.2394	-.2221	-.2368	-.2488
.274			-.1942				
.362	-.0443						
.390		-.1651					
.400				-.3099	-.3404		-.3776
.402			-.2316				
.497	-.1293						
.550				-.3196	-.3589		
.565			-.2369				
.600							-.4135
.690						-.4113	
.700	-.0652				-.1812		
.725				.0000			
.750						-.3995	-.5014
.760			.0345				
.775				-.0311	-.1691		
.808			.0116				
.834	.0378						
.850				-.2522	-.2012	-.3006	
.857			-.2536				
.865	.0111						
.900	-.2364			-.2140			-.2918
.905			-.2361		-.1499		
.950				-.1741		-.2443	
.953			-.1999				
.965	-.2125						

ALPHA (2) = -.375 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.0694	-.0975	.2952	.6016	.5910	.5022	.4292
.020			.3493	.4002	.4108	.4064	.4169
.040		.0087	.2448				
.050	-.1083			.1599	.1358	.1980	.1930
.080				.0008			
.081			-.0040				

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - 1A19 (ARC 11-014)

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SECTION (1) TOP WING		DEPENDENT VARIABLE CP							
ALPHA (2) = -.375 BETA (2) = .009		2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.086		.0450					
		.094	-.0885						
		.150				-.1310	-.1192	-.0761	-.0774
		.163		.0952					
		.177			-.1469				
		.229	-.0433						
		.246		-.0486					
		.250				-.2526	-.2424	-.2447	-.2505
		.274				-.2320			
		.362	-.0397						
		.390		-.1976					
		.400				-.3627	-.3721		-.3870
		.402				-.2721			
		.497	-.1406						
		.550				-.3619	-.4256		
		.565				-.2903			
		.600							-.4315
		.650						-.4390	
		.700	-.2065				-.3724		
		.725				.0000			
		.750						-.4375	-.5031
		.760				-.0278			
		.775				-.1538	-.2962		
		.808				-.0327			
		.834	.0430						
		.850				-.2551	-.2163	-.3538	
		.857				-.2285			
		.865	.0214						
		.900	-.2380			-.2046			-.3597
		.905				-.2190	-.1916		
		.950				-.1552		-.2783	
		.953				-.1837			
		.965	-.2258						
ALPHA (2) = -.423 BETA (3) = 4.028		2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.000	.0390	-.0233	.3971	.7229	.7110	.6342	.5733
		.020			.4321	.4661	.4719	.4619	.4738
		.040		.0495	.3090				
		.050	-.0162			.1966	.1645	.2275	.2172
		.080				.0216			
		.081			.0308				
		.086		.0807					
		.094	-.0005						
		.150				-.1510	-.1139	-.0683	-.0711

		ARC11-014IA19 OTS SRB-NOM MPS-OFF TOP WING (REUR56)							
SECTION (1) TOP WING		DEPENDENT VARIABLE CP							
ALPHA (2) = -4.23 BETA (3) = 4.028		2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.163		.1346					
		.177			-.1276				
		.229	-.0097						
		.246		-.0316					
		.257				-.2530	-.2597	-.2377	-.2488
		.274			-.2394				
		.362	-.0108						
		.397		-.1857					
		.400				-.3885	-.3743		-.3839
		.402			-.2794				
		.497	-.1099						
		.557				-.3785	-.4405		
		.565		-.2972					
		.607							-.4339
		.657						-.4539	
		.707	-.2162				-.4358		
		.725				.0000			
		.757						-.4421	-.4535
		.767			-.1007				
		.775				-.2263	-.4247		
		.808			-.1113				
		.834	.0279						
		.857				-.2810	-.2803	-.4634	
		.857			-.2116				
		.865	.0231						
		.907	-.1961			-.2292			-.4078
		.975			-.1877		-.2581		
		.957				-.1831		-.3003	
		.953			-.1317				
		.965	-.1835						
ALPHA (3) = 3.834 BETA (1) = -.003		2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.007	-.0911	-.1935	.2886	.6744	.6420	.6427	.6740
		.027			.2808	.3025	.3128	.2742	.2736
		.047		-.0677	.1741				
		.057	-.0965			.0411	.0120	.0383	.0781
		.080				-.1134			
		.081			-.0872				
		.086		-.0190					
		.094	-.0753						
		.157				-.2830	-.2327	-.2101	-.2296
		.163		.0187					
		.177			-.2504				
		.229	-.0881						



ARC11-014IA19 QTS

SRB-NOM MPS-OFF TOP WING

(REUR56)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.874 BETA (1) = -.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		-.1252					
.250				-.3495	-.3663	-.3553	-.3613
.274			-.3222				
.362	-.0583						
.390		-.2619					
.400				-.4486	-.4604		-.4684
.402			-.3481				
.497	-.1793						
.550				-.4450	-.4953		
.565			-.3495				
.600							-.4887
.650						-.5250	
.700	-.2774				-.5006		
.725				.0000			
.750						-.5177	-.4962
.760			-.1582				
.775				-.2510	-.4748		
.808			-.1627				
.834	.0028						
.850				-.3253	-.2794	-.4167	
.857			-.2559				
.865	-.0092						
.900	-.2492			-.2840			-.4976
.905			-.2326		-.2612		
.950				-.2408		-.3495	
.953			-.1893				
.965	-.2434						

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ARC11-014IA19 QTS+STRUT SRB-NOM+MPS-NOM+TOP WING

(REUR57) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. YT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.497	BETA (1) = .003	2Y/B %C	.299	.364	.427	.534	.641	.780	.887
		.000	-.1999	-.0136	.1931	.4659	.4625	.3227	.2285
		.020			.3725	.4312	.4298	.4434	.4466
		.040		.0197	.3183				
		.057	-.1798			.2028	.1764	.2664	.2625
		.080				.0344			
		.081			.1036				
		.086		.0648					
		.094	-.1176						
		.120				-.0136	-.0448	-.0524	-.0570
		.163		.1511					
		.177			-.0979				
		.229	-.0314						
		.246		-.0090					
		.250				-.2159	-.2227	-.2256	-.2565
		.274			-.1565				
		.362	.0161						
		.390		-.1493					
		.400				-.3271	-.3532		-.4257
		.402			-.2438				
		.497	-.1067						
		.550				-.0599	-.2368		
		.565			.0434				
		.600							-.4650
		.650						-.3697	
		.700	.1284				-.0378		
		.725				.0000			
		.750						-.2072	-.4197
		.760			.0699				
		.775				.0424	-.0316		
		.808			.0421				
		.834	.0552						
		.850				-.3351	-.2254	-.1788	
		.857			-.3410				
		.865	.0250						
		.900	-.3254			-.2992			-.2258
		.905			-.3163		-.1723		
		.950				-.2451		-.0672	
		.953			-.2653				
		.965	-.2088						

ARC11-014IA19 QTS+STRUT SRB-NOM+MPS-NOM+TOP WING

(REUR57)

SECTION (1) TOP WING

DEPENDENT VARIABLE CF

ALPHA (2) = -.339 BETA (1) = -3.997

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.3581	-.1483	.1640	.4443	.4442	.3170	.2308
.020			.2365	.3571	.3325	.3321	.3305
.040		-.1042	.1903				
.050	-.2586			.1324	.0818	.1542	.1380
.080				-.0339			
.081			.0357				
.086		-.0323					
.094	-.1923						
.150				-.0728	-.0992	-.1409	-.1617
.163		.0656					
.177			-.1547				
.229	-.0930						
.246		-.0660					
.250				-.2538	-.2750	-.2971	-.3526
.274			-.1845				
.362	-.0484						
.390		-.1768					
.400				-.3580	-.3906		-.4836
.402			-.2653				
.497	-.1408						
.550				-.0705	-.2037		
.565			.0235				
.670							-.5173
.650						-.2779	
.700	.0843				-.0657		
.725				.0200			
.750						-.2158	-.3739
.760			-.0058				
.775				-.0170	-.0670		
.808			-.0308				
.834	-.0100						
.850				-.3793	-.2672	-.2037	
.857			-.3730				
.865	-.0390						
.900	-.3423			-.3461			-.2119
.905			-.3536		-.2132		
.950				-.2955		-.0996	
.953			-.2973				
.965	-.3153						

ALPHA (2) = -.465 BETA (2) = .019

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2098	-.0925	.3264	.5901	.5758	.4694	.3870
.020			.3527	.3483	.3432	.3239	.3386
.040		-.0153	.2371				
.050	-.1700			.1024	.0466	.0968	.0994
.080				-.0746			
.081			-.0704				

ARC11-014IA19 OTS+STRUT SRB-NOM+MPS-NOM+TOP WING

(REUR57)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.465 BETA (2) = .019

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.086		.0191					
.094	-.1058						
.150				-.2030	-.2160	-.1831	-.1965
.163		.0740					
.177			-.2064				
.229	-.0539						
.246		-.0867					
.253				-.3284	-.3164	-.3559	-.3820
.274			-.2596				
.362	-.0373						
.390		-.2182					
.400				-.4114	-.4696		-.5143
.402			-.3046				
.497	-.1501						
.550				-.4078	-.4903		
.565			-.2665				
.600							-.5341
.650						-.5708	
.700	-.0736				-.2293		
.725				.0000			
.750						-.5477	-.5322
.760			.0292				
.775				-.0570	-.2313		
.808			.0065				
.834	.0384						
.850				-.3361	-.2695	-.3240	
.857			-.3425				
.865	.0072						
.900	-.3366			-.3013			-.3256
.905			-.3265		-.2057		
.950				-.2463		-.1864	
.953			-.2816				
.965	-.3118						

ALPHA (2) = -.435 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.0948	-.0379	.4675	.7103	.6720	.6703	.6458
.020			.4163	.3164	.3306	.3242	.3212
.040		.0537	.2709				
.050	-.0777			.0541	.0135	.0699	.0438
.080				-.1001			
.081			-.0857				
.086		.0905					
.094	-.0153						
.150				-.2891	-.2594	-.2205	-.2449



DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

PAGE 421

ARC11-014IA19 OTS+STRUT SRB-NOM+MPS-NOM+TOP WING

(REUR57)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.435	BETA (3) = 4.031	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.163		.1371					
		.177			-.2420				
		.229	.0055						
		.246		-.0749					
		.250				-.3831	-.4075	-.3939	-.4221
		.274			-.3348				
		.362	.0487						
		.390		-.2586					
		.400				-.5118	-.5110		-.5394
		.402			-.3829				
		.497	-.1615						
		.550				-.4920	-.5873		
		.565			-.3938				
		.600							-.5646
		.650						-.5971	
		.700	-.2953				-.3840		
		.725				.0000			
		.750						-.5690	-.6280
		.760			-.0464				
		.775				-.2394	-.3397		
		.908			-.0435				
		.834	.0683						
		.850				-.3402	-.2880	-.4177	
		.857			-.2945				
		.865	.0486						
		.900	-.3134			-.2691			-.4388
		.905			-.2773		-.2669		
		.950				-.1979		-.3405	
		.953			-.2223				
		.965	-.2926						

ALPHA (3) = 3.636	BETA (1) = .005	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.000	-.2207	-.2636	.3180	.6437	.5888	.6493	.6317
		.020			.2944	.2059	.2000	.1793	.1365
		.040		-.0878	.1463				
		.050	-.1440			-.0694	-.1110	-.0693	-.1391
		.080				-.2317			
		.081			-.1637				
		.086		-.0433					
		.094	-.1238						
		.150				-.3695	-.3423	-.3227	-.3665
		.163		.0137					
		.177			-.3045				
		.229	-.0974						

ARC11-0141A19 QTS+STRUT SRB-NCM+MFS-NCM+TOP WING

(REUR57)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.636	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		-.1560					
		.250				-.4442	-.4776	-.4752	-.5074
		.274			-.3736				
		.362	-.0673						
		.390		-.2801					
		.400				-.5204	-.5541		-.6032
		.402			-.3785				
		.497	-.1888						
		.550				-.4797	-.5984		
		.565			-.3771				
		.600							-.6127
		.650						-.6400	
		.700	-.2479				-.3363		
		.725				.0000			
		.750						-.6174	-.6470
		.760			-.0497				
		.775				-.2153	-.3330		
		.808			-.0556				
		.834	.0102						
		.850				-.3573	-.3042	-.4282	
		.857			-.3412				
		.865	-.0028						
		.900	-.3471			-.3077			-.4479
		.905			-.3292		-.2606		
		.950				-.2453		-.3795	
		.953			-.2835				
		.965	-.3351						

ARC11-014IA19 QTS+STRUT SRB-LOW MPS-NOM TOP WING

(REUR58) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.155	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.000	-.1500	-.0472	.2388	.4931	.5096	.3909	.2755
		.020			.3811	.4589	.4646	.4674	.4882
		.040		.0192	.2933				
		.060	-.1078			.2355	.2161	.2972	.3197
		.080				.0802			
		.081			.0543				
		.086		.0689					
		.094	-.0957						
		.150				-.0176	.0031	.0352	.0200
		.163		.1330					
		.177			-.0801				
		.229	-.0162						
		.246		.0126					
		.250				-.1737	-.1548	-.1417	-.1518
		.274			-.1446				
		.362	.0000						
		.390		-.1348					
		.400				-.2653	-.2925		-.3115
		.402			-.2012				
		.497	-.0948						
		.550				-.3015	-.3326		
		.565			-.2148				
		.600							-.3613
		.650						-.3709	
		.700	.0000				-.1688		
		.725				.0000			
		.750						-.3574	-.4867
		.760			.0589				
		.775				-.0193	-.1412		
		.808			.0422				
		.834	.0633						
		.850				-.1960	-.1520	-.2885	
		.857			-.2103				
		.865	.0339						
		.900	-.2226			-.1516			-.2773
		.905			-.1951		-.1128		
		.950				-.1149		-.2257	
		.953			-.1604				
		.965	-.1963						

ARC11-014IA19 OTS+STRUY SRB-LOW MPS-NOM TOP WING

(REUR58)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.340 BETA (1) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.0167	-.0143	.4122	.7381	.6951	.6537	.5713
.020			.4120	.3976	.4133	.4152	.4320
.040		.0686	.2825				
.050	-.0137			.1332	.1093	.1827	.1793
.060				-.0308			
.081			-.0062				
.086		.0940					
.094	.0020						
.150				-.1840	-.1460	-.0883	-.1027
.163		.1276					
.177			-.1587				
.229	.0045						
.246		-.0313		-.2744	-.2868	-.2655	-.2752
.250							
.274			-.2560				
.362	.0305						
.390		-.1944					
.400				-.4009	-.3934		-.4018
.402			-.2902				
.497	-.1055						
.550				-.3933	-.4536		
.565			-.3089				
.600							
.650						-.4760	-.4328
.700	-.2328				-.4530		
.725				.0000			
.750						-.4652	-.4550
.760			-.1208				
.775				-.2378	-.4428		
.808			-.1345				
.834	.0091						
.850				-.2957	-.3019	-.4459	
.857			-.2356				
.865	.0097						
.900	-.2195			-.2524			-.4259
.905			-.2065		-.2738		
.950				-.2117		-.3172	
.953			-.1515				
.965	-.1904						

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-OFF TOP WING

(REUR59) (19 T 74)

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

EL V-TB = 8.0000 EL Y-CB = 4.000
 RUDDER = .0000 MACH = 1.250
 GTMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.080 BETA (1) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.1920	-.0106	.1952	.4719	.4746	.3346	.2444
.020			.3674	.4285	.4308	.4462	.4484
.040		.0242	.3038				
.050	-.1738			.2000	.1724	.2649	.2638
.080				.0326			
.081			.0782				
.086		.0636					
.094	-.1165						
.150				-.0078	-.0387	-.0407	-.0580
.163		.1433					
.177			-.0998				
.229	-.0284						
.246		-.0183					
.250				-.2143	-.2222	-.2224	-.2511
.274			-.1585				
.362	.0100						
.390		-.1500					
.400				-.3277	-.3478		-.4159
.402			-.2389				
.497	-.1067						
.550				-.0770	-.3227		
.565		.0307					
.600							-.4534
.650						-.4325	
.700	.1211				-.0547		
.725				.0000			
.750						-.2360	-.4360
.760			.0706				
.775				.0458	-.0424		
.808			.0441				
.834	.0562						
.850				-.3001	-.2005	-.1843	
.857			-.3095				
.865	.0264						
.900	-.2931			-.2632			-.2277
.905			-.2851		-.1511		
.950				-.2144		-.0686	
.953			-.2393				
.965	-.2689						

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ARC11-014IA19 OTS+STRUT SRB-NOM MPS-OFF TOP WING

(REL959)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) =	BETA (1) =	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
	.012	.000	-.1900	-.0890	.3187	.5951	.5914	.4846	.4054
		.020			.3549	.3563	.3574	.3366	.3488
		.040		-.0070	.2398				
		.050	-.1638			.1146	.0604	.1127	.1100
		.080				-.0579			
		.081			-.0642				
		.086		.0281					
		.094	-.1032						
		.150				-.2020	-.2015	-.1575	-.1814
		.163		.0786					
		.177			-.2009				
		.229	-.0480						
		.246		-.0855					
		.250				-.3225	-.3034	-.3418	-.3633
		.274			-.2547				
		.362	-.0341						
		.390		-.2145					
		.400				-.4000	-.4565		-.4961
		.402			-.2909				
		.497	-.1548						
		.550				-.3981	-.4754		
		.565			-.2592				
		.600						-.5516	
		.650							-.5289
		.700	-.0685				-.2209		
		.725				.0000			
		.750						-.5303	-.5144
		.750			.0394				
		.775				-.0571	-.2207		
		.808			.0181				
		.834	.0472						
		.850				-.2978	-.2472	-.3104	
		.857			-.3037				
		.865	.0189						
		.900	-.3016			-.2628			-.3151
		.905			-.2868		-.1817		
		.950				-.2097		-.1783	
		.953			-.2466				
		.965	-.2883						

ALPHA (2) = -.333 BETA (2) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.0794	-.0459	.4553	.7037	.6628	.6488	.6370
.020			.4113	.3182	.3314	.3271	.3279
.040		.0541	.2670				
.050	-.0765			.0556	.0145	.0744	.0480
.080				-.0961			
.081			-.0819				

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

PAGE 427

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-OFF TOP WING (REUR59)

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (2) = -0.333 BETA (2) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.086		.0845					
.094	-.0127						
.150				-.2827	-.2569	-.2045	-.2344
.163		.1325					
.177			-.2387				
.229	.0072						
.246		-.0748					
.250				-.3781	-.4022	-.3882	-.4126
.274			-.3328				
.362	.0440						
.390		-.2556					
.400				-.5044	-.5077		-.5318
.402			-.3796				
.497	-.1597						
.550				-.4855	-.5794		
.565			-.3951				
.600							-.5618
.650						-.5915	
.700	-.2966				-.4166		
.725				.0000			
.750						-.5633	-.6218
.760			-.0569				
.775				-.2394	-.3566		
.808			-.0590				
.834	.0619						
.850				-.3240	-.2839	-.4080	
.857			-.2694				
.865	.0446						
.900	-.2897			-.2566			-.4212
.905			-.2515		-.2627		
.990				-.1816		-.3399	
.953			-.2022				
.965	-.2738						

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-0141A19 OTS+STRUT SRB-HI MPS-NOM TOP WING

(REVISED) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) TOP WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.122 BETA (1) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.000	-.2110	-.0122	.1966	.4691	.4729	.3316	.2420
.020		.3663	.4276	.4314	.4461	.4480	
.040		.0243	.2970				
.050	-.1744			.2006	.1761	.2688	.2638
.080				.0299			
.081			.0818				
.086		.0637					
.094	-.1119						
.150				-.0097	-.0370	-.0370	-.0527
.163		.1422					
.177			-.1018				
.229	-.0250						
.246		-.0202					
.290				-.2120	-.2207	-.2189	-.2473
.274			-.1575				
.362	.0102						
.390		-.1472					
.400				-.3251	-.3472		-.4170
.402			-.2410				
.497	-.1020						
.590				-.0736	-.3237		
.565			.0328				
.600							-.4514
.650						-.4247	
.700	.1266				-.0524		
.725				.0000			
.750						-.2349	-.4269
.760			.0701				
.775				.0501	-.0375		
.808			.0446				
.834	.0607						
.850				-.3001	-.1986	-.1870	
.857			-.3065				
.865	.0295						
.900	-.2789			-.2624			-.2256
.905			-.2804		-.1490		
.950				-.2108		-.0688	
.953			-.2285				
.965	-.2448						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

PAGE 429

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REVISION) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -3.993	BETA (1) = .000	2Y/B Y/C	.299	.364	.427	.534	.641	.789	.887
		.020			.0533	-.3575	-.5191	-.8460	-.9930
		.040		.0977	-.0031				
		.050	.0245			-.3769	-.5355	.0000	-.8594
		.080				-.3260			
		.081			-.0933				
		.086		.0947					
		.094	.0289						
		.150				-.2086	-.2253	-.2630	-.3067
		.163		.0496					
		.177			.0000				
		.229	.0303						
		.246		-.0704					
		.250				-.0981	-.1109	-.1596	-.2349
		.274				-.0907			
		.362	.0243						
		.390		-.0519					
		.400				-.0095	-.0472		-.2211
		.402			-.0146				
		.497	-.0344						
		.550				-.0835	-.1582		
		.565			-.0316				
		.600							-.4032
		.650						-.4356	
		.700	-.0081				-.5011		
		.725				-.5492			
		.750						-.4274	-.3402
		.760			-.5751				
		.775				-.2411	-.2704		
		.808			-.3377				
		.834	-.4342						
		.850				-.4967	-.5340	-.6447	
		.857			-.3963				
		.865	-.4128						
		.900	-.3590			-.4622			-.5415
		.905			-.4681		-.3577		
		.950				-.4293		-.1710	
		.953			-.3934				
		.965	-.3187						

ORIGINAL PAGE IS
 OF POOR QUALITY

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REUM11)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.216 BETA (1) = -4.006

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			-.0332	-.2901	-.4088	-.5143	-.6576
.040		-.0271	-.0577				
.050	-.1017			-.3294	-.4615	.0000	-.5915
.080				-.2926			
.081			-.1087				
.086		-.0185					
.094	-.0919						
.150				-.2085	-.2315	-.2161	-.2405
.163		-.0371					
.177			.0000				
.229	-.0774						
.246		-.0811					
.250				-.1185	-.1223	-.1473	-.2307
.274			-.1037				
.362	-.0534						
.390		-.0802					
.400				-.0567	-.0802		-.2435
.402			-.0699				
.497	-.0799						
.550				-.1453	-.1930		
.565			-.1163				
.600							-.4352
.650						-.4598	
.700	-.0890				-.5240		
.725				-.5470			
.750						-.4666	-.3699
.760			-.3657				
.775				.0524	-.2462		
.808			-.2834				
.834	-.3828						
.850				-.4249	-.4450	-.6778	
.857			-.4274				
.865	-.4248						
.900	-.3935			-.5935			-.7971
.905			-.4668		-.4697		
.950				-.5529		-.2286	
.953		-.3616					
.965	-.3494						

ALPHA (2) = -.336 BETA (2) = .006

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.2084	-.0499	-.0864	-.1318	-.2219
.040		.1251	.1298				
.050	.0256			-.1410	-.1898	.0000	-.2794
.080				-.1359			
.081			.0239				
.086		.1373					
.094	.0347						

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING (REUM01)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -0.336	BETA (2) = 0.006	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.150				-.0864	-.0840	-.0954	-.1513
		.163		.1119					
		.177			.0000				
		.229	.0417						
		.246		.0041					
		.250				-.0109	-.0172	-.0633	-.1566
		.274			-.0238				
		.362	.0645						
		.390		.0190					
		.400				.0396	-.0055		-.2073
		.402			.0479				
		.497	.0284						
		.550				-.0625	-.1441		
		.565			.0029				
		.600							-.4073
		.650						-.4333	
		.700	.0361				-.4960		
		.725				-.5384			
		.750						-.4380	-.3279
		.760			-.5715				
		.775				-.1635	-.2316		
		.808			-.2717				
		.834	-.4387						
		.850				-.3576	-.4851	-.6139	
		.857			-.3188				
		.865	-.3812						
		.900	-.3453			-.4341			-.6498
		.905			-.4554		-.3004		
		.950				-.4491		-.1255	
		.953			-.3657				
		.965	-.3105						

ALPHA (2) = -0.222	BETA (3) = 4.025	2Y/B X/C	.209	.364	.427	.534	.641	.780	.887
		.020			.3914	.2028	.1894	.1763	.1011
		.040		.2175	.2876				
		.050	.1347			.0882	.0533	.0000	-.0276
		.080				.0555			
		.081			.1770				
		.005		.2431					
		.1	.1571						
		.150				.0647	.0606	.0353	-.0329
		.163		.2277					
		.177			.0000				
		.229	.1695						

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REUM01)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -0.222	BETA (3) = 4.025	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.246		.1284					
		.250			.1128	.0899	.0289		-.0716
		.274			.1256				
		.362	.1688						
		.390		.1428					
		.400			.1216	.0632			-.1475
		.402			.1601				
		.497	.1489						
		.550			-.0158	-.0996			
		.565			.0723				
		.600							-.3548
		.650						-.3866	
		.700	.1461				-.4556		
		.725			-.5051				
		.750						-.3723	-.2870
		.760			-.5628				
		.775			-.1245	-.1758			
		.808			-.2450				
		.834	-.4395						
		.850			-.3595	-.4943	-.5577		
		.857			-.3065				
		.865	-.4225						
		.900	-.3863			-.4172			-.7443
		.905			-.4578	-.2607			
		.950			-.3656			-.1944	
		.953			-.2380				
		.965	-.3352						

ALPHA (3) = 3.948	BETA (1) = .000	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.020			.3681	.1930	.1969	.2291	.1887
		.040		.1375	.2553				
		.050	.0185			.0616	.0481	.0000	.0480
		.080				.0234			
		.081			.1424				
		.086		.1777					
		.094	.0465						
		.150				.0225	.0475	.0435	-.0182
		.163		.1798					
		.177			.0000				
		.229	.0680						
		.246		.0799					
		.250				.0716	.0659	.0232	-.0732
		.274			.0709				
		.362	.1078						



ARC11-014TA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REUM11)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.948 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.390		.0819					
.400				.0809	.0377		-.1725
.402			.0974				
.497	.0772						
.550				-.0484	-.1220		
.565			.0254				
.610							-.3817
.650						-.4059	
.710	.0656				-.4676		
.725				-.5090			
.750						-.3839	-.3079
.760			-.5903				
.775			-.0676	-.1524			
.808			-.2036				
.834	-.4420						
.850				-.2697	-.3086	-.5286	
.857			-.2858				
.865	-.3650						
.900	-.3374			-.4652			-.7298
.905			-.4744		-.3703		
.950				-.5495		-.6055	
.953			-.3763				
.965	-.2934						

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REV012) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. YT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

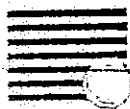
PARAMETRIC DATA

ELV-1B = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.100
 CTIBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.176	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.3327	-.0117	-.1287	-.3152	-.5140
		.040		.1613	.2436				
		.050	-.1064			-.0618	-.2041	.0000	-.4161
		.080				-.0800			
		.081			.1470				
		.086		.2215					
		.094	-.0897						
		.150				.0154	.0372	.0346	.0221
		.163		.2242					
		.177			.0000				
		.229	.0410						
		.246		.1350					
		.250				.1238	.1168	.0952	.0507
		.274			.1197				
		.362	.1748						
		.390		.1426					
		.400				.1876	.1763		.0616
		.402			.1770				
		.497	.1452			.1418	.1020		
		.550			.1638				
		.565							-.0910
		.600							-.1123
		.650							
		.700	.1738				-.1744		
		.725				-.2338			
		.750						-.0965	-.0386
		.760			-.3472				
		.775				.0180	.0169		
		.808			-.2778				
		.834	-.4437						
		.850				-.3651	-.3688	-.3137	
		.857			-.4642				
		.865	-.4388						
		.900	-.5273			-.5640			-.4368
		.905			-.6351		-.4686		
		.950				-.6921		-.5525	
		.953			-.4289				
		.965	-.4676						



ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REU02)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.294 BETA (1) = -4.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.1658	-.0025	-.1136	-.2101	-.2844
.040		.0697	.1269				
.060	-.2032			-.0640	-.1972	.0000	-.2523
.080				-.0947			
.081			.0831				
.086		.1067					
.094	-.1444						
.150				-.0276	-.0343	.0419	.0490
.163		.1096					
.177			.0000				
.229	-.0220						
.246		.0698					
.250				.0374	.0622	.0811	.0384
.274			.0423				
.362	.0736						
.390		.0523					
.400				.1147	.1290		.0237
.402			.0732				
.497	.0413						
.550				.0686	.0578		
.565		.0459					
.600							-.1247
.650						-.1429	
.700	.0312				-.2182		
.725				-.2919			
.750						-.1382	-.0723
.760			-.3884				
.775			-.0693	-.0454			
.808		-.2605					
.834	-.4054						
.850				-.3933	-.4065	-.3559	
.857			-.4781				
.865	-.5480						
.900	-.5137			-.5737			-.4962
.905			-.6455		-.5186		
.950				-.6875		-.5937	
.953		-.6544					
.965	-.4615						

ALPHA (2) = -.252 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.4798	.2513	.2151	.2181	.1695
.040		.2270	.3736				
.050	-.0796			.1383	.1014	.0000	.0879
.080				.1189			
.081			.2640				
.086		.2855					
.094	-.0449						

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ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REU-02)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.252	BETA (2) = .009	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.150				.1430	.1560	.1793	.1501
		.163		.3009					
		.177			.0000				
		.229	.1155						
		.246		.2091					
		.250				.2066	.2176	.2032	.1324
		.274			.1994				
		.362	.2279						
		.390		.2127					
		.400				.2526	.2361		.0839
		.402			.2432				
		.497	.2081						
		.550				.1816	.1336		
		.565			.2135				
		.600							.0752
		.650						-.0964	
		.700	.2217				-.1549		
		.725				-.2049			
		.750						-.0723	-.0212
		.760			-.3090				
		.775				.0550	.0417		
		.808			-.2379				
		.834	-.4189						
		.850				-.3385	-.3479	-.3075	
		.857			-.4376				
		.865	-.4021						
		.900	-.5189			-.5433			-.4365
		.905			-.6120		-.4523		
		.950				-.6771		-.5411	
		.953			-.3979				
		.965	-.4034						

ALPHA (2) = -.225 BETA (3) = 4.028

2Y/B	.299	.364	.427	.534	.641	.780	.887
X/C							
.020				.5953	.4392	.4209	.4255
.040		.3248	.4870				.3842
.050	.1522			.3163	.2860	.0000	.2606
.080				.2790			
.081			.3833				
.086		.3838					
.094	.1984						
.150				.2766	.2899	.2859	.2352
.163		.4002					
.177			.0000				
.229	.2698						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REUM02)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.225 BETA (3) = 4.028	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
	.246		.3190					
	.250				.3219	.3148	.2809	.1975
	.274			.3214				
	.362	.3318						
	.390		.3367					
	.400				.3408	.3008		.1252
	.402			.3624				
	.497	.3308						
	.557				.2359	.1720		
	.565			.3027				
	.600							-.0478
	.693						-.0770	
	.700	.3515				-.1290		
	.725				-.1768			
	.750						-.0314	-.0087
	.760			-.2788				
	.775				.1201	.0829		
	.808			-.2134				
	.834	-.4986						
	.850				-.3144	-.3093	-.2838	
	.857			-.4385				
	.865	-.3679						
	.900	-.5261			-.5278			-.3822
	.915			-.6056		-.4142		
	.950				-.6610		-.5197	
	.953			-.6548				
	.965	-.4361						
ALPHA (3) = 4.026 BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
	.020				.5799	.4411	.4537	.4866
	.040		.2404	.4690				.4617
	.050	.0277			.3170	.3138	.0000	.3366
	.080				.2729			
	.081			.3575				
	.086		.3250					
	.094	.0682						
	.150				.2582	.2863	.3055	.2688
	.163		.3574					
	.177			.0000				
	.229	.1634						
	.246		.2714					
	.250				.2875	.3031	.2882	.2133
	.274			.2729				
	.362	.2717						

ARC11-014TA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(RELM12)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 4.026	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.390		.2748					
		.400				.3037	.2899		.1267
		.402			.2990				
		.497	.2658						
		.550				.2128	.1658		
		.565			.2455				
		.600							-.0524
		.650						-.0685	
		.700	.2569					-.1294	
		.725				-.1831			
		.750						-.0437	-.0145
		.760			-.2844				
		.775				.1052	.0777		
		.808			-.2032				
		.834	-.4316						
		.850				-.3116	-.3202	-.2888	
		.857			-.4246				
		.865	-.3945						
		.900	-.5418			-.5223			-.4038
		.905			-.5967		-.4348		
		.950				-.6560		-.5228	
		.953			-.7084				
		.965	-.4710						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REUM13) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = 6.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.182	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.2035	-.0925	-.1923	-.4209	-.5036
		.040		-.0142	.1201				
		.050	-.2268			-.1850	-.3281	.0000	-.5562
		.080				-.1968			
		.081			.0134				
		.086		.0139					
		.094	-.0738						
		.150				-.1641	-.2296	-.3737	-.4845
		.163		.0683					
		.177			.0000				
		.229	-.0325						
		.246		.0013					
		.250				-.0344	-.0883	-.2071	-.4101
		.274			-.0118				
		.362	.0306						
		.390		.0416					
		.400				-.0243	-.0003		.0955
		.402			-.0099				
		.497	.0402						
		.550				.2147	.2040		
		.565			.1849				
		.600							.0792
		.650						.0387	
		.700	.1443				-.0328		
		.725				-.0871			
		.750						.1350	.1113
		.780			-.2050				
		.775				.2484	.1539		
		.808			-.1326				
		.834	-.3509						
		.850				-.1986	-.2062	-.1539	
		.857			-.3071				
		.865	-.2754						
		.900	-.4036			-.3718			-.2543
		.905			-.4473		-.3181		
		.950				-.4930		-.3738	
		.953			-.5700				
		.965	-.4380						

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REU-03)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.291	BETA (1) = -3.997	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.020			.0825	-.0490	-.1297	-.2454	-.4010
		.040		-.1202	.0194				
		.050	-.1373			-.0999	-.2590	.0000	-.4485
		.080				-.1310			
		.081			-.0427				
		.086		-.0752					
		.094	-.1389						
		.150				-.1632	-.2011	-.2799	-.3668
		.163		-.0361					
		.177			.0000				
		.229	-.1815						
		.246		-.0377					
		.290				-.0804	-.1292	-.1681	-.2506
		.274			-.0420				
		.362	-.0785						
		.390		-.0216					
		.400				-.0446	-.0705		.1631
		.402			-.0241				
		.497	-.0193						
		.550				.1826	.1879		
		.565			.0850				
		.600						.0532	
		.650						.0165	
		.700	.0471				-.0620		
		.725				-.1372			
		.750						.0982	.0777
		.760			-.2499				
		.775				.1730	.1252		
		.800			-.1471				
		.834	-.3284						
		.850				-.2254	-.2393	-.1835	
		.857			-.3251				
		.865	-.2939						
		.900	-.3867			-.3901			-.2924
		.905			-.4672		-.3492		
		.950				-.5741		-.3945	
		.953			-.5695				
		.965	-.3839						

ALPHA (2) = -.177	BETA (2) = .016	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.020			.3081	.1398	.0694	-.0269	-.1966
		.040		-.0070	.2068				
		.050	-.0088			.0722	-.0828	.0000	-.2485
		.080				.0020			
		.081			.1095				
		.086		.0354					
		.094	-.0567						

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REUM13)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.177 BETA (2) = .016

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.150							
.163							
.177							
.229	-.0366						
.246							
.290							
.274							
.362	.0605						
.390							
.400							
.402							
.497	.1241						
.550							
.565							
.600							
.650							
.700	.2340						
.725							
.750							
.760							
.775							
.808							
.834	-.3153						
.850							
.857							
.865	-.2282						
.900	-.4007						
.905							
.950							
.953							
.965	-.4456						

ALPHA (2) = -.366 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020							
.040							
.050	.0591						
.080							
.081							
.086							
.094	.1031						
.150							
.163							
.177							
.229	.1365						

ARC11-0141A19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REF-03)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -0.366 BETA (3) = 4.031	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
	.246		.2424					
	.250				.3301	.3540	.3580	.2896
	.274			.2746				
	.362	.2070						
	.390		.2948					
	.400				.4064	.3894		.2371
	.402			.3892				
	.497	.2744			.3510	.2976		
	.550				.3868			
	.565							.0880
	.600						.0749	
	.650					.0284		
	.700	.4008			-.0141			
	.725						.1793	.1410
	.750							
	.760			-.1249				
	.775				.3818	.2555		
	.808			-.0137				
	.834	-.3389						
	.850				-.1271	-.1608	-.1243	
	.857			-.2450				
	.865	-.1727						
	.900	-.3559			-.3161			-.2516
	.905			-.4233		-.3104		
	.950				-.4494		-.3484	
	.953			-.5268				
	.965	-.4598						
ALPHA (3) = 3.843 BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
	.020			.4779	.3660	.3498	.4643	.4982
	.040		-.0323	.3718				
	.050	.0068			.2239	.1957	.0000	.3985
	.080				.1458			
	.081			.2776				
	.086		.0774					
	.094	-.0113						
	.150				.1759	.2966	.3639	.3498
	.163		.1876					
	.177			.0000				
	.229	-.0121						
	.246		.1915					
	.250				.3055	.3450	.3765	.3130
	.274			.2216				
	.362	.1214						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF L/R WING

(REUN03)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.843	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.390		.2296					
		.400				.3641	.3752		.2416
		.402			.3184				
		.497	.2030						
		.550				.3211	.2884		
		.565			.3235				
		.600							.0823
		.650						.0738	
		.700	.3014				.0219		
		.725				-.0280			
		.750						.1705	.1190
		.760				-.1459			
		.775					.3609	.2520	
		.808				-.0263			
		.834	-.3274						
		.850				-.1318	-.1666	-.1305	
		.857				-.2423			
		.865	-.2216						
		.900	-.3884			-.3218			-.2523
		.905				-.4266	-.3089		
		.950				-.4527		-.3475	
		.953				-.5419			
		.965	-.4685						

ARC11-014IA19 OTS+STRUT SRB-OFF MP6-OFF LWR WING

(REU034) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GTMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -3.906	BETA (1) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020				.0650	-.1219	-.1214	-.3709
		.040		.0083	.0133				-.3504
		.060	-.1216			-.1048	-.2505	.0000	-.4058
		.080				-.1040			
		.081			-.0503				
		.086		-.0067					
		.094	.0168						
		.150				-.1869	-.2398	-.3181	-.3622
		.163		-.0253					
		.177			.0000				
		.229	-.0002						
		.246		.0084					
		.290				-.1464	-.2158	-.2789	-.3175
		.274			-.0600				
		.362	-.0325						
		.390		.0093					
		.400				.0500	.0365		-.2519
		.402			.0777				
		.497	.0033						
		.550				.2800	.3115		
		.565			.1820				
		.600							.1502
		.650						.1772	
		.700	.1614				.1139		
		.725				.0637			
		.750						.1899	-.2832
		.760			-.0543				
		.775				.2717	.2381		
		.808			-.0308				
		.834	-.2975						
		.850				-.0604	-.0751	.0023	
		.857			-.1848				
		.865	-.1975						
		.900	-.3105			-.2256			-.0706
		.905			-.3218		-.2088		
		.950				-.3363		-.1999	
		.953			-.4249				
		.965	-.3935						

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING (REUM14)

SECTION 1 LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.204 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.0744	-.0236	-.0877	-.1831	-.2717
.040		-.0907	.0597				
.050	-.0970			-.1506	-.2527	.0000	-.3350
.080				-.1845			
.081			-.0034				
.086		-.0854					
.094	-.0719						
.150				-.2265	-.2547	-.2925	-.2924
.163		-.0165					
.177			.0000				
.229	-.1267						
.246		-.2414					
.250				-.1297	-.1892	-.2431	-.2357
.274			-.0761				
.362	-.0245						
.390		-.0385					
.400				.0006	-.0049		-.0902
.402			.0165				
.497	-.0362						
.550				.1802	.2341		
.565			.0879				
.600							.0770
.650						.1545	
.700	.0536				.0857		
.725				.0094			
.750						.2005	.2410
.760			-.1158				
.775				.1884	.2146		
.808			-.0684				
.834	-.2194						
.850				-.0993	-.2647	-.0334	
.857			-.2055				
.865	-.2038						
.900	-.3104			-.2550			-.1047
.905			-.3300		-.2397		
.950				-.3587		-.2309	
.953			-.4352				
.965	-.3493						

ALPHA (2) = -.306 BETA (2) = .016

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.1797	.1417	.0642	.0118	-.1251
.040		.0022	.1194				
.050	-.0805			.0080	-.0948	.0000	-.1871
.080				-.0491			
.081			.1711				
.086		.0390					
.094	.0135						

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ARC11-0141A19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REUMD4)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.306 BETA (2) = .016

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.150				-.1014	-.1180	-.1909	-.1495
.163		.042					
.177			.0000				
.229	.0402						
.246		.0434					
.257			-.0270	-.0833	-.0688	-.1004	
.274			-.0023				
.362	.0289						
.390		.0879					
.400				.1124	.0780		.1658
.402			.1757				
.497	.0599						
.550				.3736	.3736		
.565			.2597				
.600							.2247
.650						.1965	
.700	.2367				.1389		
.725				.0863			
.750						.2339	.2518
.760			-.0214				
.775				.3096	.2966		
.808			.0203				
.834	-.2651						
.850				-.0358	-.0636	.0026	
.857			-.1559				
.865	-.1682						
.900	-.2887			-.2038			-.1091
.905			-.3041		-.2061		
.950				-.3180		-.2048	
.953			-.4178				
.965	-.3718						

ALPHA (2) = -.267 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.4647	.3053	.2395	.1974	.0693
.040		.1436	.3589				
.050	.0344			.1731	.0552	.0000	-.0289
.080				.0914			
.081			.2463				
.086		.1822					
.094	.0802						
.150				.0145	.0709	.1156	.0941
.163		.2570					
.177			.0000				
.229	.1538						



ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REUM14)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.267 BETA (3) = 4.031	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
	.246		.1538					
	.250				.2533	.1833	.1498	.3667
	.274			.2437				
	.362	.2017						
	.390		.2666					
	.400				.3525	.4467		.3666
	.402			.3159				
	.497	.2433						
	.593				.4385	.4115		
	.565			.4338				
	.600							.2079
	.650						.2119	
	.700	.4102				.1696		
	.725				.1249			
	.750						.2557	.2419
	.760			.0311				
	.775				.3749	.3329		
	.808			.0805				
	.834	-.2165						
	.850				.0011	-.0371	.0129	
	.857			-.1193				
	.865	-.1688						
	.900	-.2545			-.1751			-.1016
	.905			-.2778		-.1812		
	.950				-.2921		-.1958	
	.953			-.4041				
	.965	-.3629						
ALPHA (3) = 4.392 BETA (1) = .012	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
	.020			.4456	.3267	.3001	.3453	.3179
	.040		.0284	.3355				
	.050	.0658			.1893	.1207	.0000	.1897
	.080				.0974			
	.081			.2192				
	.086		.0391					
	.094	.0651						
	.150				.0758	.2756	.1903	.1874
	.165		.1563					
	.177			.0000				
	.229	.0660						
	.246		.0924					
	.250				.2667	.1915	.1637	.2483
	.274			.1980				
	.362	.1379						

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(RELW04)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 4.392	BETA (1) = .012	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.390		.2169					
		.400				-.2817	.3622		.3603
		.402			.2545				
		.497	.1775						
		.550				.4123	.4001		
		.565			.3757				
		.600							.1948
		.650						.1995	
		.700	.3232				.1580		
		.725				.1090			
		.750						.2452	.2198
		.760			.0049				
		.775				.3609	.3207		
		.808			.0682				
		.834	-.2305						
		.850				-.0117	-.0495	-.0035	
		.857			-.1285				
		.865	-.1645						
		.900	-.2750			-.1853			-.1165
		.905			-.2810		-.1865		
		.950				-.3020		-.2074	
		.953			-.4067				
		.965	-.3774						

ARC11-014IA19 QTS+STRUT SRB-NOM MPS-NOM LWR WING

(REUW15) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.119 BETA (1) = -.006

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.0519	-.3531	-.5223	-.2544	-.9892
.040		.0935	-.0070				
.050	.0243			-.3782	-.5301	.0000	-.8608
.080				-.3292			
.081			-.0958				
.086		.0927					
.094	.0267						
.150				-.2163	-.2271	-.2620	-.3124
.163		.0488					
.177			.0000				
.229	.0289						
.246		-.0714					
.250				-.1076	-.1112	-.1600	-.2327
.274			-.0924				
.362	.0185						
.390		-.0517					
.400				-.0110	-.0521		-.2215
.402			-.0141				
.497	-.0358						
.550				-.0866	-.1639		
.565			-.0333				
.600							-.4063
.650						-.4372	
.700	-.0084				-.5045		
.725				-.5559			
.750						-.4240	-.3411
.760			-.6084				
.775				-.2547	-.2777		
.808			-.3988				
.834	-.5023						
.850				-.6066	-.6212	-.6558	
.857			-.5720				
.865	-.4686						
.900	-.4053			-.6788			-.8138
.905			-.4929		-.5863		
.950				-.4337		-.2977	
.953			-.4948				
.965	-.3776						

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ARC11-014IA19 OTS+STRUT SRB-NCM MPS-NCM LWR WING

(REM-05)

SECTION (1) LOWER WING

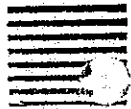
DEPENDENT VARIABLE CP

ALPHA (2) = -.306 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			-.0346	-.2897	-.4105	-.5406	-.6580
.040		-.0265	-.0571				
.060	-.1052			-.3275	-.4645	.0000	-.5912
.080				-.2847			
.081			-.1045				
.086		-.0198					
.094	-.0916			-.2097	-.2301	-.2103	-.2322
.150							
.163		-.0353					
.177			.0000				
.229	-.0774						
.246		-.0803					
.250				-.1160	-.1210	-.1386	-.2234
.274			-.1016				
.362	-.0545						
.390		-.0801					
.400				-.0555	-.0764		-.2537
.402			-.0607				
.497	-.0809						
.550				-.1434	-.1884		
.565			-.1116				
.600							-.4235
.650						-.4499	
.700	-.0872				-.5218		
.725				-.5717			
.750						-.4493	-.3613
.760			-.4246				
.775				-.0641	-.2934		
.808			-.3084				
.834	-.4388						
.850				-.4871	-.5928	-.6838	
.857			-.4684				
.865	-.4757						
.900	-.4497			-.6340			-.8352
.905			-.5304		-.5748		
.950				-.6793		-.3985	
.955			-.4657				
.965	-.4325						

ALPHA (2) = -.264 BETA (2) = .016

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.2028	-.0656	-.1040	-.1541	-.2227
.040		.1161	.1222				
.050	.0227			-.1489	-.2044	.0000	-.2861
.080				-.1466			
.081			.0166				
.086		.1279					
.094	.0306						



ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM LWR WING

(REU-05)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.264 BETA (2) = .016

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.150				-.0955	-.0906	-.1007	-.1512
.163		.1052					
.177			.0000				
.229	.0373						
.246		-.0025					
.250				-.0156	-.0209	-.0656	-.1532
.274			-.0129				
.362	.0586						
.390		.0129					
.400				.0371	-.0060		-.2063
.402			.0416				
.497	.0203						
.550				-.0640	-.1446		
.565			.0015				
.600							-.4053
.690						-.4309	
.700	.0288				-.4976		
.725				-.5401			
.750						-.4255	-.3307
.760			-.5959				
.775			-.2237	-.2599			
.808			-.3869				
.834	-.5217						
.850				-.6011	-.5851	-.6601	
.857			-.5977				
.865	-.4763						
.900	-.4137			-.6221			-.8259
.905			-.4401		-.5985		
.950				-.3971		-.2699	
.953			-.5039				
.965	-.3808						

ALPHA (2) = -.348 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.3601	.1770	.1681	.1496	.0641
.040		.2004	.2656				
.050	.1260			.0547	.0247	.0000	-.0624
.080				.0254			
.081			.1517				
.086		.2267					
.094	.1461						
.150				.0470	.0393	.0078	-.0632
.163		.2102					
.177			.0000				
.229	.1568						

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ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM LWR WING

(REU05)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.348 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		.1026					
.251				.1002	.0735	.0030	-.0968
.274			.0988				
.362	.1566						
.390		.1187					
.400				.1102	.0450		-.1785
.402			.1352				
.497	.1368						
.550				-.0330	-.1228		
.565			.0467				
.600							-.3862
.693						-.4191	
.700	.1310				-.4862		
.725				-.5312			
.750						-.4024	-.3217
.760			-.6242				
.775				-.1485	-.2096		
.808			-.3380				
.834	-.4923						
.850				-.5288	-.5745	-.6429	
.857			-.6087				
.865	-.4843						
.900	-.4219			-.4129			-.7888
.905			-.4550		-.5533		
.950				-.4117		-.3041	
.953			-.3881				
.965	-.3755						

ALPHA (3) = 3.924 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020				.3722	.2001	.1963	.2286
.040		.1300	.2546				.1910
.050	.0131			.0673	.0426	.0000	.0453
.080				.0290			
.081			.1432				
.086		.1732					
.094	.0376						
.150				.0189	.0402	.0410	-.0155
.163		.1766					
.177			.0000				
.229	.0616						
.246		.0798					
.250				.0663	.0598	.0218	-.0732
.274			.0669				
.362	.1046						

ARC11-0141A19 QTS+STRUT SRB-NOM MPB-NOM LWR WING

(REU-115)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.924	BETA (1) = .000	2Y/B %C	.299	.364	.427	.534	.641	.780	.887
		.390		.0809					
		.400				.0771	.0318		-.1725
		.402			.0977				
		.497	.0772						
		.550				-.0543	-.1286		
		.565			.0265				
		.600							-.3817
		.650						-.4107	
		.700	.0596				-.4798		
		.725				-.5221			
		.750						-.3901	-.3184
		.760				-.5737			
		.775					-.1443	-.2029	
		.808				-.3164			
		.834	-.5288						
		.850				-.5568	-.5542	-.5621	
		.857			-.2972				
		.865	-.4637						
		.900	-.4061			-.4057			-.7615
		.905				-.4516	-.3576		
		.950				-.4771		-.7145	
		.953				-.5278			
		.965	-.3874						

ORIGINAL PAGE IS
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ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM LWR WING

(REUW16) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.074 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020				.3340	-.0098	-.1349	-.5056
.040		.1641	.2438				
.050	-.1050			-.0584	-.1989	.0000	-.4050
.080				-.0732			
.081			.1510				
.086		.2252					
.094	-.0865						
.150				.0180	.0412	.0346	.0297
.163		.2251					
.177			.0000				
.229	.0379						
.246		.1364					
.250				.1241	.1180	.1013	.0521
.274			.1200				
.362	.1750						
.390		.1457					
.400				.1885	.1772		.0626
.402			.1809				
.497	.1475						
.550				.1423	.1029		
.565			.1651				
.600							-.0896
.650						-.1112	
.700	.1757				-.1754		
.725				-.2328			
.750						-.0974	-.0379
.760			-.3461				
.775				.0165	.0157		
.808			-.2731				
.834	-.4365						
.850				-.3632	-.3674	-.3138	
.857			-.4595				
.865	-.4279						
.900	-.5111			-.5616			-.4393
.905			-.6305		-.4677		
.950				-.6876		-.5512	
.953			-.4205				
.965	-.4549						

ARC11-014IA19 QTS+STRUT SRB-NOM MPS-NOM LWR WING

(REU216)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.396 BETA (1) = -4.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.1633	-.0082	-.1141	-.2108	-.3120
.040		.0669	.1330				
.050	-.2027			-.0627	-.1977	.0000	-.2588
.080				-.0922			
.081			.0800				
.086		.1066					
.094	-.1472						
.150				-.0248	-.0286	.0414	.0484
.163		.1084					
.177			.0000				
.229	-.0225						
.246		.0694					
.250				.0424	.0633	.0838	.0391
.274			.0460				
.362	.0719						
.390		.0526					
.400				.1204	.1321		.0247
.402			.0782				
.497	.0397						
.550				.0693	.0613		
.565			.0486				
.600							-.1213
.650						-.1408	
.700	.0358				-.2146		
.725				-.2851			
.750						-.1375	-.0709
.760			-.3786				
.775				-.0666	-.0405		
.808			-.2474				
.834	-.3825						
.850				-.3825	-.4013	-.3574	
.857			-.4643				
.865	-.5072						
.900	-.4659			-.5577			-.4680
.905				-.6233	-.5109		
.950				-.6709		-.5773	
.953			-.5175				
.965	-.4323						

ALPHA (2) = -.408 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.4785	.2523	.2093	.2128	.1678
.040		.2107	.3728				
.050	-.0845			.1378	.0990	.0000	.0841
.080				.1159			
.081			.2641				
.086		.2757					
.094	-.0592						

11-014IA19 QTS+STRUT SRB-NOM MPS-NOM LWR WING
 (REU216)
 SECTION (1) LOWER WING
 DEPENDENT VARIABLE CP
 ALPHA (2) = -.408 BETA (2) = .009
 2Y/B X/C
 .020 .4785 .2523 .2093 .2128 .1678
 .040 .2107 .3728
 .050 -.0845 .1378 .0990 .0000 .0841
 .080 .1159
 .081 .2641
 .086 .2757
 .094 -.0592

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

PAGE 456

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM LWR WING

(REUM16)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.408 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.150				.1411	.1562	.1821	.1528
.163		.2939					
.177			.0000				
.229	.0957						
.246		.2087		.2047	.2179	.2053	.1369
.250							
.274			.1993				
.362	.2219						
.390		.2139		.2522	.2367		.0874
.400							
.402			.2456				
.497	.2063						
.550				.1827	.1361		
.565			.2167				
.600							-.0710
.650						-.0928	
.700	.2195				-.1524		
.725				-.2038			
.750						-.0711	-.0128
.760			-.3065				
.775				.0568	.0408		
.808			-.2342				
.834	-.4042						
.850				-.3366	-.3448	-.2056	
.857			-.4305				
.865	-.3800						
.900	-.4948			-.5407			-.4375
.905			-.6069		-.4498		
.950				-.6714		-.5385	
.953			-.3656				
.965	-.3217						

ALPHA (2) = -.339 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020				.5940	.4369	.4152	.4225
.040		.3269		.4863			.3773
.050	.1484			.3133	.2846	.0000	.2561
.060				.2795			
.081			.3824				
.086		.3841					
.094	.1933						
.150				.2766	.2895	.2879	.2367
.163		.4014					
.177			.0000				
.229	.2734						

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM LWR WING

(REUW16)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CF

ALPHA (2) = -.339 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		.3190					
.251				.3206	.3129	.2627	.1995
.274			.3226				
.362	.3331						
.390		.3366					
.400				.3418	.3001		.1273
.402			.3640				
.497	.3339						
.550				.2375	.1740		
.565			.3053				
.600							-.0442
.650						-.0668	
.700	.3529				-.1273		
.725				-.1743			
.750						-.0318	-.0057
.760			-.2745				
.775				.1193	.0834		
.808			-.2110				
.834	-.4733						
.850				-.3112	-.3070	-.2805	
.857			-.4304				
.865	-.3405						
.900	-.5059			-.5234			-.3961
.905			-.5908		-.4113		
.950				-.6549		-.5161	
.953			-.5179				
.965	-.4192						

ALPHA (3) = 3.984 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020				.5823	.4520	.4588	.4928
.040		.2329	.4709				.4666
.050	.0231			.3225	.3212	.0000	.3425
.080				.2771			
.081			.3614				
.086		.3209					
.094	.0597						
.150				.2591	.2947	.3127	.2735
.163		.3570					
.177			.0000				
.229	.1517						
.246		.2739					
.250				.2926	.3087	.2938	.2175
.274			.2764				
.362	.2703						

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ARC11-014IA19 QTS+TRUT SRB-NOM MPS-NOM LWR WING

(REUWD6)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.984	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.390		.2792					
		.400				.3095	.2936		.1319
		.402			.3031				
		.497	.2677						
		.550				.2176	.1711		
		.565			.2506				
		.600							-.0484
		.650						-.0648	
		.700	.2601				-.1258		
		.725				-.1784			
		.750						-.0418	-.0108
		.760			-.2794				
		.775				.1083	.0806		
		.808			-.1985				
		.834	-.4130						
		.850				-.3075	-.3173	-.2862	
		.857			-.4179				
		.865	-.3730						
		.900	-.5189			-.5171			-.4029
		.905			-.5880		-.4275		
		.950				-.6499		-.5189	
		.953			-.6910				
		.965	-.4523						

ARC11-0141A19 OTS+STRUT SRB-NCM MPS-NCM LWR WING

(REL07) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = 0.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.131	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.0831	-.1144	-.1992	-.4364	-.5052
		.040		-.0110	.1275				
		.050	-.2200			-.2037	-.3553	.0000	-.5614
		.080				-.2114			
		.081			.0027				
		.086		.0043					
		.094	-.0688						
		.150				-.1499	-.2126	-.3945	-.4886
		.163		.0450					
		.177			.0000				
		.229	-.0304						
		.246		-.0181					
		.250				-.0388	-.0905	-.2311	-.4172
		.274			-.0145				
		.362	.0218						
		.390		.0340					
		.400				-.0501	-.0427		.0570
		.402		-.0069					
		.497	.0334						
		.550				.2187	.2077		
		.565			.1854				
		.600							.0901
		.650						.0452	
		.700	.1440				-.0248		
		.725				-.0807			
		.750						.1238	.1236
		.760		-.1865					
		.775			.1811	.1302			
		.800		-.1541					
		.834	-.3149						
		.850			-.2054	-.2130	-.1481		
		.857		-.3058					
		.865	-.2694						
		.900	-.3752			-.3797		-.2435	
		.905		-.4457		-.3149			
		.950			-.4941		-.3637		
		.953		-.5634					
		.965	-.3913						

ARC11-014IA19 QTS+STRUT SRB-NOM MPS-NOM LWR WING

(REV07)

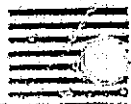
SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -3.00	BETA (1) = -4.000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.0780	-.0772	-.1310	-.2510	-.4088
		.040		-.1164	.0143				
		.050	-.1317			-.1117	-.2561	.0000	-.4495
		.080				-.1125			
		.081			-.0520				
		.086		-.0726					
		.094	-.1314						
		.150				-.1632	-.1953	-.2827	-.3707
		.165		-.0340					
		.177			.0000				
		.229	-.1736						
		.246		-.0429					
		.250				-.0729	-.1201	-.1675	-.2638
		.274			-.0325				
		.362	-.0755						
		.390		-.0166					
		.400				-.0526	-.1008		.1112
		.402			-.0250				
		.497	-.0188						
		.550				.1898	.1963		
		.565			.0846				
		.600							.0632
		.690						.0220	
		.700	.0477				-.0564		
		.725				-.1298			
		.750						.0835	.0862
		.760			-.2251				
		.775				.0954	.0908		
		.808			-.1601				
		.834	-.3007						
		.850				-.2262	-.2422	-.1779	
		.857			-.3203				
		.865	-.2756						
		.900	-.3460			-.3939			-.2776
		.905			-.4563		-.3457		
		.950				-.4985		-.3873	
		.953			-.5399				
		.965	-.3214						

ALPHA (2) = -.411 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.2981	.0946	.0718	-.0214	-.1991
.040		-.0002	.2031				
.050	-.0030			.0510	-.0749	.0000	-.2516
.080				.0345			
.081			.0923				
.086		.0335					
.094	-.0521						



ARC11-014IA19 QTS+STRUT SRB-NOM MPS-NOM LWR WING

(REU017)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.411	BETA (2) = .012	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.150				-.0102	-.0302	-.0916	-.1312
		.163		.1240					
		.177			.0000				
		.229	-.0261						
		.246		.0705					
		.250				.0496	.0024	.0097	.2688
		.274			.1012				
		.362	.0606						
		.390		.1364					
		.400				.2177	.3158		.2309
		.402			.1402				
		.497	.1244						
		.550				.2924	.2689		
		.565			.2784				
		.600							.0598
		.650						.0592	
		.700	.2366				.0089		
		.725				-.0413			
		.750						.1214	.1002
		.760			-.1419				
		.775				.2286	.1781		
		.800			-.0865				
		.834	-.2831						
		.850				-.1692	-.1906	-.1443	
		.857			-.2719				
		.865	-.2168						
		.900	-.3802			-.3497			-.2592
		.905			-.4250		-.3264		
		.950				-.4705		-.3565	
		.953			-.5461				
		.965	-.3976						

ALPHA (2) = -.438	BETA (3) = 4.031	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.4988	.3164	.2727	.3080	.3259
		.040		.1371	.3902				
		.050	.0060			.1891	.1088	.0000	.2451
		.080				.1360			
		.081			.3094				
		.086		.1690					
		.094	.0928						
		.150				.1619	.2716	.3207	.2939
		.163		.2757					
		.177			.0000				
		.229	.1307						

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ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM LWR WING

(REUMD7)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -0.438	BETA (3) = 4.031	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		.2473					
		.250				.3236	.3496	.3314	.2893
		.274			.2410				
		.362	.1964						
		.390		.2724					
		.400				.4054	.3927		.2403
		.402			.3821				
		.497	.2679			.3534	.3028		
		.550							
		.565			.3854				
		.600							.0910
		.650						.0770	
		.700	.3974				.0325		
		.725				-.0119			
		.750						.1604	.1382
		.760			-.1045				
		.775				.2872	.2181		
		.808			-.0494				
		.834	-.3286						
		.850				-.1422	-.1764	-.1231	
		.857			-.2650				
		.865	-.1714						
		.900	-.3595			-.3329			-.2380
		.905			-.4294		-.3179		
		.950				-.4593		-.3450	
		.953			-.5319				
		.965	-.4386						
ALPHA (3) = 3.582	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.4478	.3579	.3211	.4280	.4719
		.040		-.0308	.3506				
		.050	.0084			.2192	.1472	.0000	.3716
		.080				.1334			
		.081			.2690				
		.086		.0653					
		.094	-.0084						
		.150				.1455	.2675	.3583	.3418
		.163		.1759					
		.177			.0000				
		.229	-.0077						
		.246		.1769					
		.250				.3063	.3365	.3755	.3113
		.274			.2018				
		.362	.1081						

ARC11-014IA19 OTS+STRUT SRB-NOM MPS- ICM LVR WING

(REU-07)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.582	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.390		.2123					
		.400				.3638	.3757		.2409
		.402			.3230				
		.497	.1970						
		.550				.3243	.2922		
		.565			.3227				
		.600							.0865
		.650						.0779	
		.700	.3015				.0256		
		.725				-.0235			
		.750						.1518	.1380
		.760			-.1222				
		.775				.2583	.2063		
		.808			-.0534				
		.834	-.3043						
		.850				-.1478	-.1805	-.1286	
		.857			-.2647				
		.865	-.2150						
		.900	-.3805			-.3342			-.2441
		.905			-.4219		-.3175		
		.950				-.4600		-.3448	
		.953			-.5427				
		.965	-.4228						

ARC11-0141A19 OTS+STRUT SRB-NOM MPS-NOM LWR WING

(RELWIB) (19 OCT 74)

REFERENCE DATA

SREF = 2650.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BRFP = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.017	BETA (1) = .006	2Y/B %C	.299	.364	.427	.534	.641	.780	.887
		.020			.0579	-.1387	-.1370	-.3092	-.3579
		.040		.0097	.0095				
		.060	-.1253			-.1190	-.2545	.0000	-.4130
		.080				-.1079			
		.081			-.0640				
		.086		-.0037					
		.094	.0017						
		.150				-.1903	-.2444	-.3254	-.3697
		.163		-.0277					
		.177			.0000				
		.229	-.0037						
		.246		.0015					
		.250				-.1524	-.2193	-.2907	-.3265
		.274			-.0627				
		.362	-.0317						
		.390		.0074					
		.400				.0477	.0320		-.2576
		.402			.0755				
		.497	-.0019						
		.550				.2799	.3093		
		.565			.1824				
		.600							.1465
		.650						.1759	
		.700	.1614				.1106		
		.725				.0582			
		.750						.2178	.2785
		.760			-.0521				
		.775				.2667	.2307		
		.808		-.0318					
		.834	-.2452						
		.850				-.0639	-.0810	-.0025	
		.857			-.1777				
		.865	-.1356						
		.900	-.2773			-.2289			-.0742
		.905			-.3061		-.2135		
		.950				-.3391		-.2073	
		.953			-.4006				
		.965	-.3174						

ARC11-014IA19 OTS+STRUT SRB-NCM MPS-NCM LWR WING

(RELINDB)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.486 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.0589	-.0356	-.0963	-.2051	-.2879
.040		-.0929	.0471				
.050	-.0981			-.1586	-.2598	.0000	-.3475
.080				-.1916			
.081			-.0083				
.086		-.0879					
.094	-.0754						
.150				-.2289	-.2627	-.3042	-.2981
.163		-.0228					
.177			.0000				
.229	-.1293						
.246		-.0817					
.250				-.1277	-.1997	-.2539	-.2472
.274			-.0801				
.362	-.0305						
.390		-.0450					
.400				-.0057	-.0383		-.1010
.402			.0106				
.497	-.0437						
.550				.1804	.2259		
.565			.0843				
.600							.0779
.650						.1530	
.700	.0551				.0808		
.725				.0755			
.750						.1830	.2408
.760			-.1097				
.775				.1843	.2087		
.808			-.0567				
.834	-.1989						
.850				-.0989	-.1146	-.0369	
.857			-.1978				
.865	-.1774						
.900	-.2547			-.2536			-.1098
.905			-.3232		-.2452		
.950				-.3572		-.2349	
.953			-.4241				
.965	-.2798						

ALPHA (2) = -.438 BETA (2) = .016

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.1747	.1322	.0577	-.0050	-.1392
.040		.0002	.1134				
.050	-.0871			-.0017	-.1045	.0000	-.2049
.080				-.0591			
.081			.1690				
.086		.0372					
.094	.0153						

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM LWR WING

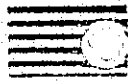
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SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.438	BETA (2) = .016	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.150				-.1098	-.1247	-.1630	-.1675
		.163		-.0014					
		.177			.0000				
		.229	.0378						
		.246		.0428					
		.250				-.0376	-.0958	-.0880	-.1165
		.274				-.0053			
		.362	.0200						
		.390		.0873					
		.400				.1109	.0782		.1698
		.402				.1767			
		.497	.0549						
		.550				.3721	.3698		
		.565				.2909			
		.600							.2250
		.650						.1921	
		.700	.2380				.1362		
		.725				.0828			
		.750						.2221	.2510
		.760				-.0228			
		.775				.3066	.2939		
		.808				.0145			
		.834	-.2349						
		.850				-.0386	-.0675	-.0004	
		.857				-.1566			
		.865	-.1110						
		.900	-.2707			-.2073			-.1115
		.905				-.2992	-.2085		
		.950				-.3215		-.2068	
		.953				-.4062			
		.965	-.3243						

ALPHA (2) = -.456	BETA (3) = 4.020	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.020				.4495	.2856	.2209	.1781	.0409
		.040		.1373		.3476				
		.050	.0206			.1562	.0361	.0000	-.0545	
		.080				.0746				
		.081				.2328				
		.086		.1743						
		.094	.0743							
		.150				-.0026	.0555	.0682	.0647	
		.163		.2515						
		.177				.0000				
		.229	.1418							



ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM LWR WING

(F 181)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.456 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		.1463					
.250				.2446	.1838	.1379	.3570
.274			.2206				
.362	.1938						
.390		.2492					
.400				.3554	.4401		.3577
.402			.3102				
.497	.2323						
.550				.4323	.4056		
.565			.4238				
.600							.2008
.650						.2024	
.700	.4007				.1611		
.725				.1175			
.750						.2358	.2311
.760			.0236				
.775				.3637	.3262		
.808			.0694				
.834	-.2188						
.850				-.0093	-.0462	.0049	
.857			-.1270				
.865	-.1457						
.900	-.2279			-.1853			-.1103
.905			-.2856		-.1895		
.950				-.3042		-.2034	
.953			-.4088				
.965	-.3555						

ALPHA (3) = 4.014 BETA (1) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.4295	.3095	.2785	.2979	.2933
.040		.0213	.3291				
.050	.0802			.1736	.1019	.0000	.1697
.080				.0796			
.081			.2039				
.086		.0315					
.094	.0473						
.150				.0516	.1379	.1827	.1741
.163		.1103					
.177			.0000				
.229	.0612						
.246		.0804					
.250				.2672	.1867	.1535	.2230
.274			.1791				
.362	.1226						

ARC11-014IA19 QTS+STRUT SRB-NOM MPS-NOM LWR WING

(REUM78)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CF

ALPHA (3) = 4.014	BETA (1) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.390		.1998					
		.400				.2625	.3440		.3585
		.402			.2502				
		.497	.1667			.4032	.3899		
		.550							
		.565			.3718				
		.600							.1880
		.650						.1931	
		.700	.3182				.1504		
		.725				.1003			
		.750						.2238	.2130
		.760			-.0022				
		.775				.3373	.3098		
		.808				.0606			
		.834	-.2133						
		.850				-.0192	-.0563	-.0102	
		.857				-.1348			
		.865	-.1159						
		.900	-.2642			-.1923			-.1234
		.915				-.2863	-.1952		
		.950				-.3070		-.2149	
		.953				-.4053			
		.965	-.3371						

ARC11-014TA19 OTS+STRUT SRB-LCW MPS-NOM LWR WING

(REUJ19) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.191 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.0419	-.3656	-.5424	-.8638	-1.0095
.040		.0852	-.0182				
.050	.0178			-.3933	-.5544	.0000	-.8817
.080				-.3456			
.081			-.1094				
.086		.0852					
.094	.0174						
.150				-.2201	-.2289	-.2693	-.3319
.163		.0426					
.177			.0000				
.229	.0176						
.246		-.0801					
.250				-.1115	-.1181	-.1718	-.2420
.274			-.1034				
.362	.0102						
.390		-.0649					
.400				-.0184	-.0582		-.2296
.402			-.0228				
.497	-.0452						
.550				-.0947	-.1694		
.565		-.0451					
.600							-.4167
.650						-.4482	
.700	-.0184			-.5150			
.725				-.5644			
.750						-.4412	-.3531
.760			-.6237				
.775				-.2481	-.2776		
.808		-.3935					
.834	-.4684						
.850				-.5859	-.5849	-.6671	
.857			-.5212				
.865	-.4302						
.900	-.3864			-.5045			-.7964
.905			-.5018		-.5697		
.950				-.4831		-.2529	
.953			-.5006				
.965	-.3684						

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ARC11-014IA19 OTS+STRUT SRB-LCW MPS-NOM LWR WING

(RELX09)

SECTION (1) LOWER WING

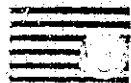
DEPENDENT VARIABLE CP

ALPHA (2) = -.438 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			-.0413	-.3022	-.4315	-.5549	-.6805
.040		-.0340	-.0638				
.050	-.1105			-.3400	-.4714	.0000	-.6759
.080				-.2927			
.081			-.1196				
.086		-.0302					
.094	-.0970						
.150				-.2116	-.2354	-.2262	-.2532
.163		-.0457					
.177			.0000				
.229	-.0855						
.246		-.0892					
.250				-.1235	-.1262	-.1512	-.2369
.274			-.1075				
.362	-.0615						
.390		-.0926					
.400				-.0593	-.0821		-.2446
.402			-.0689				
.497	-.0911						
.550				-.1465	-.1944		
.565			-.1224				
.600							-.4393
.650						-.4646	
.700	-.0952				-.5333		
.725				-.5626			
.750						-.4811	-.3755
.760			-.4103				
.775				.0251	-.2761		
.808			-.2967				
.834	-.4151						
.850				-.4631	-.5352	-.6948	
.857			-.4530				
.865	-.4403						
.900	-.4347			-.6280			-.8494
.905			-.5195		-.5541		
.950				-.6592		-.3420	
.953			-.4502				
.965	-.4137						

ALPHA (2) = -.525 BETA (2) = -.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.2183	-.0493	-.0935	-.1325	-.2167
.040		.1275	.1277				
.050	.0252			-.1410	-.1901	.0000	-.2823
.080				-.1359			
.081			.0265				
.086		.1418					
.094	.0338						



ARC11-0141A19 OTS+STRUT SRB-LOW MPS-NOM LWR WING

(REU-09)

SECTION (1) LOWER -ING

DEPENDENT VARIABLE CP

ALPHA (2) = -.525 BETA (2) = -.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.150					-.0896	-.0790	-.0895
.163		.1149					-.1546
.177			.0000				
.229	.0404						
.246		.0145					
.257				-.0102	-.0121	-.0574	-.1451
.274			.0002				
.362	.0606						
.390		.0269					
.400				.0412	.0002		-.1976
.402			.0555				
.497	.0246						
.550				-.0593	-.1371		
.565			.0117				
.600							-.4006
.650						-.4250	
.700	.0364				-.4874		
.725				-.5359			
.750						-.4331	-.3223
.760			-.5972				
.775				-.1847	-.2346		
.808			-.2952				
.834	-.4677						
.850				-.5831	-.5297	-.6309	
.857			-.3708				
.865	-.4255						
.900	-.3723			-.4275			-.8254
.905				-.4514	-.3075		
.950				-.4511		-.1769	
.953			-.4810				
.965	-.3476						

ALPHA (2) = -.441 BETA (3) = 4.025

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.3844	.2004	.1825	.1687	.0839
.040		.2144	.2824				
.050	.1308			.0798	.0455	.0000	-.0414
.080				.0456			
.081			.1723				
.086		.2390					
.094	.1499						
.150				.0598	.0596	.0334	-.0412
.163		.2229					
.177			.0000				
.229	.1632						

ARC11-014IA19 OTS+STRUT SRB-LOW MPS-NCM LWR WING

(REUM09)

SECTION (1) LOWER WING

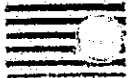
DEPENDENT VARIABLE CP

ALPHA (2) = -.441 BETA (3) = 4.025

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		.1264					
.250				.1096	.0868	.0271	-.0749
.274			.1159				
.362	.1616						
.390		.1422					
.400				.1185	.0588		-.1480
.402			.1547				
.497	.1426						
.550				-.0179	-.1021		
.565			.0690				
.600							-.3542
.650						-.3925	
.700	.1416				-.4636		
.725				-.5131			
.750						-.3842	-.2906
.760			-.5971				
.775			-.1247	-.1816			
.808			-.2801				
.834	-.4584						
.850				-.5343	-.5125	-.5707	
.857			-.3232				
.865	-.4459						
.900	-.4138			-.4076			-.7777
.905			-.4675		-.2790		
.950				-.4211		-.2262	
.953			-.3738				
.965	-.3771						

ALPHA (3) = 4.050 BETA (1) = .006

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.3804	.2082	.2057	.2477	.2013
.040		.1401	.2665				
.050	.0198			.0751	.0574	.0000	.0575
.080				.0312			
.081			.1544				
.086		.1830					
.094	.0437						
.150				.0275	.0566	.0565	-.0091
.163		.1854					
.177			.0000				
.229	.0719						
.246		.0902					
.250				.0729	.0766	.0394	-.0642
.274			.0751				
.362	.1116						



DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

PAGE 473

ARC11-014IA19 OTS+STRUT SRB-LOW MPS-NOM LWR WING

(REUM19)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 4.000 BETA (1) = .006

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.390		.0882					
.400				.0895	.0449		-.1651
.402			.1050				
.497	.0822						
.550				-.0404	-.1154		
.565			.0340				
.600							-.3730
.650						-.4009	
.700	-.0694				-.4633		
.725				-.5065			
.750						-.3991	-.3047
.760			-.5683				
.775				-.1040	-.1608		
.808			-.2339				
.834	-.4830						
.850				-.3224	-.4064	-.5463	
.857			-.2797				
.865	-.4021						
.900	-.3559			-.4277			-.7529
.915			-.4633		-.3798		
.950				-.5174		-.6152	
.953			-.5159				
.965	-.3446						

ARC11-014IA19 OTS+STRUT SRB-LCW MPS-NOM LWR WING

(REMOVED) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -3.978 BETA (1) = -.006

2Y/B X/C	.299	.364	.427	.534	.641	.700	.887
.020			.3343	-.0038	-.1264	-.3041	-.4900
.040		.1573	.2455				
.050	-.1042			-.0544	-.1967	.0000	-.4155
.060				-.0728			
.081			.1499				
.086		.2233					
.094	-.0859						
.150				.0220	.0441	.0389	.0341
.163		.2260					
.177			.0000				
.229	.0379						
.246		.1370					
.250				.1267	.1224	.1021	.0539
.274			.1199				
.362	.1763						
.390		.1455					
.400				.1909	.1736		.0637
.402			.1795				
.497	.1481						
.550				.1442	.1038		
.565			.1648				
.600							-.0896
.650						-.1103	
.700	.1760				-.1729		
.725				-.2318			
.750						-.0976	-.0361
.760			-.3447				
.775				.0191	.0165		
.808			-.2756				
.834	-.4472						
.850				-.3616	-.3672	-.3123	
.857			-.4619				
.865	-.4367						
.900	-.5292			-.5629			-.4247
.905			-.6325		-.4661		
.950				-.6897		-.5507	
.973			-.4899				
.985	-.4825						

ARC11-0141A19 OTS+STRUT SRB-LOW MPS-NOM LWR WING

(REUW10)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.387 BETA (1) = -4.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.1639	-.0049	-.1108	-.2094	-.3208
.040		.0701	.1313				
.050	-.2021			-.0625	-.1951	.0000	-.2696
.080				-.0913			
.081			.0826				
.086		.1075					
.094	-.1475						
.150				-.0262	-.0265	.0426	.0451
.163		.1106					
.177			.0000				
.229	-.0221						
.246		.0696					
.290				.0447	.0633	.0856	.0406
.274			.0912				
.362	.0723						
.390		.0514					
.400				.1208	.1324		.0271
.402			.0770				
.497	.0417						
.590				.0710	.0625		
.565			.0916				
.600							-.1209
.650						-.1396	
.700	.0365				-.2148		
.725				-.2870			
.790						-.1376	-.0696
.760			-.3844				
.775				-.0660	-.0421		
.808			-.2560				
.834	-.3985						
.890				-.3877	-.4020	-.3519	
.857			-.4727				
.865	-.5272						
.900	-.4943			-.5653			-.4267
.905				-.6362	-.5134		
.950				-.6777		-.5779	
.953			-.6010				
.965	-.4544						

ALPHA (2) = -.429 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.4768	.2463	.2146	.2103	.1677
.040		.2137	.3694				
.050	-.0844			.1378	.0967	.0000	.0848
.080				.1144			
.081			.2617				
.086		.2785					
.094	-.0580						

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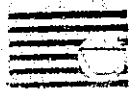
ARC11-014IA19 QTS+STRUT SRB-LCW MPS-NOM LWR WING

(REUW10)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) =	BETA (2) =	2Y/B	.299	.364	.427	.534	.641	.780	.887
	.009	X/C							
		.150				.1430	.1566	.1833	.1524
		.163		.2960					
		.177			.0000				
		.229	.0973						
		.246		.2069					
		.250			.2029	.2181	.2058	.1355	
		.274			.1987				
		.362	.2250						
		.390		.2114					
		.400				.2534	.2362	.0881	
		.402			.2437				
		.497	.2073						
		.550				.1833	.1345		
		.565			.2145				
		.600							-.0711
		.650						-.0926	
		.700	.2218				-.1509		
		.725			-.2030				
		.750						-.0716	-.0142
		.760			-.3047				
		.775				.0575	.0417		
		.808			-.2350				
		.834	-.4130						
		.850				-.3343	-.3441	-.3043	
		.857			-.4345				
		.865	-.3936						
		.900	-.5144			-.5388			-.4105
		.905			-.6083		-.4480		
		.950				-.6707		-.5369	
		.953			-.4351				
		.965	-.4247						
ALPHA (2) =	BETA (3) =	2Y/B	.299	.364	.427	.534	.641	.780	.887
-.384	4.028	X/C							
		.020			.5952	.4362	.4165	.4184	.3750
		.040		.3235	.4855				
		.050	.1471			.3119	.2814	.0000	.2530
		.080				.2779			
		.081			.3820				
		.086		.3809					
		.094	.1919						
		.150				.2746	.2849	.2840	.2330
		.163		.3990					
		.177			.0000				
		.229	.2709						



ARC11-014IA19 OTS+STRUT SRB-LOW MPS-NOM LWR WING

(RELW10)

SECTION (1) LOWER WING		DEPENDENT VARIABLE CP									
ALPHA (2) =	- .384	BETA (3) =	4.026	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.246		.3186					
				.250				.3189	.3113	.2809	.1967
				.274			.3222				
				.352	.3293						
				.390		.3361					
				.400				.3365	.2978		.1240
				.402			.3643				
				.497	.3303						
				.550				.2343	.1719		
				.565			.3035				
				.600							-.0464
				.650						-.0683	
				.700	.3485				-.1280		
				.725				-.1754			
				.750						-.0337	-.0078
				.760			-.2748				
				.775				.1192	.0820		
				.808			-.2124				
				.834	-.4865						
				.850				-.3120	-.3070	-.2818	
				.857			-.4357				
				.865	-.3578						
				.900	-.5159			-.5242			-.3910
				.905			-.5999		-.4134		
				.950				-.6553		-.5160	
				.953			-.6458				
				.965	-.4420						
ALPHA (3) =	3.930	BETA (1) =	.000	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.020				.5848	.4525	.4579	.4931
				.040		.2320		.4724			.4659
				.050	.0250			.3253	.3186	.0000	.3425
				.080				.2793			
				.091			.3640				
				.086		.3223					
				.094	.0612						
				.150				.2591	.2944	.3118	.2747
				.163		.3582					
				.177			.0000				
				.229	.1520						
				.246		.2762					
				.250				.2914	.3070	.2905	.2173
				.274				.2770			
				.362	.2725						

ARC11-0141A19 QTS+STRUT SRB-LCW MPS-NCM LWR WING

(REUW10)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.930	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.390		.2810					
		.400				.3065	.2912		.1304
		.402			.3042				
		.497	.2659						
		.550				.2135	.1697		
		.565			.2501				
		.600							-.0474
		.650						-.0649	
		.700	.2598				-.1266		
		.725				-.1790			
		.750						-.0426	-.0108
		.760				-.2801			
		.775					.1082	.0780	
		.808				-.1986			
		.834	-.4302						
		.850				-.3082	-.3165	-.2856	
		.857				-.4229			
		.865	-.3876						
		.900	-.5371			-.5171			-.4145
		.905				-.5959	-.4269		
		.920				-.6497		-.5176	
		.953				-.7110			
		.965	-.4983						

ARC11-0141A19 QTS+STRUT SRB-LOW MPS-NOM LWR WING

(REUW11) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.746	BETA (1) = .006	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.1410	-.1314	-.2336	-.4749	-.5348
		.040		-.0154	.1070				
		.060	-.2365			-.2177	-.3783	.0000	-.5899
		.080				-.2188			
		.081			.0002				
		.086		.0049					
		.094	-.0779						
		.150				-.1750	-.2403	-.4110	-.5240
		.163		.0559					
		.177			.0000				
		.229	-.0348						
		.246		-.0089					
		.250				-.0590	-.0976	-.2676	-.4612
		.274			-.0275				
		.362	.0224						
		.390		.0284					
		.400				-.0571	-.0684		.0098
		.402			-.0199				
		.497	.0297						
		.550				.2023	.1911		
		.565			.1689				
		.600							.0782
		.650						.0343	
		.700	.1317				-.0399		
		.725				-.0951			
		.750						.1088	.1187
		.760			-.2108				
		.775				.2401	.1495		
		.808			-.1327				
		.834	-.3360						
		.850				-.1996	-.1944	-.1561	
		.857			-.3011				
		.865	-.2678						
		.900	-.3822			-.3725			-.2500
		.905			-.4416		-.3129		
		.950				-.4939		-.3728	
		.953			-.5665				
		.965	-.4105						

ARC11-014IA19 QTS+STRUT SRB-LOW MPS-NOM LWR WING

(REUM11)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) =	BETA (1) =	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.0784	-.0598	-.1378	-.2544	-.4057
		.040		-.1192	.0138				
		.050	-.1367			-.1074	-.2658	.0000	-.4589
		.080				-.1322			
		.081			-.0482				
		.086		-.0737					
		.094	-.1363						
		.150				-.1685	-.2050	-.2851	-.3742
		.163		-.0360					
		.177			.0000				
		.229	-.1809						
		.246		-.0403					
		.250				-.0804	-.1287	-.1706	-.2632
		.274			-.0415				
		.362	-.0777						
		.390		-.0199					
		.400				-.0451	-.0706		.1507
		.402			-.0221				
		.497	-.0203						
		.550				.1838	.1882		
		.565			.0864				
		.600							.0549
		.650						.0198	
		.700	.0475				-.0612		
		.725				-.1348			
		.750						.0722	.0803
		.760			-.2441				
		.775				.1799	.1267		
		.808			-.1367				
		.834	-.3144						
		.850				-.2165	-.2214	-.1826	
		.857			-.3146				
		.865	-.2697						
		.900	-.3588			-.3845			-.3065
		.905			-.4557		-.3463		
		.950				-.4960		-.3925	
		.953			-.5467				
		.965	-.3437						
ALPHA (2) =	BETA (2) =	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.2965	.1221	.0620	-.0348	-.2029
		.040		-.0044	.2058				
		.050	-.0070			.0699	-.0845	.0000	-.2607
		.080				.0048			
		.081			.1028				
		.086		.0353					
		.094	-.0595						

ARC11-014TA19 OTS+STRUT SRB-LOW NPS-NOM LWR WING (RELM11)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.402 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.150				-.0176	-.0461	-.0999	-.1175
.163		.1261					
.177			.0000				
.229	-.0332						
.246		.0836					
.250				.0435	.0008	.0888	.2664
.274			.0834				
.362	.0592						
.390		.1245					
.400				.2527	.3205		.2153
.402			.1466				
.497	.1246						
.550				.2889	.2627		
.565			.2738				
.600							.0488
.650						.0488	
.700	.2392				-.0012		
.725				-.0514			
.750						.1054	.0899
.760			-.1695				
.775				.3207	.2137		
.808			-.0678				
.834	-.2946						
.850				-.1584	-.1899	-.1551	
.857			-.2660				
.865	-.2096						
.900	-.3824			-.3404			-.2676
.905			-.4249		-.3293		
.950				-.4670		-.3678	
.953			-.5514				
.965	-.4174						

ALPHA (2) = -.324 BETA (3) = 4.034

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.5117	.3384	.2860	.3512	.3568
.040		.1419	.4087				
.050	.0423			.2093	.1323	.0000	.2737
.080				.1438			
.081			.3151				
.086		.1725					
.094	.1038						
.150				.1841	.2878	.3293	.3038
.163		.2799					
.177			.0000				
.229	.1351						

ARC11-014IA19 OTS+STRUT SRB-LCW MFS-NOM LWR WING

(REUM11)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.324 BETA (3) = 4.034

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		.2464					
.250				.3332	.3551	.3613	.2948
.274			.2700				
.362	.2087						
.390		.2938					
.400				.4084	.3921		.2418
.402			.3916				
.497	.2779						
.550				.3544	.3013		
.565		.3894					
.600							.0925
.650						.0781	
.700	.4033				.0293		
.725				-.0123			
.750						.1580	.1418
.760			-.1232				
.775				.3943	.2623		
.808			-.0075				
.834	-.3269						
.840				-.1207	-.1413	-.1221	
.857			-.2398				
.865	-.1533						
.900	-.3439			-.3120			-.2422
.905				-.4174	-.3077		
.950				-.4467		-.3464	
.953				-.5195			
.965	-.4402						

ALPHA (3) = 3.552 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.4692	.3598	.3345	.4531	.4861
.040		-.0305	.3682				
.050	.0075			.2178	.1661	.0000	.3832
.080				.1330			
.081			.2748				
.086		.0748					
.094	-.0100						
.120				.1632	.2983	.3598	.3455
.163		.1845					
.177			.0000				
.229	-.0074						
.246		.1884					
.250				.3103	.3417	.3764	.3111
.274			.2152				
.362	.1183						

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TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 QTS+STRUT SRB-LOW MPS-NOM LWR WING (REUW11)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.552 BETA (1) = .003

2Y/B Y/C	.299	.364	.427	.534	.641	.780	.887
.390		.2252					
.400				.3657	.3758		.2401
.402			.3205				
.497	.2044						
.550				.3228	.2902		
.565			3273				
.600							.0825
.650						.0736	
.700	.3054				.0226		
.725				-.0262			
.750						.1423	.1260
.760			-.1442				
.775				.3659	.2558		
.808			-.0243				
.834	-.3078						
.850				-.1283	-.1574	-.1317	
.857			-.2381				
.865	-.2002						
.900	-.3734			-.3181			-.2444
.905			-.4213		-.3104		
.950				-.4510		-.3481	
.953			-.5354				
.965	-.4439						

ARC11-014IA19 QTS+STRUT SRB-LCW MPS-NOM LWR WING

(REUW12) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

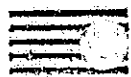
PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.122	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.0551	-.1405	-.1413	-.3173	-.3631
		.040		.0086	.0079				
		.050	-.1277			-.1225	-.2581	.0000	-.4188
		.080				-.1091			
		.081			-.0675				
		.086		-.0088					
		.094	.0104						
		.150				-.1935	-.2474	-.3302	-.3778
		.163		-.0295					
		.177			.0000				
		.229	-.0066						
		.246		.0000					
		.250				-.1546	-.2224	-.2904	-.3319
		.274			-.0675				
		.362	-.0337						
		.390		.0066					
		.400				.0454	.0324		-.2634
		.402			.0712				
		.497	-.0026						
		.550				.2733	.3056		
		.565			.1804				
		.600							.1415
		.650						.1721	
		.700	.1588				.1101		
		.725				.0568			
		.750						.1992	.2784
		.760			-.0532				
		.775				.2675	.2311		
		.808			-.0342				
		.834	-.2693						
		.850				-.0650	-.0848	-.0034	
		.857			-.1857				
		.865	-.1512						
		.900	-.2959			-.2314			-.0700
		.905			-.3160		-.2150		
		.950				-.3417		-.2094	
		.953			-.4185				
		.965	-.3477						



ARC11-014TA19 OTS+STRUT SRB-LOW MPS-NOM LWR WING

(REUM12)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.396 BETA (1) = -4.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.0615	-.0288	-.0905	-.1970	-.2847
.040		-.0886	.0511				
.060	-.0964			-.1341	-.2580	.0000	-.3392
.080				-.1869			
.081			-.0367				
.086		-.0854					
.094	-.0756						
.150				-.2320	-.2605	-.3005	-.2952
.163		-.0214					
.177			.0000				
.229	-.1294						
.246		-.0811					
.250				-.1341	-.2059	-.2548	-.2455
.274			-.0784				
.362	-.0279						
.390		-.0443					
.400				-.0012	-.0016		-.0960
.402			.0185				
.497	-.0381						
.550				.1751	.2439		
.565			.0899				
.600							.0975
.650						.1519	
.700	.0582				.0844		
.725				.0092			
.750						.1618	.2420
.760			-.1147				
.775				.1854	.2126		
.808			-.0618				
.834	-.2029						
.850				-.0980	-.1094	-.0317	
.857			-.2008				
.865	-.1914						
.900	-.2807			-.2526			-.1051
.905			-.3260		-.2412		
.950				-.3548		-.2293	
.953			-.4291				
.965	-.3010						

ALPHA (2) = -.378 BETA (2) = .006

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.1753	.1400	.0616	.0056	-.1352
.040		.0041	.1149				
.050	-.0818			.0030	-.1008	.0000	-.1996
.080				-.0537			
.081			.1753				
.086		.0426					
.094	.0164						

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ARC11-014IA19 QTS+STRUT SRB-LCW MPS-NCM LWR WING

(REUW12)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.378	BETA (2) = .006	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.150				-.1067	-.1211	-.1582	-.1566
		.163		.0021					
		.177			.0000				
		.229	.0400						
		.246		.0454					
		.250				-.0342	-.0930	-.0909	-.1088
		.274			-.0073				
		.362	.0217						
		.390		.0842					
		.400				.1195	.0821		.1887
		.402			.1790				
		.497	.0590						
		.550				.3745	.3752		
		.565			.2905				
		.600							.2269
		.650						.1961	
		.700	.2390				.1396		
		.725				.0865			
		.750						.2079	.2538
		.760			-.0198				
		.775				.3114	.2970		
		.808			.0189				
		.834	-.2488						
		.850				-.0358	-.0636	.0037	
		.857			-.1560				
		.865	-.1298						
		.900	-.2773			-.2046			-.1084
		.915			-.3008		-.2060		
		.950				-.3189		-.2047	
		.953			-.4093				
		.965	-.3445						

ALPHA (2) = -.315	BETA (3) = 4.025	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.4601	.2923	.2295	.1890	.0545
		.040		.1393	.3570				
		.050	.0271			.1656	.0476	.0000	-.0404
		.080				.0825			
		.081			.2412				
		.086		.1795					
		.094	.0796						
		.150				.0058	.0671	.0859	.0843
		.163		.2552					
		.177			.0000				
		.229	.1500						

ARC11-014IA19 OTS+STRUT SRB-LOW MPS-NOM LWR WING

(REUW12)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.315 BETA (3) = 4.025	2Y/B Y/C	.299	.364	.427	.534	.641	.780	.887
	.246		.1519					
	.250				.2516	.1855	.1427	.3594
	.274			.2313				
	.362	.2016						
	.390		.2580					
	.400				.3672	.4452		.3638
	.402			.3132				
	.497	.2387						
	.550				.4394	.4116		
	.565			.4305				
	.600							.2066
	.650						.2081	
	.700	.4080				.1666		
	.725				.1230			
	.750						.2301	.2376
	.760			.0274				
	.775				.3711	.3320		
	.808			.0773				
	.834	-.2152						
	.850				-.0033	-.0407	.0101	
	.857			-.1209				
	.865	-.1499						
	.900	-.2371			-.1796			-.1038
	.905			-.2793		-.1838		
	.950				-.2986		-.1974	
	.953			-.4040				
	.965	-.3585						
ALPHA (3) = 4.005 BETA (1) = .000	2Y/B Y/C	.299	.364	.427	.534	.641	.780	.887
	.020			.4150	.3071	.2782	.2824	.2901
	.040		.0200	.3277				
	.050	.0610			.1728	.0956	.0000	.1680
	.080				.0804			
	.081			.2083				
	.086		.0299					
	.094	.0545						
	.130				.0466	.1843	.1771	.1732
	.163		.1128					
	.177			.0000				
	.229	.0594						
	.246		.0719					
	.250				.2597	.1852	.1510	.2198
	.274			.1819				
	.362	.1296						

ARC11-014IA19 QTS+STRUT SRB-LCW MPS-NOM LWR WING

(REUW12)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 4.005	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.390		.1988					
		.400				.2686	.3574		.3562
		.492			.2499				
		.497	.1713						
		.550				.4041	.3900		
		.565			.3701				
		.600							.1857
		.650						.1914	
		.700	.3168				.1491		
		.725				.0987			
		.750						.2146	.2124
		.760			-.0029				
		.775				.3377	.3100		
		.808				.0581			
		.834	-.2269						
		.850				-.0204	-.0801	-.0121	
		.857			-.1379				
		.865	-.1353						
		.900	-.2744			-.1943			-.1269
		.905			-.2907		-.1979		
		.950				-.3108		-.2182	
		.953			-.4128				
		.965	-.3575						

ARC11-0141A19 OTS+STRUT SRB-NOM MPS-OFF LWR WING

(RELW13) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.0000 ELV-CB = 4.0000
 RUDDER = .0000 MACH = .9000
 GIMBAL = 1.0000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.119	BETA (1) = -.003	2Y/B	.299	.554	.427	.534	.641	.780	.887
		Y/C							
		.020			.0395	-.3817	-.5433	-.8656	-1.0183
		.040		.0820	-.0221				
		.050	.0156			-.3957	-.5589	.0000	-.8841
		.080				-.3481			
		.081			-.1097				
		.086		.0804					
		.094	.0186						
		.150				-.2175	-.2374	-.2811	-.3333
		.163		.0332					
		.177			.0000				
		.229	.0212						
		.246		-.0866					
		.250				-.1087	-.1278	-.1797	-.2538
		.274			-.1079				
		.362	.0114						
		.390		-.0698					
		.400				-.0168	-.0666		-.2402
		.402			-.0287				
		.497	-.0444						
		.550				-.0977	-.1785		
		.565			-.0472				
		.600							-.4268
		.650						-.4579	
		.700	-.0163				.0000		
		.725				-.5688			
		.750						-.4557	-.3608
		.760			-.6045				
		.775				-.2289	-.2931		
		.808			-.3712				
		.834	-.4390						
		.850				-.4126	-.5620	-.6719	
		.857			-.4336				
		.865	-.4151						
		.900	-.3770			-.4809			-.3236
		.905			-.4934		-.3962		
		.950				-.4308		-.1969	
		.953			-.4330				
		.965	-.3387						

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ARC11-014IA19 OTS+STRUT SRB-NOM MPS-OFF LWR WING

(RELW13)

SECTION (1) LOWER WING

DEPENDENT VARIABLE C_p

ALPHA (2) = -.390 BETA (1) = -3.997

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			-.0412	-.3096	-.4307	-.5533	-.6980
.040		-.0309	-.0674				
.050	-.1071			.3917	-.4753	.0000	-.6159
.080				-.3119			
.081			-.1220				
.086		-.0267					
.094	-.0940						
.150				-.2205	-.2363	-.2325	-.2565
.163		-.0462					
.177			.0000				
.229	-.0820						
.246		-.0944					
.250				-.1240	-.1292	-.1600	-.2472
.274			-.1117				
.362	-.0599						
.390		-.0950					
.400				-.0618	-.0850		-.2594
.402			-.0771				
.497	-.0872						
.550				-.1503	-.2016		
.565			-.1286				
.600							-.4514
.650						-.4751	
.700	-.0939				-.5381		
.725				-.5530			
.750						-.4866	-.3888
.760			-.4005				
.775				.0594	-.2465		
.808			-.3039				
.834	-.3871						
.850				-.4287	-.4670	-.6988	
.857			-.4521				
.865	-.4255						
.900	-.3992			-.6061			-.7116
.905			-.5030		-.4901		
.950				-.5508		-.2668	
.953			-.3957				
.965	-.3527						

ALPHA (2) = -.348 BETA (2) = .016

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.2153	-.0569	-.0960	-.1490	-.2194
.040		.1266	.1328				
.050	.0271			-.1421	-.1987	.0000	-.2767
.080				-.1335			
.081			.0240				
.086		.1382					
.094	.0362						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11- 14)

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ARC11-014IA19 OTS+STRUT SRB-NCM MPS-OFF LWR WING

(REUM13)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = - .378	BETA (2) = .016	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.150					-.0874	-.0842	-.0909	-.1484
		.163		.1154						
		.177			.0000					
		.229	.0403							
		.246		.0053						
		.250				-.0092	-.0157	-.0589		-.1468
		.274			-.0051					
		.362	.0632							
		.390		.0205						
		.400				.0445	.0000			-.1967
		.402			.0498					
		.497	.0263							
		.550				-.0577	-.1348			
		.565			.0079					
		.600								-.3968
		.650								-.4227
		.700	.0381				-.4853			
		.725				-.5304				
		.750						-.4259		-.3187
		.760			-.5726					
		.775				-.1894	-.2413			
		.808			-.3052					
		.834	-.4507							
		.850				-.5594	-.5160			-.6463
		.857			-.3471					
		.865	-.4129							
		.900	-.3760			-.4078				-.7912
		.905			-.4426		-.3613			
		.950				-.4314		-.1845		
		.953			-.4180					
		.965	-.3303							

ALPHA (2) = - .327 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
.020				.3634	.1727	.1683	.1394	.0595
.040		.2085	.2638					
.090	.1275			.0532	.0285	.0000	-.0683	
.080				.0213				
.081			.1531					
.086		.2287						
.094	.1543							
.150				.0464	.0451	.0066	-.0655	
.163		.2124						
.177			.0000					
.229	.1624							

ARC11-014IA19 OTS+STRUT SRB-NCM MPS-OFF LWR WING

(REUM13)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.327	BETA (3) = 4.028	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.246		.1016					
		.250				.0974	.0719	.0010	-.1013
		.274			.0977				
		.362	.1587						
		.390		.1190					
		.400				.1040	.0427		-.1826
		.402			.1367				
		.497	.1376						
		.550				-.0359	-.1212		
		.565			.0464				
		.600							-.3916
		.650						-.4250	
		.700	.1316				-.4848		
		.725				-.5294			
		.750						-.4133	-.3234
		.760			-.6035				
		.775				-.0385	-.1834		
		.808			-.3056				
		.834	-.4414						
		.850				-.2919	-.5208	-.5948	
		.857			-.3514				
		.865	-.4022						
		.900	-.3960			-.4751			-.7557
		.905			-.4920		-.2926		
		.950				-.2521		-.2170	
		.953			-.2754				
		.965	-.3220						
ALPHA (3) = 3.909	BETA (1) = .000	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.020			.3629	.1732	.1919	.2166	.1702
		.040		.1279	.2452				
		.050	.0072			.0452	.0355	.0000	.0281
		.080				.0066			
		.081			.1280				
		.086		.1683					
		.094	.0327						
		.150				.0190	.0367	.0253	-.0325
		.163		.1683					
		.177			.0000				
		.229	.0599						
		.246		.0727					
		.250				.0658	.0589	.0116	-.0906
		.274			.0559				
		.362	.1015						

SECTION (1) LOWER WING		DEPENDENT VARIABLE CP							
ALPHA (3) = 3.999	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.390		.0731					
		.400				.0767	.0279		-.1903
		.402			.0824				
		.497	.0739						
		.550				-.0548	-.1332		
		.565			.0120				
		.600							-.4000
		.650						-.4239	
		.700	.0600				-.4823		
		.725				-.5214			
		.750						-.4137	-.3369
		.760				-.5772			
		.775					-.0721	-.1763	
		.808				-.3032			
		.834	-.4497						
		.850					-.2771	-.3163	-.5767
		.857				-.3019			
		.865	-.3696						
		.900	-.3487				-.4855		-.7326
		.905				-.4752	-.3821		
		.990					-.5591	-.5915	
		.953				-.5041			
		.965	-.3046						

ARC11-014IA19 QTS+STRUT SRB-NOM HPS-OFF LVR WING

(RELW:4) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -5.142 BETA (1) = -.006

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.2905	-.0820	-.2340	-.5701	-.6358
.040		.1588	.2092				
.050	-.1026			-.1218	-.2610	.0000	-.5274
.060				-.1298			
.081			.1168				
.086		.2082					
.094	-.0574						
.150				-.0219	-.0254	.0105	-.1258
.163		.2035					
.177			.0000				
.229	.0466						
.246		.1158					
.290				.0848	.0907	.0617	.0027
.274			.0957				
.362	.1632						
.390		.1264					
.400				.1705	.1566		.0600
.402			.1607				
.497	.1288						
.550				.1255	.0864		
.565		.1488					
.600							-.0926
.650						-.1209	
.700	.1638				-.1864		
.725				-.2482			
.750						-.1001	-.0416
.760			-.3638				
.775				.0000	.0016		
.808			-.2943				
.834	-.4406						
.850				-.3755	-.3806	-.3197	
.857			-.4693				
.865	-.4362						
.900	-.4934			-.5722			-.3942
.905			-.6556		-.4776		
.950				-.6933		-.5601	
.953			-.3879				
.965	-.4304						

ARC11-0141A19 QTS+STRUT SRB-NOM MPS-OFF LWR WING

(REUW14)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.321 BETA (1) = -4.003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
	.020			.1586	-.0117	-.1185	-.2314	-.3326
	.040		.0671	.1218				
	.050	-.2048			-.0658	-.2056	.0000	-.2681
	.060				-.0944			
	.080			.0772				
	.086		.1073					
	.094	-.1455			-.0317	-.0367	.0412	.0442
	.150							
	.163		.1085					
	.177			.0000				
	.229	-.0214						
	.246		.0687					
	.250				.0352	.0643	.0812	.0380
	.274			.0412				
	.362	.0706						
	.390		.0460					
	.400				.1160	.1318		.0246
	.402			.0706				
	.497	.0394						
	.550				.0653	.0576		
	.565		.0461					
	.600							-.1239
	.650						-.1449	
	.700	.0304				-.2183		
	.725				-.2907			
	.750						-.1418	-.0741
	.760			-.3812				
	.775				-.0693	-.0448		
	.808			-.2487				
	.834	-.3834						
	.850				-.3841	-.4061	-.3551	
	.857			-.4650				
	.865	-.5110						
	.900	-.4600			-.5611			-.4700
	.905			-.6226		-.5164		
	.950				-.6741		-.5821	
	.953			-.4979				
	.965	-.4277						
ALPHA (2) = -.432 BETA (2) = .016	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
	.020			.4728	.2420	.2024	.1991	.1537
	.040		.2240	.3664				
	.050	-.0864			.1294	.0839	.0000	.0664
	.080				.1063			
	.081			.2591				
	.086		.2819					
	.094	-.0534						

ARC11-014IA19 QTS+STRUT SRB-NOM MPS-OFF LWR WING

(REUW14)

SECTION (1) LOWER WING		DEPENDENT VARIABLE CP									
ALPHA (2) = -.432	BETA (2) = .016	2Y/B	.299	.364	.427	.534	.641	.780	.887		
		X/C									
		.150				.1373	.1505	.1742	.1448		
		.163		.2961							
		.177			.0000						
		.229	.1148								
		.246		.2065							
		.250				.1959	.2127	.1992	.1282		
		.274				.1933					
		.362	.2252								
		.390		.2097							
		.400				.2473	.2327		.0834		
		.402				.2385					
		.497	.2044								
		.550				.1791	.1305				
		.565				.2109					
		.600									
		.650									
		.700	.2138								
		.725									
		.750									
		.760									
		.775									
		.808									
		.834	-.4025								
		.850									
		.857									
		.865	-.3867								
		.900	-.4906								
		.905									
		.950									
		.953									
		.965	-.3555								

ALPHA (2) = -.396	BETA (3) = 4.025	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.020				.5925	.4314	.4155	.4170
		.040		.3244	.4823				.3669
		.050	.1469			.3097	.2828	.0700	.2531
		.080				.2744			
		.081				.3793			
		.086		.3801					
		.094	.1957						
		.150				.2754	.2869	.2816	.2294
		.163		.3984					
		.177				.0000			
		.229	.2698						

ARC11-014TA19 QTS+STRUT SRB-NOM MPS-OFF LWR WING

(REUM14)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.396 BETA (3) = 4.025

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		.3144					
.250				.3223	.3142	.2777	.1932
.274			.3198				
.362	.3294						
.390		.3337					
.400				.3424	.3011		.1221
.402			.3613				
.497	.3302						
.550				.2372	.1722		
.565			.3016				
.600							-.0496
.650						-.0724	
.700	.3487				-.1312		
.725				-.1778			
.750						-.0379	-.0111
.760			-.2793				
.775				.1159	.0805		
.800		-.2145					
.834	-.4608						
.850				-.3173	-.3129	-.2862	
.857			-.4318				
.865	-.3393						
.900	-.4946			-.5299			-.3703
.905			-.5888		-.4183		
.950				-.6609		-.5216	
.953			-.3988				
.965	-.3811						

ALPHA (3) = 3.864 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020				.5747	.4444	.4517	.4848
.040		.2407					.4580
.050	.0265			.3201	.3127	.0000	.3376
.060				.2730			
.081			.3584				
.086		.3269					
.094	.0659						
.150				.2573	.2898	.5051	.2682
.163		.3575					
.177			.0000				
.229	.1592						
.246		.2735					
.250				.2885	.3031	.2885	.2135
.274			.2737				
.362	.2717						

ARC11-014IA19 QTS+STRUT SRB-NOM MPS-OFF LWR WING

(REUN14)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.864	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.390		.2749					
		.402			.2992	.3044	.2898		.1283
		.497	.2673						
		.550				.2129	.1669		
		.565			.2467				
		.600							-.0514
		.650						-.0683	
		.700	.2568				-.1292		
		.725				-.1817			
		.750						-.0460	-.0155
		.760			-.2830				
		.775				.1032	.0765		
		.808			-.2013				
		.834	-.4098						
		.850				-.3102	-.3204	-.2878	
		.857			-.4184				
		.865	-.3755						
		.900	-.5172			-.5186			-.4295
		.905				-.5874	-.4315		
		.950				-.6509		-.5211	
		.953			-.6636				
		.965	-.4105						

ARC11-014IA19 QTS+STRUT SRB-NOM MPS-OFF LWR WING

(REUM15) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 076.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.290
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.113	BETA (1) = .003	2Y/B Y/C	.299	.364	.427	.534	.641	.780	.887
		.020			.0929	-.1064	-.1993	-.4291	-.4982
		.040		-.0131	.1311				
		.060	-.2152			-.1899	-.3538	.0000	-.5530
		.080				-.1991			
		.081			.0059				
		.086		.0030					
		.094	-.0658						
		.150				-.1487	-.2030	-.3796	-.4808
		.163		.0406					
		.177			.0000				
		.229	-.0295						
		.246		-.0155					
		.250				-.0367	-.0864	-.2223	-.4157
		.274			-.0086				
		.362	.0250						
		.390		.0400					
		.400				-.0485	-.0513		.0589
		.432			-.0050				
		.497	.0357						
		.550				.2191	.2102		
		.565			.1887				
		.600							.0954
		.650						.0494	
		.700	.1428				-.0207		
		.725				-.0761			
		.750						.1199	.1287
		.760			-.1820				
		.775				.1754	.1333		
		.808			-.1489				
		.834	-.3140						
		.850				-.1996	-.2083	-.1433	
		.857			-.2981				
		.865	-.2653						
		.900	-.3724			-.3731			-.2375
		.905			-.4376		-.3095		
		.950				-.4861		-.3581	
		.953			-.5554				
		.965	-.3897						

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ARC11-0141A19 OTS+STRUT SRB-NOM MPS-OFF LWR WING

(REUM 5)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.390	BETA (1) = -4.000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.0780	-.0727	-.1302	-.2488	-.4013
		.040		-.1191	.0125				
		.050	-.1352			-.1123	-.2566	.0000	-.4511
		.080				-.1119			
		.081			-.0512				
		.086		-.0752					
		.094	-.1331						
		.150				-.1641	-.1989	-.2800	-.3699
		.163		-.0387					
		.177			.0000				
		.229	-.1774						
		.246		-.0415					
		.250				-.0747	-.1211	-.1652	-.2587
		.274			-.0329				
		.362	-.0770						
		.390		-.0159					
		.400				-.0528	-.0970		.1290
		.402			-.0233				
		.497	-.0202						
		.550				.1873	.1947		
		.565			.0865				
		.600							.0636
		.650						.0221	
		.700	.0481				-.0567		
		.725				-.1316			
		.750						.0760	.0858
		.760			-.2251				
		.775				.0916	.0884		
		.808			-.1605				
		.834	-.3017						
		.850				-.2292	-.2430	-.1772	
		.857			-.3214				
		.865	-.2756						
		.900	-.3459			-.3950			-.2788
		.905			-.4563		-.3463		
		.950				-.5007		-.3865	
		.953			-.5384				
		.965	-.3253						
ALPHA (2) = -.363	BETA (2) = .012	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.2980	.1111	.0700	-.0201	-.1938
		.040		-.0032	.2027				
		.050	-.0014			.0837	-.0751	.0000	-.2469
		.080				.0299			
		.081			.0873				
		.086		.0366					
		.094	-.0502						

ARC11-014IA19 QTS+STRUT SRB-NOM MPS-OFF LWR WING

(ITEM 5)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) =	BETA (2) =	2Y/B	.299	.364	.427	.534	.641	.780	.887
	.012	X/C							
		.150				-.0106	-.0318	-.0916	-.1251
		.163		.1270					
		.177			.0000				
		.229	-.0240						
		.246		.0669					
		.250				.0495	.0035	.0011	.2790
		.274			.1024				
		.362	.0608						
		.390		.1375					
		.400				.2214	.3175		.2315
		.402			.1397				
		.497	.1204						
		.550				.2930	.2696		
		.565			.2785				
		.600							.0627
		.650						.0620	
		.700	.2336				.0101		
		.725				-.0396			
		.750						.1186	.1023
		.760			-.1419				
		.775				.2274	.1781		
		.808			-.0862				
		.834	-.2798						
		.850				-.1682	-.1930	-.1440	
		.957			-.2720				
		.865	-.2163						
		.900	-.3758			-.3481			-.2572
		.905			-.4255		-.3271		
		.950				-.4678		-.3544	
		.953			-.5459				
		.965	-.3925						
ALPHA (2) =	BETA (3) =	2Y/B	.299	.364	.427	.534	.641	.780	.887
-.294	4.028	X/C							
		.020			.4967	.3147	.2748	.3137	.3366
		.040		.1328	.3971				
		.050	.0253			.2047	.1030	.0000	.2450
		.080				.1393			
		.081			.3143				
		.086		.1651					
		.094	.0991						
		.150				.1697	.2703	.3251	.2993
		.163		.2670					
		.177			.0000				
		.229	.1376						

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-OFF LWR WING

(REUM15)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.294	BETA (3) = 4.028	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		.2510					
		.257				.3285	.3531	.3541	.2905
		.274			.2428				
		.362	.1995						
		.390		.2719					
		.400				.4092	.3941		.2431
		.402			.3818				
		.497	.2689						
		.557				.3579	.3040		
		.565			.3865				
		.600							.0968
		.657						.0804	
		.707	.3978				.0342		
		.725				-.0077			
		.757						.1591	.1404
		.760			-.1008				
		.775				.2893	.2183		
		.808			-.0453				
		.834	-.3241						
		.857				-.1380	-.1731	-.1192	
		.857			-.2592				
		.865	-.1708						
		.900	-.3558			-.3281			-.2333
		.915			-.4223		-.3147		
		.957				-.4554		-.3400	
		.953			-.5227				
		.965	-.4328						

ALPHA (3) = 3.834	BETA (1) = .012	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.4711	.3740	.3471	.4632	.5045
		.040		-.0303	.3714				
		.057	.0147			.2297	.1964	.0000	.4002
		.080				.1445			
		.081			.2787				
		.086		.0776					
		.094	-.0010						
		.157				.1636	.3071	.3676	.3590
		.163		.1858					
		.177			.0000				
		.229	-.0008						
		.246		.1846					
		.257				.3152	.3497	.3841	.3201
		.274			.2203				
		.362	.1160						



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TABULATED SOURCE PRESSURE DATA - 1A19 (ARC 11-014)

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ARC11-0141A19 OTS+STRUT SRB-NCM MPS-OFF LWR WING

(REUM 5)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.834	BETA (1) = .012	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.390		.2237					
		.400				.3694	.3788		.2472
		.402			.3284				
		.497	-.2041						
		.550			.3202	.2944			
		.565		.3295					
		.600							.0892
		.650						.0811	
		.700	.3048				.0294		
		.725			-.0202				
		.750						.1525	.1373
		.760			-.1204				
		.775				.2569	.2093		
		.808			-.0502				
		.834	-.2989						
		.850				-.1438	-.1783	-.1255	
		.857				-.2609			
		.875	-.2131						
		.900	-.3743			-.3313			-.2435
		.915				-.4187	-.3151		
		.950				-.4574		-.3412	
		.953				-.5400			
		.965	-.4237						

ARC11-0141A19 OTS+STRUT SRB-NCM MP- LWR WING

(RELW16) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.095	BETA (1) = .012	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.0542	-.1421	-.1437	-.3167	-.3644
		.040		.0066	.0042				
		.050	-.1289			-.1225	-.2586	.0000	-.4194
		.080				-.1099			
		.081			-.0628				
		.086		-.0104					
		.094	.0105						
		.150				-.1925	-.2489	-.3290	-.3780
		.163		-.0292					
		.177			.0000				
		.229	-.0084						
		.246		-.0014					
		.250				-.1511	-.2231	-.2911	-.3326
		.274			-.0673				
		.362	-.0375						
		.390		.0068					
		.400				.0437	.0305		-.2600
		.402			.0736				
		.497	-.0025						
		.550				.2728	.3026		
		.565			.1761				
		.600							.1412
		.650						.1720	
		.700	.1563				.1084		
		.725				.0550			
		.750						.2101	.2764
		.760			-.0543				
		.775				.2630	.2260		
		.808			-.0349				
		.834	-.2578						
		.850				-.0672	-.0835	-.0040	
		.857			-.1826				
		.865	-.1438						
		.900	-.2860			-.2320			-.0777
		.905			-.3121		-.2148		
		.950				-.3411		-.2096	
		.953			-.4147				
		.965	-.3321						

ARC11-0141A19 OTS+STRUT SRB-NOM MPS-OFF LWR WING (RELW16)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CF

ALPHA (2) = -.393 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.0626	-.0272	-.0939	-.1934	-.2817
.040		-.0902	.0512				
.050	-.0986			-.1549	-.2565	.0000	-.3442
.080				-.1882			
.081			-.0042				
.086		-.0848					
.094	-.0735						
.150				-.2323	-.2577	-.2988	-.2976
.163		-.0201					
.177			.0000				
.229	-.1264						
.246		-.0788					
.250				-.1303	-.1996	-.2487	-.2436
.274			-.0765				
.362	-.0252						
.390		-.0410					
.400				-.0029	-.0010		-.0971
.402			.0145				
.497	-.0354						
.550				.1784	.2322		
.565			.0892				
.600							.0815
.650						.1558	
.700	.0539				.0852		
.725				.0090			
.750						.1809	.2457
.760			-.1117				
.775				.1895	.2126		
.808			-.0590				
.834	-.1991						
.850				-.0861	-.1086	-.0344	
.857			-.1976				
.865	-.1784						
.900	-.2666			-.2520			-.1043
.905				-.3231	-.2389		
.950				-.3524		-.2215	
.953			-.4238				
.965	-.2880						

ALPHA (2) = -.291 BETA (2) = -.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.1706	.1374	.0630	-.0015	-.1375
.040		.0044	.1124				
.050	-.0837			.0026	-.1026	.0000	-.1995
.080				-.0583			
.081			.1717				
.086		.0390					
.094	.0152						

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ARC11-014IA19 OTS+STRUT SRB-NOM MPS-OFF LWR WING

(RELW16)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.291	BETA (2) = -.005	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.150				-.1076	-.1232	-.1639	-.1598
		.163		.0019					
		.177			.0000				
		.229	.0396						
		.246		.0428					
		.250				-.0338	-.0893	-.0822	-.1069
		.274			-.0030				
		.362	.0190						
		.390		.0818					
		.400				.1156	.0812		.1734
		.402			.1765				
		.497	.0539						
		.550				.3742	.3747		
		.565			.2912				
		.600							.2253
		.650						.1951	
		.700	.2377				.1377		
		.725			.0848				
		.750						.2204	.2529
		.760			-.0223				
		.775				.3079	.2959		
		.808			.0171				
		.834	-.2416						
		.850				-.0383	-.0654	.0004	
		.857			-.1562				
		.865	-.1213						
		.900	-.2749			-.2063			-.1096
		.905			-.3002		-.2079		
		.950				-.3204		-.2170	
		.953			-.4083				
		.965	-.3316						
ALPHA (2) = -.318	BETA (3) = 4.025	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.4544	.2950	.2289	.1862	.0521
		.040		.1346	.3546				
		.050	.0375			.1647	.0458	.0000	-.0460
		.080				.0820			
		.081			.2428				
		.086		.1795					
		.094	.0791						
		.150				.0016	.0710	.0853	.0864
		.163		.2539					
		.177			.0000				
		.229	.1486						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 QTS+STRUT SRB-NOM MPS-OFF LVR WING

(REUM16)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.318 BETA (3) = 4.025

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		.1488					
.250				.2497	.1850	.1489	.3740
.274			.2314				
.362	.2023						
.390		.2567					
.400				.3584	.4439		.3637
.402			.3162				
.497	.2394						
.550				.4378	.4103		
.565			.4302				
.600							.2049
.650						.2079	
.700	.4074				.1662		
.725				.1226			
.750						.2396	.2377
.760			.0268				
.775				.3697	.3301		
.808			.0763				
.834	-.2141						
.850				-.0037	-.0423	.0082	
.857			-.1235				
.865	-.1464						
.900	-.2271			-.1796			-.1051
.905			-.2823		-.1865		
.950				-.2974		-.1997	
.953			-.4050				
.965	-.3538						

ALPHA (3) = 3.861 BETA (1) = -.006

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.4241	.3127	.2809	.2928	.2838
.040		.0282	.3325				
.050	.0657			.1757	.0968	.0000	.1707
.080				.0849			
.081			.2092				
.086		.0335					
.094	.0477						
.150				.0326	.1636	.1803	.1755
.163		.1095					
.177			.0000				
.229	.0632						
.246		.0792					
.250				.2766	.1894	.1539	.2224
.274			.1785				
.362	.1311						

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-OFF LWR WING

(REUM 6)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.861	BETA (1) = -.006	2Y/B X/C	.299	.364	.427	.534	.641	.780	.687
		.390		.1994					
		.400				.2666	.3549		.3611
		.402			.2527				
		.497	.1680						
		.550				.4093	.3955		
		.565			.3735				
		.600							.1914
		.650						.1949	
		.700	.3204				.1534		
		.725				.1037			
		.750						.2235	.2165
		.760			.0008				
		.775				.3401	.3147		
		.808			.0625				
		.834	-.2201						
		.850				-.0155	-.0541	-.0062	
		.857			-.1324				
		.865	-.1249						
		.900	-.2670			-.1895			-.1207
		.905			-.2838		-.1917		
		.950				-.3054		-.2111	
		.953			-.4050				
		.965	-.3436						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 QTS+STRUT SRB-HI MPS-HI LWR WING

(REUW17) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.155	BETA (1) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.0797	-.3262	-.4957	-.7979	-.9457
		.040		.1064	.0127				
		.050	.0328			-.3508	-.5166	.0200	-.8242
		.080				-.3107			
		.081			-.0788				
		.086		.1039					
		.094	.0328						
		.150				-.2020	-.2120	-.2359	-.2963
		.163		.0678					
		.177			.0000				
		.229	.0346						
		.246		-.0569					
		.250				-.0904	-.0920	-.1416	-.2167
		.274			-.0790				
		.362	.0304						
		.390		-.0398					
		.400				.0010	-.0347		-.2043
		.402			-.0011				
		.497	-.0237						
		.550				-.0711	-.1432		
		.565			-.0195				
		.600							-.3871
		.650						-.4189	
		.700	.0040				-.4837		
		.725				-.5332			
		.750						-.4140	-.3230
		.760			-.5941				
		.775				-.2279	-.2531		
		.808			-.3468				
		.834	-.4512						
		.850				-.5728	-.5744	-.6332	
		.857		-.4038					
		.865	-.4261						
		.900	-.3700						-.7963
		.905			-.4748		-.5550		
		.950				-.4518		-.2561	
		.957			-.4852				
		.965	-.3463						

ARC11-014IA19 OTS+STRUT SRB-HI MPS-HI LWR WING

(RELUM7)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.426	BETA (1) = -4.003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			-.0476	-.3091	-.4542	-.5867	-.7003
		.040		-.0420	-.0741				
		.060	-.1189			-.3497	-.4809	.0000	-.6033
		.080				-.3092			
		.081			-.1216				
		.086		-.0382					
		.094	-.1022			-.2120	-.2455	-.2303	-.2575
		.150							
		.163		-.0557					
		.177			.0000				
		.229	-.0907						
		.246		-.1006					
		.250				-.1245	-.1379	-.1548	-.2413
		.274			-.1180				
		.362	-.0698						
		.390		-.1016					
		.400				-.0634	-.0893		-.2903
		.402			-.0829				
		.497	-.0961						
		.550				-.1532	-.2047		
		.565			-.1318				
		.600							-.4437
		.650						-.4708	
		.700	-.1072				-.5439		
		.725				-.5630			
		.750						-.4848	-.3799
		.760			-.4291				
		.775				.0321	-.2944		
		.808			-.3133				
		.834	-.4219						
		.850				-.4802	-.5816	-.7027	
		.857			-.4709				
		.865	-.4510						
		.900	-.4482			-.6303			-.8552
		.905			-.5326		-.5668		
		.950				-.6654		-.4051	
		.953			-.4749				
		.965	-.4257						

ALPHA (2) = -.447	BETA (2) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.2154	-.0450	-.0904	-.1425	-.2136
		.040		.1227	.1303				
		.050	.0276			-.1378	-.1897	.0000	-.2753
		.080				-.1320			
		.081			.0273				
		.086		.1339					
		.094	.0373						

ARC11-014IA19 OTS+STRUT SRB-HI MPS-HI LWR WING

(REUM 7)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.447 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.150				-.0835	-.0607	-.0889	-.1473
.163		.1123					
.177			.0000				
.229	.0428						
.246		.0083					
.250				-.0049	-.0118	-.0522	-.1401
.274			-.0012				
.362	.0616						
.390		.0241					
.400				.0478	.0046		-.1916
.402			.0549				
.497	.0223						
.550				-.0523	-.1319		
.565			.0115				
.600							-.3931
.650						-.4185	
.700	.0397				-.4834		
.725				-.5258			
.750						-.4216	-.3183
.760			-.6025				
.775				-.1967	-.2439		
.808			-.3348				
.834	-.4940						
.850				-.5855	-.5569	-.6487	
.857			-.5048				
.865	-.4559						
.900	-.4031			-.6082			-.8135
.905			-.4353		-.5616		
.950				-.4176		-.2755	
.953			-.4947				
.965	-.3638						

ALPHA (2) = -.435 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020				.3915	.2153	.1864	.1757
.040		.2162	.2924				.0973
.050	.1328			.0901	.0450	.0000	-.0242
.080				.0629			
.081			.1846				
.086		.2410					
.094	.1570						
.150				.0648	.0636	.0457	-.0203
.163		.2288					
.177			.0000				
.229	.1703						

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ARC11-014IA19 OTS+STRUT SRB-HI MPS-HI LWR WING

(REUM 7)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.435 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		.1343					
.250				.1160	.0943	.0384	-.0542
.274			.1315				
.362	.1682						
.390		.1481					
.400				.1276	.0705		-.1335
.402			.1736				
.497	.1478						
.550				-.0072	-.0919		
.565			.0832				
.600							-.3391
.650						-.3726	
.700	.1497				-.4505		
.725				-.4991			
.750						-.3617	-.2683
.760			-.5768				
.775				-.1161	-.1893		
.808			-.2510				
.834	-.4809						
.850				-.5518	-.5195	-.5528	
.857			-.2922				
.865	-.4807						
.900	-.4536			-.5024			-.7709
.905			-.4524		-.4866		
.950				-.3647		-.2078	
.953			-.3038				
.965	-.3907						

ALPHA (3) = 3.930 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020				.3591	.1822	.1958	.2152
.040		.1165	.2396				
.050	.0058			.0489	.0478	.0000	.0361
.080				.0194			
.081			.1233				
.086		.1634					
.094	.0295						
.150				.0223	.0372	.0299	-.0300
.163		.1640					
.177			.0000				
.229	.0574						
.246		.0624					
.250				.0690	.0570	.0168	-.0899
.274			.0505				
.362	.0964						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-HI MPS-HI LWR WING

(REUM 7)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.930 BETA (1) = .000

2Y/B X/C	.299	.564	.427	.534	.641	.780	.887
.390		.0586					
.400				.0786	.0266		-.1857
.402			.0808				
.497	.0672						
.550				-.0526	-.1355		
.565			.0118				
.600							-.3957
.650						-.4229	
.700	.0534				-.4866		
.725				-.5178			
.750						-.4091	-.3287
.760			-.6031				
.775				-.0758	-.2016		
.808			-.3365				
.834	-.5017						
.850				-.2872	-.5924	-.5925	
.857			-.3250				
.865	-.4262						
.900	-.3936			-.4660			-.7473
.905			-.4629		-.4474		
.920				-.5543		-.7263	
.953			-.5712				
.965	-.3896						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - 1A19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-HI MPS-HI LWR WING

(REUW18) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.098	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.020				.3329	-.0132	-.1339	-.3115	-.5144
		.040		.1626	.2423					
		.050	-.1065			-.0587	-.2047	.0000	-.4218	
		.080				-.0819				
		.081			.1489					
		.086		.2227						
		.094	-.0891							
		.150				.0205	.0439	.0352	.0266	
		.163		.2240						
		.177			.0000					
		.229	.0376							
		.246		.1365						
		.250				.1247	.1198	.0995	.0522	
		.274			.1194					
		.362	.1738							
		.390		.1461						
		.400				.1884	.1773		.0626	
		.402			.1800					
		.497	.1467							
		.550				.1415	.1030			
		.565			.1646					
		.600							-.0903	
		.650						-.1117		
		.700	.1770				-.1759			
		.725				-.2342				
		.750						-.0981	-.0387	
		.760			-.3450					
		.775				.0158	.0140			
		.808			-.2587					
		.834	-.4066							
		.850				-.3634	-.3692	-.3148		
		.857			-.4394					
		.865	-.3929							
		.900	-.4473			-.3599			-.4249	
		.905			-.6104		-.4693			
		.950				-.6817		-.5535		
		.953			-.3275					
		.965	-.3523							

ARC11-0141A19 OTS+STRUT SRB-HI MPS-HI LVR WING (RELUWIS)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.396 BETA (1) = -4.003

2Y/3 X/C	.299	.364	.427	.534	.641	.780	.887
.020			.1683	-.0076	-.1129	-.2148	-.3331
.040		.0686	.1264				
.050	-.2036			-.0654	-.1985	.0000	-.2694
.080				-.0936			
.081			.0813				
.086		.1066					
.094	-.1469						
.150				-.0279	-.0321	.0422	.0424
.163		.1095					
.177			.0000				
.229	-.0235						
.246		.0692					
.250				.0402	.0638	.0800	.0416
.274			.0436				
.362	.0728						
.390		.0500					
.400				.1194	.1304		.0274
.402			.0750				
.497	-.0361						
.550				.0680	.0603		
.565			.0470				
.600							-.1216
.650						-.1407	
.700	.0346				-.2151		
.725				-.2864			
.750						-.1362	-.0697
.760			-.3659				
.775				-.0604	-.0423		
.808			-.2261				
.834	-.3396						
.850				-.3636	-.4013	-.3529	
.857			-.4421				
.865	-.4444						
.900	-.3948			-.5398			-.4398
.905			-.5518		-.5092		
.950				-.6574		-.5789	
.953			-.4518				
.965	-.3797						

ALPHA (2) = -.438 BETA (2) = .009

2Y/3 X/C	.299	.364	.427	.534	.641	.780	.887
.020			.4768	.2472	.2122	.2138	.1583
.040		.2145	.3693				
.050	-.0860			.1366	.0939	.0000	.0819
.080				.1167			
.081			.2621				
.086		.2787					
.094	-.0590						

ARC11-014IA19 OTS+STRUT SRB-HI MPS-HI LWR WING

(REUM18)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.438	BETA (2) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.150				.1429	.1568	.1802	.1503
		.163		.2962					
		.177			.0000				
		.229	.0969						
		.246		.2082					
		.250				.2032	.2179	.2043	.1335
		.274			.1984				
		.362	.2239						
		.390		.2134					
		.400				.2534	.2374		.0874
		.402			.2450				
		.497	.2071						
		.550				.1840	.1363		
		.565			.2161				
		.600							-.0705
		.650						-.0942	
		.700	.2213			-.1536			
		.725				-.2031			
		.750						-.0725	-.0139
		.760			-.3048				
		.775				.0563	.0416		
		.800			-.2265				
		.834	-.3772						
		.850				-.3361	-.3464	-.3070	
		.857				-.4136			
		.865	-.3433						
		.900	-.4413						-.4259
		.905				-.5399			
		.905				-.5929	-.4518		
		.930				-.6687		-.5396	
		.953				-.2809			
		.965	-.2951						

ALPHA (2) = -.573 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020				.5936	.4315	.4169	.3727
.040		.3256		.4851			
.060	.1496			.3106	.2814	.0000	.2507
.080				.2739			
.081				.3787			
.086		.3839					
.094	.1982						
.120				.2754	.2866	.2826	.2329
.163		.4002					
.177				.0000			
.229	.2725						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-HI MPS-HI LWR WING (REUM18)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -0.573	BETA (3) = 4.028	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		.3161					
		.250				.3216	.3136	.2792	.1944
		.274			.3216				
		.362	.3318						
		.390		.3352					
		.400				.3401	.3004		.1248
		.402			.3628				
		.497	.3335						
		.550				.2381	.1723		
		.565			.3026				
		.600							-.0481
		.650						-.0706	
		.700	.3516				-.1284		
		.725				-.1760			
		.750						-.0341	-.0097
		.760			-.2757				
		.775				.1161	.0824		
		.808			-.2105				
		.834	-.3919						
		.850				-.3116	-.3092	-.2824	
		.857			-.4116				
		.865	-.2979						
		.900	-.4282			-.5241			-.3851
		.905			-.5660		-.4135		
		.950				-.6356		-.5188	
		.953			-.2635				
		.965	-.2999						

ALPHA (3) = 3.915	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.5830	.4503	.4593	.4914	.4579
		.040		.2352	.4718				
		.050	.0239			.3236	.3172	.0000	.3389
		.080				.2790			
		.081			.3633				
		.086		.3226					
		.094	.0617						
		.150				.2584	.2928	.3079	.2689
		.163		.3547					
		.177			.0000				
		.229	.1539						
		.246		.2747					
		.250				.2925	.3079	.2895	.2141
		.274			.2757				
		.362	.2720						

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ARC11-0141A19 QTS+STRUT SRB-HI MPS-HI LWR WING

(REUM18)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.915	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.390		.2769					
		.400				.3081	.2908		.1289
		.402			.3016				
		.497	.2669						
		.550				.2151	.1696		
		.565			.2496				
		.600							-.0487
		.650						-.0659	
		.700	.2580				-.1271		
		.725				-.1784			
		.750						-.0426	-.0123
		.760			-.2783				
		.775				.1065	.0790		
		.808			-.1964				
		.834	-.3839						
		.850				-.3075	-.3166	-.2853	
		.857			-.4064				
		.865	-.3493						
		.900	-.4871			-.5149			-.4466
		.915			-.5731		-.4268		
		.950				-.6424		-.5171	
		.953			-.4601				
		.965	-.3434						

ARC11-014IA19 OTS+STRUT SRB-HI MPS-HI LWR WING

(RELW19) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.185 BETA (1) = -.009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.0685	-.1175	-.2083	-.4388	-.5065
.040		-.0155	.1250				
.050	-.2188			-.2044	-.3615	.0000	-.5608
.080				-.2042			
.081			.0025				
.086		-.0009					
.094	-.0693						
.150				-.1574	-.2059	-.3856	-.4873
.163		.0304					
.177			.0000				
.229	-.0369						
.246		-.0188					
.250				-.0382	-.0926	-.2296	-.4172
.274			-.0120				
.362	.0154						
.390		.0360					
.400				-.0572	-.0711		.0393
.402			-.0116				
.497	.0307						
.550				.2157	.2048		
.565		.1818					
.600							.0917
.650						.0465	
.700	.1366				-.0254		
.725				-.0797			
.750						.1064	.1260
.760			-.1836				
.775				.1611	.1311		
.808		-.1385					
.834	-.2706						
.850				-.2000	-.2103	-.1435	
.857			-.2851				
.865	-.2400						
.900	-.3176			-.3737			-.2372
.905			-.4258		-.3083		
.950				-.4869		-.3580	
.953			-.5432				
.965	-.3191						

ARC11-014IA19 OTS+STRUT SRB-HI MPS-HI LWR WING

(REU-19)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) =	BETA (1) =	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.020			.0740	-.0975	-.1394	-.2622	-.4086
		.040		-.1166	.0110				
		.060	-.1345		-.1492	-.2604	.0000	-.4558	
		.080			-.1125				
		.081			-.0584				
		.086		-.0726					
		.094	-.1328						
		.150			-.1640	-.1963	-.2899	-.3690	
		.163		-.0353					
		.177			.0000				
		.229	-.1730						
		.246		-.0493					
		.250			-.0738	-.1199	-.1651	-.2730	
		.274			-.0342				
		.362	-.0751						
		.390		-.0165					
		.400			-.0531	-.1061		.0693	
		.402			-.0303				
		.497	-.0161						
		.550			.1879	.1952			
		.565			.0821				
		.600						.0630	
		.650						.0243	
		.700	.0481			-.0550			
		.725				-.1279			
		.750						.0711	.0866
		.760			-.2122				
		.775				.0878	.0906		
		.808			-.1444				
		.834	-.2758						
		.850				-.2198	-.2412	-.1777	
		.857			-.3046				
		.865	-.2317						
		.900	-.2973			-.3837			-.2788
		.905			-.4302	-.3430			
		.950				-.4857		-.3861	
		.953			-.3856				
		.965	-.2674						

ALPHA (2) = -.438 BETA (2) = .012

2Y/B	.299	.364	.427	.534	.641	.780	.887
X/C							
.020			.2932	.0966	.0618	-.0313	-.2153
.040		-.0048	.1955				
.050	-.0028			.0485	-.0832	.0000	-.2680
.080				.0280			
.084			.0830				
.086		.0315					
.094	-.0513						

SECTION 1 (LOWER WING)		DEPENDENT VARIABLE CP							
ALPHA (2) = -.438 BETA (2) = .012		2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.150				-.0184	-.0461	-.0955	-.1438
		.163		.1210					
		.177			.0000				
		.229	-.0280						
		.246		.0659					
		.259			.0471	.0002	-.0271	.2697	
		.274			.1050				
		.362	.0593						
		.390		.1349					
		.400			.2111	.3097		.2351	
		.402			.1271				
		.497	.1139						
		.550			.2915	.2661			
		.565			.2739				
		.600						.0623	
		.650					.0598		
		.700	.2322			.0088			
		.725			-.0414				
		.750					.1099	.1001	
		.760			-.1432				
		.775			.2130	.1753			
		.808			-.0829				
		.834	-.2461						
		.850			-.1687	-.1914	-.1461		
		.857			-.2608				
		.865	-.1909						
		.900	-.3374			-.3493			-.2574
		.905			-.4134		-.3259		
		.950			-.4672			-.3582	
		.953			-.5377				
		.965	-.3294						
ALPHA (2) = -.549 BETA (3) = 4.028		2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.020			.4974	.3129	.2694	.2927	.3082
		.040		.1415	.3797				
		.050	.0045			.1841	.1045	.0000	.2218
		.080				.1319			
		.081			.3145				
		.086		.1726					
		.094	.1041						
		.150			.1587	.1984	.3160	.2943	
		.163		.2724					
		.177			.0000				
		.229	.1357						

ARC11-014IA19 OTS+STRUT SRB-HI MFS-HI LWR WING

(RELIN9)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.549	BETA (3) = 4.028	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		.2570		.3157	.3543	.3488	.2893
		.257			.2392				
		.274							
		.362	.2000						
		.390		.2698					
		.400				.4064	.3978		.2465
		.402			.3809				
		.497	.2702						
		.550				.3567	.3082		
		.565			.3875				
		.600							.0940
		.650						.0816	
		.700	.4040				.0582		
		.725				-.0050			
		.750						.1520	.1417
		.760			-.0991				
		.775				.2780	.2215		
		.808			-.0431				
		.834	-.2911						
		.850				-.1358	-.1700	-.1170	
		.857			-.2546				
		.865	-.1180						
		.900	-.3190			-.3247			-.2311
		.905			-.4073		-.3111		
		.950				-.4506		-.3368	
		.953			-.5121				
		.965	-.3778						

ALPHA (3) = 3.516	BETA (1) = .012	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020				.4555	.3564	.3209	.4284
		.040		-.0365	.3418				.4661
		.050	.0054			.2142	.1524	.0000	.3644
		.080				.1321			
		.081				.2570			
		.086		.0714					
		.094	-.0104						
		.150				.1491	.2882	.3457	.3380
		.163			.1721				
		.177				.0000			
		.229	-.0118						
		.246		.1722					
		.290				.3059	.3358	.3694	.3056
		.274				.1988			
		.362	.1071						

ARC11-014IA19 OTS+STRUT SRB-HI MPS-HI LWR WING

(REU-19)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.516	BETA (1) = .012	2Y/B %C	.299	.364	.427	.534	.641	.780	.887
		.390		.2100					
		.400				.3577	.3675		.2372
		.402			.3098				
		.497	.1916						
		.550				.3196	.2871		
		.565			.3170				
		.600							.0822
		.650						.0731	
		.700	.2911				.0224		
		.725					-.0278		
		.750						.1366	.1345
		.760				-.1274			
		.775				.2432	.2014		
		.808				-.0595			
		.834	-.2661						
		.850				-.1516	-.1838	-.1324	
		.857				-.2628			
		.865	-.1907						
		.900	-.3502			-.3372			-.2476
		.905				-.4164	-.3200		
		.950				-.4632		-.3479	
		.953				-.5363			
		.965	-.3671						

ORIGINAL PAGE IS
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ARC11-014IA19 OTS+STRUT SRB-HI MPS-HI LWR WING

(REUM20) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.167	BETA (1) = .003	2Y/B	.299	.364	.427	.534	.641	.780	.887
		Y/C							
		.020			.0578	-.1402	-.1315	-.3134	-.3624
		.040		.0072	.0076				
		.050	-.1258			-.1137	-.2583	.0000	-.4187
		.080				-.1101			
		.081			-.0589				
		.086		-.0075					
		.094	.0101						
		.150				-.1904	-.2468	-.3254	-.3743
		.163		-.0302					
		.177			.0000				
		.229	-.0080						
		.246		.0051					
		.250				-.1496	-.2222	-.2882	-.3267
		.274			-.0652				
		.362	-.0338						
		.390		.0068					
		.400				.0440	.0267		-.2619
		.402			.0706				
		.497	-.0037						
		.550				.2729	.2965		
		.565			.1758				
		.600							.1378
		.650						.1670	
		.700	.1521				.1059		
		.725				.0551			
		.750						.1822	.2744
		.760			-.0588				
		.775				.2657	.2288		
		.808			-.0311				
		.834	-.2080						
		.850				-.0665	-.0817	-.0043	
		.857			-.1683				
		.865	-.1262						
		.900	-.2435			-.2302			-.0730
		.905			-.2935		-.2136		
		.950				-.3390		-.2067	
		.953			-.4016				
		.965	-.2688						

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TABULATED SOURCE PRESSURE DATA - 1A19 (ARC 11-014)

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ARC11-0141A19 OTS+STRUT SRB-HI MPS-HI LWR WING

(REV-20)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.489 BETA (1) = -4.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020				.0627	-.0278	-.0940	-.2003
.040		-.0882		.0485			
.050	-.0984			-.1576	-.2614	.0000	-.3422
.080				-.1891			
.081			-.0086				
.086		-.0842					
.094	-.0746						
.150				-.2300	-.2586	-.3015	-.3030
.163		-.0145					
.177			.0200				
.229	-.1260						
.246		-.0801					
.250				-.1260	-.1941	-.2592	-.2481
.274			-.0778				
.362	-.0257						
.390		-.0430					
.400				-.0044	-.0121		-.0928
.402			.0155				
.497	-.0343						
.550				.1714	.2339		
.565			.0868				
.600							.0786
.650						.1485	
.700	.0565				.0831		
.725				.0096			
.750						.1496	.2394
.760			-.1013				
.775				.1897	.2106		
.808			-.0435				
.834	-.1763						
.850				-.0911	-.1074	-.0354	
.857			-.1841				
.865	-.1450						
.900	-.2126			-.2457			-.1047
.905			-.3091		-.2401		
.950				-.3477		-.2306	
.953			-.4014				
.965	-.2105						

ALPHA (2) = -.432 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020				.1774	.1424	.0628	.0046
.040		.0034		.1131			
.050	-.0778			.0052	-.1002	.0000	-.2016
.080				-.0513			
.081			.1806				
.086		.0426					
.094	.0221						

ARC11-014IA19 QTS+STRUT SRB-HI MPS-HI LWR WING

(REL#20)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.432	BETA (2) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.150				-.1017	-.1172	-.1565	-.1614
		.163		.0066					
		.177			.0000				
		.229	.0463						
		.246		.0512					
		.250				-.0361	-.1137	-.0953	-.1129
		.274			-.0102				
		.362	.0219						
		.390		.0796					
		.400				.1225	.0904		.1462
		.402			.1600				
		.497	.0590			.3782	.3796		
		.520				.2838			
		.565							.2370
		.600						.2033	
		.650					.1454		
		.700	.2410			.0940			
		.725						.2080	.2652
		.750							
		.760			-.0239				
		.775				.3245	.2953		
		.808			.0226				
		.834	-.1990						
		.850				-.0302	-.0550	.0113	
		.857			-.1422				
		.865	-.0771						
		.900	-.2421			-.1975			-.1052
		.905			-.2807		-.1997		
		.920				-.3117		-.1953	
		.953			-.3869				
		.965	-.2694						

ALPHA (2) = -.486	BETA (3) = 4.025	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.4580	.2954	.2260	.1818	.0459
		.040		.1304	.3524				
		.050	.0265			.1651	.0429	.0000	-.0476
		.080				.0810			
		.081			.2392				
		.086		.1764					
		.094	.0736						
		.150				.0007	.0520	.0741	.0738
		.163		.2538					
		.177			.0000				
		.229	.1495						

ARC11-014IA19 OFS+STRUT SRB-HI MPS-HI LWR WING (REUM20)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.486 BETA (3) = 4.025

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		.1486					
.250				.2478	.1838	.1383	.3566
.274			.2262				
.362	.2001						
.390		.2619					
.400				.3632	.4410		.3576
.402			.3091				
.497	.2398						
.550				.4377	.4100		
.565			.4288				
.600							.2072
.680						.2073	
.700	.4053				.1656		
.725				.1239			
.750						.2225	.2384
.760			.0154				
.775				.3784	.3312		
.808			.0742				
.834	-.2071			-.0029	-.0395	.0104	
.857				-.1215			
.865	-.1224						
.900	-.2168			-.1789			-.1059
.915				-.2799	-.1851		
.950				-.2969		-.1975	
.953				-.4009			
.965	-.3149						

ALPHA (3) = 3.657 BETA (1) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.3836	.3095	.2727	.2703	.2707
.040		.0247	.3393				
.050	.0724			.1702	.0677	.0000	.1617
.080				.0811			
.081			.2081				
.086		.0327					
.094	.0461						
.150				-.0017	.0668	.1964	.1775
.163		.0876					
.177			.0000				
.229	.0650						
.246		.0760					
.250				.2893	.2712	.1614	.2192
.274			.1631				
.362	.1279						

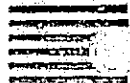
ARC11-014IA19 OTS+STRUT SRB-HI MPS-HI LWR WING

(REV-20)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.657	BETA (1) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.390		.1897					
		.400				.2623	.342*		.3693
		.402			.2515				
		.497	.1662						
		.550				.4093	.3986		
		.565			.3760				
		.600							.1993
		.650						.2010	
		.700	.3158				.1568		
		.725				.1092			
		.750						.2175	.2247
		.760			-.0080				
		.775				.3535	.3189		
		.808			.0674				
		.834	-.1905						
		.850				-.0110	-.0458	.0000	
		.857			-.1255				
		.865	-.0768						
		.900	-.2418			-.1826			-.1165
		.905			-.2752		-.1864		
		.950				-.2976		-.2028	
		.953			-.3891				
		.965	-.2824						



DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 QTS+STRUT SRB-OFF MPS-OFF LWR WING

(REUN21) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-T8 = 8.000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.200	BETA (1) = .003	ZY/B %/C	.299	.364	.427	.534	.641	.780	.887
		.020			.0620	-.1347	-.1445	-.3094	-.3559
		.040		.0096	.0139				
		.060	-.1213			-.1269	-.2547	.0000	-.4113
		.080				-.1005			
		.081			-.0646				
		.086		-.0079					
		.094	.0140						
		.150				-.1879	-.2412	-.3210	-.3724
		.162		-.0272					
		.177			.0000				
		.229	-.0018						
		.246		.0056					
		.250				-.1565	-.2158	-.2849	-.3257
		.274			-.0616				
		.362	-.0434						
		.390		.0087					
		.400				.0493	.0327		-.2590
		.402			.0756				
		.497	-.0007						
		.550				.2694	.2999		
		.565			.1745				
		.610							.1337
		.650					.1715		
		.700	.1579				.1136		
		.725				.0607			
		.750						.1013	.1181
		.760			-.0542				
		.775				.2797	.2316		
		.808			-.0538				
		.834	-.2963						
		.850				-.0608	-.0933	-.0992	
		.857			-.1834				
		.865	-.1980						
		.900	-.3091			-.2263			-.1551
		.905			-.3211		-.2163		
		.950				-.3370		-.2650	
		.953			-.4234				
		.965	-.3903						

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(PEU-21)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.180	BETA (1) = -4.000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.020				.0661	-.0204	-.0882	-.1862	-.2787
		.040		-.0883		.0566				
		.050	-.0983			-.1512	-.2504	.0000		-.3310
		.080				-.1838				
		.081			-.0028					
		.086		-.0837						
		.094	-.0722							
		.150				-.2287	-.2535	-.2956		-.2954
		.163		-.0209						
		.177				.0000				
		.229	-.1236							
		.246		-.0799						
		.250				-.1263	-.1944	-.2495		-.2400
		.274			-.0751					
		.362	-.0244							
		.390		-.0428						
		.400				.0001	-.0010			-.0856
		.402				.0221				
		.497	-.0338							
		.550				.1744	.2221			
		.565				.0867				
		.600								.0905
		.650						.1500		
		.700	.0564				.0862			
		.725				.0117				
		.750						.0735		.0775
		.760			-.1198					
		.775				.2035	.2141			
		.808			-.0699					
		.834	-.2153							
		.850				-.0981	-.1244	-.1312		
		.857			-.2022					
		.865	-.2040							
		.900	-.3076			-.2525				-.1954
		.905				-.3273	-.2473			
		.950				-.3577		-.2939		
		.953			-.4310					
		.965	-.3436							

ALPHA (2) = -.291	BETA (2) = .012	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.020				.1849	.1531	.0731	.0164	-.1222
		.040		-.0003		.1231				
		.050	-.0742				.0135	-.0921	.0000	-.1880
		.080				-.0438				
		.081				.1803				
		.086		.0428						
		.094	.0195							

ARC11-014TA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REUM21)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.291 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.150				-.0967	-.1133	-.1475	-.1459
.163		.0083					
.177			.0000				
.229	.0436						
.246		.0507					
.253			-.0340	-.1083	-.0733	-.0975	
.274			.0019				
.362	.0289						
.390		.0903					
.400			.1224	.0881			.1710
.402			.1837				
.497	.0597						
.550			.3797	.3774			
.565			.2943				
.600							.2669
.650						.1947	
.700	.2430			.0930	.1447		
.725						.1204	.0773
.750							
.760			-.0242				
.775				.3297	.2948		
.808			.0237				
.834	-.2563						
.850				-.0296	-.0755	-.0970	
.857			-.1532				
.865	-.1613						
.900	-.2869			-.1987			-.1962
.905			-.2964		-.2298		
.950				-.3148		-.2632	
.955			-.4094				
.965	-.3715						

ALPHA (2) = -.306 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.4663	.3044	.2401	.1943	.0616
.040		.1397	.3599				
.050	.0349			.1704	.0528	.0000	-.0334
.080				.0874			
.081			.2471				
.086		.1796					
.094	.0794						
.150				.0080	.0753	.1101	.0945
.163		.2563					
.177			.0000				
.229	.1519						

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ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REV-21)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -3.016	BETA (3) = 4.028	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		.1518					
		.250				.2491	.1852	.1478	.3559
		.274			.2407				
		.362	.2022						
		.390		.2675					
		.400				.3715	.4465		.3647
		.402			.3161				
		.497	.2426						
		.550				.4409	.4101		
		.565			.4293				
		.600							.2444
		.650						.2001	
		.700	.4105				.1680		
		.725				.1261			
		.750						.1300	.0570
		.760			.0173				
		.773				.3882	.3291		
		.808			.0742				
		.834	-.2212						
		.850				-.0003	-.0542	-.0970	
		.857			-.1204				
		.865	-.1801						
		.900	-.2670			-.1777			-.1610
		.905			-.2793		-.2272		
		.925				-.2984		-.2637	
		.953			-.4055				
		.965	-.3680						
ALPHA (3) = 3.969	BETA (1) = .006	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.4173	.3175	.2793	.2904	.2942
		.040		.0256	.3308				
		.050	.0664			.1735	.0987	.0000	.1753
		.080				.0834			
		.081			.2077				
		.086		.0334					
		.094	.0499						
		.150				.0410	.1600	.1924	.1754
		.163		.1107					
		.177			.0000				
		.229	.0675						
		.246		.0791					
		.250				.2765	.1959	.1571	.2238
		.274			.1691				
		.362	.1299						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REU-21)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.969	BETA (1) = .006	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.390		.1982					
		.400				.2874	.3451		.3645
		.402			.2502				
		.497	.1696						
		.550				.4086	.3947		
		.565			.3722				
		.600							.2328
		.650						.1895	
		.700	.3145				.1575		
		.725				.1081			
		.750						.1170	.0390
		.760			-.0103				
		.775				.3620	.3129		
		.806			.0627				
		.834	-.2326						
		.850				-.0124	-.0663	-.1102	
		.857			-.1306				
		.865	-.1698						
		.900	-.2818			-.1877			-.2101
		.905			-.2833		-.2288		
		.920				-.3053		-.2765	
		.955			-.4083				
		.965	-.3824						

DATE 01 MAY 75

TABLATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

PAGE 535

ARC11-014IA19 QTS+STRUT SRB-NOM HPS-NOM LWR WING (REU-22)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.348 BETA (1) = -3.997

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.0624	-.0278	-.0937	-.1983	-.2855
.040		-.0886	.0486				
.050	-.0966			-.1528	-.2563	.0000	-.3429
.080				-.1890			
.081			-.0059				
.086		-.0870					
.094	-.0732						
.150				-.2310	-.2575	-.2997	-.2987
.163		-.0198					
.177			.0000				
.229	-.1287						
.246		-.0814					
.250				-.1315	-.1919	-.2585	-.2483
.274			-.0767				
.362	-.0259						
.390		-.0394					
.400				-.0018	-.0027		-.0979
.402			.0180				
.497	-.0363						
.550				.1783	.2334		
.565			.0892				
.600							.0926
.650						.1507	
.700	.0554				.0845		
.725				.0106			
.750						.0754	.0794
.760			-.1091				
.775				.1983	.2110		
.808			-.0538				
.834	-.1937						
.850				-.0934	-.1247	-.1323	
.857			-.1918				
.865	-.1718						
.900	-.2484			-.2491			-.1977
.905			-.3171		-.2456		
.997				-.3530		-.2941	
.953			-.4166				
.965	-.2710						

ALPHA (2) = -.366 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.1769	.1465	.0637	.0023	-.1316
.040		.0030	.1195				
.090	-.0788			.0089	-.0995	.0000	-.1988
.080				-.0506			
.081			.1795				
.086		.0430					
.094	.0212						

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM LVR WING

(REUM22)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.366	BETA (2) = .012	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.150				-.1014	-.1173	-.1546	-.1580
		.163		.0065					
		.177			.0000				
		.229	.0434						
		.246		.0579					
		.250				-.0435	-.1058	-.0964	-.1060
		.274			-.0059				
		.362	.0216						
		.390		.0856					
		.400				.1231	.0885		.1675
		.402			.1716				
		.497	.0592						
		.550				.3802	.3789		
		.565			.2901				
		.600							.2692
		.650						.1955	
		.700	.2398				.1445		
		.725				.0930			
		.750						.1196	.0802
		.760			-.0251				
		.775				.3269	.2936		
		.808			.0227				
		.834	-.2289						
		.850				-.0305	-.0754	-.0974	
		.857			-.1491				
		.865	-.1082						
		.900	-.2657			-.1991			-.1956
		.905			-.2910		-.2305		
		.950				-.3159		-.2636	
		.953			-.3978				
		.965	-.3170						

ALPHA (2) = -.522 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
.020				.4548	.2962	.2277	.1824	.0407
.040		.1313		.3506				
.050	.0263			.1646	.0448	.0000	-.0477	
.080				.0827				
.081				.2370				
.086		.1745						
.094	.0777							
.150				.0000	.0622	.0827	.0660	
.163		.2540						
.177				.0000				
.229	.1493							

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM LWR WING

(REU22)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.522 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		.1503					
.250				.2524	.1832	.1377	.3593
.274			.2275				
.362	.1990						
.390		.2601					
.400				.3586	.4424		.3679
.402			.3118				
.497	.2388						
.550				.4377	.4093		
.565			.4287				
.600							.2452
.650						.2003	
.700	.4042				.1667		
.725				.1226			
.750						.1285	.0560
.760			.0157				
.775				.3816	.3243		
.808			.0723				
.834	-.2156						
.850				-.0027	-.0569	-.0984	
.857			-.1217				
.865	-.1580						
.900	-.2339			-.1804			-.2019
.905			-.2810		-.2298		
.950				-.3012		-.2655	
.953			-.4056				
.965	-.3492						

ALPHA (3) = 3.942 BETA (1) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.4142	.3164	.2799	.2900	.2866
.040		.0262	.3318				
.050	.0671			.1762	.1002	.0000	.1757
.080				.0869			
.081			.2114				
.086		.0329					
.094	.0473						
.150				.0189	.1055	.1881	.1762
.163		.1020					
.177			.0900				
.229	.0688						
.246		.0897					
.250				.2791	.1942	.1600	.2287
.274			.1739				
.362	.1316						

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM LWR WING

(REUM22)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.942	BETA (-1) = .012	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.390		.2004		.2662	.3518		.3629
		.400			.2540				
		.402							
		.497	.1690			.4097	.3959		
		.550			.3752				
		.600							.2330
		.650						.1897	
		.700	.3197				.1562		
		.725				.1064			
		.750						.1158	.0400
		.760			-.0103				
		.775				.3557	.3109		
		.808			.0623				
		.834	-.2133						
		.850				-.0133	-.0658	-.1099	
		.857			-.1293				
		.865	-.1195						
		.900	-.2626			-.1880			-.2118
		.905			-.2814		-.2296		
		.950				-.3054		-.2753	
		.953			-.4007				
		.965	-.3334						

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REL23) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CF

ALPHA (1) = -4.047	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.0644	-.3448	-.5104	-.8163	-.9872
		.040		.0947	.0014				
		.060	.0264			-.3703	-.5302	.0000	-.8449
		.080				-.3261			
		.081			-.0898				
		.086		.0953					
		.094	.0299						
		.150				-.2017	-.2187	-.2529	-.3035
		.163		.0519					
		.177			.0000				
		.229	.0297						
		.246		-.0663					
		.250				-.0935	-.1071	-.1512	-.2276
		.274			-.0894				
		.362	.0258						
		.390		-.0517					
		.400				-.0027	-.0464		-.2128
		.402			-.0135				
		.497	-.0316						
		.550				-.0765	-.1530		
		.565			-.0313				
		.600							-.3415
		.650						-.4337	
		.700	-.0047				-.4948		
		.725				-.4563			
		.750						-.6430	-.5908
		.760			-.6059				
		.775				-.9444	-.7410		
		.808			-.7870				
		.834	-.4743						
		.850				-.3780	-.5585	-.7433	
		.857			-.4924				
		.865	-.7762						
		.900	-.4503			-.3495			-.3585
		.905				-.3556	-.3581		
		.950				-.3414		-.3079	
		.953				-.2851			
		.965	-.3404						

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REU-23)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.276	BETA (1) = -4.003	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.020			-.0411	-.2816	-.4059	-.5215	-.6421
		.040		-.0304	-.0671				
		.050	-.1049			-.3374	-.4593	.0000	-.5834
		.080				-.2919			
		.081			-.1110				
		.086		-.0269					
		.094	-.0881						
		.150				-.2012	-.2281	-.2257	-.2472
		.163		-.0464					
		.177			.0000				
		.229	-.0734						
		.246		-.0867					
		.257				-.1163	-.1196	-.1483	-.2351
		.274			-.1108				
		.362	-.0623						
		.390		-.0944					
		.400				-.0544	-.0765		-.2439
		.402			-.0770				
		.497	-.0899						
		.550				-.1418	-.1909		
		.565			-.1264				
		.600							-.3840
		.650						-.4683	
		.700	-.0975				-.5327		
		.725				-.4846			
		.750						-.6734	-.6336
		.760			-.5151				
		.775				-.8799	-.7785		
		.808			-.7103				
		.834	-.4397						
		.850				-.6552	-.7013	-.8124	
		.857			-.5954				
		.865	-.7646						
		.900	-.4670			-.3313			-.3886
		.905			-.3897		-.3901		
		.950				-.2621		-.3803	
		.953			-.2543				
		.965	-.3391						

ALPHA (2) = -.237	BETA (2) = .009	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.020			.2382	-.0198	-.0633	-.0946	-.1774
		.040		.1354	.1538				
		.050	.0364			-.1097	-.1671	.0000	-.2393
		.080				-.1080			
		.081			.0900				
		.086		.1502					
		.094	.0448						

DATE 01 MAY 75

TABULATE SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REU-23)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.237	BETA (2) = .009	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.150							
		.163		.1267					
		.177			.0000				
		.229	.0526						
		.246		.0292					
		.250				.0065	.0043	-.0317	-.1182
		.274			.0199				
		.362	.0738						
		.390		.0450					
		.400				.0578	.0195		-.1712
		.402			.0739				
		.497	.0374						
		.550				-.0389	-.1146		
		.565			.0343				
		.600							-.3121
		.650						-.4050	
		.700	.0501				-.4636		
		.725				-.4209			
		.750						-.6203	-.5648
		.760				-.5568			
		.775				-.8762	-.7090		
		.808				-.7355			
		.834	-.4994						
		.850				-.3681	-.5255	-.3374	
		.857				-.3844			
		.865	-.7915						
		.900	-.4479			-.3357			-.7749
		.905			-.2744		-.3222		
		.950				-.3374		-.2309	
		.953			-.2211				
		.965	-.2921						

ALPHA (2) = -.195	BETA (3) = 4.028	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.020			.4052	.2249	.2035	.1977	.1233
		.040		.2227	.3026				
		.050	.1360			.0993	.0585	.0000	-.0069
		.060				.0705			
		.081			.1955				
		.086		.2502					
		.094	.1623						
		.150				.0717	.0739	.0577	-.0181
		.163		.2367					
		.177			.0000				
		.229	.1730						

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REUM23)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.195 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		.1430					
.250				.1253	.1021	.0483	-.0466
.274			.1371				
.362	.1752						
.390		.1587					
.400				.1345	.0765		-.1263
.402			.1751				
.497	.1557						
.550				-.0012	-.0818		
.565			.0878				
.600							-.2817
.650						-.3753	
.700	.1542				-.4403		
.725				-.4009			
.750						-.0082	-.5354
.760			-.5769				
.775				-.8996	-.6932		
.808			-.7167				
.834	-.4705						
.830				-.4200	-.5520	-.6372	
.857			-.3861				
.865	-.8108						
.900	-.4868			-.3594			-.7423
.905			-.2878		-.3998		
.950				-.3418		-.2195	
.953			-.2169				
.965	-.3900						

ALPHA (3) = 3.855 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.3779	.1975	.2025	.2404	.1983
.040		.1362	.2586				
.050	.0175			.0621	.0526	.0000	.0518
.080				.0228			
.081			.1451				
.086		.1773					
.094	.0447						
.150				.0291	.0526	.0561	-.0112
.163		.1814					
.177			.0000				
.229	.0699						
.246		.0813					
.250				.0775	.0744	.0396	-.0635
.274			.0693				
.362	.1092						

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REUM24) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IS = .000 ELV-C9 = .000
 RUDDER = .000 VACH = 1.100
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -3.993	BETA (1) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.3346	-.0039	-.1217	-.2862	-.4944
		.040		.1804	.2453				
		.050	-.1050			-.0595	-.1960	.0000	-.4030
		.080				-.0783			
		.081			.1485				
		.086		.2274					
		.094	-.0846						
		.150				.0170	.0430	.0307	.0285
		.153		.2231					
		.177			.0000				
		.229	.0460						
		.246		.1360					
		.250				.1249	.1191	.1035	.0507
		.274			.1178				
		.362	.1766						
		.390		.1428					
		.400				.1897	.1794		.0619
		.402			.1770				
		.497	.1456						
		.550				.1435	.1070		
		.565			.1637				
		.600							-.0488
		.650						-.1207	
		.700	.1731				-.1788		
		.725				-.1682			
		.750						-.2679	-.2563
		.760			-.3630				
		.775				-.4879	-.3569		
		.808			-.5228				
		.834	-.4653						
		.850				-.5941	-.4690	-.4457	
		.857			-.6863				
		.865	-.6953						
		.900	-.6072			-.7269			-.5404
		.905			-.5932		-.4896		
		.950				-.5392		-.6484	
		.953			-.4633				
		.965	-.5100						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - 1419 (ARC 11-014)

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REUW24)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) =	BETA (1) =	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.1626	.0014	-.1162	-.2140	-.2978
		.040		.0686	.1297				
		.050	-.2041			-.0661	-.1999	.0000	-.2575
		.080				-.0983			
		.081			.0782				
		.086		.1067					
		.094	-.1444						
		.150				-.0283	-.0371	.0426	.0314
		.163		.1057					
		.177			.0000				
		.229	-.0217						
		.246		.0665					
		.250				.0353	.0612	.0830	.0366
		.274			.0380				
		.362	.0700						
		.390		.0477					
		.400				.1148	.1264		.0231
		.402			.0687				
		.497	.0347						
		.550				.0629	.0573		
		.565			.0414				-.0846
		.600						-.1548	
		.650					-.2244		
		.700	.0291						
		.725				-.2259		-.3026	-.2884
		.750							
		.760			-.3983				
		.775				-.5521	-.4140		
		.808			-.5455				
		.834	-.4247						
		.850				-.6246	-.5300	-.4791	
		.857			-.6681				
		.865	-.8003						-.5991
		.900	-.5959			-.7480			
		.905			-.7932		-.5368		
		.950				-.5587		-.6737	
		.953			-.4968				
		.965	-.5440						
ALPHA (2) =	BETA (2) =	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.4776	.2528	.2190	.2143	.1715
		.040		.2306	.3724				
		.050	-.0802			.1369	.0974	.0000	.0845
		.080				.1118			
		.081			.2622				
		.086		.2853					
		.094	-.0446						

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REUM24)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.246	BETA (2) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.150				.1424	.1563	.1802	.1417
		.163		.2986					
		.177			.0000				
		.229	.1183						
		.246		.2090					
		.250				.2063	.2171	.2038	.1328
		.274				.1972			
		.362	.2286						
		.390		.2122					
		.400				.2528	.2343		.0835
		.402				.2416			
		.497	.2063						
		.550				.1814	.1319		
		.565				.2100			
		.600							-.0403
		.650						-.1078	
		.700	.2193				-.1582		
		.725				-.1374			
		.750						-.2516	-.2466
		.760				-.3272			
		.775				-.4500	-.3511		
		.808				-.4855			
		.834	-.4378						
		.850				-.5703	-.4318	-.4370	
		.857				-.6732			
		.865	-.6646						
		.900	-.5935			-.7059			-.5578
		.905				-.5810	-.4773		
		.950				-.5392		-.6385	
		.953				-.4342			
		.965	-.4541						
ALPHA (2) = -.275	BETA (3) = -4.025	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020				.5958	.4425	.4256	.4302
		.040		.3226		.4853			.3810
		.050	.1514				.3115	.2901	.0000
		.080					.2756		.2615
		.081				.3924			
		.086		.3816					
		.094	.1976						
		.150					.2804	.2926	.2906
		.163		.3992					.2312
		.177				.0000			
		.229	.2705						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REU-24)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.273 BETA (3) = 4.025

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		.3164					
.250				.3234	.3168	.2821	.1970
.274			.3220				
.362	.3291						
.390		.3353					
.400				.3417	.3013		.1258
.402			.3611				
.497	.3301						
.550				.2386	.1723		
.565			.2998				
.600							-.0087
.650						-.0829	
.700	.3484				-.1322		
.725				-.1051			
.750						-.2067	-.2237
.760			-.2985				
.775			-.4036	-.3201			
.808			-.4627				
.834	-.5444						
.850				-.5515	-.3136	-.4202	
.857			-.6657				
.865	-.6525						
.900	-.6304			-.6921			-.5239
.915			-.7223		-.5023		
.950				-.7596		-.6102	
.953			-.4546				
.965	-.4200						

ALPHA (3) = 3.804 BETA (1) = -.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.5782	.4438	.4504	.4838	.4564
.040		.2428	.4665				
.050	.0281			.3136	.3053	.0000	.3323
.080				.2656			
.081			.3558				
.086		.3251					
.094	.0662						
.190				.2509	.2855	.3037	.2614
.163		.3534					
.177			.0000				
.229	.1649						
.246		.2706					
.250				.2843	.3007	.2904	.2102
.274			.2678				
.362	.2682						

ORIGINAL PAGE IS
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ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REUM24)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.004	BETA (1) = -.003	2Y/B Y/C	.299	.364	.427	.534	.641	.780	.887
		.390		.2740					
		.400				.3027	.2848		.1249
		.402			.2963				
		.497	.2611						
		.550				.2099	.1645		
		.565			.2420				
		.600							-.0095
		.650						-.0806	
		.700	.2510				-.1349		
		.725				-.1159			
		.750						-.2094	-.2223
		.760			-.3030				
		.775				-.4109	-.3261		
		.808			-.4569				
		.834	-.4541						
		.850				-.5475	-.3634	-.4212	
		.857			-.6618				
		.865	-.6558						
		.900	-.6290			-.6828			-.5292
		.905			-.7738		-.4919		
		.950				-.7658		-.6200	
		.953			-.4641				
		.965	-.4363						

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REQW25) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -3.975 BETA (1) = .003

Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.1111	-.1017	-.1969	-.4217	-.4984
.040		-.0164	.1268				
.050	-.2171			-.1962	-.3538	.0000	-.5505
.080				-.2134			
.081			.0064				
.086		.0022					
.094	-.0557						
.150				-.1518	-.2064	-.3826	-.4802
.163		.0474					
.177			.0000				
.229	-.0292						
.246		-.0188		-.0380	-.0897	-.2040	-.4066
.250							
.274			-.0096				
.362	.0258						
.390		.0383					
.400				-.0516	-.0605		.0591
.402			-.0078				
.497	.0338						
.550				.2211	.2121		
.565			.1881				
.600							.1282
.650						.0447	
.700	.1421				-.0228		
.725				-.0250			
.750						-.0541	-.0623
.760			-.1900				
.775				-.2457	-.1821		
.808			-.3376				
.834	-.3740						
.850				-.4028	-.3066	-.2621	
.857			-.4886				
.865	-.4835						
.900	-.4709			-.5242			-.3481
.905			-.5935		-.3204		
.950				-.6049		-.4435	
.953			-.6685				
.965	-.5492						

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REL#25)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.255 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.0821	-.0610	-.1267	-.2397	-.3981
.040		-.1177	.0156				
.050	-.1345			-.1136	-.2516	.0000	-.4515
.080				-.1099			
.081			-.0498				
.086		-.0708					
.094	-.1348						
.150				-.1623	-.1996	-.2780	-.3596
.163		-.0353					
.177			.0000				
.229	-.1774						
.246		-.0468					
.250				-.0743	-.1212	-.1700	-.2548
.274			-.0340				
.362	-.0768						
.390		-.0208					
.400				-.0613	-.1093		.1179
.402			-.0245				
.497	-.0206						
.550				.1905	.1987		
.565			.0870				
.600							.1013
.650						.0190	
.700	.0426				-.0555		
.725				-.0702			
.750						-.0841	-.0959
.760			-.2400				
.775				-.3123	-.2198		
.808			-.3762				
.834	-.3330						
.850				-.4355	-.3557	-.2873	
.857			-.4880				
.865	-.5229						
.900	-.4563			-.5902			-.3801
.905			-.5951		-.3552		
.950				-.6247		-.4702	
.953			-.4363				
.965	-.5422						

ALPHA (2) = -.285 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.3089	.1074	.0766	-.0080	-.1788
.040		-.0029	.2084				
.050	.0030			.0367	-.0685	.0000	-.2413
.080				.0441			
.081			.0934				
.086		.0317					
.094	-.0477						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REUM25)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.285 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.150				-.0033	-.0262	-.0789	-.1078
.163		.1266					
.177			.0000				
.229	-.0231						
.246		.0675					
.250				.0489	.0069	-.0104	.2720
.274			.1116				
.362	.0626						
.390		.1382					
.400				.2177	.3170		.2364
.402			.1365				
.497	.1166						
.550				.2976	.2740		
.565			.2815				
.600							.1067
.650						.0578	
.700	.2358				.0133		
.725				.0242			
.750						-.0431	-.0859
.760			-.1503				
.775				-.1901	-.1435		
.808			-.2816				
.834	-.3344						
.850				-.3712	-.2938	-.2552	
.857			-.4654				
.865	-.4547						
.900	-.4671			-.4936			-.3569
.915				-.5745	-.2997		
.950				-.5770		-.4396	
.953				-.6562			
.965	-.5341						

ALPHA (2) = -.189 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020				.4955	.3318	.2823	.3468
.040		.1338	.3860				
.050	.0412			.2044	.1140	.0000	.2543
.080				.1403			
.081			.3158				
.086		.1660					
.094	.1000						
.150				.1796	.2802	.3201	.3027
.163		.2631					
.177			.0000				
.229	.1364						

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ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF L/R WING

(REUM25)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.189	BETA (3) = 4.031	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		.2499		.3322	.3523	.3537	.2908
		.257			.2467				
		.274							
		.362	.2010						
		.390		.2774					
		.400				.4106	.3918		.2411
		.402			.3824				
		.497	.2686						
		.550				.3580	.3041		
		.565			.3869				
		.600							.1309
		.697					.0688		
		.700	.3996			.0295			
		.725				.0544			
		.757						-.0141	-.0691
		.760			-.1194				
		.775				-.1500	-.1184		
		.808			-.2501				
		.834	-.3665						
		.850				-.3570	-.3177	-.2430	
		.857			-.4582				
		.865	-.4707						
		.900	-.4625			-.4855			-.3437
		.905			-.5780		-.3645		
		.950				-.5738		-.4343	
		.953			-.6731				
		.965	-.5536						

ALPHA (3) = 4.005 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.4644	.3840	.3561	.4675	.5179
.040		-.0337	.3641				
.050	.0137			.2360	.1813	.0000	.3987
.080				.1520			
.081			.2739				
.086		.0716					
.094	-.0038						
.157				.1641	.3129	.3757	.3587
.163		.1720					
.177			.0000				
.229	-.0055						
.246		.1818					
.250				.3160	.3443	.3806	.3226
.274			.2130				
.362	.1069						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

PAGE 553

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LW WING

(REUM25)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 4.005 BETA (1) = .005

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.390		.2196					
.400				.3689	.3799		.2506
.402			.3153				
.497	.2016						
.553				.3283	.2963		
.565			.3260				
.600							.1350
.650						.0735	
.710	.2985				.0271		
.725				.0419			
.750						-.0172	-.0638
.760			-.1331				
.775				-.1709	-.1255		
.808			-.2518				
.834	-.3505						
.850				-.3603	-.3232	-.2417	
.857			-.4631				
.865	-.4731						
.900	-.4767			-.4809			-.3406
.905			-.5733		-.3818		
.950				-.5693		-.4317	
.953			-.6609				
.965	-.5406						

ARC11-014IA19 OTS+STRUT SRB-OFF MPB-OFF LWR WING

(REUM26) (19 OCT 74)

REFERENCE DATA

SREF = 2000.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.000
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -3.909	BETA (1) = .009	2Y/B	.299	.364	.427	.534	.641	.780	.887
		Y/C							
		.020			.0620	-.1238	-.1163	-.3029	-.3505
		.040		.0089	.0142				
		.050	-.1230			-.1014	-.2519	.0000	-.4062
		.080				-.1073			
		.081			-.0493				
		.088		-.0079					
		.094	.0165						
		.150				-.1861	-.2398	-.3176	-.3621
		.163		-.0248					
		.177			.0000				
		.229	-.0031						
		.246		.0096					
		.250				-.1502	-.2172	-.2808	-.3190
		.274			-.0593				
		.362	-.0240						
		.390		.0108					
		.400				.0505	.0329		-.2511
		.402			.0722				
		.497	.0003						
		.550				.2724	.3123		
		.565			.1815				
		.600							.1521
		.650						.1724	
		.700	.1578				.1161		
		.725				.0996			
		.750						.0983	.1163
		.760			-.0493				
		.775				-.0557	-.0244		
		.808			-.1849				
		.834	-.2987						
		.850				-.2482	-.1860	-.1086	
		.857			-.3356				
		.865	-.3571						
		.900	-.3852			-.3647			-.1618
		.905			-.4390		-.2054		
		.950				-.4390		-.2858	
		.953			-.5164				
		.965	-.4370						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

PAGE 555

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REL-26)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.243 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.0750	-.0191	-.0849	-.1823	-.2728
.040		-.0884	.0631				
.050	-.0967			-.1486	-.2508	.0000	-.3294
.080				-.1814			
.081			-.0044				
.086		-.0836					
.094	-.0721						
.150				-.2233	-.2520	-.2919	-.2909
.163		-.0151					
.177			.0000				
.229	-.1222						
.246		-.0765					
.250				-.1258	-.1828	-.2449	-.2361
.274			-.0710				
.362	-.0253						
.390		-.0414					
.400				.0013	-.0035		-.0789
.402			.0180				
.497	-.0332						
.550				.1767	.2303		
.565			.0888				
.600							.0926
.650						.1557	
.700	.0549				.0890		
.725				.0459			
.750						.0723	.0804
.760			-.1150				
.775				-.1174	-.0523		
.808			-.2327				
.834	-.2230						
.850				-.2809	-.2206	-.1317	
.857			-.3430				
.865	-.3770						
.900	-.3671			-.3889			-.1946
.905			-.4364		-.2378		
.950				-.4594		-.3001	
.953			-.5133				
.965	-.4305						

ALPHA (2) = -.237 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.1819	.1485	.0659	.0122	-.1218
.040		-.0005	.1238				
.050	-.0009			.0118	-.0910	.0000	-.1065
.080				-.0476			
.081			.1741				
.086		.0788					
.094	.0156						

ARC11-0141A19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REU-26)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.237 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.150				-.1019	-.1183	-.1976	-.1480
.163		.0043					
.177			.0000				
.229	.0402						
.246		.0452					
.250			-.0236	-.1045	-.0728	-.1023	
.274			-.0019				
.362	.0293						
.390		.0892					
.400				.1104	.0826		.1574
.402			.1788				
.497	.0572						
.550				.3765	.3764		
.565			.2886				
.600							.2658
.650						.1916	
.700	.2363				.1399		
.725				.1417			
.750						.1106	.0749
.760			-.0256				
.775			-.0292	.0103			
.808			-.1392				
.834	-.2675			-.2282	-.1997	-.1037	
.850				-.3185			
.865	-.3458						
.900	-.3656			-.3446			-.2017
.905			-.4243	-.2637			
.950			-.4224		-.2869		
.955			-.5073				
.965	-.4206						

ALPHA (2) = -.234 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020				.4636	.3018	.2357	.1934
.040		.1419		.3571			.0618
.050	.0395			.1641	.0488	.0000	-.0369
.080				.0831			
.081				.2445			
.086		.1774					
.094	.0757						
.150				.0052	.0789	.1070	.0938
.163		.2547					
.177			.0000				
.229	.1909						

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REU-26)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CF

ALPHA (2) = -.234 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		.1505					
.250				.2451	.1849	.1461	.3817
.274			.2308				
.362	.2015						
.390		.2630					
.400				.3798	.4460		.3595
.402			.3162				
.497	.2417						
.551				.4396	.4103		
.565			.4290				
.600							.2407
.650						.1980	
.700	.4095				.1642		
.725				.1776			
.750						.1212	.0519
.760			.0149				
.775				.0141	.0372		
.808			-.0996				
.834	-.2277						
.850				-.2050	-.2140	-.1028	
.857			-.3000				
.865	-.3622						
.900	-.3546			-.3254			-.2044
.905			-.4126		-.2917		
.950				-.4053		-.2873	
.953			-.5315				
.965	-.4151						

ALPHA (3) = 4.047 BETA (1) = .006

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.4278	.3173	.2838	.2985	.2909
.040		.0230	.3303				
.050	.0641			.1753	.1013	.0000	.1695
.080				.0829			
.081			.2120				
.086		.0314					
.094	.0520						
.150				.0630	.2255	.1766	.1684
.163		.1197					
.177			.0000				
.229	.0608						
.246		.0781					
.250				.2647	.1832	.1501	.2286
.274			.1770				
.362	.1320						

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ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REU-26)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 4.047 BETA (1) = .006

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.390		.1988					
.400				.2626	.3469		.3586
.402			.2460				
.497	.1709						
.550				.4068	.3939		
.565			.3707				
.600							.2240
.650						.1844	
.700	.3176				.1572		
.725				.1536			
.750						.1041	.0345
.760			-.0098				
.775				-.0116	.0201		
.808			-.1140				
.834	-.2428						
.850				-.2170	-.2180	-.1156	
.857			-.3151				
.865	-.3649						
.900	-.3662			-.3343			-.2149
.905			-.4192		-.3023		
.920				-.4138		-.2996	
.953			-.5750				
.965	-.4175						

ARC11-014IA19 OYS+STRUT SRB-NOM MPS-NOM LWR WING

(REU-27) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.125	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.0502	-.3547	-.5253	-.8752	-1.0031
		.040		.0910	-.00160				
		.050	.0206			-.3809	-.5429	.0000	-.8688
		.080				-.3312			
		.081			-.0982				
		.086		.0908					
		.094	.0210						
		.150				-.2160	-.2395	-.2632	-.3149
		.163		.0479					
		.177			.0000				
		.229	.0222						
		.246		-.0720					
		.257				-.1050	-.1170	-.1591	-.2309
		.274			-.0965				
		.362	.0155						
		.390		-.0592					
		.400				-.0130	-.0517		-.2148
		.402			-.0189				
		.497	-.0407						
		.550				-.0860	-.1592		
		.565			-.0363				
		.600							-.5459
		.650						-.4411	
		.700	-.0115				-.5012		
		.725				-.4692			
		.750						-.6499	-.5972
		.760			-.6307				
		.775				-.9494	-.7487		
		.808			-.8172				
		.834	-.5290						
		.850				-.4772	-.7275	-.8206	
		.857			-.6193				
		.865	-.8529						
		.900	-.5219			-.4197			-.8796
		.905			-.4139		-.4362		
		.950				-.4057		-.3964	
		.953			-.3308				
		.965	-.3969						

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM LWR WING

(REUM27)

SECTION (1) LOWER WING

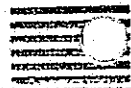
DEPENDENT VARIABLE CP

ALPHA (2) = -.396 BETA (1) = -4.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020				-.0458	-.3004	-.4321	-.5372
.040		-.0349		-.0700			
.050	-.1107			-.3481	-.4760	.0000	-.6004
.080				-.3024			
.081				-.1132			
.086		-.0298					
.094	-.0960						
.150				-.2153	-.2368	-.2253	-.2610
.165		-.0479					
.177			.0000				
.229	-.0830						
.246		-.0899					
.257				-.1249	-.1275	-.1522	-.2412
.274				-.1178			
.362	-.0615						
.390		-.0968					
.400				-.0616	-.0832		-.2498
.402				-.0770			
.497	-.0922						
.550				-.1515	-.1978		
.565				-.1306			
.600							-.3920
.650						-.4785	
.700	-.1013				-.5425		
.725				-.5083			
.750						-.6829	-.6437
.760				-.5500			
.775				-.9245	-.7906		
.808				-.7417			
.834	-.4736						
.850				-.8835	-.8066	-.8627	
.857				-.6811			
.865	-.8284						
.900	-.5093			-.4553			-.9723
.905				-.4681	-.4467		
.950				-.3617		-.4342	
.953				-.3072			
.965	-.4050						

ALPHA (2) = -.408 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020				.2215	-.0434	-.0814	-.1198
.040		.1330		.1401			-.2070
.050	.0295			-.1325	-.1877	.0000	-.2584
.080				-.1264			
.081				.0360			
.086		.1453					
.094	.0413						



ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM LWR WING

(REUM27)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.408	BETA (2) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.150				-.0828	-.0741	-.0811	-.1470
		.163		.1204					
		.177			.0000				
		.229	.0510						
		.246		.0135					
		.250				-.0062	-.0024	-.0493	-.1349
		.274			.0040				
		.362	.0674						
		.390		.0291					
		.400				.0458	.0087		-.1911
		.402			.0565				
		.497	.0308						
		.550				-.0520	-.1253		
		.565			.0152				
		.600							-.3323
		.650							-.4255
		.700	.0447				-.4797		
		.725				-.4461			
		.750						-.6360	-.5856
		.760			-.6057				
		.775				-.8954	-.7301		
		.808			-.7984				
		.834	-.5365						
		.850				-.4241	-.6694	-.7822	
		.857			-.4985				
		.865	-.8396						
		.900	-.4766			-.3763			-.9400
		.905			-.3669		-.4128		
		.950				-.3832		-.3296	
		.953			-.3019				
		.965	-.3300						

ALPHA (2) = -.336 BETA (3) = 4.025

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020				.3877	.2103	.1896	.1700
.040		.2154	.2902				
.050	.1330			.0809	.0473	.0000	-.0339
.080				.0544			
.081			.1800				
.086		.2421					
.094	.1550						
.150				.0632	.0612	.0379	-.0374
.163		.2271					
.177			.0000				
.229	.1659						

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM LWR WING

(REU-27)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -0.336	BETA (3) = 4.025	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.246		.1274					
		.250				.1158	.0899	.0370	-.0687
		.274			.1212				
		.362	.1667						
		.390		.1436					
		.400				.1243	.0658		-.1442
		.402			.1604				
		.497	.1455						
		.550				-.0136	-.0969		
		.565			.0736				
		.600							-.3066
		.650						-.3987	
		.700	.1449				-.4609		
		.725				-.4205			
		.750						-.6289	-.5565
		.760			-.6199				
		.775				-.9263	-.7162		
		.808			-.7748				
		.834	-.4928						
		.850				-.5052	-.6120	-.7729	
		.857			-.4752				
		.865	-.8649						
		.900	-.5448			-.4036			-.8109
		.905			-.3638		-.5261		
		.950				-.3837		-.3095	
		.953			-.3142				
		.965	-.4405						

ALPHA (3) = 3.792	BETA (1) = -.003	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.020			.3730	.1905	.1972	.2320	.1872
		.040		.1373	.2609				
		.050	.0133			.0586	.0502	.0000	.0473
		.080				.0232			
		.081			.1475				
		.086		.1783					
		.094	.0412						
		.150				.0211	.0528	.0547	-.0144
		.163		.1795					
		.177			.0000				
		.229	.0662						
		.246		.0845					
		.250				.0711	.0701	.0372	-.0693
		.274			.0715				
		.362	.1058						

ARC11-014IA19 QTS+STRUT SRB-NOM MPS-NOM LWR WING

(REUM27)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.792 BETA (1) = -.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.390		.0867					
.400				.0836	.0418		-.1666
.402			.1018				
.497	.0777						
.550				-.0433	-.1172		
.565			.0307				
.600							-.3230
.650						-.4143	
.700	.0648				-.4722		
.725				-.4348			
.750						-.6167	-.5693
.760			-.5897				
.775				-.8600	-.7121		
.808			-.7775				
.834	-.5414						
.850				-.4693	-.6527	-.7850	
.857			-.4592				
.885	-.8251						
.900	-.4692			-.4009			-.9483
.905			-.3478		-.4541		
.930				-.3728		-.3361	
.953			-.3005				
.965	-.3153						

ORIGINAL PAGE IS
 OF POOR QUALITY

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM LWR WING

(REUN28) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.191	BETA (1) = .093	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.3211	-.0230	-.1583	-.3411	-.5539
		.040		.1857	.2338				
		.050	-.1018			-.0785	-.2229	.0000	-.4512
		.080				-.0920			
		.081			.1378				
		.086		.2238					
		.094	-.0661						
		.150				.0051	.0121	.0212	.0054
		.163		.2175					
		.177			.0000				
		.229	.0612						
		.246		.1296					
		.250				.1143	.1119	.0893	.0484
		.274			.1094				
		.362	.1716						
		.390		.1370					
		.400				.1840	.1710		.0574
		.402			.1690				
		.497	.1394			.1369	.0984		
		.550				.1562			
		.565							-.0526
		.600						-.1258	
		.680					-.1839		
		.700	.1677			-.1750		-.2710	-.2606
		.725							
		.750							
		.760			-.3705				
		.775				-.4941	-.3716		
		.808			-.5308				
		.834	-.4545						
		.850				-.5991	-.4761	-.4516	
		.857			-.6854				
		.865	-.6856						
		.900	-.5858			-.7314			-.5440
		.905			-.5343		-.4959		
		.950				-.4806		-.6538	
		.953			-.4510				
		.965	-.5396						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

PAGE 565

ARC11-014IA19 QTS+STRUT SRB-NOM MPS-NOM LWR WING

(REUM28)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.465 BETA (1) = -4.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.1621	-.0019	-.1181	-.2094	-.3271
.040		.0655	.1316				
.050	-.2064			-.0656	-.1976	.0000	-.2571
.080				-.0927			
.081			.0798				
.086		.1065					
.094	-.1471						
.150				-.0285	-.0294	.0434	.0304
.163		.1080					
.177			.0000				
.229	-.0228						
.249		.0659					
.251				.0384	.0643	.0791	.0403
.274			.0416				
.362	.0688						
.390		.0472					
.400				.1191	.1299		.0255
.402			.0711				
.497	.0387						
.550				.0643	.0590		
.565			.0443				
.600							-.0825
.650						-.1517	
.700	.0307				-.2210		
.725				-.2251			
.750						-.2982	-.2859
.760			-.3912				
.775				-.5471	-.4124		
.808			-.5337				
.834	-.3964						
.850				-.6185	-.5269	-.4774	
.857			-.6580				
.865	-.7682						
.900	-.5469			-.7417			-.5709
.905			-.7828		-.5349		
.950				-.4632		-.6723	
.953			-.4595				
.965	-.5036						

ALPHA (2) = -.447 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.4786	.2546	.2128	.2088	.1735
.040		.2170	.3724				
.050	-.0854			.1348	.0959	.0000	.0821
.080				.1145			
.081			.2639				
.086		.2806					
.094	-.0568						

ARC11-014IA19 OTS+STRUT SRB-NCM MPS-NCM LWR WING

(REU28)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.447	BETA (2) = .012	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.150				.1420	.1603	.1606	.1450
		.163		.2950					
		.177			.0000				
		.229	.1049						
		.246		.2069					
		.250				.2068	.2177	.2061	.1356
		.274			.1991				
		.362	.2250						
		.390		.2130					
		.400				.2541	.2369		.0871
		.402			.2438				
		.497	.2074						
		.550				.1829	.1359		
		.565			.2130				
		.600							-.0328
		.650						-.1034	
		.700	.2214				-.1573		
		.725				-.1367			
		.750						-.2488	-.2440
		.760			-.3238				
		.775				-.4472	-.3486		
		.808			-.4812				
		.834	-.4159						
		.850				-.5699	-.4294	-.4345	
		.857				-.6633			
		.865	-.6437						
		.900	-.5622			-.7032			-.5449
		.905			-.4759		-.4748		
		.950				-.4623		-.6343	
		.953			-.4103				
		.965	-.4424						

ALPHA (2) = -.405 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020				.5946	.4356	.4237	.4223
.040		.3239		.4850			.3721
.050	.1484			.3099	.2868	.0000	.2544
.080				.2743			
.081				.3813			
.086		3798					
.094	.1957						
.150				.2774	.2009	.2899	.2314
.163		.3977					
.177			.0000				
.229	.2709						

ARC11-014IA19 OTS+STRUT SR6-NOM MFS-NOM LWR WING

(REUM28)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.405 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		.3154					
.297				.3246	.3169	.2022	-.1966
.274			.3189				
.362	.3298						
.390		.3333					
.400				.3429	.3026		.1250
.402			.3605				
.497	.3298						
.590				.2392	.1736		
.565			.3013				
.600							-.0780
.697						-.0819	
.700	.3489				-.1325		
.725				-.1050			
.750						-.2062	-.2231
.760			-.2977				
.775			-.4050	-.3206			
.808			-.4624				
.834	-.5178						
.890				-.5519	-.3109	-.4193	
.857			-.6631				
.865	-.6205						
.900	-.6044			-.6918			-.5187
.905			-.5773		-.5745		
.990				-.6226		-.6094	
.953			-.4178				
.965	-.3999						

ALPHA (3) = 3.819 BETA (1) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020				.5816	.4535	.4560	.4891
.040		.2340	.4686				.4583
.050	.0220			.3169	.3127	.0000	.3391
.080				.2729			
.081			.3586				
.086		.3200					
.094	.0559						
.190				.2565	.2912	.3087	.2681
.163		.3557					
.177			.0000				
.229	.1528						
.246		.2724					
.290				.2912	.3071	.2962	.2153
.274			.2746				
.362	.2702						

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ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM LWR WING

(REU-28)

SECTION I LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.819 BETA (1) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.390		.2777					
.400				.3097	.2919		.1293
.402			.3007				
.497	.2640						
.557				.2156	.1697		
.565			.2458				
.600							-.0340
.650						-.0749	
.700	.2566				-.1306		
.725				-.1115			
.750						-.2037	-.2186
.760			-.2957				
.775				-.4031	-.3193		
.808			-.4502				
.834	-.4312						
.850				-.5419	-.3617	-.4153	
.857			-.6539				
.865	-.6356						
.900	-.6020			-.6762			-.4753
.905			-.7514		-.4860		
.950				-.7501		-.6143	
.953			-.4370				
.965	-.4239						

ARC11-014IA19 QTS+STRUT SRB-NOM MFS-NOM LWR WING

(REUM29) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.080	BETA (1) = .006	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.0902	-.1005	-.1962	-.4237	-.4988
		.040		-.0140	.1327				
		.050	-.2161			-.1927	-.3530	.0000	-.5507
		.080				-.2018			
		.081			.0101				
		.086		.0017					
		.094	-.0636						
		.150				-.1515	-.2003	-.3774	-.4807
		.163		.0462					
		.177			.0000				
		.229	-.0270						
		.246		-.0149					
		.250				-.0412	-.0865	-.2125	-.4036
		.274			-.0093				
		.362	.0247						
		.390		.0403					
		.400				-.0526	-.0604		.0619
		.402			-.0142				
		.497	.0384						
		.550				.2249	.2152		
		.565			.1897				
		.600							.1308
		.650						.0472	
		.700	.1448				-.0198		
		.725				-.0234			
		.750						-.0477	-.0582
		.760			-.1839				
		.775				-.2458	-.1781		
		.808			-.3333				
		.834	-.3155						
		.850				-.3993	-.3019	-.2573	
		.857			-.4733				
		.865	-.4586						
		.900	-.4173			-.5215			-.3428
		.905			-.5765		-.3148		
		.950				-.6007		-.4402	
		.953			-.4416				
		.965	-.5043						

ARC11-014IA19 QTS-STRUT SRB-NOM MPS-NOM LWR WING

(REUN29)

SECTION (1) LOCHER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.375	BETA (1) = -3.997	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.020				.0816	-.0925	-.1340	-.2557	-.4058
		.040		-.1181	-.0142					
		.050	-.1308			-.1481	-.2570	.0300	-.4529	
		.080				-.1081				
		.081			-.0532					
		.086		-.0705						
		.094	-.1299							
		.150				-.1585	-.1976	-.2811	-.3648	
		.163		-.0358						
		.177			.0000					
		.229	-.1720							
		.246		-.0491						
		.250				-.0729	-.1160	-.1632	-.2626	
		.274			-.0341					
		.362	-.0752							
		.390		-.0166						
		.400				-.0566	-.1120		.0803	
		.402			-.0254					
		.497	-.0196							
		.550				.1889	.2023			
		.565			.0859					
		.600							.1076	
		.650						.0241		
		.700	.0472				-.0520			
		.725				-.0649				
		.750						-.0791	-.0895	
		.760			-.2225					
		.775			-.3023	-.2171				
		.808			-.3604					
		.834	-.3006							
		.850				-.4262	-.3485	-.2824		
		.857			-.4710					
		.865	-.4767							
		.900	-.3930			-.5408			-.3740	
		.905				-.5777	-.3482			
		.950				-.6083		-.4636		
		.953			-.3988					
		.965	-.4507							

ALPHA (2) = -.408 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
.020				.3006	.0904	.0632	-.0189	-.2006
.040		-.0083		.2003				
.050	-.0002			-.0028	-.0795	.0000	-.2605	
.080				.0281				
.081			.0847					
.086		.0250						
.094	-.0548							

DATE 01 MAY 75

TABLATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 QTS+STRUT SRB-NOM MPS-NOM LWR WING

(REUM29)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.408	BETA (2) = .012	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.150				-.0020	-.0412	-.0853	-.1297
		.163		.1157					
		.177			.0000				
		.229	-.0235						
		.246		.0619					
		.250				.0526	.0031	-.0289	.2571
		.274			.1143				
		.362	.0574						
		.390		.1385					
		.400				.2048	.3157		.2416
		.402			.1280				
		.497	.1099						
		.550				.2984	.2731		
		.565			.2789				
		.600							.1067
		.650						.0573	
		.700	.2303				.0122		
		.725				.0223			
		.750						-.0413	-.0882
		.760			-.1493				
		.775				-.1929	-.1431		
		.800			-.2809				
		.834	-.2897						
		.850				-.3708	-.2923	-.2541	
		.857			-.4580				
		.865	-.4336						
		.900	-.4233			-.4934			-.3569
		.905			-.5632		-.2992		
		.950				-.5772		-.4405	
		.953			-.4875				
		.965	-.4929						

ALPHA (2) = -.381 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.4993	.3247	.2763	.3015	.3324
.040		.1293	.3942				
.050	.0258			.1906	.1189	.0000	.2384
.080				.1409			
.081			.3174				
.086		.1638					
.094	.1016						
.150				.1673	.2775	.3235	.3020
.163		.2693					
.177			.0000				
.229	.1360						

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM LWR WING

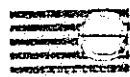
(RELW29)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.381	BETA (3) = 4.031	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.246		.2566					
		.250			.3224	.3910	.3581	.2935	
		.274			.2456				
		.362	.2001						
		.390		.2757					
		.400			.4127	.3940		.2456	
		.402			.3835				
		.497	.2708						
		.550			.3613	.3068			
		.565			.3878				
		.600						.1369	
		.650					.0727		
		.700	.4019			.0327			
		.725			.0585				
		.750						-.0095	-.0639
		.760			-.1152				
		.775				-.1473	-.1146		
		.808			-.2461				
		.834	-.3447						
		.850				-.3535	-.3100	-.2396	
		.857			-.4532				
		.865	-.4290			-.4806			-.3393
		.900	-.4359						
		.905			-.5725	-.3563			
		.950				-.5685		-.4300	
		.953			-.6603				
		.965	-.5266						

ALPHA (3) = 3.843	BETA (1) = .003	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.020			.4725	.3850	.3489	.4742	.5079
		.040		-.0284	.3743				
		.050	.0177			.2361	.1825	.0000	.3967
		.080				.1480			
		.081			.2794				
		.086		.0775					
		.094	-.0011						
		.150				.1668	.3138	.3759	.3615
		.163		.1907					
		.177			.0000				
		.229	-.0008						
		.246		.1907					
		.250				.3163	.3535	.3859	.3215
		.274			.2199				
		.362	.1147						



DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

PAGE 573

ARC11-014IA19 OTS+STRUT SRB-NCM MPS-NCM LWR WING

(RELX29)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.843 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.390		.2295					
.400				.3721	.3864		.2527
.402			.3265				
.497	.2038						
.550				.3313	.2999		
.565			.3298				
.600							.1354
.650						.0748	
.700	.3040				.0293		
.725				.0405			
.790						-.0147	-.0633
.760			-.1320				
.775				-.1708	-.1254		
.808			-.2512				
.834	-.3097						
.857				-.3586	-.3185	-.2402	
.857			-.4614				
.865	-.4415						
.900	-.4381			-.4803			-.3401
.935			-.5686		-.3702		
.950				-.5687		-.4306	
.953			-.5090				
.965	-.5045						

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM LWR WING

(REUW30) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.224	BETA (1) = .006	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.0578	-.1385	-.1294	-.3171	-.3635
		.040		.0094	.0067				
		.050	-.1269			-.1175	-.2578	.0000	-.4169
		.080				-.1107			
		.081			-.0616				
		.086		-.0090					
		.094	.0081						
		.150				-.1902	-.2463	-.3282	-.3741
		.163		-.0295					
		.177			.0000				
		.229	-.0088						
		.246		.0028					
		.250				-.1504	-.2212	-.2888	-.3299
		.274			-.0667				
		.362	-.0380						
		.390		.0049					
		.400				.0437	.0266		-.2629
		.402			.0704				
		.497	-.0020			.2773	.3052		
		.550				.1773			
		.565							.1443
		.600						.1656	
		.650						.1114	
		.700	.1550			.0955			
		.725						.0918	.1104
		.750							
		.760			-.0540				
		.775				-.0618	-.0293		
		.808			-.1912				
		.834	-.2501						
		.850				-.2531	-.1909	-.1141	
		.857			-.3370				
		.865	-.3211						
		.900	-.3324			-.3706			-.1670
		.905			-.4338		-.2071		
		.950				-.4449		-.2929	
		.953			-.5031				
		.965	-.3987						



ARC11-014IA19 OTS+STRUT SRB-NCM MPB-NCM LWR WING (REUW30)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.444 BETA (1) = -3.997

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.0650	-.0299	-.0934	-.1995	-.2814
.040		-.0899	.0526				
.050	-.0996			-.1596	-.2575	.0000	-.3402
.080				-.1878			
.081			-.0057				
.088		-.0847					
.094	-.0756						
.150				-.2327	-.2599	-.3023	-.3023
.163		-.0198					
.177			.0000				
.229	-.1315						
.246		-.0836					
.250				-.1272	-.1962	-.2545	-.2492
.274			-.0756				
.362	-.0263						
.390		-.0443					
.400				-.0026	-.0050		-.0909
.402			.0161				
.497	-.0380						
.550				.1741	.2210		
.565			.0840				
.600							.0827
.650						.1496	
.700	.0543				.0852		
.725				.0418			
.750						.0685	.0774
.760				-.1075			
.775				-.1191	-.0568		
.808				-.2221			
.834	-.1982						
.850				-.2829	-.2219	-.1377	
.857			-.3341				
.865	-.3522						
.900	-.2989			-.3900			-.2000
.905			-.4288		-.2381		
.950				-.4576		-.3132	
.953			-.4561				
.965	-.3593						

ALPHA (2) = -.405 BETA (2) = .016

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.1734	.1430	.0620	.0021	-.1366
.040		.0004	.1134				
.050	-.0818			.0053	-.0994	.0000	-.1980
.080				-.0507			
.081			.1770				
.086		.0420					
.094	.0207						

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM LWR WING

(REUW30)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.405	BETA (2) = .016	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.150							
		.163		.0047					
		.177			.0000				
		.229	.0435						
		.246		.0496					
		.250				-.0398	-.1145	-.0916	-.1138
		.274			-.0071				
		.362	.0200						
		.390		.0816					
		.400				.1142	.0856		.1543
		.402			.1694				
		.497	.0546						
		.550				.3781	.3782		
		.565			.2889				
		.600							.2700
		.650						.1949	
		.700	.2365				.1407		
		.725				.1432			
		.750						.1130	.0792
		.760			-.0251				
		.775				-.0264	.0120		
		.808			-.1394				
		.834	-.2357						
		.850				-.2269	-.1978	-.1014	
		.857			-.3168				
		.865	-.3058						
		.900	-.3285			-.3434			-.1977
		.905			-.4207		-.2597		
		.950				-.4199		-.2839	
		.953			-.4961				
		.965	-.3860						

ALPHA (2) = -.360 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.4582	.3022	.2286	.1864	.0481
.040		.1387	.3547				
.050	.0320			.1659	.0482	.0000	-.0458
.080				.0860			
.081			.2439				
.086		.1788					
.094	.0784						
.150				.0034	.0586	.0879	.0800
.163		.2579					
.177			.0000				
.229	.1519						

ARC11-014IA19 OTS+STRUT SRB-NOM HPS-NOM LVR WING

(REU30)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -3.60 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		.1526					
.250				.2562	.1873	.1432	.3627
.274			.2337				
.362	.2045						
.390		.2624					
.400				.3531	.4470		.3708
.402			.3124				
.497	.2397						
.520				.4440	.4155		
.565			.4331				
.600							.2470
.690						.2093	
.700	.4094				.1686		
.725				.1803			
.750						.1279	.0565
.760			.0193				
.775				.0207	.0415		
.808			-.0964				
.834	-.2154						
.850				-.2020	-.2076	-.0977	
.857				-.2964			
.865	-.3389						
.900	-.3125			-.3234			-.1992
.905				-.4086	-.2858		
.950				-.4028		-.2825	
.953				-.4975			
.965	-.4023						

ALPHA (3) = 3.819 BETA (1) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.4021	.3119	.2785	.2813	.2885
.040		.0252	.3330				
.050	.0660			.1731	.0968	.0000	.1689
.080				.0807			
.081			.2057				
.086		.0343					
.094	.0459						
.150				.0186	.1151	.1883	.1738
.163		.0944					
.177			.0000				
.229	.0651						
.246		.0751					
.250				.2828	.1928	.1582	.2297
.274			.1694				
.362	.1272						

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ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM LWR WING

(REUN30)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.819	BETA (1) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.390		.1922					
		.400				.2599	.3484		.3629
		.402			.2483				
		.497	.1690						
		.550				.4103	.3990		
		.565			.3719				
		.600							.2285
		.650						.1889	
		.700	.3180				.1544		
		.725				.1569			
		.750						.1075	.0392
		.760							
		.775							
		.808							
		.834	-.2171						
		.850							
		.857							
		.865	-.3209						
		.900	-.3324						
		.905							
		.950							
		.953							
		.965	-.3874						

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REUW31) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-CB = .000
 RUDDER = .000 MACH = .900
 GIMBAL = 2.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.020	BETA (1) = .006	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.0560	-.3530	-.5206	-.8341	-.9935
		.040		.0927	-.0028				
		.050	.0204			-.3771	-.5355	.0000	-.8675
		.080				-.3332			
		.081			-.0939				
		.086		.0901					
		.094	.0256						
		.150				-.2085	-.2148	-.2491	-.2070
		.163		.0474					
		.177			.0000				
		.229	.0280						
		.246		-.0688					
		.250				-.0967	-.1091	-.1542	-.2311
		.274			-.0905				
		.362	.0174						
		.390		-.0503					
		.400				-.0089	-.0502		-.2211
		.402			-.0141				
		.497	-.0353						
		.550				-.0854	-.1602		
		.565			-.0340				
		.600							-.3538
		.650							-.4435
		.700	-.0063				-.5041		
		.725				-.4719			
		.750						-.6611	-.6034
		.760			-.6059				
		.775				-.9772	-.7422		
		.808			-.7774				
		.834	-.4597						
		.850				-.3672	-.4752	-.4038	
		.857			-.4350				
		.865	-.7508						
		.900	-.4246			-.3442			-.3148
		.905			-.3274		-.3206		
		.950				-.3142		-.2542	
		.953			-.2552				
		.965	-.3317						

ORIGINAL PAGE IS
 OF POOR QUALITY

ARC11-014IA19 OTS+STRUT SRB-OFF MP3-OFF LWR WING

(REUW31)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.288	BETA (1) = -4.003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			-.0340	-.2840	-.4097	-.5204	-.6490
		.040		-.0282	-.0601				
		.050	-.1046			-.3376	-.4606	.0000	-.3932
		.080				-.2907			
		.081			-.1080				
		.086	-.0219						
		.094	-.0920						
		.150				-.2034	-.2247	-.2206	-.2567
		.163		-.0397					
		.177			.0000				
		.229	-.0752						
		.246		-.0831					
		.250				-.1152	-.1223	-.1429	-.2254
		.274			-.1082				
		.362	-.0505						
		.390		-.0890					
		.400				-.0517	-.0769		-.2444
		.402			-.0750				
		.497	-.0843						
		.550				-.1406	-.1900		
		.565			-.1238				
		.600							-.3629
		.650						-.4688	
		.700	-.0928				-.5284		
		.725				-.4888			
		.750						-.6679	-.5325
		.760			-.4999				
		.775				-.8737	-.7648		
		.808			-.6904				
		.834	-.4315						
		.850				-.6550	-.6041	-.5924	
		.857			-.5517				
		.865	-.7556						
		.900	-.4554			-.3177			-.3953
		.905			-.3712		-.3581		
		.950				-.2391		-.3265	
		.953			-.2373				
		.965	-.3269						

ALPHA (2) = -.279 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.2309	-.0264	-.0727	-.1050	-.1775
.040		.1347	.1527				
.050	.0347			-.1197	-.1740	.0000	-.2375
.080				-.1185			
.081			.0482				
.086		.1518					
.094	.0437						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 QTS*STRUT SRE-OFF MPB-OFF LWR WING

(REU-31)

SECTION (1) LOWER WING

DEPENDENT VARIABLE C_p

ALPHA (2) = -.279 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.150				-.0727	-.0619	-.0669	-.1333
.165		.1264					
.177			.0000				
.229	.0517						
.246		.0253					
.257				.0057	.0061	-.0356	-.1213
.274			.0185				
.362	.0735						
.390		.0410					
.400				.0582	.0169		-.1760
.402			.0712				
.497	.0369						
.550				-.0438	-.1185		
.565			.0259				
.600							-.3181
.650						-.4083	
.700	.0469				-.4665		
.725				-.4303			
.750						-.6273	-.3697
.760			-.5638				
.775				-.8714	-.7032		
.808			-.7313				
.834	-.4844						
.850				-.3531	-.4934	-.3285	
.857			-.3673				
.865	-.7657						
.900	-.4014			-.3304			-.4616
.905			-.2605		-.3027		
.950				-.3234		-.2263	
.953			-.1972				
.965	-.2710						

ALPHA (2) = -.264 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020				.3956	.2144	.2052	.1842
.040		.2182	.2936				.1038
.050	.1333			.0894	.0559	.0000	-.0194
.080				.0593			
.081			.1848				
.086		.2434					
.094	.1575						
.150				.0678	.0674	.0461	-.0332
.163		.2302					
.177			.0000				
.229	.1678						

ARC11-014IA19 QTS+STRUT SRB-OFF HPS-OFF LWR WING

(REUM31)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.264 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		.1309					
.250				.1175	.0950	.0398	-.0625
.274			.1281				
.362	.1713						
.390		.1480					
.400				.1278	.0687		-.1399
.402			.1642				
.497	.1520						
.550				-.0095	-.0930		
.585			.0758				
.600							-.3004
.650						-.3923	
.700	.1511				-.4513		
.725				-.4150			
.750						-.6174	-.5533
.760			-.5854				
.775				-.9136	-.6921		
.808			-.7326				
.834	-.4539						
.850				-.3873	-.5650	-.5807	
.857			-.3945				
.865	-.8240						
.900	-.4938			-.3299			-.3363
.905			-.2960		-.3851		
.950				-.2900		-.2165	
.953			-.2210				
.965	-.3822						

ALPHA (3) = -3.978 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.3810	.1998	.2056	.2445	.1942
.040		.1395	.2604				
.050	.0240			.0655	.0587	.0000	.0529
.080				.0274			
.081			.1480				
.086		.1304					
.094	.0480						
.150				.0295	.0557	.0573	-.0107
.163		.1814					
.177			.0800				
.229	.0710						
.246		.0862					
.290				.0781	.0729	.0401	-.0652
.274			.0718				
.362	.1129						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REUW31)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.978	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.390		.0852					
		.400				.0913	.0466		-.1592
		.402			.1012				
		.497	.0844						
		.550				-.0360	-.1121		
		.565			.0317				
		.600							-.3273
		.650						-.4077	
		.700	.0708				-.4618		
		.725				-.4183			
		.750						-.6033	-.5675
		.760			-.5668				
		.775				-.8443	-.6889		
		.808			-.7480				
		.834	-.4855						
		.850				-.3665	-.5640	-.7573	
		.857			-.4048				
		.865	-.7572						
		.900	-.4088			-.3187			-.9030
		.905			-.2672		-.3591		
		.950				-.2853		-.2801	
		.953			-.2025				
		.965	-.2748						

ARC11-014IA19 OTS+STRUT SRB-OFF WPS-OFF LWR WING

(REUW32) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 2.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -3.906	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.3186	-.0013	-.1025	-.2562	-.4669
		.040		.0645	.2169				
		.060	-.1090			-.0603	-.1801	.0000	-.3815
		.080				-.0806			
		.081			.1372				
		.086		.1482					
		.094	-.1018						
		.150				.0234	.0405	.0384	.0368
		.163		.1932					
		.177			.0000				
		.229	.0187						
		.246		.1121					
		.250				.1236	.1210	.1078	.0591
		.274			.1103				
		.362	.1571						
		.390		.1311					
		.400				.1937	.1802		.0674
		.472			.1676				
		.497	.1384						
		.550				.1489	.1066		
		.565			.1589				
		.600							-.0439
		.650						-.1150	
		.700	.1668				-.1714		
		.725				-.1602			
		.750						-.2538	-.2500
		.760			-.3554				
		.775				-.4927	-.3521		
		.808			-.5153				
		.834	-.4512						
		.850				-.5847	-.4608	-.4401	
		.857			-.6731				
		.865	-.6841						
		.900	-.5867			-.7182			-.5386
		.905			-.5170		-.4820		
		.950				-.4984		-.6406	
		.953			-.4399				
		.965	-.4837						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REUW32)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) =	BETA (1) =	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.020			.2036	.0374	-.0858	-.1764	-.2574
		.040		.0231	.1499				
		.050	-.2216			-.0427	-.1765	.0000	-.2208
		.080				-.0818			
		.081			.0886				
		.086		.0968					
		.094	-.2059						
		.150				-.0341	-.0339	.0680	.0470
		.163		.1090					
		.177			.0000				
		.229	-.0715						
		.246		.0588					
		.250				.0357	.0760	.0941	.0625
		.274			.0245				
		.362	.0631						
		.390		.0280					
		.400				.1199	.1393		.0443
		.402			.0514				
		.497	.0234			.0765	.0746		
		.550							
		.565			.0320				
		.600							-.0586
		.650						-.1311	
		.700	.0173				-.1985		
		.725				-.2037			
		.750						-.2686	-.2614
		.760			-.3746				
		.775				-.5370	-.3760		
		.808			-.5151				
		.834	-.3740						
		.850				-.3932	-.5023	-.4512	
		.857			-.6410				
		.865	-.7546						
		.900	-.5392			-.7120			-.5435
		.905			-.7362		-.5103		
		.950				-.4540		-.6440	
		.953			-.4469				
		.965	-.0726						
ALPHA (2) =	BETA (2) =	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.020			.4693	.2632	.2062	.2361	.2252
		.040		.0712	.3937				
		.050	-.0850			.1414	.0864	.0000	.1326
		.080				.1164			
		.081			.2448				
		.086		.1769					
		.094	-.0975						

SECTION (1) LOWER WING		DEPENDENT VARIABLE CP							
ALPHA (2) = -.219 BETA (3) = 4.028		2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		.3105					
		.250				.3230	.3225	.2960	.2126
		.274			.3188				
		.362	.3114						
		.390		.3299					
		.400				.3452	.3107		.1421
		.402			.3599				
		.497	.3219						
		.550				.2466	.1864		
		.565		.3044					
		.600							.0106
		.650						-.0605	
		.700	.3471				-.1129		
		.725				-.0877			
		.750						-.1764	-.2008
		.760			-.2781				
		.775				-.3816	-.2897		
		.808			-.4385				
		.834	-.5112						
		.850				-.5272	-.2956	-.3939	
		.857			-.6404				
		.865	-.6182						
		.900	-.5958			-.6654			-.5049
		.905			-.6495		-.4733		
		.950				-.7144		-.5857	
		.953			-.4196				
		.965	-.3884						
ALPHA (3) = 3.981 BETA (1) = .000		2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.5900	.4838	.4840	.5256	.1024
		.040		.1188	.4814				
		.050	-.0243			.3501	.3427	.0000	.3765
		.080				.3025			
		.081			.3734				
		.086		.2667					
		.094	.0031						
		.150				.2715	.3131	.3393	.3028
		.163		.3432					
		.177			.0000				
		.229	.0881						
		.246		.2772					
		.250				.3030	.3259	.3260	.2483
		.274			.2855				
		.362	.2529						

ARC11-014IA19 QTS+STRUT SRB-OFF MPS-OFF LWR WING

(REUW32)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.981	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.390		.2811					
		.400				.3224	.3102		.1604
		.402			.3159				
		.497	.2597						
		.550				.2350	.1934		
		.565			.2673				
		.600							.0294
		.650						-.0449	
		.700	.2655				-.1025		
		.725				-.0812			
		.750						-.1635	-.1842
		.760			-.2662				
		.775				-.3698	-.2777		
		.808			-.4174				
		.834	-.4157						
		.850				-.5108	-.3300	-.3803	
		.857			-.6207				
		.865	-.6088						
		.900	-.5898			-.6423			-.4924
		.905			-.7294		-.4536		
		.950				-.7234		-.5765	
		.953			-.4221				
		.965	-.4015						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

PAGE 589

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REUW33) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 2.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.044	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.1012	-.0932	-.1892	-.4108	-.4856
		.040		-.0138	.1398				
		.050	-.2131			-.1946	-.3475	.0000	-.5367
		.080				-.2022			
		.081			.0142				
		.086		.0051					
		.094	-.0613						
		.150				-.1477	-.1959	-.3743	-.4666
		.163		.0427					
		.177			.0000				
		.229	-.0258						
		.246		-.0182					
		.250				-.0364	-.0880	-.2019	-.3946
		.274			-.0049				
		.362	.0259						
		.390		.0383					
		.400				-.0568	-.0721		.0660
		.402			-.0020				
		.497	.0351						
		.550				.2296	.2215		
		.565			.1928				
		.600							.1403
		.650						.0522	
		.700	.1464				-.0133		
		.725				-.0152			
		.750						-.0412	-.0549
		.760			-.1801				
		.775				-.2324	-.1676		
		.808			-.3276				
		.834	-.3666						
		.850				-.3927	-.2964	-.2521	
		.857			-.4788				
		.865	-.4755						
		.900	-.4655			-.5143			-.3382
		.905			-.5835		-.3111		
		.950				-.5944		-.4338	
		.953			-.6590				
		.965	-.5422						

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REUW33)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.198 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.0867	-.0835	-.1255	-.2327	-.3876
.040		-.1236	.0198				
.050	-.1305			-.1553	-.2466	.0000	-.4372
.080				-.1083			
.081			-.0180				
.086		-.0722					
.094	-.1280						
.150				-.1456	-.1878	-.2729	-.3519
.163		-.0335					
.177			.0000				
.229	-.1738						
.246		-.0497					
.250				-.0742	-.1140	-.1644	-.2528
.274			-.0291				
.362	-.0738						
.390		-.0165					
.400				-.0626	-.1175		.0621
.402			-.0323				
.497	-.0194						
.550				.1896	.2047		
.565			.0845				
.600							.1120
.650						.0275	
.700	.0449				-.0461		
.725				-.0624			
.750						-.0721	-.0861
.760			-.2314				
.775				-.2981	-.2047		
.808			-.3657				
.834	-.3245						
.850				-.4249	-.3459	-.2783	
.857			-.4781				
.865	-.5115						
.900	-.4468			-.5393			-.3699
.905			-.5846		-.3456		
.950				-.6143		-.4608	
.953			-.4311				
.965	-.5355						

ALPHA (2) = -.162 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.3095	.0977	.0772	-.0060	-.1848
.040		-.0039	.2084				
.050	.0023			-.0020	-.0687	.0000	-.2480
.080				.0319			
.081			.0863				
.086		.0302					
.094	-.0511						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

PAGE 591

ARC11-014IA19 QTS+STRUT SRB-OFF MPS-OFF LWR WING

(RELW33)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.162	BETA (2) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.150				.0009	-.0358	-.0819	-.1114
		.163		.1209					
		.177			.0000				
		.229	-.0224						
		.246		.0582					
		.257				.0525	.0053	-.0284	.2577
		.274			.1147				
		.362	.0598						
		.390		.1383					
		.420				.2071	.3170		.2430
		.402			.1277				
		.497	.1143						
		.550				.3005	.2768		
		.565			.2794				
		.600							.1084
		.650						.0614	
		.700	.2343				.0174		
		.725				.0283			
		.750						-.0366	-.0853
		.760							
		.775				-.1793	-.1336		
		.808			-.2772				
		.834	-.3312						
		.850				-.3661	-.2938	-.2524	
		.857			-.4600				
		.865	-.4515						
		.900	-.4655			-.4894			-.3523
		.935			-.5687		-.2968		
		.950				-.5724		-.4373	
		.955			-.6496				
		.965	-.5306						

ALPHA (2) = -.210 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.5714	.3332	.2891	.3099	.3300
.040		.1288	.3988				
.050	.0355			.1970	.1132	.0000	.2539
.050				.1358			
.061			.3207				
.086		.1701					
.094	.1015						
.150				.1666	.2606	.3211	.2990
.163		.2706					
.177			.0000				
.229	.1403						

ARC11-014IA19 QTS+STRUT SRB-OFF MPS-OFF LWR WING

(RELU33)

SECTION (1) LOWER WING

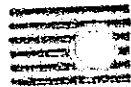
DEPENDENT VARIABLE CP

ALPHA (2) = -.210 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		.2570					
.250				.3240	.3529	.3539	.2892
.274			.2408				
.362	.2021						
.390		.2738					
.400				.4097	.3939		.2458
.402			.3807				
.497	.2707				.3594	.3083	
.550				.3840			
.565							.1377
.600						.0754	
.650					.0371		
.700	.4055						
.725				.0599			
.750						-.0059	-.0610
.760			-.1131				
.775				-.1336	-.1064		
.808			-.2427				
.834	-.3577						
.850				-.3492	-.3060	-.2371	
.857			-.4501				
.965	-.4652						-.3353
.970	-.4570			-.4764			
.995			-.5702		-.3529		
.995				-.5626		-.4245	
.953			-.6647				
.965	-.5454						

ALPHA (3) = 3.886 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020				.4683	.3874	.3511	.4663
.040		-.0283		.3686			.5087
.050	.0177				.2379	.1713	.0000
.080					.1513		.3959
.081			.2777				
.086		.0748					
.094	-.0018						
.150				.1565	.3162	.3766	.3621
.163		.1782					
.177			.0000				
.229	-.0007						
.246		.1845					
.250				.3178	.3479	.3850	.3235
.274			.2863				
.362	.1132						



ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING (REU33)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.846 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.390		.2241					
.400				.3692	.3821		.2544
.402			.3225				
.497	.2016						
.550				.3313	.2996		
.565			.3280				
.600							.1378
.650						.0782	
.700	.3025				.0336		
.725				.0463			
.750						-.0075	-.0583
.760			-.1284				
.775				-.1585	-.1129		
.808			-.2459				
.834	-.3454						
.850				-.3518	-.3153	-.2358	
.857			-.4571				
.865	-.4655						
.900	-.4709			-.4741			-.3336
.905			-.5664		-.3666		
.950				-.5607		-.4235	
.953			-.6539				
.965	-.5340						

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REUM34) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 2.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -3.981	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.0595	-.1349	-.1341	-.3081	-.3560
		.040		.0108	.0128				
		.060	-.1229			-.1110	-.2545	.0000	-.4081
		.080				-.1057			
		.081			-.0557				
		.086		-.0101					
		.094	.0141						
		.120				-.1863	-.2413	-.3214	-.3707
		.163		-.0273					
		.177			.0000				
		.229	-.0032						
		.246		.0052					
		.250				-.1503	-.2192	-.2837	-.3210
		.274			-.0596				
		.362	-.0305						
		.390		.0089					
		.400				.0473	.0303		-.2535
		.492			.0733				
		.497	.0021						
		.550				.2671	.3080		
		.565			.1777				
		.600							.1452
		.690						.1702	
		.700	.1555				.1172		
		.725				.0977			
		.750						.0971	.1171
		.760		-.0494					
		.775			-.0634	-.0253			
		.808		-.1863					
		.834	-.3034						
		.857			-.2477	-.1842	-.1076		
		.857		-.3346					
		.865	-.3622						
		.900	-.3915			-.3638			-.1601
		.905			-.4390	-.2016			
		.950				-.4397		-.2053	
		.953		-.5160					
		.965	-.4396						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

PAGE 595

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF LWR WING

(REUM34)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) =	BETA (1) =	2Y/B	.299	.364	.427	.534	.641	.780	.887
	-4.000	X/C							
		.020			.0739	-.0242	-.0863	-.1841	-.2722
		.040		-.0899	.0658				
		.050	-.0995			-.1512	-.2512	.0000	-.3317
		.080				-.1829			
		.081			-.0053				
		.086		-.0859					
		.094	-.0724						
		.150				-.2257	-.2548	-.2914	-.2905
		.163		-.0169					
		.177			.0000				
		.229	-.1244						
		.246		-.0777					
		.250				-.1274	-.1931	-.2331	-.2366
		.274			-.0724				
		.362	-.0280						
		.390		-.0425					
		.400				-.0025	-.0041		-.0869
		.402			.0166				
		.497	-.0352						
		.520				.1655	.2284		
		.565			.0862				
		.620							.0807
		.650						.1512	
		.700	.0516				.0865		
		.725				.0402			
		.750						.0749	.0774
		.760			-.1157				
		.775				-.1201	-.0535		
		.808				-.2330			
		.834	-.2238						
		.850				-.2828	-.2217	-.1348	
		.857			-.3437				
		.865	-.3800						
		.900	-.3637			-.3898			-.1984
		.905			-.4374		-.2416		
		.950				-.4611		-.3113	
		.953			-.5140				
		.965	-.4317						
ALPHA (2) =	BETA (2) =	2Y/B	.299	.364	.427	.534	.641	.780	.887
	.009	X/C							
		.020			.1846	.1476	.0723	.0181	-.1255
		.040		.0057	.1292				
		.050	-.0751			.0124	-.0927	.0000	-.1850
		.080				-.0472			
		.081			.1776				
		.086		.0410					
		.094	.0185						

ARC11-014IA19 QTS+STRUT SRB-OFF MPS-OFF LWR WING

(RELW34)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.231	BETA (2) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.150				-.0987	-.1156	-.1461	-.1483
		.163		.0072					
		.177			.0000				
		.229	.0439						
		.246		.0479					
		.250				-.0281	-.1021	-.0649	-.0991
		.271			.0010				
		.362	.0308						
		.390		.0928					
		.400				.1151	.0840		.1563
		.402			.1786				
		.497	.0396						
		.550				.3800	.3800		
		.565			.2936				
		.600							.2680
		.650						.1940	
		.700	.2381				.1430		
		.725				.1448			
		.750						.1150	.0760
		.760			-.0221				
		.775				-.0357	.0133		
		.808			-.1375				
		.834	-.2657						
		.850				-.2243	-.1972	-.1014	
		.857			-.3166				
		.865	-.3457						
		.900	-.3649			-.3417			-.1983
		.905			-.4227		-.2610		
		.950				-.4197		-.2840	
		.953			-.5061				
		.965	.4198						

ALPHA (2) = -.210 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.4618	.3045	.2349	.1941	.0818
.040		.1401	.3560				
.050	.0384			.1668	.0521	.0000	-.0342
.080				.0825			
.081			.2453				
.086		.1820					
.094	.0782						
.150				.0174	.0775	.1114	.0975
.163		.2548					
.177			.0000				
.222	.1510						

ARC11-0141A19 OTS+STRUT SRB-OFF W/S-OFF LWR WING

(RELM34)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.210 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		.1494					
.250				.2509	.1805	.1466	.3815
.274			.2304				
.362	.1343						
.390		.2536					
.400				.3795	.4486		.3625
.402			.3151				
.497	.2430						
.550				.4379	.4094		
.565			.4303				
.600							.2394
.650						.1967	
.700	.4118				.1641		
.725				.1771			
.750						.1208	.0497
.760			.0155				
.775				-.0002	.0376		
.808			-.0992				
.834	-.2296						
.850				-.2049	-.2164	-.1033	
.857			-.2996				
.865	-.3637						
.900	-.3580			-.3267			-.2043
.905			-.4119		-.2949		
.950				-.4075		-.2880	
.953			-.5016				
.965	-.4156						

ALPHA (3) = 3.930 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.4244	.3125	.2792	.2900	.2780
.040		.0237	.3296				
.050	.0636			.1676	.0964	.0000	.1653
.080				.0795			
.081			.2079				
.086		.0307					
.094	.0931						
.150				.0403	.1494	.1783	.1642
.163		.1193					
.177			.0000				
.229	.0605						
.246		.0770					
.250				.2722	.1858	.1512	.2220
.274			.1750				
.352	.1282						

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ARC11-014IA19 QTS+STRUT SRB-OFF NPS-OFF LWR WING

(REUWS4)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.930	BETA (1) = .093	2Y/B X/C	.299	.364	.427	.534	.641	.786	.087
		.390		.1954					
		.400				.2628	.3371		.3579
		.402			.2437				
		.497	.1646						
		.550				.4055	.3940		
		.565			.3673				
		.610							.2264
		.650						.1862	
		.700	.3127				.1497		
		.725				.1569			
		.750						.1054	.0346
		.760			-.0106				
		.775				-.0222	.0205		
		.800				.1144			
		.834	-.2425						
		.850					-.2175	-.2159	-.1150
		.857			-.3146				
		.865	-.3641						
		.900	-.3694				-.3338		-.2145
		.905			-.4190		-.3003		
		.950				-.4139		-.2978	
		.953			-.5051				
		.965	-.4182						

ARC11-014TA19 OTS+STRUT SRB-NCM MPS-NCM LWR WING

(REUW35) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = .900
 GIMBAL = 2.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.308	BETA (1) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.0530	-.3609	-.5263	-.8821	-1.0111
		.040		.0955	-.0036				
		.050	.0272			-.3773	-.5418	.0000	-.8821
		.080				-.3285			
		.081			-.0925				
		.086		.0943					
		.094	.0292						
		.130				-.2118	-.2183	-.2611	-.3002
		.163		.0514					
		.177			.0000				
		.229	.0280						
		.246		-.0675					
		.250				-.1017	-.1112	-.1554	-.2276
		.274			-.0909				
		.362	.0208						
		.390		-.0518					
		.400				-.0098	-.0460		-.2129
		.402			-.0111				
		.497	-.0357						
		.550				-.0833	-.1532		
		.565		-.0282					
		.600							-.3424
		.650						-.4347	
		.700	-.0381				-.4969		
		.725				-.4699			
		.750						-.6364	-.5878
		.760			-.6392				
		.775				-.9371	-.7348		
		.808			-.8345				
		.834	-.5709						
		.850				-.4980	-.7649	-.8130	
		.857			-.5967				
		.865	-.9099						
		.900	-.5635			-.4320			-.9258
		.905			-.4522		-.4684		
		.950				-.4404		-.3930	
		.953			-.3918				
		.965	-.4224						

ARC11-014IA19 QTS+STRUT SRB-NOM MFS-NOM L&R WING

(REUW55)

SECTION (1) LOWER WING

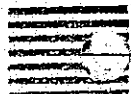
DEPENDENT VARIABLE CP

ALPHA (2) = -.390 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			-.0412	-.3717	-.4307	-.5435	-.6781
.040		-.0315	-.0643				
.050	-.1060			-.3401	-.4741	.0000	-.6373
.080				-.2999			
.081			-.1115				
.086		-.0269					
.094	-.0947						
.150				-.2116	-.2383	-.2263	-.2615
.163		-.0446					
.177			.0000				
.229	-.0814						
.246		-.0854					
.250				-.1229	-.1275	-.1473	-.2365
.274			-.1109				
.362	-.0575						
.390		-.0940					
.400				-.0620	-.0819		-.2479
.402			-.0740				
.497	-.0922						
.550				-.1478	-.1931		
.565			-.1277				
.600							-.3857
.650						-.4731	
.700	-.1003				-.5397		
.725				-.5113			
.750						-.6705	-.6385
.760			-.5795				
.775				-.9358	-.7791		
.808			-.7710				
.834	-.5029						
.850				-.9265	-.8153	-.8586	
.857			-.7164				
.865	-.8841						
.900	-.5552			-.4895			-.9858
.905			-.4812		-.4567		
.950				-.4201		-.4735	
.953			-.3361				
.965	-.4340						

ALPHA (2) = -.384 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.2255	-.0406	-.0890	-.1245	-.1991
.040		.1292	.1412				
.050	.0293			-.1312	-.1864	.0000	-.2608
.080				-.1312			
.081			.0356				
.086		.1434					
.094	.0386						



ARC11-014IA19 OTS+STRUT SRB-NOM MPS-N: 1 LWR WING

(REUM55)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.384	BETA (2) = .012	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.150				-.0825	-.0773	-.0772	-.1479
		.163		.1180					
		.177			.0000				
		.229	.0451						
		.246		.0204					
		.250				-.0052	-.0066	-.0429	-.1310
		.274			.0111				
		.362	.0627						
		.390		.0336					
		.400				.0466	.0099		-.1861
		.402			.0640				
		.497	.0301						
		.550				-.0526	-.1257		
		.565			.0190				
		.600							-.3283
		.650						-.4203	
		.700	.0382				-.4810		
		.725				-.4456			
		.750						-.6251	-.5840
		.760			-.6084				
		.775				-.8855	-.7205		
		.808			-.8069				
		.834	-.5982						
		.850				-.4953	-.7083	-.7939	
		.857			-.4745				
		.865	-.9075						
		.900	-.5666			-.4135			-.9488
		.905			-.3815		-.4386		
		.950				-.4345		-.3215	
		.955			-.3391				
		.965	-.3866						

ALPHA (2) = -.345	BETA (3) = 4.025	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.020				.3841	.2029	.1829	.1702	.0819
		.040		.2113		.2838				
		.050	.1297			.0749	.0403	.0000	-.0384	
		.080				.0479				
		.081				.1735				
		.086		.2385						
		.094	.1519							
		.150				.0559	.0547	.0348	-.0449	
		.163		-.2224						
		.177			.0000					
		.229	.1636							

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ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM LWR WING

(REV35)

SECTION (1) LOWER WING		DEPENDENT VARIABLE CP									
ALPHA (2) =	- .345	BETA (3) =	4.025	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.246		.1216					
				.250				.1126	.0846	.0285	-.0740
				.274			.1182				
				.362	.1600						
				.390		.1381					
				.400				.1188	.0591		-.1496
				.402			.1570				
				.497	.1398						
				.550				-.0212	-.1027		
				.565			.0676				
				.600							-.3120
				.650						-.4010	
				.700	.1402				-.4678		
				.725				-.4326			
				.750						-.6231	-.5629
				.760				-.6370			
				.775				-.9269	-.7146		
				.808			-.8133				
				.834	-.5542						
				.850				-.5864	-.6416	-.7923	
				.857			-.5032				
				.865	-.9118						
				.900	-.5890			-.4524			-.9101
				.905			-.3966		-.5916		
				.950				-.4340		-.3021	
				.953			-.3408				
				.965	-.4799						
ALPHA (3) =	3.903	BETA (1) =	.006	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.020			.3694	.1912	.1951	.2296	.1850
				.040		.1299	.2553				
				.050	.0183			.0538	.0458	.0000	.0431
				.060				.0198			
				.081			.1385				
				.086		.1753					
				.094	.0405						
				.150				.0210	.0498	.0455	-.0214
				.163		.1731					
				.177			.0000				
				.229	.0644						
				.246		.0789					
				.250				.0674	.0660	.0317	-.0780
				.274			.0642				
				.362	.1044						

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TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM LWR WING (REUM35)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.903	BETA (1) = .006	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.390		.0747					
		.400				.0812	.0356		-.1767
		.402			.0916				
		.497	.0754						
		.550				-.0517	-.1262		
		.565			.0198				
		.600							-.3415
		.650						-.4240	
		.700	.0581				-.4826		
		.725				-.4426			
		.750						-.6179	-.5847
		.760				-.6169			
		.775				-.8650	-.7178		
		.808				-.8083			
		.834	-.5767						
		.850				-.5186	-.6986	-.8125	
		.857				-.4955			
		.865	-.8643						
		.900	-.5152			-.4268			-.9561
		.905				-.3832	-.5479		
		.950				-.4000		-.3819	
		.953				-.3446			
		.965	-.3491						

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 2.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.008	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.3325	-.0055	-.1316	-.2966	-.5102
		.040		.1933	.2346				
		.050	-.1061			-.0666	-.2091	.0000	-.4144
		.080				-.0827			
		.081			.1433				
		.086		.2250					
		.094	-.0793						
		.150				.0110	.0294	.0286	.0216
		.163		.2194					
		.177			.0000				
		.229	.0562						
		.246		.1263					
		.250				.1149	.1158	.0984	.0508
		.274			.1068				
		.362	.1750						
		.390		.1362					
		.400				.1864	.1743		.0598
		.402			.1633				
		.497	.1420						
		.550				.1402	.0998		
		.565			.1513				
		.600							-.0512
		.650						-.1229	
		.700	.1703				-.1805		
		.725				-.1716			
		.750						-.2627	-.2568
		.760			-.3667				
		.775			-.5041	-.3623			
		.808			-.5267				
		.834	-.4642						
		.850				-.5964	-.4705	-.4484	
		.857			-.6864				
		.865	-.6978						
		.900	-.6059			-.7297			-.5483
		.905			-.5701		-.4925		
		.950				-.5782		-.6494	
		.953			-.4606				
		.965	-.5330						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - 1A19 (ARC 11-014)

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ARC11-0141A19 OTS+STRUT SRB-NOM MPS-NOM LWR WING

(REUW36)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.342 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.1780	.0021	-.1047	-.1963	-.3038
.040		.0636	.1347				
.050	-.2030			-.0602	-.1873	.0000	-.2475
.080				-.0939			
.081			.0831				
.086		.1046					
.094	-.1460						
.150				-.0199	-.0223	.0447	.0418
.163		.1075					
.177			.0000				
.229	-.0214						
.246		.0689					
.250				.0421	.0634	.0869	.0454
.274			.0459				
.362	.0727						
.390		.0543					
.400				.1205	.1319		.0323
.402			.0689				
.497	.0427						
.550				.0686	.0612		
.565			.0408				
.600							-.0770
.650						-.1470	
.700	.0324				-.2150		
.725				-.2178			
.750						-.2887	-.2815
.760			-.3913				
.775				-.5584	-.3986		
.808			-.5347				
.834	-.4020						
.850				-.6135	-.5219	-.4712	
.857			-.6560				
.865	-.7755						
.900	-.5640			-.7376			-.5685
.905			-.7784		-.5285		
.950				-.4931		-.6656	
.953			-.4691				
.965	-.5188						

ALPHA (2) = -.318 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.4939	.2678	.2271	.2245	.1825
.040		.2003	.3846				
.050	-.0868			.1523	.1140	.0000	.1015
.080				.1296			
.081			.2803				
.086		.2794					
.094	-.0893						

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ARC11-014IA19 OTS+STRUT SRB-NOM HPS-NOM LWR WING

(REUW36)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.318	BETA (2) = .012	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.150				.1335	.1743	.1998	.1589
		.163		.2995					
		.177			.0000				
		.229	.0364						
		.246		.2237					
		.250				.2079	.2335	.2240	.1545
		.274			.2122				
		.362	.2047						
		.390		.2252					
		.400				.2622	.2549		.1060
		.402			.2570				
		.497	.1994						
		.550				.1999	.1534		
		.565			.2289				
		.600							-.0091
		.650						-.0848	
		.700	.2236				-.1359		
		.725			-.1162				
		.750						-.2234	-.2231
		.760			-.3019				
		.775				-.4286	-.3185		
		.808			-.4671				
		.834	-.4026						
		.850				-.5465	-.4076	-.4114	
		.857			-.6445				
		.865	-.6289						
		.900	-.5581			-.6786			-.5241
		.905			-.6051		-.4497		
		.950				-.5241		-.6097	
		.953			-.4141				
		.965	-.4382						

ALPHA (2) = -.417 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
.020				.6002	.4428	.4237	.4263	.3765
.040		.3227		.4905				
.050	.1446			.3169	.2899	.0000	.2581	
.080				.2758				
.081			.3867					
.086		.3758						
.094	.1808							
.150				.2784	.2935	.2948	.2308	
.163		.4009						
.177			.0000					
.229	.2546							

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TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM LWR WING

(RELW36)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.417 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		.3177					
.250				.3253	.3184	.2850	.2006
.274			.3176				
.362	.3301						
.390		.3358					
.400				.3423	.3045		.1310
.402			.3395				
.497	.3291			.2408	.1783		
.550				.2994			
.565							.5010
.600						-.0724	
.693					-.1238		
.700	.3473						
.725				-.0989			
.750						-.1913	-.2134
.760			-.2900				
.775				-.4004	-.3054		
.808			-.4533				
.834	-.5188						
.850				-.5423	-.3017	-.4094	
.857			-.6536				
.865	-.6283						
.900	-.6332			-.6807			-.5197
.905			-.6418		-.4940		
.950				-.7002		-.5959	
.953			-.4232				
.965	-.3985						

ALPHA (3) = 3.717 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.5746	.4292	.4417	.4701	.4417
.040		.2487	.4584				
.050	.0219			.2993	.2986	.0000	.3237
.060				.2551			
.081			.3514				
.086		.3254					
.094	.0649						
.150				.2475	.2776	.2937	.2532
.165		.3504					
.177			.0000				
.209	.1626						
.246		.2675					
.250				.2842	.2963	.2897	.2074
.274			.2647				
.362	.2681						

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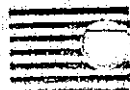
ARC11-014IA19 QTS+STRUT SRB-NOM MPS-NOM LWR WING

(REUM36)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (S) = 3.717	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.390		.2702					.1221
		.400				.3017	.2827		
		.402			.2933				
		.497	.2593						
		.550			.2084	.1630			
		.565			.2397				
		.600							-.0091
		.650						-.0817	
		.700	.2470				-.1364		
		.725				-.1170			
		.750						-.2069	-.2225
		.760			-.3044				
		.775				-.4191	-.3206		
		.808			-.4608				
		.834	-.4491						
		.851				-.5481	-.3599	-.4210	
		.857			-.6617				
		.865	-.6588						
		.900	-.6237			-.6829			-.5294
		.905			-.7726		-.4969		
		.950				-.7648		-.6190	
		.953			-.4618				
		.965	-.4444						



ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM LWR WING

(REUW37) (19 OCT 74)

REFERENCE DATA

SREF = 2698.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 2.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.149 BETA (1) = .006

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020				.0756	-.1101	-.2060	-.4294
.040		-.0177		.1331			-.5040
.050	-.2205			-.2077	-.3654	.0000	-.5551
.080				-.2091			
.081				.0057			
.086		-.0015					
.094	-.0643						
.150				-.1536	-.2026	-.3859	-.4838
.163		.0311					
.177				.0000			
.229	-.0312						
.246		-.0234					
.250				-.0394	-.0985	-.2177	-.4195
.274				-.0142			
.362	.0233						
.390		.0322					
.400				-.0516	-.0658		.0507
.402				-.0093			
.497	.0315						
.550				.2217	.2121		
.565				.1833			
.600							.1330
.650						.0450	
.700	.1393				-.0234		
.725				-.0236			
.750						-.0485	-.0608
.760				-.1877			
.775				-.2421	-.1776		
.808				-.3384			
.834	-.3511						
.850				-.4022	-.3048	-.2594	
.857				-.4852			
.865	-.4724						
.900	-.4480			-.5228			-.3430
.905				-.5870	-.3192		
.950				-.6024		-.4407	
.953				-.6283			
.965	-.5313						

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ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM LWR WING

(RELM37)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.414 BETA (1) = -4.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.0796	-.0928	-.1343	-.2416	-.4012
.040		-.1190	.0173				
.050	-.1315			-.1543	-.2566	.0000	-.4465
.080				-.1087			
.081			-.0529				
.086		-.0801					
.094	-.1288						
.150				-.1490	-.1949	-.2799	-.3633
.163		-.0368					
.177			.0000				
.229	-.1722						
.246		-.0469					
.250				-.0729	-.1184	-.1631	-.2677
.274			-.0307				
.362	-.0742						
.390		-.0130					
.400				-.0615	-.1182		.0778
.402			-.0288				
.497	-.0193						
.550				.1931	.2044		
.565			.0854				
.600							.1092
.650						.0260	
.700	.0465				-.0498		
.725				-.0642			
.750						-.0745	-.0868
.760			-.2256				
.775				-.2993	-.2094		
.808			-.3605				
.834	-.3095						
.850				-.4251	-.3463	-.2789	
.857			-.4737				
.865	-.4898						
.900	-.4172			-.5392			-.3708
.905			-.5790		-.3452		
.950				-.6127		-.4610	
.953			-.4099				
.965	-.4891						

ALPHA (2) = -.459 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.3148	.0915	.0662	-.0258	-.2006
.040		-.0096	.2024				
.050	.0016			-.0088	-.0751	.0000	-.2698
.080				.0241			
.081			.0825				
.086		.0284					
.094	-.0530						

DATE 01 MAY 75

TABLATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM LWR WING

(REV37)

SECTION (1) LCHER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.459	BETA (2) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.150				-.0089	-.0399	-.0861	-.1186
		.163		.1191					
		.177			.0000				
		.229	-.0223						
		.246		.0558					
		.250				.0540	.0024	-.0307	.2482
		.274			.1140				
		.362	.0588						
		.390		.1369					
		.400				.2021	.3107		.2417
		.402			.1274				
		.497	.1117			.2992	.2750		
		.550				.2769			
		.565							.1064
		.600						.0592	
		.650						.0155	
		.700	.2325			.0261			
		.725						-.0385	-.0872
		.750							
		.760			-.1493				
		.775				-.1821	-.1367		
		.808			-.2803				
		.834	-.3098						
		.850				-.3683	-.2931	-.2533	
		.857			-.4608				
		.865	-.4417						
		.900	-.4466			-.4908			-.3549
		.905			-.5673		-.2983		
		.950				-.5737		-.4384	
		.953			-.6475				
		.965	-.5133						

ALPHA (2) = -.468	BETA (3) = 4.028	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.020				.4990	.3254	.2723	.2907	.3297
		.040		.1348		.3907				
		.050	.0104				.1933	.1097	.0000	.2433
		.080					.1252			
		.081				.3189				
		.086		.1285						
		.094	.1016							
		.150				.1603	.2181	.3231	.2990	
		.163		.2706						
		.177				.0000				
		.229	.1390							

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ARC11-014IA19 OTS+STRUT SRB-NON MPB-NON LWR WING

(REU437)

SECTION (1) LOWER WING

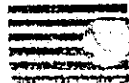
DEPENDENT VARIABLE CP

ALPHA (2) = -.468 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		.2589					
.250				.3127	.3514	.3530	.2940
.274			.2449				
.362	.2006						
.390		.2752					
.400				.4111	.3967		.2498
.402				.3893			
.497	.2724						
.550				.3615	.3104		
.565				.3926			
.600							.1396
.650						.0771	
.700	.4007				.0378		
.725				.0601			
.750						-.0035	-.0591
.760			-.1120				
.775				-.1334	-.1056		
.808			-.2427				
.834	-.3490						
.850				-.3481	-.3021	-.2346	
.857			-.4488				
.865	-.4399						
.900	-.4367			-.4765			-.3348
.905				-.5686	-.3452		
.950					-.5621	-.4239	
.953				-.6602			
.965	-.5281						

ALPHA (3) = 3.864 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.4704	.3833	.3504	.4613	.5009
.040		-.0303	.3637				
.050	.0128			.2319	.1670	.0000	.4021
.080				.1460			
.081			.2791				
.086		.0755					
.094	-.0052						
.150				.1585	.3140	.3726	.3605
.163		.1772					
.177			.0000				
.229	-.0054						
.246		.1853					
.250				.3172	.3480	.3836	.3220
.274			.2080				
.362	.1092						



ARC11-014IA19 QTS*STRUT SRD-NOM MPS-NOM LWR WING

(REU:37)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.864 BETA (1) = .003

2Y/B %C	.299	.364	.427	.534	.641	.787	.887
.390		.2179					
.400				.3680	.3811		.2503
.402			.3222				
.497	.2050						
.550				.3268	.2977		
.565			.3284				
.600							.1324
.650						.0724	
.700	.3015				.0268		
.725				.0386			
.750						-.0654	-.0657
.760			-.1334				
.775				-.1640	-.1215		
.808			-.2525				
.834	-.3346						
.850				-.3604	-.3207	-.2419	
.857			-.4641				
.865	-.4589						
.900	-.4619			-.4818			-.3417
.905			-.5725		-.3734		
.950				-.5692		-.4305	
.953			-.6546				
.965	-.5281						

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ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM LWR WING

(REU-38) (19 OCT 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 2.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.155	BETA (1) = .003	2Y/B VC	.299	.364	.427	.534	.641	.780	.867
		.020			.0557	-.1384	-.1397	-.3108	-.3628
		.040		.0074	.0094				
		.050	-.1253			-.1218	-.2577	.0000	-.4148
		.060				-.1110			
		.081			-.0636				
		.086		-.0094					
		.094	.0088						
		.150				-.1902	-.2445	-.3250	-.3743
		.163		-.0289					
		.177			.0000				
		.229	-.0084						
		.246		.0015					
		.250				-.1521	-.2227	-.2883	-.3238
		.274			-.0624				
		.362	-.0406						
		.390		.0060					
		.400				.0454	.0289		-.2576
		.402			.0720				
		.497	-.0022						
		.550				.2703	.3040		
		.565			.1769				
		.600							.1496
		.650						.1684	
		.700	.1561				.1121		
		.725				.0950			
		.750						.0942	.2128
		.760			-.0527				
		.775				-.0580	-.0292		
		.808			-.1901				
		.834	-.2772						
		.850				-.2526	-.1834	-.1117	
		.857			-.3375				
		.865	-.3304						
		.900	-.3605			-.3690			-.1647
		.905			-.4376		-.2046		
		.950				-.4433		-.2888	
		.953			-.5066				
		.965	-.4197						

ARC11-014IA19 OTS+STRUT SRB-NCM MPS-NCM LWR WING

(REUW38)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.387 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.0633	-.0268	-.0917	-.2017	-.2804
.040		-.0399	.0540				
.050	-.1007			-.1560	-.2570	.0000	-.3415
.080				-.1857			
.081			-.0051				
.086		-.0879					
.094	-.0765						
.157				-.2316	-.2594	-.2983	-.3017
.163		-.0233					
.177			.0000				
.229	-.1284						
.246		-.0826					
.250				-.1326	-.2054	-.2559	-.2484
.274			-.0768				
.362	-.0271						
.393		-.0444					
.400				-.0038	-.0036		-.0971
.402			.0134				
.497	-.0355						
.550				.1676	.2264		
.565			.0877				
.600							.0856
.650						.1499	
.710	.0537				.0851		
.725				.0382			
.750						.0720	.0811
.760			-.1127				
.775				-.1193	-.0568		
.808			-.2267				
.834	-.2045						
.850				-.2831	-.2215	-.1353	
.857			-.3376				
.865	-.3626						
.900	-.3119			-.3898			-.1983
.905			-.4321		-.2371		
.950				-.4586		-.3125	
.953			-.4598				
.965	-.3740						

ALPHA (2) = -.318 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.1750	.1426	.0619	.0032	-.1345
.040		.0001	.1190				
.050	-.0803			.0058	-.1039	.0000	-.1989
.080				-.0527			
.081			.1756				
.086		.0403					
.094	.0166						

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM LWR WING

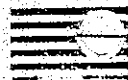
(REU38)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.318	BETA (2) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.150							
		.163		.0042					
		.177			.0000				
		.229	.0404						
		.246		.0481					
		.250							
		.274							
		.362	.0227						
		.390		.0851					
		.400							
		.402							
		.497	.0559						
		.550							
		.565							
		.600							
		.650							
		.700	.2339						
		.725							
		.750							
		.760							
		.775							
		.808							
		.834	-.2483						
		.850							
		.857							
		.865	-.3192						
		.900	-.3433						
		.905							
		.950							
		.953							
		.965	-.4013						

ALPHA (2) = -.354	BETA (3) = 4.031	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020							
		.040							
		.050	.0279						
		.080							
		.081							
		.086							
		.094	.0778						
		.150							
		.163							
		.177							
		.229	.1542						



ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM LWR WING

(REUW38)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.354 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		.1509					
.250				.2618	.1861	.1410	.3495
.274			.2273				
.362	.2024						
.390		.2546					
.400				.3625	.4499		.3701
.402			.3155				
.497	.2420						
.550				.4424	.4143		
.565			.4307				
.600							.2439
.650						.2034	
.700	.4072				.1677		
.725				.1797			
.750						.1254	.3562
.760			.0200				
.775				.0091	.0416		
.808			-.0975				
.854	-.2217						
.850				-.2024	-.2103	-.0983	
.857			-.2957				
.865	-.3448						
.900	-.3237			-.3234			-.1998
.915			-.4083		-.2882		
.950			-.4036			-.2823	
.953			-.4975				
.965	-.4066						

ALPHA (3) = 3.939 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.4230	.3156	.2836	.2919	.2863
.040		.0244	.3363				
.050	.0690			.1771	.1005	.0200	.1706
.080				.0854			
.081			.2137				
.086		.0363					
.094	.0490						
.150				.0229	.1990	.1840	.1713
.163		.1134					
.177			.0000				
.229	.0673						
.246		.0816					
.250				.2825	.1942	.1600	.2276
.274			.1708				
.362	.1340						

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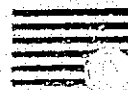
ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM LWR WING

(REUW38)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.939	BETA (1) = .000	2Y/B X/C	.295	.364	.427	.534	.641	.787	.887
		.390		.2028					
		.400				.2652	.3412		.3648
		.402			.2536				
		.497	.1669						
		.550				.4123	.3988		
		.565			.3762				
		.600							.2312
		.650						.1924	
		.700	.3174				.1565		
		.725				.1615			
		.750						.1116	.0411
		.760				-.0031			
		.775					-.0105	.0253	
		.808				-.1086			
		.834	-.2222						
		.850					-.2104	-.2096	-.1079
		.857				-.3082			
		.865	-.3268						
		.900	-.3375				-.3268		-.2084
		.905				-.4117		-.2940	
		.950					-.4058		-.2900
		.953				-.4963			
		.965	-.3955						



DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

PAGE 619

ARC11-014IA19 OTS

SRB-OFF MPS-OFF LWR WING

(REUW39) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-CB = .000
 RUDDER = .000 MACH = .920
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -8.139	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.020				-1.1520	-1.8332	-1.1398	-1.2167	-1.0055
		.040		.0561		-1.1359				
		.050	.0367				-1.6164	-1.0272	.0000	-1.6707
		.080						-1.5267		
		.081								-1.1947
		.086		.0565						
		.094	.0125							
		.150					-1.3367	-1.4013	-1.8018	-1.6309
		.163		.0047						
		.177								.0000
		.229	.0316							
		.246		-1.1113						
		.250					-1.1991	-1.2008	-1.2955	-1.5441
		.274								-1.1520
		.362	.0095							
		.390		-1.0986						
		.400					-1.0597	-1.0968		-1.5802
		.402								-1.0611
		.497	-1.0617							
		.550					-1.1145	-1.1851		
		.565								-1.0617
		.600								
		.650								-1.4437
		.700	-1.0474					-1.5280		
		.725					-1.5935			
		.750							-1.6591	-1.4908
		.760					-1.5955			
		.775					-1.9427	-1.7627		
		.808					-1.7305			
		.834	-1.4745							
		.850						-1.4142	-1.4788	-1.4082
		.857								-1.4088
		.865	-1.8185							
		.900	-1.4797					-1.3874		-1.6580
		.905						-1.3510	-1.3225	
		.920						-1.3801		-1.2754
		.953								-1.2888
		.965	-1.3937							

ARC11-014IA19 OTS

SRB-OFF MPS-OFF LWR WING

(REUW39)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -4.032 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020				.0645	-.3400	-.5029	-.8547
.040		.1043		.0109			-.9875
.050	.0157			-.3540	-.5307	.0000	-.8569
.080				-.2946			
.081			-.0702				
.086		.1039					
.094	.0171						
.150				-.1974	-.2140	-.2355	-.2913
.163		.0626					
.177				.0000			
.229	.0345						
.246		-.0438					
.250				-.0898	-.1003	-.1435	-.2149
.274			-.0608				
.362	.0401						
.390		-.0236					
.400				.0003	-.0448		-.2129
.402				.0075			
.497	-.0052						
.550				-.0846	-.1569		
.565			-.0232				
.600							-.3523
.650						-.4359	
.700	-.0104				-.5069		
.725				-.5680			
.750						-.6695	-.5907
.760			-.5902				
.775				-.9197	-.7470		
.808			-.7305				
.834	-.4664						
.850				-.3749	-.4235	-.3131	
.857			-.3818				
.865	-.7484						
.900	-.4187			-.3425			-.3383
.905				-.2835	-.2927		
.950				-.3039		-.2225	
.953			-.2117				
.965	-.3212						

ALPHA (3) = -.228 BETA (1) = -4.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020				.0878	-.0958	-.1888	-.3138
.040		.0347		.0560			-.4379
.050	-.0665			-.1546	-.2549	.0000	-.4744
.080				-.1308			
.081				.0159			
.086		.0489					
.094	-.0410						



ARC11-014IA19 OTS

SRB-CFF MPG-CFF LWR WING

(REUW39)

SECTION (1) LOWER WING

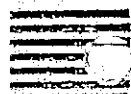
DEPENDENT VARIABLE CP

ALPHA (3) = -.249 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		.0260					
.250				.0048	-.0069	-.0557	-.1407
.274			.0156				
.362	.0827						
.390		.0426					
.400				.0503	.0019		-.2021
.402			.0653				
.497	.0513						
.550				-.0624	-.1380		
.565			.0104				
.600							-.3570
.650						-.4415	
.700	.0424				-.4985		
.725				-.5566		-.6853	-.6054
.750							
.760			-.5905				
.775				-.9054	-.7356		
.808			-.7258				
.834	-.4676						
.850				-.3493	-.4352	-.3128	
.857			-.3615				
.865	-.7312						
.900	-.3860			-.3068			-.2639
.905			-.2590		-.2893		
.950			-.2667			-.2032	
.953			-.1846				
.965	-.2731						

ALPHA (3) = -.261 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.2979	.1266	.1357	.1163	.0250
.040		.1961	.2266				
.050	.0668			.0091	-.0043	.0000	-.0821
.080				-.0069			
.081			.1190				
.095		.2063					
.094	.0730						
.150				.0307	.0385	.0045	-.0688
.163		.1816					
.177			.0000				
.222	.0991						
.246		.0840					
.250				.1001	.0729	.0138	-.0877
.274			.1121				
.362	.1296						



ARC11-0141A19 OTS

SRB-OFF MPS-OFF LWR WING

(REUW39)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = -.261 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.390		.1401					
.400				.1172	.0542		-.1619
.402			.1549				
.497	.1403						
.550				-.0198	-.1054		
.565			.0778				
.600							-.3305
.650						-.4089	
.700	.1864				-.4715		
.725				-.5229			
.750						-.6513	-.5811
.760				-.5471			
.775				-.9162	-.7044		
.808				-.6973			
.834	-.3521						
.850				-.3498	-.4585	-.3249	
.857				-.3722			
.865	-.6777						
.950	-.4218			-.2707			-.2488
.905				-.2369	-.2911		
.950				-.2213		-.1808	
.953				-.1700			
.965	-.3690						

ALPHA (4) = 4.032 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.3703	.2063	.2094	.2326	.1924
.040		.1452	.2599				
.050	.0125			.0760	.0548	.0000	.0481
.080				.0414			
.081			.1478				
.086		.1833					
.094	.0346						
.150				.0330	.0524	.0457	-.0190
.163		.1853					
.177			.0000				
.229	.0723						
.246		.0915					
.250				.0769	.0710	.0219	-.0694
.274			.0779				
.362	.1213						
.390		.0929					
.400				.0869	.0406		-.1677
.402			.1037				
.497	.0932						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-D14)

PAGE 625

ARC11-D14IA19 OTS

SRB-OFF MPS-OFF LWR WING

(REUW39)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (5) = 7.920	BETA (1) = .003	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.700	.0695				-.4609		
		.725				-.5160			
		.750						-.5496	-.5365
		.760				-.5935			
		.775				-.8355	-.6727		
		.808				-.7726			
		.834	-.4961						
		.850				-.4971	-.6369	-.7144	
		.857				-.4830			
		.865	-.7800						
		.900	-.4195			-.3384			-.8336
		.905				-.3048	-.5327		
		.950				-.2819		-.8698	
		.953				-.2407			
		.965	-.2897						

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 01 MAY 75

TABLATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

FACE 626

ARC11-014IA19 OTS

SRB-OFF MES-OFF LWR WING

(REUW40) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 NACH = 1.100
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -7.992	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020				.0894	-.3636	-.6403	-.8520
		.040		.0277	.0737				
		.050	-.1489			-.3214	-.5953	.0000	-.6966
		.080				-.2843			
		.081			.0006				
		.086		.0770					
		.094	-.1216						
		.150				-.1786	-.1774	-.3158	-.6310
		.163		.1261					
		.177			.0000				
		.229	-.0308						
		.240		.0416					
		.250				-.0077	.0229	-.0430	-.6137
		.274			.0290				
		.362	.1097						
		.390		.0572					
		.400				.1263	.1312		.1678
		.402			.1112				
		.497	.0784						
		.550				.1075	.0784		
		.565			.1198				
		.600							-.0288
		.650						-.1233	
		.700	.1308				-.1840		
		.725				-.2600			
		.750						-.2593	-.2064
		.760			-.3796				
		.775				-.4833	-.3669		
		.808			-.5521				
		.834	-.4686						
		.850				-.6026	-.4674	-.4333	
		.857			-.6782				
		.865	-.6862						
		.900	-.5777			-.7183			-.5112
		.905			-.5008		-.5114		
		.950				-.4532		-.6301	
		.953			-.4480				
		.965	-.5351						



ARC11-014IA19 OTS SRB-OFF WPS-OFF LWR WING (REWARD)

SECTION (1) LCHER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -4.080	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.3318	.0001	-.1112	-.2827	-.5369
		.040		.1086	.2385				
		.050	-.1194			-.0478	-.1877	.0000	-.4175
		.080				-.0622			
		.081			.1493				
		.086		.1908					
		.094	-.1316						
		.150				.0310	.0523	.0473	.0268
		.163		.2226					
		.177			.0000				
		.229	.0203						
		.246		.1436					
		.250				.1335	.1254	.1098	.0657
		.274			.1286				
		.362	.5692						
		.390		.1567					
		.400				.1963	.1859		.0703
		.402			.1840				
		.497	.1586						
		.550				.1480	.1113		
		.565			.1639				
		.600							-.0471
		.650						-.1112	
		.700	.1692				-.1724		
		.725				-.2376			
		.750						-.2551	-.2457
		.760			-.3602				
		.775				-.4632	-.3537		
		.806			-.5206				
		.834	-.4540						
		.850				-.5826	-.4559	-.4319	
		.857			-.6763				
		.865	-.6703						
		.900	-.5746			-.7126			-.5368
		.905			-.4731		-.4797		
		.950				-.4623		-.6373	
		.953			-.4313				
		.965	-.4783						

ALPHA (3) = -.225 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.2765	.1965	.1167	.0322	-.0344
.040		.1226	.2471				
.050	-.1947			.1033	.0229	.0000	-.0953
.080				.1062			
.081			.2068				
.086		.1705					
.094	-.1168						

		ARC11-014IA19 OTS	SRB-OFF MPS-OFF LWR WING						(RELW40)		
SECTION (1) LOWER WING		DEPENDENT VARIABLE CP									
ALPHA (3) =	-0.225	BETA (1) =	-4.000	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.150				.1301	.1004	.0953	.0663
				.163		.1991					
				.177			.0000				
				.229	.0713						
				.246		.1902					
				.257				.1556	.1413	.1280	.0670
				.274			.1717				
				.362	.1720						
				.390		.1808					
				.400				.1598	.1493		.0228
				.402			.1700				
				.497	.1827						
				.550				.0507	.0448		
				.565			.0778				
				.600							-.1011
				.650						-.1676	
				.700	.0618				-.2471		
				.725				-.3256			
				.750						-.3154	-.2977
				.760			-.3907				
				.775				-.5414	-.4344		
				.800			-.5040				
				.834	-.4312						
				.850				-.6184	-.5240	-.4889	
				.857			-.6551				
				.865	-.6892						
				.900	-.4764			-.6764			-.5914
				.905			-.6389		-.5372		
				.950				-.3782		-.6853	
				.953			-.3334				
				.965	-.5222						
ALPHA (3) =	-0.159	BETA (2) =	.012	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.020			.4914	.2679	.2405	.2200	.1816
				.040		.2325	.3868				
				.050	-.0988			.1527	.1174	.0000	.0875
				.080				.1315			
				.081			.2819				
				.086		.2891					
				.094	-.1003						
				.150				.1506	.1740	.1879	.1448
				.163		.3087					
				.177			.0000				
				.229	.0871						



DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

PAGE 629

		ARC11-014IA19 OTS	SRB-OFF MPS-OFF LWR WING							(REWARD)	
SECTION (1) LOWER WING		DEPENDENT VARIABLE CP									
ALPHA (3) =	-0.159	BETA (2) =	.012	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.246		.2293					
				.257				.2158	.2261	.2151	.1412
				.274			.2148				
				.362	.2327						
				.390		.2313					
				.400				.2599	.2422		.0900
				.402				.2516			
				.497	.2185						
				.550				.1868	.1382		
				.565				.2175			
				.670							-.0415
				.690						-.1022	
				.700	.2182					-.1565	
				.725				-.2150			
				.750						-.2446	-.2417
				.760				-.3269			
				.775				-.4321	-.3422		
				.808				-.4850			
				.834	-.4308						
				.850				-.5666	-.4277	-.4298	
				.857				-.6716			
				.865	-.6530						
				.900	-.5707			-.6996			-.5462
				.905				-.5035	-.4710		
				.950				-.4713		-.6336	
				.953				-.4196			
				.965	-.4328						
ALPHA (3) =	-0.312	BETA (3) =	4.028	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.020				.5310	.3929	.4039	.4067
				.040		.3269		.4581			.3625
				.050	.0443			.2743	.2633	.0200	.2513
				.080				.2497			
				.081				.3492			
				.086		.3756					
				.094	.0317						
				.150				.2590	.2855	.2862	.2293
				.163		.3833					
				.177				.0000			
				.229	.1477						
				.246		.2938					
				.250				.3192	.3237	.2903	.2065
				.274				.3313			
				.362	.2982						

ARC11-014IA19 OTS

SRB-OFF MPS-OFF LWR WING

(REUMAD)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = -.312	BETA (3) = 4.028	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.390		.3490					
		.400				.3456	.3134		.1427
		.402			.3763				
		.497	.3286						
		.550				.2503	.1903		
		.565			.3281				
		.600							-.0009
		.650						-.0577	
		.700	.4109				-.1111		
		.725				-.1638			
		.750						-.1848	-.2005
		.760			-.2605				
		.775				-.3672	-.2898		
		.808			-.4271				
		.834	-.4126						
		.850				-.5187	-.2874	-.3909	
		.857			-.6338				
		.865	-.5373						
		.900	-.4953			-.6568			-.5113
		.905			-.4834		-.4807		
		.950				-.4638		-.5894	
		.953			-.3639				
		.965	-.4410						
ALPHA (4) = 3.885	BETA (1) = .000	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.020				.5780	.4406	.4559	.4773
		.040		.2516		.4679			.4467
		.050	.0182				.3108	.3106	.0000
		.080					.2679		.3240
		.081				.3578			
		.086		.3311					
		.094	.0567						
		.150				.2573	.2843	.3010	.2539
		.163		.3619					
		.177				.0000			
		.229	.1900						
		.246		.2804					
		.250				.2877	.3002	.2811	.2061
		.274				.2733			
		.362	.2828						
		.390		.2813					
		.400				.3017	.2851		.1206
		.402				.2976			
		.497	.2735						

ARC11-014IA19 OTS

SRB-OFF MPS-OFF LWR WING

(REUMAD)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (4) = 3.885 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.550				.2057	.1596		
.565			.2386				
.600							-.0343
.650						-.0872	
.700	.2462				-.1443		
.725				-.2047			
.750						-.2138	-.2311
.760			-.3123				
.775				-.4092	-.3289		
.808			-.4680				
.834	-.4655						
.850				-.5575	-.3700	-.4219	
.857			-.6726				
.865	-.6911						
.900	-.6230			-.6902			-.5449
.905			-.7698		-.5039		
.920				-.7669		-.6264	
.953			-.4551				
.965	-.4435						

ALPHA (5) = 8.073 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020				.5862	.5464	.5827	.6344
.040		.2390		.5048			.5845
.050	.0799			.3977	.4169	.0000	.4622
.080				.3368			
.081			.3914				
.086		.3260					
.094	.1114						
.150				.2961	.3464	.3826	.3404
.163		.3604					
.177			.0000				
.229	.1846						
.246		.2938					
.250				.3093	.3300	.3340	.2642
.274			.2864				
.362	.2863						
.390		.2854					
.400				.3042	.2942		.1581
.402			.2903				
.497	.2827						
.550				.1990	.1648		
.565			.2209				
.600							-.0069
.650							-.0702

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ARC11-0141A19 OTS

SRB-OFF MPS-OFF LWR WING

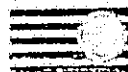
(REUW40)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (5) = 8.073 BETA (1) = .000

2Y/B	.299	.364	.427	.534	.641	.780	.887
X/C							
.700	.2314				-.1404		
.725				-.2088			
.750						-.1741	-.2147
.760			-.3218				
.775				-.4023	-.3149		
.808			-.4639				
.834	-.4614						
.850				-.5577	-.4251	-.4122	
.857			-.6790				
.865	-.6908						
.900	-.6480			-.6898			-.5330
.905			-.7808		-.4917		
.950				-.7776		-.6228	
.953			-.5167				
.965	-.4976						



DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS

SRB-OFF MPS-OFF LWR WING

(REUW41) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.250
 GIBBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -8.232	BETA (1) = -.006	2Y/D X/C	.299	.364	.427	.534	.641	.780	.887
		.020			-.1748	-.4233	-.5190	-.6352	-.6622
		.040		-.0698	-.0031				
		.050	-.2435			-.3704	-.5459	.0000	-.7225
		.080				-.3018			
		.081			-.0310				
		.086		-.0711					
		.094	-.1037						
		.150				-.2333	-.4382	-.6203	-.6784
		.163		.0055					
		.177			.0000				
		.229	-.0638						
		.246		-.0095					
		.250				-.0994	-.1629	-.5316	-.6365
		.274			-.0420				
		.362	.0262						
		.390		.0163					
		.400				-.0985	-.1445		-.3480
		.402			-.0481				
		.497	.0401						
		.550				.1306	.1167		
		.565			.0831				
		.600							-.0716
		.650						-.0098	
		.700	.0753				-.0749		
		.725				-.1304			
		.750						-.0920	-.0182
		.760			-.2336				
		.775				-.3069	-.2263		
		.808			-.3801				
		.834	-.4399						
		.850				-.4369	-.3285	-.2769	
		.857			-.5132				
		.865	-.5442						
		.900	-.5314			-.5520			-.3638
		.905			-.6102		-.3553		
		.950				-.6272		-.4476	
		.953			-.6746				
		.965	-.5848						

ARC11-014IA19 OTS

SRB-OFF MPS-OFF LWR WING

(REUW41)

SECTION (1) LOWER WING

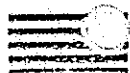
DEPENDENT VARIABLE CP

ALPHA (2) = -4.098 BETA (1) = -.006

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.0342	-.0704	-.1752	-.4113	-.4911
.040		-.0198	.1563				
.050	-.2169			-.1836	-.3056	.0000	-.5417
.080				-.1618			
.081			.0434				
.086		-.0324					
.094	-.0731						
.150				-.1383	-.2094	-.3533	-.4703
.163		.0338					
.177			.0000				
.229	-.0397						
.246		.0471					
.250				-.0160	-.0740	-.1577	-.3942
.274			.0328				
.362	.0476						
.390		.0880					
.400				.0456	.0512		.1385
.402			.0356				
.497	.0885						
.550				.2271	.2172		
.565			.1994				
.600							.1123
.650						.0450	
.700	.1506				-.0231		
.725				-.0832			
.750						-.0517	-.0609
.760			-.1852				
.775				-.2421	-.1792		
.808			-.3330				
.834	-.3862						
.850				-.4009	-.3007	-.2571	
.857			-.4873				
.865	-.4755						
.900	-.4567			-.5203			-.3503
.900			-.5866		-.3143		
.950				-.5997		-.4415	
.953			-.6490				
.965	-.5450						

ALPHA (3) = -.243 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.2191	.0901	-.0162	-.1351	-.3344
.040		-.0354	.1690				
.050	-.1472			.0091	-.1208	.0000	-.3451
.080				-.0367			
.081			.1232				
.086		.0222					
.094	-.1662						



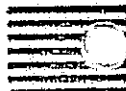
DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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		ARC11-014IA19 OTS	SRB-OFF MPS-OFF LWR WING (REUW41)						
SECTION (11LCHER WING		DEPENDENT VARIABLE CP							
ALPHA (3) = -.243	BETA (1) = -4.000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.150				-.0006	-.0415	-.1149	-.1701
		.163		.0960					
		.177			.0000				
		.229	-.1264						
		.246		.0965					
		.250				.0606	.0136	-.0156	-.0314
		.274			.0861				
		.362	.0551						
		.390		.1037					
		.400				.1012	.0838		.1688
		.402			.1115				
		.497	.1067						
		.550				.0960	.1496		
		.565			.0751				
		.600							.0289
		.650						-.0243	
		.700	.0147					-.1037	
		.725				-.1886			
		.750						-.1308	-.1552
		.760			-.2663				
		.775				-.3665	-.2627		
		.808			-.3636				
		.834	-.3100						
		.850				-.4527	-.3663	-.3225	
		.857			-.9004				
		.865	-.5205						
		.900	-.3813			-.5447			-.4151
		.905			-.5557		-.3858		
		.950				-.3433		-.5039	
		.953			-.3233				
		.965	-.4388						
ALPHA (3) = -.171	BETA (2) = .012	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.3151	.1822	.0860	-.0048	-.1773
		.040		-.0122	.2259				
		.050	-.0060			.0829	-.0703	.0000	-.2328
		.080				.0136			
		.081			.1572				
		.086		.0053					
		.094	-.0659						
		.150				.0053	-.0210	-.0850	-.0806
		.163		.1449					
		.177			.0000				
		.229	-.0271						

SECTION (1) LOWER WING		ARC11-014IA19 OTS	SRB-OFF MPS-OFF LWR WING							(REUW41)	
		DEPENDENT VARIABLE CP									
ALPHA (3) =	-.171	BETA (2) =	.012	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.246		.1392					
				.250				.0656	.0245	.1761	.2758
				.274			.1016				
				.362	.0918						
				.390		.1487					
				.400				.2335	.3183		.2160
				.402			.1940				
				.497	.1626						
				.550				.2913	.2681		
				.565			.2764				
				.600							.0838
				.650					.0438		
				.700	.2349				-.0011		
				.725				-.0551			
				.750						-.0534	-.0969
				.760			-.1628				
				.775				-.2058	-.1534		
				.808			-.2954				
				.834	-.3593						
				.850				-.3830	-.3013	-.2633	
				.857			-.4772				
				.865	-.4533						
				.900	-.4665			-.5035			-.3690
				.905				-.5823	-.3114		
				.950				-.5871		-.4525	
				.953			-.6563				
				.965	-.5393						
ALPHA (3) =	-.171	BETA (3) =	4.025	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.020			.2236	.2416	.1907	.2575	.2809
				.040		.0945	.3229				
				.050	-.0120			.1223	.0965	.0000	.2004
				.080				.0559			
				.081			.2356				
				.086		.0679					
				.094	-.0141						
				.150				.0824	.3107	.2996	.2787
				.163		.0117					
				.177			.0000				
				.229	.0609						
				.246		.2030					
				.250				.3563	.3540	.3436	.2895
				.274			.2403				
				.362	.1485						



ARC11-014IA19 OTS

SRB-OFF MPS-OFF LWR WING

(REUW41)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = -.171 BETA (3) = 4.025

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.390		.2866					
.400				.4304	.3970		.2389
.402			.4117				
.497	.2504						
.550				.3707	.3068		
.565			.4263				
.600							.1215
.650						.0713	
.700	.4910				.0350		
.725				-.0056			
.750						-.0056	-.0645
.760			-.0949				
.775				-.1507	-.1054		
.808			-.2283				
.834	-.3061						
.850				-.3429	-.2958	-.2388	
.857			-.4472				
.865	-.3759						
.900	-.4225			-.4711			-.3459
.905			-.5654		-.3214		
.920				-.5551		-.4307	
.953			-.6414				
.965	-.5315						

ALPHA (4) = 7.880 BETA (1) = -.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020				.5557	.6029	.6515	.7057
.040			.0709	.4947			.6704
.050	.0372			.4553	.4908	.0000	.5712
.080				.3919			
.081			.4099				
.086		.1888					
.094	.0241						
.120				.3621	.4218	.4830	.4637
.163		.3092					
.177			.0000				
.229	.0821						
.246		.2943					
.250				.3764	.4178	.4540	.3934
.274			.3245				
.362	.2377						
.390		.3189					
.400				.3924	.4027		.2915
.402			.3517				
.497	.3001						

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OF POOR QUALITY

ARC11-014TA19 OTS

SRB-OFF MPS-OFF LWR WING

(REUW41)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (4) = 7.880 BETA (1) = -.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.550				.3252	.3011		
.565			.3145				
.600							.1387
.650						.0875	
.700	.3084				.0251		
.725				-.0373			
.750						.0165	-.07485
.760				-.1548			
.775				-.1875	-.1192		
.808				-.2639			
.834	-.3462						
.850				-.3664	-.3533	-.2305	
.857				-.4822			
.865	-.4827						
.900	-.4975			-.4852			-.3410
.905				-.5854	-.4253		
.950				-.5756		-.4272	
.953				-.6621			
.965	-.5427						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

PAGE 639

ARC11-014IA19 OTS

SRB-OFF MFS-OFF LWR WING

(REUM2) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.059	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.790	.887
		.020			.0329	-.1916	-.2213	-.3326	-.3680
		.040		.0174	.0131				
		.060	-.1266			-.2622	-.3022	.0000	-.4222
		.080				-.2275			
		.081			-.1040				
		.085		-.0109					
		.094	.0093						
		.150				-.1606	-.2550	-.3299	-.3780
		.163	-.0153						
		.177		.0000					
		.229	-.0654						
		.246		.0118					
		.250				-.0792	-.1756	-.2800	-.3270
		.274			-.0262				
		.362	-.0620						
		.390		.0813					
		.400				.0661	.0232		-.1770
		.402			.1245				
		.497	.0488			.2892	.3042		
		.550				.2082			
		.565							
		.600							.1811
		.650						.1647	
		.700	.1898				.1064		
		.725				.0464			
		.750						.0870	.0918
		.760			-.0531				
		.775				-.0815	-.0318		
		.808			-.1842				
		.834	-.3015						
		.850				-.2540	-.1878	-.1112	
		.857			-.3423				
		.865	-.3750						
		.900	-.3768			-.3693			-.1810
		.905			-.4419		-.1980		
		.950				-.4431		-.2928	
		.953			-.5204				
		.965	-.4376						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - TA19 (ARC 11-D14)

PAGE 640

ARC11-D14TA19 QTS

SRB-OFF MPS-OFF LWR WING

(REUW42)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.183 BETA (1) = -3.997

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.1941	.0924	.0056	-.0804	-.2081
.040		-.0747	.1416				
.050	-.0912			-.0087	-.1166	.0000	-.2534
.080				-.0552			
.081			.0956				
.086		.0066					
.094	-.1020			.0476	-.0014	-.0790	-.1521
.150							
.163		.0619					
.177			.0000				
.229	-.0877						
.246		.0718		.0856	.0323	-.0153	-.0384
.250							
.274			.1033				
.362	.0174						
.390		.1161		.1194	.0896		.0264
.400							
.402			.1362				
.497	.0940			.1428	.2167		
.550			.1284				
.565							.1675
.600						.0986	
.650					.0193		
.725	.0504			-.0707		.0196	.0074
.750							
.760			-.1704				
.775				-.2024	-.1188		
.808			-.2466				
.834	-.2486			-.3190	-.2438	-.1715	
.850							
.857			-.3675				
.865	-.4095						
.900	-.3391			-.4064			-.2590
.900			-.4517		-.2495		
.950				-.4643		-.3432	
.950			-.4579				
.965	-.3957						

ALPHA (2) = -.195 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.1541	.1311	.0659	.0085	-.1130
.040		.0256	.0941				
.050	-.0876			.0000	-.0933	.0000	-.1758
.080				-.0451			
.081			.1837				
.086		.0381					
.094	.0016						

ARC11-0141A19 OTS SRB-OFF MPS-OFF LWR WING (RELM42)

SECTION (1) LOWER WING		DEPENDENT VARIABLE CP								
ALPHA (2) = -.195	BETA (2) = .012	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.150				-.0836	-.1033	-.0874	-.1166	
		.163		-.0018						
		.177			.0000					
		.229	.0379							
		.246		.0661						
		.250				.2185	.1492	.0745	-.0021	
		.274			.1435					
		.362	.0283							
		.390		.1700						
		.400				.1899	.1604		.2788	
		.402			.1919					
		.497	.1475							
		.550				.3745	.3686			
		.565			.3033					
		.600							.2328	
		.650						.1790		
		.700	.2577				.1268			
		.725				.0698				
		.750						.0966	.0491	
		.760			-.0337					
		.775				-.0592	-.0027			
		.808			-.1540					
		.834	-.2734							
		.850				-.2369	-.2061	-.1171		
		.857			-.3331					
		.865	-.3651							
		.900	-.3629			-.3530			-.2207	
		.905			-.4344		-.2654			
		.950				-.4293		-.3016		
		.953			-.5155					
		.965	-.4230							
ALPHA (2) = .027	BETA (3) = 4.028	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.020			.2604	.2023	.1779	.1483	.0371	
		.040		.0871	.2009					
		.050	.0380			.0906	-.0169	.0000	-.0604	
		.080				.0295				
		.081			.0994					
		.086		.1624						
		.094	.0402							
		.150				-.0426	-.0255	-.0036	.0204	
		.163		.0791						
		.177			.0000					
		.229	.0577							

ARC11-014IA19 OTS

SRB-OFF MPS-OFF LWR WING

(REUM42)

SECTION (1) LOWER WING

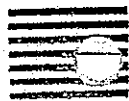
DEPENDENT VARIABLE CP

ALPHA (2) = .027 BETA (3) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		.1509					
.250				.1699	.2130	.1301	.3221
.274			.0328				
.362	-.0463						
.390		.2091					
.400				.4633	.4675		.3698
.402			.2602				
.497	.0700						
.550				.4550	.4142		
.565			.4850				
.600							.2392
.650						.2067	
.700	.5049				.1717		
.725				.1317			
.750						.1374	.0628
.760			.0502				
.775				-.0020	.0516		
.808			-.0648				
.834	-.1880						
.850				-.1840	-.1944	-.0930	
.857			-.2788				
.865	-.3042						
.900	-.3228			-.3026			-.2032
.905			-.3910		-.2756		
.950				-.3759		-.2784	
.953			-.4739				
.965	-.3865						

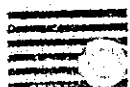
ALPHA (3) = 3.924 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.3824	.3187	.3134	.3338	.2858
.040		.0259	.3541				
.050	.0661			.1886	.2385	.0000	.1677
.080				.1150			
.081			.2269				
.086		.0446					
.094	.0375						
.150				.1626	.2039	.1610	.1886
.163		.0842					
.177			.0000				
.229	.0601						
.246		.1400					
.250				.2136	.1704	.1764	.2862
.274			.2620				
.362	.1553						



		ARC11-014IA19 OTS	SRB-OFF MPS-OFF LWR WING							(REUM42)
SECTION (1) LOWER WING		DEPENDENT VARIABLE CP								
ALPHA (3) = 3.924	BETA (1) = .003	2Y/B	.299	.364	.427	.534	.641	.780	.887	
		X/C								
		.390		.2629						
		.400			.2928	.3550			.3484	
		.402			.2847					
		.497	.2266							
		.550			.4077	.3945				
		.565			.3754					
		.600							.2095	
		.650						.1811		
		.700	.3264				.1447			
		.725			.0901					
		.750						.0596	.0288	
		.760			-.0184					
		.775			-.0368	.0130				
		.808			-.1239					
		.834	-.2469							
		.850				-.2221	-.2172	-.1189		
		.857			-.3225					
		.865	-.3706							
		.900	-.3615			-.3377			-.2232	
		.905			-.4219		-.3006			
		.950				-.4160		-.3017		
		.955			-.5737					
		.965	-.4132							
ALPHA (4) = 7.809	BETA (1) = .003	2Y/B	.299	.364	.427	.534	.641	.780	.887	
		X/C								
		.020			.5007	.5337	.5662	.5790	.6547	
		.040		.0468	.4228					
		.050	.0955			.3862	.3722	.0000	.5525	
		.080				.3042				
		.081			.3406					
		.086		.1270						
		.094	.0787							
		.150				.2727	.3075	.4444	.4977	
		.163		.2301						
		.177			.0500					
		.229	.0891							
		.246		.2431						
		.250				.2831	.3139	.5029	.4517	
		.274				.2792				
		.362	.1716							
		.390		.2863						
		.400				.4327	.4703		.3787	
		.402				.3371				
		.497	.2692							

SECTION (1) LOWER WING		DEPENDENT VARIABLE CP							
ALPHA (4) = 7.809 BETA (1) = .003		2Y/B %C	.299	.364	.427	.534	.641	.780	.887
		.350				.4103	.4023		
		.565			.3813				.2457
		.697						.2088	
		.700	.3467				.1595		
		.725				.0968			
		.750						.1371	.0746
		.780				-.0188			
		.775					-.0326	.0325	
		.808				-.1169			
		.834	-.2320						
		.851				-.2112	-.2150	-.0842	
		.857				-.3219			
		.865	-.3519						
		.900	-.3567				-.3236		-.1860
		.905				-.4150		-.2940	
		.950					-.4039		-.2694
		.955				-.4915			
		.985	-.3973						



ARC11-014IA19 QTS

SRB-NOM MPS-OFF LVR WING

(REUW43) (19 OCT 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -8.133	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.020				-.1391	-.8149	-1.1300	-1.2640	-.9900
		.040		.0597		-.1337				
		.060	.0171			-.6236	-1.0251	.0000	-.6812	
		.080				-.5623				
		.081				-.1944				
		.086		.0629						
		.094	.0207							
		.150				-.3377	-.4060	-.8078	-.6118	
		.163		.0104						
		.177				.0000				
		.229	.0346							
		.246		-.1092						
		.250				-.2023	-.1967	-.3179	-.6735	
		.274				-.1605				
		.362	.0126							
		.390		-.1018						
		.400				-.0871	-.0807		-.6082	
		.402				-.0716				
		.497	-.0581							
		.550				-.0988	-.1712			
		.565				-.0640				
		.600							-.3994	
		.650						-.4346		
		.700	-.0440				-.5110			
		.725				-.5656				
		.750						-.6022	-.4735	
		.760				-.6360				
		.775				-.9187	-.7420			
		.808				-.7924				
		.834	-.5098							
		.850				-.4723	-.6880	-.7802		
		.857				-.7778				
		.865	-.8682							
		.900	-.5424			-.4370			-.8549	
		.905				-.4738	-.4250			
		.950				-.4302		-.4421		
		.953				.4092				
		.965	-.4478							

DATE 01 MAY 75

TABLATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

ARC11-014IA19 OTS

SRB-NOM MPS-OFF LWR WING

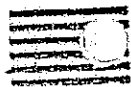
(REUW43)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -4.002	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.0663	-.3371	-.5058	-.8189	-.9743
		.040		.1017	.0157				
		.050	.0147			-.3479	-.5182	.0000	-.8507
		.080				-.2831			
		.081			-.0704				
		.086		.1041					
		.094	.0165						
		.150				-.1949	-.2125	-.2317	-.2867
		.163		.0629					
		.177			.0000				
		.229	.0337						
		.246		-.0405					
		.250				-.0889	-.1015	-.1394	-.2132
		.274				-.0564			
		.362	.0405						
		.390		-.0183					
		.400				-.0039	-.0433		-.2106
		.402			.0095				
		.497	-.0057						
		.550				-.0847	-.1558		
		.565			-.0220				
		.600							-.3497
		.650						-.4359	
		.700	-.0108				-.5070		
		.725				-.5690			
		.750						-.6607	-.5892
		.760			-.6007				
		.775				-.9131	-.7467		
		.808			-.7519				
		.834	-.4872						
		.850				-.3960	-.4469	-.3570	
		.857			-.3923				
		.865	-.7894						
		.900	-.4447			-.3618			-.3991
		.905				-.3028	-.3074		
		.950				-.3366		-.2345	
		.953			-.2234				
		.965	-.3325						

ALPHA (3) = -.342	BETA (1) = -4.000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.0684	-.1141	-.2160	-.3491	-.4891
		.040		.0278	.0395				
		.050	-.0709			-.1723	-.2717	.0000	-.4948
		.080				-.1466			
		.081			.0023				
		.086		.0388					
		.094	-.0492						



DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS

SRB-NCM MPS-OFF LWR WING

(REUW43)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = -.342 BETA (1) = -4.000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.150					-.0949	-.1454	-.1881
.163		.0394					-.2550
.177			.0000				
.229	-.0052						
.246		.0144					
.270				-.0542	-.0861	-.1339	-.2296
.274			-.0211				
.362	.0309						
.390		-.0070					
.400				-.0502	-.0800		-.2667
.402			-.0236				
.497	.0106						
.550				-.1725	-.2175		
.565			-.1244				
.600							-.4263
.620						-.5007	
.700	-.1288				-.5423		
.725				-.4910			
.750						-.6994	-.6661
.760			-.4275				
.775			-.8610	-.7035			
.808			-.5468				
.834	-.3939						
.850				-.4152	-.4762	-.3513	
.857			-.4146				
.865	-.5584						
.900	-.3663			-.2745			-.2380
.905				-.3386	-.2719		
.950				-.1815		-.2690	
.953			-.2478				
.965	-.2981						

ALPHA (3) = -.357 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.2295	-.0515	-.0933	-.1460	-.2270
.040		.1279	.1299				
.050	.0140			-.1423	-.1936	.0000	-.2840
.060				-.1348			
.081			.0305				
.086		.1429					
.094	.0233						
.150				-.0800	-.0800	-.0977	-.1759
.163		.1195					
.177			.0000				
.229	.0458						

ORIGINAL PAGE IS
OF POOR QUALITY

DATE 01 MAY 75

TABLATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

PAGE 648

ARC11-014IA19 OYS

SRB-NCM MPS-OFF LWR WING

(REUM43)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = -.357 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		.0172					
.250				-.0037	-.0153	-.0639	-.1514
.274			.0057				
.362	.0712						
.390		.0305					
.400				.0439	-.0062		-.2118
.402			.0545				
.497	.0380			-.0697	-.1494		
.550				-.0005			
.565							-.3689
.600						-.4524	
.650					-.5096		
.700	.0257			-.5688			
.725						-.6873	-.6175
.750							
.760			-.6141				
.775				-.9139	-.7498		
.808			-.7525				
.834	-.4897			-.3669	-.4739	-.3357	
.850				-.3833			
.857							
.865	-.7705			-.3522			-.2792
.900	-.4104			-.2837	-.3183		
.905					-.3140	-.2353	
.950				-.2196			
.953							
.965	-.2900						

ALPHA (3) = -.288 BETA (3) = 4.022

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020				.2957	.1227	.1285	.1070
.040			.1957	.2234			.0246
.050	.0657			.0102	-.0108	.0000	-.0865
.080				-.0047			
.081			.1172				
.086		.2096					
.094	.0650				.0321	.0369	.0043
.150							-.0714
.163		.1841					
.177			.0000				
.229	.0958						
.246		.0877			.0981	.0757	.0144
.250							-.0833
.274			.1132				
.362	.1277						

		ARC11-014IA19 QTS	SRB-NOM MPS-OFF LWR WING							(REUM43)
SECTION (1) LOWER WING		DEPENDENT VARIABLE CP								
ALPHA (3) = -0.288 BETA (3) = 4.022		2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.390		.1411						
		.400				.1188	.0570			-.1332
		.402			.1578					
		.497	.1388							
		.530				-.0188	-.1048			
		.560			.0802					
		.600								-.3255
		.650								-.4073
		.700	.1869				-.4673			
		.725				-.5238				
		.730								-.6467
		.750								-.5742
		.760			-.5664					
		.775				-.9050	-.7080			
		.808			-.7065					
		.834	-.3712							
		.850				-.3566	-.4667	-.3825		
		.857			-.3753					
		.865	-.7092							
		.900	-.4346			-.3017				-.2520
		.905			-.2504		-.3180			
		.950				-.2694		-.2015		
		.953			-.1654					
		.965	-.3825							
ALPHA (4) = 3.924 BETA (1) = .000		2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.020			.3591	.1794	.2009	.2129	.1661	
		.040		.1412	.2530					
		.050	.0017			.0486	.0442	.0000	.0249	
		.080				.0123				
		.081			.1364					
		.086		.1787						
		.094	.0238							
		.130				.0180	.0421	.0300	-.0449	
		.163		.1784						
		.177			.0000					
		.229	.0655							
		.246		.0796						
		.250				.0694	.0582	.0000	-.0947	
		.274			.0672					
		.362	.1153							
		.390		.0794						
		.400				.0879	.0253		-.1946	
		.402			.0648					
		.497	.0855							

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS

SRB-NOM MPS-OFF LAR WING

(RE/M43)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (5) = 7.962 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.700	.0697				-.4559		
.725				-.5134			
.750						-.5355	-.4867
.760			-.5841				
.775				-.8344	-.6627		
.808			-.7625				
.834	-.4918						
.850				-.4855	-.5964	-.6961	
.857			-.4511				
.865	-.7682						
.900	-.4087			-.3266			-.8393
.905			-.2835		-.4930		
.950				-.2778		-.8116	
.953			-.1948				
.965	-.2721						

ARC11-014IA19 OTS

SRB-NOM MPS-OFF LWR WING

(REUW44) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -8.106	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.1159	-.3386	-.6422	-.8465	-.7344
		.040		.0612	.1042				
		.060	-.1469			-.2954	-.5988	.0000	-.7064
		.080				-.2632			
		.081			.0312				
		.086		.1525					
		.094	-.1215						
		.150				-.1572	-.1848	-.2771	-.6208
		.163		.1627					
		.177			.0000				
		.229	-.0358						
		.246		.0852					
		.290				.0024	-.0073	-.0449	-.6044
		.274			.0472				
		.362	.0924						
		.390		.0896					
		.400				.1303	.1306		.1878
		.402			.1209				
		.497	.0833						
		.550				.1056	.0782		
		.565		.1310					
		.600							-.0326
		.650						-.1226	
		.700	.1357				-.1823		
		.725				-.2616			
		.790						-.2630	-.2077
		.760			-.3788				
		.775				-.4952	-.3681		
		.808			-.5518				
		.834	-.4449						
		.850				-.6032	-.4666	-.4342	
		.857			-.6671				
		.865	-.6683						
		.900	-.5355			-.5283			-.5166
		.905			-.4748		-.5114		
		.950				-.3984		-.6298	
		.953			-.4343				
		.965	-.5010						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - 1A19 (ARC 11-014)

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ARC11-0141A19 OTS SRB-NOM MPS-OFF LWR WING (REUM44)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -4.030	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.3553	.0056	-.1148	-.3096	-.5168
		.040		.1793	.2602				
		.050	-.1146			-.0454	-.1969	.0000	-.4124
		.080				-.0561			
		.081			.1668				
		.086		.2314					
		.094	-.1190						
		.190				.0421	.0532	.0478	.0183
		.163		.2466					
		.177			.0000				
		.229	.0484						
		.246		.1591					
		.250				.1340	.1275	.1099	.0635
		.274			.1354				
		.362	.1968						
		.390		.1632					
		.400				.1998	.1877		.0676
		.402			.1891				
		.497	.1675						
		.550				.1478	.1087		
		.563			.1677				
		.600							-.0523
		.650						-.1157	
		.700	.1742				-.1767		
		.725				-.2417			
		.750						-.2590	-.2501
		.760			-.3619				
		.775				-.4789	-.3622		
		.808			-.5231				
		.834	-.4414						
		.850				-.5801	-.4611	-.4385	
		.857			-.6729				
		.865	-.6687						
		.900	-.5544			-.6972			-.5425
		.905			-.4509		-.4839		
		.950				-.4257		-.6435	
		.953			-.4209				
		.965	-.4594						

ALPHA (3) = -.363 BETA (1) = -4.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.2692	.1825	.1026	.0118	-.0875
.040		.1236	.2357				
.050	-.1914			.0947	.0065	.0000	-.1262
.080				.0974			
.081			.2023				
.086		.1670					
.094	-.0967						

ARC11-014IA19 QTS

SRB-NOM MPS-OFF LWR WING

(REU44)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = -.363	BETA (1) = -4.003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.150					.1186	.0868	.0840	.0627
		.163		.1930						
		.177			.0000					
		.229	.0782							
		.246		.1817						
		.250				.1475	.1311	.1181	.0502	
		.274			.1677					
		.362	.1703							
		.390		.1741						
		.400				.1306	.1393		.0098	
		.402			.1636					
		.497	.1794							
		.550				.0398	.0339			
		.565			.0705					
		.600								-.1123
		.650								-.1800
		.700	.0545				-.2593			
		.725				-.3350				
		.750						-.3310	-.3118	
		.780			-.3900					
		.775				-.5623	-.4472			
		.808			-.5030					
		.834	-.4202							
		.850				-.6264	-.5336	-.5019		
		.857			-.6500					
		.865	-.6815							
		.900	-.4596			-.6818				-.6072
		.905			-.6170		-.5485			
		.950				-.3807		-.6985		
		.953			-.3146					
		.965	-.4942							

ALPHA (3) = -.363 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.4811	.2460	.2159	.2019	.1550
.040		.2390	.3750				
.050	-.0904			.1306	.0926	.0000	.0672
.080				.1125			
.081			.2690				
.086		.2971					
.094	-.0676						
.150				.1430	.1597	.1770	.1280
.163		.3105					
.177			.0000				
.229	.1474						

ARC11-014IA19 OTS

SRB-NOM MPS-OFF LWR WING

(REUM44)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

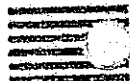
ALPHA (3) =	BETA (2) =	2Y/B	.299	.364	.427	.534	.641	.780	.887
	.012	X/C							
		.246		.2205					
		.250				.2057	.2145	.2010	.1283
		.274			.2036				
		.362	.2451						
		.390		.2220					
		.400				.2511	.2326		.0790
		.402			.2430				
		.497	.2181						
		.550				.1747	.1267		
		.565			.2070				
		.600							-.0497
		.650							-.1144
		.700	.2097				-.1700		
		.725				-.2289			
		.750						-.2592	-.2549
		.760			-.3413				
		.775				-.4618	-.3578		
		.806			-.5010				
		.834	-.4271						
		.850				-.5908	-.4408	-.4440	
		.857			-.6786				
		.865	-.6657						
		.900	-.5632			-.7120			-.5606
		.905			-.4404		-.4847		
		.950				-.4410		-.6485	
		.953			-.4135				
		.965	-.4290						

ALPHA (3) =	BETA (3) =	2Y/B	.299	.364	.427	.534	.641	.780	.887
-.393	4.022	X/C							
		.020			.5193	.3759	.3822	.3899	.3436
		.040		.3133	.4464				
		.050	.0446			.2575	.2499	.0000	.2330
		.080				.2364			
		.081			.3381				
		.086		.3556					
		.094	.0341						
		.150				.2586	.2758	.2753	.2178
		.163		.3707					
		.177			.0000				
		.229	.1694						
		.246		.2836					
		.250				.3199	.3109	.2804	.1975
		.274			.3211				
		.362	.3027						

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		ARC11-014IA19 OTS	SRB-NOM MPS-OFF LWR WING							(REUM44)	
SECTION (1) LOWER WING		DEPENDENT VARIABLE CP									
ALPHA (3) =	- .393	BETA (3) =	4.022	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.390		.3432					
				.400				.3466	.3040		.1327
				.402			.3705				
				.497	.3329						
				.550				.2455	.1803		
				.565			.3228				
				.600							-.0122
				.650						-.0688	
				.700	.4066				-.1226		
				.725				-.1737			
				.750						-.1997	-.2125
				.760			-.2723				
				.775				-.3945	-.3048		
				.808			-.4414				
				.834	-.3952						
				.850				-.5330	-.3108	-.4041	
				.857			-.6444				
				.865	-.5425						
				.900	-.4785			-.6722			-.5265
				.905			-.3943		-.4943		
				.950				-.4083		-.6081	
				.953			-.3581				
				.965	-.4449						
ALPHA (4) =	3.888	BETA (1) =	.000	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.020				.5632	.4232	.4247	.4618
				.040		.2639	.4530				.4300
				.050	.0245			.2925	.2848	.0000	.3115
				.060				.2576			
				.080			.3449				
				.086		.3303					
				.094	.0633						
				.150				.2375	.2633	.2868	.2432
				.163		.3508					
				.177			.0000				
				.229	.1954						
				.246		.2697					
				.250				.2751	.2867	.2697	.1940
				.274			.2649				
				.362	.2763						
				.390		.2714					
				.400				.2925	.2732		.1077
				.402			.2879				
				.497	.2644						

SECTION (1) LOWER WING		DEPENDENT VARIABLE CP							
ALPHA (5) = 7.977 BETA (1) = .000		2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.700	.2415						-.1458
		.725				-.2070			
		.750						-.1838	-.2214
		.760			-.3177				
		.775				-.4057	-.3199		
		.808			-.4618				
		.834	-.4533						
		.850				-.5539	-.4221	-.4180	
		.857			-.6797				
		.865	-.6865						
		.900	-.6403			-.6885			-.5370
		.905			-.7836		-.4949		
		.950				-.7730		-.6248	
		.953			-.4914				
		.965	-.4697						



ARC11-014IA19 OTS

SRB-NON MFS-OFF LWR WING

(REUW45) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1299.3000 IN. YMRP = .0000 IN. YT
 BREF = 1299.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -8.244	BETA (1) = -.009	2Y/B Y/C	.299	.364	.427	.534	.641	.780	.887	
		.020				-.1599	-.4286	-.5218	-.6374	-.6676
		.040		-.0665	.0105					
		.060	-.2412			-.3589	-.5456	.0000	-.7281	
		.080				-.2977				
		.081			-.0176					
		.086		-.0666						
		.094	-.1011							
		.150				-.2335	-.4291	-.6197	-.6826	
		.163		.0180						
		.177			.0000					
		.229	-.0623							
		.246		-.0052						
		.250				-.1014	-.1655	-.5317	-.6411	
		.274			-.0337					
		.362	.0284							
		.390		.0198						
		.400				-.0943	-.1375		-.3472	
		.402			-.0415					
		.497	.0414							
		.550				.1244	.1165			
		.565			.0914					
		.600							-.0616	
		.650						-.0104		
		.700	.0803				-.0779			
		.725				-.1316				
		.750						-.0970	-.0133	
		.760			-.2344					
		.775				-.3151	-.2307			
		.808			-.3826					
		.834	-.3852							
		.850				-.4406	-.3303	-.2782		
		.857			-.5062					
		.865	-.5472							
		.900	-.4447			-.5539			-.3678	
		.915			-.5970		-.3607			
		.950				-.6288		-.4486		
		.953			-.4457					
		.965	-.5557							

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		ARC11-014IA19 OTS	SRB-NOM MPS-OFF LWR WING						(REUM45)
SECTION (1) LOWER WING		DEPENDENT VARIABLE CP							
ALPHA (2) = -3.936	BETA (1) = -.009	2Y/B %C	.299	.364	.427	.534	.641	.780	.887
		.020			.0697	-.0555	-.1588	-.3910	-.4841
		.040		-.0240	.1539				
		.050	-.2145			-.1493	-.2794	.0000	-.5392
		.080				-.1643			
		.081			.0374				
		.086		-.0341					
		.094	-.0764						
		.150				-.1324	-.2162	-.3435	-.4640
		.163		.0436					
		.177			.0000				
		.229	-.0406						
		.246		.0395					
		.253				-.0119	-.0785	-.1442	-.3828
		.274			.0341				
		.362	.0518						
		.390		.0881					
		.400				.0662	.0908		.1531
		.402			.0378				
		.427	.0908						
		.530				.2312	.2177		
		.565			.1980				
		.600							.1076
		.650						.0371	
		.700	.1544				-.0301		
		.725				-.0894			
		.750						-.0598	-.0747
		.760			-.1919				
		.775				-.2505	-.1869		
		.808			-.3417				
		.834	-.3454						
		.850				-.4088	-.3100	-.2677	
		.857			-.4913				
		.865	-.4643						
		.900	-.4219			-.5303			-.3637
		.905				-.5864	-.3248		
		.950				-.6086		-.4533	
		.953			-.4414				
		.965	-.5206						
ALPHA (3) = -3.309	BETA (1) = -4.000	2Y/B %C	.299	.364	.427	.534	.641	.780	.887
		.020			.2223	.1301	-.0252	-.1442	-.3433
		.040		-.0355	.1702				
		.050	-.1460			.0505	-.1288	.0000	-.3507
		.080				.0096			
		.081			.1245				
		.086		.0218					
		.094	-.1670						

ARC11-014IA19 OTS SRB-NOM MPS-OFF LWR WING (REUM43)

SECTION (1) LOWER WING		DEPENDENT VARIABLE CP									
ALPHA (3) =	-0.309	BETA (1) =	-4.000	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.150				-.0076	-.0454	-.1164	-.1564
				.163		.0927					
				.177			.0000				
				.229	-.1339						
				.246		.0984					
				.250				.0550	.0080	-.0156	.0051
				.274			.0897				
				.362	.0481						
				.390		.1069					
				.400				.0952	.0809		.1870
				.402			.1134				
				.497	.1036						
				.550				.0965	.1499		
				.565			.0801				
				.600							.0519
				.650						-.0200	
				.700	.0144				-.0987		
				.725				-.1806			
				.750						-.1260	-.1282
				.760			-.2419				
				.775				-.3632	-.2585		
				.808			-.3475				
				.834	-.2727						
				.850				-.4429	-.3584	-.3165	
				.857			-.4712				
				.865	-.4691						
				.900	-.3273			-.5368			-.4137
				.905			-.4954		-.3775		
				.950				-.3214		-.4980	
				.953			-.2669				
				.965	-.3655						
ALPHA (3) =	-0.360	BETA (2) =	.009	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.020			.3071	.1614	.0789	-.0195	-.1935
				.040		-.0131	.2151				
				.050	-.0049			.0797	-.0765	.0000	-.2438
				.080				.0145			
				.081			.1494				
				.086		.0063					
				.094	-.0674						
				.150				.0027	-.0254	-.0859	-.1099
				.163		.1423					
				.177			.0000				
				.229	-.0221						

		ARC11-014IA19 OTS	SRB-NCM MPS-OFF LWR WING						(REUM45)		
SECTION (1) LOWER WING		DEPENDENT VARIABLE CP									
ALPHA (3) =	-.360	BETA (2) =	.009	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.246		.1128					
				.250				.0607	.0212	.0736	.2743
				.274			.1019				
				.362	.0939						
				.390		.1487					
				.400				.2230	.3151		.2217
				.402			.1844				
				.497	.1608						
				.550				.2928	.2677		
				.565			.2732				
				.600							.0831
				.650					.0442		
				.710	.2329				.0001		
				.725				-.0566			
				.750						-.0534	-.0981
				.760			-.1650				
				.775				-.2075	-.1554		
				.808			-.2985				
				.834	-.3225						
				.850				-.3831	-.3038	-.2657	
				.857			-.4760				
				.865	-.4366						-.3692
				.900	-.4292			-.5046			
				.905			-.5763		-.3138		
				.950				-.5872		-.4532	
				.953			-.4744				
				.965	-.5063						
ALPHA (3) =	-.405	BETA (3) =	4.025	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.020			.2326	.2432	.1862	.2410	.2846
				.040		.0978	.3186				
				.050	-.0254			.1272	.0014	.0000	.1929
				.080				.0563			
				.081			.2390				
				.086		.0689					
				.094	-.0216						
				.150				.0588	.2830	.3008	.2790
				.163		.0182					
				.177			.0000				
				.229	.0638						
				.246		.1859					
				.250				.3594	.3599	.3467	.2948
				.274			.2284				
				.362	.1542						

SECTION (1) LOWER WING		ARC11-014IA19 OTS	SRB-NOM MPS-CFF LWR WING						(REU/45)		
		DEPENDENT VARIABLE CP									
ALPHA (3) =	-.405	BETA (3) =	4.025	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.390		.2750					
				.400			.4321	.4004		.2445	
				.402			.4140				
				.497	.2441						
				.550			.3771	.3129			
				.565			.4313				
				.600						.1250	
				.650					.0744		
				.700	.4908			.0403			
				.725			-.0010				
				.750					-.0012	-.0604	
				.760			-.0877				
				.775			-.1474	-.1008			
				.808			-.2223				
				.834	-.2836						
				.850			-.3377	-.2923	-.2337		
				.857			-.4400				
				.865	-.3435						
				.900	-.4000		-.4659			-.3404	
				.905			-.5568	-.3151			
				.920			-.5514		-.4253		
				.953			-.6184				
				.965	-.5054						
ALPHA (4) =	3.873	BETA (1) =	.000	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.020			.5025	.3866	.3734	.4865	.5153
				.040		-.0095	.3995				
				.050	.0023			.2393	.2020	.0000	.4045
				.080				.1693			
				.081			.3055				
				.086		.1023					
				.094	-.0222						
				.150				.1920	.3104	.3760	.3626
				.163		.2267					
				.177			.0000				
				.229	-.0054						
				.246		.2190					
				.250				.3188	.3578	.3910	.3263
				.274			.2375				
				.362	.1671						
				.390		.2492					
				.400				.3796	.3888		.2519
				.402			.3329				
				.497	.2349						

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		ARC11-014IA19 OTS	SRB-NOM MPS-OFF LWR WING							(REUW45)
SECTION (1) LOWER WING		DEPENDENT VARIABLE CP								
ALPHA (4) = 3.873	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.550				.3302	.2972			
		.565			.3308					.1095
		.600						.0694		
		.650								
		.700	.3081				.0219			
		.725				-.0358				
		.750						-.0188	-.0710	
		.760			-.1434					
		.775				-.1826	-.1293			
		.808			-.2618					
		.834	-.3224							
		.850				-.3646	-.3221	-.2436		
		.857			-.4719					
		.865	-.4456							
		.900	-.4466			-.4855				-.3513
		.905			-.5743		-.3587			
		.950				-.5726		-.4368		
		.953			-.5421					
		.965	-.5147							
ALPHA (5) = 7.989	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.020			.5716	.6202	.6633	.7231	.6939	
		.040		.0822	.5125					
		.050	.0450			.4753	.5091	.0000	.5897	
		.080				.4109				
		.081			.4335					
		.086		.1977						
		.094	.0312							
		.150				.3721	.4358	.5021	.4782	
		.163		.3162						
		.177			.0000					
		.229	.0888							
		.246		.3108						
		.250				.3870	.4295	.4666	.4070	
		.274			.3402					
		.362	.2439							
		.390		.3344						
		.400				.4026	.4138		.3045	
		.402			.3644					
		.497	.3085							
		.550				.3325	.3130			
		.565			.3271					
		.600							.1508	
		.650						.0987		

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TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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SECTION (1) LOWER WING		DEPENDENT VARIABLE CP							
ALPHA (5) = 7.989 DELTA (1) = .000		ARC11-014IA19 OTS	SRB-NOM MPS-OFF LWR WING						(REUM45)
		2Y/B	.299	.364	.427	.534	.641	.780	.887
		%C							
		.700	.3176				.0350		
		.725				-.0291			
		.750						.0180	-.0378
		.760			-.1417				
		.775			-.1767	-.1088			
		.808			-.2515				
		.834	-.3158						
		.850				-.3548	-.3446	-.2213	
		.857			-.4696				
		.865	-.4494						
		.900	-.4672			-.4727			-.3301
		.905			-.5711		-.4172		
		.950				-.5628		-.4165	
		.953			-.6438				
		.965	-.5140						

ARC11-014IA19 OTS

SRB-NOM MPS-OFF LWR WING

(REUW46) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -8.179	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			-.2336	-.4292	-.4326	-.5076	-.5132
		.040		-.0960	-.0937				
		.050	-.1440			-.4322	-.4771	.0000	-.5696
		.080				-.4251			
		.081			-.1899				
		.086		-.0808					
		.094	-.0448						
		.150				-.2233	-.4518	-.5133	-.5427
		.163		-.0629					
		.177			.0000				
		.229	-.0989						
		.246		-.0650					
		.250				-.1256	-.2326	-.4664	-.5103
		.274			-.0830				
		.362	-.0771						
		.390		.0033					
		.400				-.0211	-.0579		-.4096
		.402			.0371				
		.497	-.0215						
		.550				.1481	.1777		
		.565			.1017				
		.600							-.1541
		.650						.0519	
		.700	.0980				.0351		
		.725				-.0072			
		.750						.0354	-.0596
		.760			-.0986				
		.775				-.1319	-.1005		
		.808			-.2305				
		.834	-.3020						
		.850				-.2942	-.1979	-.1476	
		.857			-.3691				
		.865	-.3878						
		.900	-.3399			-.4022			-.2027
		.905			-.4591		-.2039		
		.950				-.4716		-.3006	
		.953			-.5145				
		.965	-.4436						

ARC11-014IA19 OTS

SRB-NOM MPS-OFF LWR WING

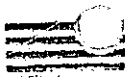
(REUM46)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -4.002	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.0436	-.1879	-.2161	-.3308	-.3658
		.040		.0123	.0117				
		.050	-.1284			-.2463	-.2935	.0000	-.4162
		.080				-.2145			
		.081			-.1056				
		.086		-.0130					
		.094	.0081						
		.150				-.1597	-.2522	-.3250	-.3726
		.163		-.0168					
		.177			.0000				
		.229	-.0594						
		.246		.0122					
		.250				-.0640	-.1685	-.2725	-.3217
		.274			-.0256				
		.362	-.0611						
		.390		.0840					
		.400				.0646	.0228		-.1576
		.402			.1246				
		.497	.0511						
		.550				.2960	.3035		
		.565			.2088				
		.600							.1792
		.650						.1598	
		.700	.1886				.1041		
		.725				.0433			
		.750						.0843	.0869
		.760			-.0529				
		.775				-.0810	-.0351		
		.808			-.1877				
		.834	-.2759						
		.850				-.2570	-.1928	-.1146	
		.857			-.3437				
		.865	-.3357						
		.900	-.3427			-.3728			-.1873
		.905			-.4401		-.2031		
		.950				-.4472		-.2978	
		.953			-.5065				
		.965	-.4125						
ALPHA (3) = -3.348	BETA (1) = -4.000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.1898	.0864	-.0075	-.0761	-.2165
		.040		-.0784	.1326				
		.050	-.0937			-.0135	-.1393	.0000	-.2593
		.080				-.0591			
		.081			.0870				
		.086		.0014					
		.094	-.1864						

		ARC11-014IA19 QTS	SRB-NCM MPS-OFF LWR WING							(REUMAG)	
SECTION (1) LOWER WING		DEPENDENT VARIABLE CP									
ALPHA (3) =	-0.340	BETA (1) =	-4.000	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.150				.0191	.0043	-.0884	-.1780
				.163		.0594					
				.177			.0000				
				.229	-.0887						
				.246		.0673					
				.250				.0779	.0276	-.0179	-.0506
				.274			.1010				
				.362	.0111						
				.390		.1135					
				.400				.1203	.0903		.0240
				.402			.1328				
				.497	.0855						
				.550				.1449	.2189		
				.565			.1273				
				.600							.1670
				.650						.0976	
				.700	.0471				.0204		
				.725				-.0635			
				.750						.0108	.0070
				.760			-.1476				
				.775				-.1977	-.1171		
				.808			-.2317				
				.834	-.2076						
				.850				-.3087	-.2427	-.1745	
				.857			-.3530				
				.865	-.3653						
				.900	-.2803			-.3967			-.2501
				.905			-.4246		-.2471		
				.950				-.4559		-.3435	
				.953			-.3224				
				.965	-.3203						
ALPHA (3) =	-0.389	BETA (2) =	.010	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.020			.1523	.1322	.0186	-.0066	-.1180
				.040		.0259	.0949				
				.050	-.0834			.0030	-.1047	.0000	-.1827
				.080				-.0468			
				.081			.1684				
				.086		.0380					
				.094	.0063						
				.150				-.0910	-.1059	-.0925	-.1301
				.163		.0001					
				.177			.0000				
				.229	.0325						



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TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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		ARC11-014IA19 OTS	SRB-NOM HPS-OFF LWR WING						(REUW46)		
SECTION (1) LOWER WING		DEPENDENT VARIABLE CP									
ALPHA (3) =	-0.369	BETA (2) =	.018	2Y/B	.299	.364	.427	.534	.641	.780	.887
				%C							
				.246		.0688					
				.250				.1767	.1644	.0894	-.0440
				.274			.1343				
				.362	.0182						
				.390		.1687					
				.400				.1924	.1536		.2587
				.402			.1965				
				.497	.1392						
				.550				.3787	.3750		
				.565		.2965					
				.600							.2417
				.650						.1826	
				.700	.2584				.1319		
				.725			.0732				
				.750						.1040	.0563
				.780			-.0322				
				.775				-.0544	-.0012		
				.808			-.1517				
				.834	-.2566						
				.850				-.2349	-.2020	-.0123	
				.857			-.3292				
				.865	-.3329						
				.900	-.3399			-.3519			-.2132
				.905			-.4300		-.2807		
				.950				-.4271		-.2973	
				.953			-.5076				
				.965	-.4021						
ALPHA (3) =	-0.360	BETA (3) =	4.028	2Y/B	.299	.364	.427	.534	.641	.780	.887
				%C							
				.020			.2464	.1795	.1536	.1195	-.0038
				.040		.0815	.1864				
				.050	.0153			.0528	-.0312	.0000	-.0871
				.080				.0334			
				.081			.0856				
				.086		.1313					
				.094	.0380						
				.150				-.0491	-.0567	-.0355	-.0295
				.163		.0790					
				.177			.0000				
				.229	.0394						
				.246		.1392					
				.250				.0590	.1731	.0485	.1248
				.274			.0251				
				.362	-.0441						

		ARC11-014IA19 QTS	SRB-NOM MPS-OFF L/R WING						(REUW46)		
SECTION (1) LOWER WING		DEPENDENT VARIABLE CP									
ALPHA (3) =	-1.360	BETA (3) =	4.028	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.390		.1660					
				.400			.4138	.4658			.3738
				.402			.2456				
				.497	.0478						
				.550			.4610	.4212			
				.565			.4837				
				.600						.2581	
				.650					.2160		
				.700	.4922			.1772			
				.725			.1379				
				.750					.1494	.0768	
				.760			.0544				
				.775				.0011	.0565		
				.808			-.0603				
				.834	-.1813						
				.850				-.1804	-.1902	-.0835	
				.857			-.2746				
				.865	-.2873						
				.900	-.3011			-.3002			-.1948
				.905					-.2696		
				.905			-.3875				
				.950				-.3769		-.2710	
				.953			-.4695				
				.965	-.3779						
ALPHA (4) =	3.900	BETA (1) =	.006	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.020			.3611	.3236	.3121	.3404	.2886
				.040		.0243	.3633				
				.050	.0658			.1904	.2422	.0000	.1731
				.080				.1093			
				.081			.2245				
				.086		.0461					
				.094	.0306						
				.150				.1681	.2168	.1657	.1782
				.163		.0818					
				.177			.0000				
				.229	.0641						
				.246		.1371					
				.250				.2250	.1751	.1763	.3040
				.274			.2781				
				.362	.1592						
				.390		.2700					
				.400				.2955	.3547		.3552
				.402			.2889				
				.497	.2313						

SECTION (1) LOWER WING		DEPENDENT VARIABLE CP									
ALPHA (4) = 3.900 BETA (1) = .006		2Y/B	.299	.364	.427	.534	.641	.780	.887		
		X/C									
		.550				.4172	.3999				
		.555			.3818						
		.600								.2147	
		.650						.1863			
		.700	.3309				.1498				
		.725				.0945					
		.750						.1043	.0322		
		.760			-.0143						
		.775				-.0325	.0172				
		.808			-.1202						
		.834	-.2316								
		.850				-.2168	-.2158	-.1143			
		.857			-.3176						
		.865	-.3424								
		.900	-.3371			-.3337				-.2183	
		.905				-.4167	-.2988				
		.950				-.4112		-.2995			
		.953				-.4992					
		.965	-.3960								
ALPHA (5) = 7.653 BETA (1) = .006		2Y/B	.299	.364	.427	.534	.641	.780	.887		
		X/C									
		.020			.4938	.5398	.5664	.5644	.6474		
		.040		.0461	.4214						
		.050	.0931			.3905	.3654	.0000	.5506		
		.080				.3032					
		.081			.3501						
		.086		.1171							
		.094	.0730								
		.150				.2686	.2986	.4234	.4974		
		.163		.2333							
		.177			.0000						
		.229	.0919								
		.246		.2524							
		.250				.2672	.3503	.5110	.4570		
		.274			.2780						
		.362	.1693								
		.390		.2909							
		.400				.4330	.4831		.3787		
		.402			.3374						
		.497	.2717								
		.550				.4185	.4085				
		.565			.3854						
		.600							.2496		
		.650						.2102			

		ARC11-014IA19 OTS	SRB-NOM MPS-OFF LWR WING							(REUW46)
SECTION (1) LOWER WING		DEPENDENT VARIABLE CP								
ALPHA (5) = 7.653	BETA (1) = .006	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.700	.3522				.1627			
		.725				.0989				
		.750						.1374	.0739	
		.760				-.0170				
		.775				-.0304	.0336			
		.808				-.1151				
		.834	-.2208							
		.890				-.2094	-.2171	-.0856		
		.857				-.3193				
		.865	-.3358							
		.900	-.3393			-.3235			-.1868	
		.905				-.4145	-.2959			
		.950				-.4045		-.2713		
		.953				-.4904				
		.965	-.3830							

ARC11-014IA19 OTS

SRB-OFF MPS-OFF LWR WING

(REUW47) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.000	BETA (1) = -.003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.0258	-.1957	-.2252	-.3366	-.3728
		.040		.0073	.0087				
		.060	-.1313			-.2557	-.3033	.0000	-.4283
		.080				-.2399			
		.081			-.1126				
		.086		-.0138					
		.094	.0075						
		.150				-.1621	-.2607	-.3327	-.3808
		.163		-.0203					
		.177			.0000				
		.229	-.0692						
		.246		.0094					
		.250				-.0828	-.1799	-.2838	-.3316
		.274			-.0307				
		.362	-.0641						
		.390		.0766					
		.400				.0627	.0223		-.1825
		.402			.1206				
		.497	.0481						
		.550				.2909	.3020		
		.565			.1996				
		.600							.1723
		.650						.1609	
		.700	.1890				.0968		
		.725				.0411			
		.750						.0880	.0867
		.760			-.0149				
		.775				-.0209	.2301		
		.808			-.0166				
		.834	-.3047						
		.850				-.0776	-.1034	-.1093	
		.857			-.1985				
		.865	-.2284						
		.900	-.3053			-.2381			-.1810
		.905			-.3320		-.2294		
		.950				-.3491		-.2755	
		.953			-.4336				
		.965	-.3909						

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 OF POOR QUALITY

		ARC11-014IA19 OTS	SRB-OFF HPS-OFF LWR WING (REUM47)								
SECTION (1) LOWER WING		DEPENDENT VARIABLE CP									
ALPHA (2) =	-.150	BETA (1) =	-4.000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
				.020			.1919	.0936	.0016	-.0643	-.2029
				.040		-.0794	.1365				
				.050	-.0956			-.0056	-.1259	.0000	-.2518
				.080				-.0554			
				.081			.0932				
				.086		.0001					
				.094	-.1077						
				.150				.0255	.0122	-.0758	-.1590
				.163		.0633					
				.177			.0000				
				.229	-.0872						
				.246		.0711					
				.250				.0825	.0349	-.0129	-.0412
				.274			.1046				
				.362	.0147						
				.390		.1146					
				.400				.1215	.0914		.0283
				.402			.1365				
				.497	.0890			.1459	.2233		
				.550							
				.565			.1302				
				.600							.1640
				.650						.1030	
				.700	.0486				.0229		
				.725				-.0679			
				.750						.0241	.0062
				.760			-.1175				
				.775				.0194	.1338		
				.808			-.0491				
				.834	-.2375						
				.850				-.1572	-.1565	-.1737	
				.857			-.2260				
				.865	-.2442						
				.900	-.2644			-.2806			-.2452
				.905			-.3486		-.2763		
				.950				-.3705		-.3251	
				.953			-.4262				
				.965	-.2828						
ALPHA (2) =	-.129	BETA (2) =	.009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
				.020			.1599	.1378	.0648	.0083	-.1081
				.040		.0206	.0968				
				.050	-.0802			.0071	-.0968	.0000	-.1740
				.080				-.0415			
				.081			.1721				
				.086		.0372					
				.094	.0065						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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		ARC11-014IA19 QTS	SRB-OFF MPS-OFF LWR WING							(REUW47)	
SECTION (1) LOWER WING		DEPENDENT VARIABLE CP									
ALPHA (2) =	-.129	BETA (2) =	.009	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.150				-.0868	-.1013	-.0864	-.1164
				.163		-.0025					
				.177			.0000				
				.229	.0385						
				.246		.0705					
				.250				.1800	.1696	.0946	-.0192
				.274			.1356				
				.362	.0119						
				.390		.1702					
				.400				.1913	.1582		.2664
				.402			.1990				
				.497	.1424						
				.550				.3902	.3764		
				.565			.2998				
				.600							.2442
				.650						.1851	
				.700	.2583				.1316		
				.725				.0727			
				.750						.1148	.0590
				.760			.0211				
				.775				.0185	.2751		
				.808			.0211				
				.834	-.2691						
				.850				-.0447	-.0841	-.1080	
				.857			-.1711				
				.865	-.1949						
				.900	-.2858			-.2118			-.2096
				.905			-.3110		-.2408		
				.920				-.3261		-.2770	
				.953			-.4221				
				.965	-.3701						
ALPHA (2) =	-.234	BETA (3) =	4.028	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.020			.2491	.1841	.1634	.1307	.0065
				.040		.0843	.1918				
				.050	.0292			.0617	-.0258	.0000	-.0785
				.080				.0346			
				.081			.0834				
				.086		.1372					
				.094	.0388						
				.150				-.0499	-.0521	-.0361	-.0202
				.163		.0804					
				.177			.0000				
				.229	.0405						

		ARC11-014IA19 OTS	SRB-OFF MPS-OFF LWR WING							(REUM47)	
SECTION (1) LOWER WING		DEPENDENT VARIABLE CP									
ALPHA (2) =	-0.234	BETA (3) =	4.028	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.246		.1379					
				.250				.0706	.1935	.0522	.1280
				.274			.0261				
				.362	-0.0449						
				.390		.1705					
				.400				.4298	.4665		.3729
				.402			.2462				
				.497	.0559						
				.557				.4598	.4218		
				.565			.4837				
				.600							.2555
				.650						.2142	
				.700	.4984				.1766		
				.725				.1358			
				.750						.1557	.0722
				.760			.1216				
				.775				-.0205	.3399		
				.808			.1381				
				.854	-0.1869						
				.850				.0245	-.0404	-.0841	
				.857			-.0952				
				.865	-0.1012						
				.900	-0.2257			-.1510			-.1929
				.905			-.2475		-.2072		
				.950				-.2650		-.2521	
				.955			-.3704				
				.965	-0.3524						
ALPHA (3) =	3.867	BETA (1) =	.009	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.020			.3463	.3166	.3020	.3337	.2810
				.040		.0161	.3646				
				.050	.0650			.1842	.2419	.0000	.1632
				.080				.1073			
				.081			.2215				
				.086		.0405					
				.094	.0278						
				.150				.1749	.2093	.1619	.1701
				.163		.0601					
				.177			.0000				
				.229	.0611						
				.246		.1389					
				.250				.2180	.1685	.1680	.2556
				.274			.2654				
				.362	.1528						

SECTION (1) LOWER WING		DEPENDENT VARIABLE CP									
ALPHA (3) = 3.867 BETA (1) = .009		2Y/B %C	.299	.364	.427	.534	.641	.780	.887	(RELW47)	
		.390		.2699							
		.400				.2927	.3309			.3533	
		.402			.2826						
		.497	.2275								
		.550				.4070	.3969				
		.565			.3719						
		.600								.2142	
		.650						.1820			
		.700	.3207				.1474				
		.725				.0875					
		.750						.1117	.0294		
		.760			.0363						
		.775				.0585	.2919				
		.808			.0494						
		.834	-.2448								
		.850				-.0275	-.0758	-.1176			
		.857				-.1524					
		.865	-.1869								
		.900	-.2823								
		.905				-.1999				-.2175	
		.905			-.2959		-.2407				
		.950				-.3135		-.2837			
		.953			-.4163						
		.965	-.3731								

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OF POOR QUALITY

ARC11-014IA19 OTS

SRB-NOM MFS-OFF LWR WING

(REUW48) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.143 BETA (1) = -.003

Z/Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.0271	-.1940	-.2249	-.3393	-.3742
.040		.0135	.0085				
.050	-.1317			-.2540	-.2998	.0000	-.4258
.080				-.2343			
.081			-.1119				
.086		-.0140					
.094	.0048						
.153				-.1654	-.2581	-.3330	-.3781
.163		-.0188					
.177			.0000				
.229	-.0678						
.246		.0049					
.250				-.0744	-.1745	-.2787	-.3314
.274			-.0314				
.362	-.0598						
.390		.0783					
.400				.0639	.0236		-.1724
.402			.1226				
.497	.0480						
.550				.2975	.3026		
.565			.2038				
.600							.1768
.650						.1592	
.700	.1912				.0962		
.725				.0381			
.750						.0901	.0842
.760			-.0160				
.775				-.0185	.2300		
.808			-.0174				
.834	-.2730						
.850				-.0787	-.1055	-.1112	
.857			-.1962				
.865	-.1706						
.900	-.2807			-.2402			-.1843
.905			-.3226		-.2302		
.950				-.3497		-.2787	
.953			-.4155				
.965	-.3267						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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		ARC11-014IA19 OTS	SRB-NOM MPS-CFF LWR WING							(REJW48)	
SECTION (1) LOWER WING		DEPENDENT VARIABLE CP									
ALPHA (2) =	-0.243	BETA (1) =	-4.003	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.020			.1899	.0833	-.0055	-.0737	-.2121
				.040		-.0817	.1336				
				.050	-.0982			-.0111	-.1327	.0000	-.2588
				.080				-.0580			
				.081			.0870				
				.086		-.0000					
				.094	-.1098						
				.150				.0054	.0046	-.0921	-.1774
				.163		.0616					
				.177			.0000				
				.229	-.0893						
				.246		.0677					
				.250				.0749	.0305	-.0173	-.0482
				.274			.1028				
				.362	.0134						
				.390		.1134					
				.400				.1187	.0875		.0244
				.402			.1334				
				.497	.0858						
				.550				.1473	.2218		
				.565			.1278				
				.600							.1642
				.650					.0999		
				.700	.0491				.0209		
				.725				-.0674			
				.750					.0214	.0051	
				.760			-.0988				
				.775				.0194	.1327		
				.808			-.0370				
				.834	-.2010						
				.850				-.1507	-.1579	-.1747	
				.857			-.2166				
				.865	-.1986						
				.900	-.2163			-.2767			-.2465
				.905			-.3319		-.2740		
				.950				-.3675		-.3267	
				.953			-.3741				
				.965	-.2121						
ALPHA (2) =	-.324	BETA (2) =	.009	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.020			.1493	.1302	.0554	-.0096	-.1220
				.040		.0216	.0911				
				.050	-.0884			.0004	-.1055	.0000	-.1885
				.080				-.0520			
				.081			.1639				
				.086		.0310					
				.094	.0030						

ARC11-014IA19 OTS SRB-NOM MPS-OFF LWR WING (REUW48)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.324 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.150				-.0915	-.1116	-.0936	-.1353
.163		-.0051					
.177			.0000				
.229	.0306						
.246		.0631					
.250				.1632	.1656	.0885	-.0558
.274			.1291				
.362	.0071						
.390		.1649					
.400				.1915	.1560		.2587
.402			.1947				
.497	.1367						
.550				.3765	.3715		
.565		.2942					
.600							.2396
.650						.1795	
.700	.2547				.1260		
.725				.0681			
.750						.1106	.0530
.760			.0162				
.775			.0162	.0180	.2710		
.808							
.834	-.2570						
.850				-.0493	-.0905	-.1122	
.857			-.1746				
.865	-.1610						
.900	-.2744			-.2159			-.2125
.905			-.3114		-.2450		
.950				-.3302		-.2812	
.953			-.4149				
.965	-.3321						

ALPHA (2) = -.435 BETA (3) = 4.025

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.2469	.1798	.1539	.1196	-.0004
.040		.0829	.1880				
.050	.0264			.0511	-.0321	.0000	-.0872
.080				.0283			
.081			.0814				
.086		.1209					
.094	.0391						
.150				-.0900	-.0564	-.0424	-.0313
.163		.0786					
.177			.0000				
.229	.0380						

		ARC11-014IA19 OTS	SRB-NCM MPS-OFF LWR WING						(REUW8)	
SECTION (1) LOWER WING		DEPENDENT VARIABLE CP								
ALPHA (2) = -.435 BETA (3) = 4.025		2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.246		.1347						
		.250				.0520	.1778	.0432	.1037	
		.274			.0240					
		.362	-.0432							
		.397		.1662						
		.400				.4135	.4676		.3731	
		.402			.2462					
		.497	.0427							
		.550				.4615	.4221			
		.565			.4882					
		.610							.2596	
		.650						.2159		
		.700	.4937				.1784			
		.725				.1356				
		.750						.1592	.0769	
		.760			.1219					
		.775				-.0153	.3391			
		.806			.1377					
		.834	-.1774							
		.850				.0256	-.0497	-.0825		
		.857			-.0951					
		.865	-.0240							
		.900	-.1913							
		.905				-.1535			-.1900	
		.905			-.2483		-.2055			
		.950				-.2634		-.2515		
		.953			-.3670					
		.965	-.3288							
ALPHA (3) = 4.032 BETA (1) = -.006		2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.020			.3446	.3246	.3183	.3487	.2951	
		.040		.0212	.3629					
		.050	.0667			.1941	.2516	.0000	.1732	
		.080				.1231				
		.081			.2273					
		.086		.0431						
		.094	.0297							
		.150				.1773	.2093	.1679	.1867	
		.163		.0670						
		.177			.0000					
		.229	.0637							
		.246		.1431						
		.250				.2203	.1769	.1826	.3200	
		.274			.2762					
		.362	.1593							

		ARC11-014IA19 QTS	SRB-NOM MPS-OFF LWR WING						(REUW48)		
SECTION (1) LOWER WING		DEPENDENT VARIABLE CP									
ALPHA (3) =	4.032	BETA (1) =	-.006	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.390		.2737					
				.400				.2965	.3804		.3527
				.402			.2899				
				.497	.2330						
				.550				.4136	.3990		
				.565			.3789				
				.600							.2126
				.650						.1928	
				.700	.3334				.1482		
				.725				.0901			
				.750						.1118	.0310
				.760			.0404				
				.775				.0630	.2934		
				.808			.0540				
				.834	-.2308						
				.850				-.0249	-.0759	-.1163	
				.857			-.1478				
				.865	-.1537						
				.900	-.2616			-.1976			-.2165
				.905			-.2913		-.2397		
				.950				-.3134		-.2836	
				.953			-.4089				
				.965	-.3398						

ARC11-014IA19 075

SRB-OFF MPS-OFF LWR WING

(REUM49) (19 OCT 74)

REFERENCE DATA

SREF = 2680.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = .900
 GTMAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.041	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.0207	-.3503	-.5149	-.8465	-1.0029
		.040		.0093	.0001				
		.050				-.3690	-.5338	.0000	-.8734
		.080				-.3177			
		.081			-.0871				
		.086		.0974					
		.094	.0139						
		.150				-.2030	-.2172	-.2579	-.3046
		.163		.0574					
		.177			.0000				
		.229	.0307						
		.246		-.0560					
		.250				-.0922	-.1075	-.1553	-.2288
		.274				-.0763			
		.362	.0380						
		.390		-.0361					
		.400				-.0070	-.0527		-.2310
		.402				-.0070			
		.497	-.0134						
		.550				.0950	-.1675		
		.565				-.0375			
		.600							-.4199
		.650						-.4444	
		.700	-.0134				-.5216		
		.725				-.5840			
		.750						-.3886	-.3849
		.760				-.4951			
		.775				-.0495	-.2891		
		.800				-.3063			
		.834	-.4286						
		.850				-.4029	-.5129	-.6610	
		.857				-.3614			
		.865	-.4171						
		.900	-.3587				-.4631		-.4475
		.905				-.4702	-.3003		
		.950					-.4191	-.1357	
		.953				-.3375			
		.965	-.3117						

		ARC11-014IA19 OTS		SRB-OFF NPS-OFF LWR WING						(REUW49)
SECTION (1) LOWER WING		DEPENDENT VARIABLE CP								
ALPHA (2) = -.198	BETA (1) = -4.003	2Y/B	.299	.364	.427	.534	.641	.780	.887	
		X/C								
		.020			.0764	-.1020	-.1983	-.3178	-.4413	
		.040		.0313	.0423					
		.050	-.0712			-.1617	-.2551	.0000	-.4690	
		.080				-.1414				
		.081			.0966					
		.086		.0413						
		.094	-.0461							
		.150				-.0910	-.1316	-.1687	-.2448	
		.163		.0476						
		.177			.0000					
		.229	-.0002							
		.246		.0185						
		.250				-.0463	-.0740	-.1262	-.2192	
		.274			-.0186					
		.362	.0331							
		.390		-.0028						
		.400				-.0425	-.0730		-.2635	
		.402			-.0202					
		.497	.0121							
		.550				-.1647	-.2061			
		.565			-.1133					
		.600							-.4652	
		.650						-.4799		
		.700	-.1168			-.4871				
		.725				-.3761				
		.750						-.4034	-.4253	
		.760			-.2759					
		.775				-.0217	-.1224			
		.808			-.2488					
		.854	-.3375							
		.850				-.4211	-.4690	-.5844		
		.857			-.4054					
		.865	-.3279							
		.900	-.3033			-.4440			-.4722	
		.905			-.3978		-.4519			
		.950				-.3343		-.2446		
		.953			-.3212					
		.965	-.2698							

ALPHA (2) = -.162	BETA (2) = .009	2Y/B	.299	.364	.427	.534	.641	.780	.887	
		X/C								
		.020			.2334	-.0414	-.0796	-.1178	-.2055	
		.040		.1313	.1408					
		.050	.0178			-.1231	-.1785	.0000	-.2585	
		.080				-.1179				
		.081			.0371					
		.086		.1444						
		.094	.0248							

ARC11-014IA19 OTS SRB-OFF MPS-OFF LWR WING (REUW49)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.162	BETA (2) = .009	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.150				-.0724	-.0724	-.0865	-.1608
		.163		.1221					
		.177			.0000				
		.229	.0494						
		.246		.0212					
		.250				.0023	-.0084	-.0521	-.1390
		.274			.0099				
		.362	.0780						
		.390		.0365					
		.400				.0496	.0013		-.1996
		.402			.0588				
		.497	.0470						
		.550				-.0599	-.1392		
		.565			.0071				
		.600							-.4010
		.650						-.4258	
		.700	.0355				-.4969		
		.725				-.5555			
		.750						-.3700	-.3634
		.760			-.4953				
		.775				-.0352	-.2558		
		.808			-.2804				
		.834	-.4518						
		.850				-.5354	-.5099	-.6156	
		.857			-.3104				
		.865	-.4226						
		.900	-.3579			-.4088			-.7754
		.905			-.4385		-.2794		
		.950				-.4427		-.1308	
		.953			-.3021				
		.965	-.3189						

ALPHA (2) = -.285	BETA (3) = 4.022	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.020				.3007	.1282	.1325	.1222	.0310
		.040		.2001		.2293				
		.050	.0725			.0161	.0009	.0000	-.0750	
		.080				.0017				
		.081				.1215				
		.086		.2101						
		.094	.0703							
		.150				.0320	.0418	.0098	-.0676	
		.163		.1863						
		.177				.0000				
		.229	.0997							

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		ARC11-014IA19 OTS	SRB-OFF MPS-OFF LWR WING						(REUW49)		
SECTION (1) LOWER WING		DEPENDENT VARIABLE CP									
ALPHA (2) =	- .285	BETA (3) =	4.022	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.246		.0892					
				.250				.1029	.0772	.0216	-.0800
				.274			.1181				
				.362	.1321						
				.390		.1430					
				.400				.1229	.0582		-.1555
				.402			.1608				
				.497	.1421						
				.550				-.0137	-.1010		
				.565			.0821				
				.600							-.3614
				.650						-.3920	
				.700	.1891				-.4603		
				.725				-.5145			
				.750						-.3243	-.3187
				.760			-.4090				
				.775				-.0623	-.1492		
				.808			-.0950				
				.834	-.3386						
				.850				-.2781	-.3060	-.5345	
				.857			-.2879				
				.865	-.2772						
				.900	-.3232			-.4875			-.7413
				.905				-.4651	-.2916		
				.950				-.2573		-.1343	
				.953			-.1846				
				.955	-.3146						
ALPHA (3) =	3.828	BETA (1) =	-.003	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.020			.3669	.1901	.2012	.2304	.1791
				.040		.1459	.2587				
				.050	.0020			.0596	.0499	.0000	.0391
				.080				.0227			
				.081			.1451				
				.086		.1853					
				.094	.0261						
				.150				.0285	.0531	.0403	-.0288
				.163		.1849					
				.177			.0000				
				.229	.0689						
				.246		.0875					
				.250				.0773	.0677	.0177	-.0787
				.274							
				.362	.1186						

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TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS SRB-OFF MPS-OFF LWR WING (REUM49)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.828 BETA (1) = -.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.390		.0907					
.400				.0837	.0377		-.1771
.402			.0994				
.497	.0927						
.550				-.0524	-.1236		
.565			.0211				
.600							-.3854
.650						-.4159	
.700	.0653				-.4790		
.725				-.5327			
.750						-.3324	-.3405
.760			-.4896				
.775				-.0202	-.1865		
.808			-.2320				
.834	-.4575						
.850				-.2694	-.3098	-.5551	
.857			-.2931				
.865	-.3752						
.900	-.3419			-.4536			-.7428
.905			-.4691		-.3661		
.950				-.5473		-.5938	
.953			-.4239				
.965	-.3034						

ARC11-0147A19 OTS

SRB-OFF MPS-OFF LWR WING

(RELWSD) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

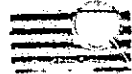
SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.017	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.3280	-.0091	-.1150	-.3082	-.5262
		.040		.0855	.2333				
		.050	-.1244			-.0579	-.1996	.0000	-.4205
		.080				-.0705			
		.081			.1421				
		.086		.1747					
		.094	-.1421						
		.150				.0300	.0486	.0412	.0187
		.163		.2044					
		.177			.0000				
		.229	.0125						
		.246		.1370					
		.250				.1285	.1188	.1070	.0557
		.274			.1275				
		.362	.1737						
		.390		.1481					
		.400				.1925	.1804		.0618
		.402			.1758				
		.497	.1533						
		.550				.1413	.1023		
		.565			.1566				
		.600							-.0943
		.650						-.1121	
		.700	.1598				-.1814		
		.725				-.2494			
		.750						-.0352	-.0688
		.760			-.2899				
		.775				-.0107	.0011		
		.800			-.2743				
		.834	-.4547						
		.850				-.3695	-.3776	-.3205	
		.857			-.4757				
		.865	-.4404						
		.900	-.5124			-.5685			-.4328
		.905			-.6333		-.4718		
		.950				-.6931		-.5569	
		.953			-.3714				
		.965	-.4321						

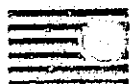
		ARC11-014IA19 OTS	SRB-OFF MPS-OFF LWR WING							(REUW50)	
SECTION (1) LOWER WING		DEPENDENT VARIABLE CP									
ALPHA (2) =	-0.162	BETA (1) =	-4.000	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.020			.2749	.1862	.1150	.0266	-.0461
				.040		.1308	.2442				
				.050	-.1906			.1041	.0245	.0000	-.0979
				.080				.1027			
				.081			.2081				
				.086		.1740					
				.094	-.0986						
				.150				.1250	.0988	.0879	.0633
				.163		.2034					
				.177			.0000				
				.229	.0788						
				.246		.1919					
				.250				.1542	.1389	.1243	.0645
				.274			.1720				
				.362	.1733						
				.390		.1812					
				.400				.1563	.1475		.0173
				.402			.1685				
				.497	.1842						
				.550				.0471	.0417		
				.565			.0745				
				.620							-.1411
				.650						-.1664	
				.700	.0594				-.2495		
				.725				-.3287			
				.750						-.1054	-.1241
				.760			-.3160				
				.775				.0486	-.0861		
				.808			-.2116				
				.834	-.4197						
				.850				-.3960	-.4280	-.3808	
				.857			-.4471				
				.865	-.4275						
				.900	-.3941			-.5607			-.4842
				.905			-.5532		-.5206		
				.950				-.6704		-.6032	
				.953			-.3839				
				.965	-.3735						
ALPHA (2) =	-0.141	BETA (2) =	.012	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.020			.4923	.2650	.2362	.2244	.1813
				.040		.1783	.3879				
				.050	-.1016			.1523	.1178	.0000	.0945
				.080				.1303			
				.091			.2811				
				.086		.2732					
				.094	-.1157						

		ARC11-014IA19 OTS	SRB-OFF MPS-OFF LWR WING							(REV#50)		
SECTION (1) LOWER WING		DEPENDENT VARIABLE CP										
ALPHA (2) =	-0.141	BETA (2) =	.012	2Y/B	.299	.364	.427	.534	.641	.780	.887	
				X/C								
				.150				.1508	.1785	.1941	.1444	
				.163		.3010						
				.177			.0000					
				.229	.0631							
				.246		.2258						
				.250			.2143	.2277	.2142	.1432		
				.274			.2138					
				.362	.2306							
				.390		.2290						
				.400			.2627	.2469		.0913		
				.402			.2564					
				.497	.2159							
				.550			.1898	.1435				
				.565			.2200					
				.600							-.0697	
				.690						-.0914		
				.700	.2167				-.1526			
				.725			-.2143					
				.750						-.0031	-.0459	
				.760			-.2415					
				.775				.0200	.0291			
				.808			-.2335					
				.834	-.4131							
				.850			-.3360	-.3478	-.3065			
				.857			-.4399					
				.865	-.3990							
				.900	-.5026			-.5400			-.4257	
				.905			-.6038		-.4460			
				.950				-.6684		-.5369		
				.953			-.3593					
				.965	-.3539							
ALPHA (2) =	-0.234	BETA (3) =	4.025	2Y/B	.299	.364	.427	.534	.641	.780	.887	
				X/C								
				.020				.5147	.3774	.3809	.3957	.3423
				.040		.3239		.4416				
				.050	.0420			.2589	.2456	.0000	.2325	
				.080				.2356				
				.081				.3348				
				.086		.3638						
				.094	.0454							
				.150				.2545	.2744	.2711	.2158	
				.163		.3701						
				.177				.0000				
				.229	.1897							



		ARC11-014IA19 OTS	SRB-OFF MPS-OFF L/R WING							(REU-50)	
SECTION (1) LOWER WING		DEPENDENT VARIABLE CP									
ALPHA (2) =	- .234	BETA (3) =	4.025	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.246		.2801					
				.290				.3196	.3090	.2761	.1908
				.274			.3175				
				.362	.3001						
				.390		.3421					
				.400				.3444	.3013		.1254
				.402			.3650				
				.497	.3297						
				.590				.2412	.1788		
				.565			.3158				
				.600							-.0434
				.690						-.0662	
				.700	.4082				-.1256		
				.725				-.1792			
				.790						.0409	-.0146
				.760			-.1851				
				.775				-.0033	.0821		
				.808			-.1773				
				.834	-.4174						
				.890				-.3016	-.3071	-.2829	
				.857			-.4263				
				.865	-.2763						
				.900	-.4341			-.5143			-.3941
				.905				-.5711	-.3853		
				.990				-.6339		-.3184	
				.953				-.3407			
				.965	-.4824						
ALPHA (3) =	3.879	BETA (1) =	.000	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.020			.5770	.4385	.4525	.4767	.4476
				.040		.2590	.4681				
				.050	.0142			.3061	.3118	.0000	.3297
				.080				.2646			
				.081			.3589				
				.086		.3363					
				.094	.0447						
				.150				.2560	.2879	.2996	.2550
				.163		.3617					
				.177			.0000				
				.229	.1809						
				.246		.2816					
				.290				.2903	.3030	.2827	.2071
				.274			.2745				
				.362	.2821						

SECTION (1) LOWER WING		ARC11-014IA19 OTS		SRB-OFF MPS-OFF LWR WING						(REUM50)	
ALPHA (3) * 3.879 BETA (1) * .000		DEPENDENT VARIABLE CP		2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.390		.2831					
				.400				.3052	.2857		.1205
				.402			.2977				
				.497	.2748						
				.550				.2048	.1619		
				.565			.2384				
				.600							-.0611
				.650						-.0801	
				.700	.2463				-.1401		
				.725				-.2054			
				.750						.0170	-.0341
				.760			-.2317				
				.775				.0825	.0503		
				.808			-.2204				
				.834	-.4536						
				.850				-.3236	-.3385	-.3034	
				.857			-.4444				
				.865	-.4211						
				.900	-.5470			-.5307			-.4237
				.905			-.6050		-.4334		
				.920				-.6604		-.5336	
				.953			-.6973				
				.965	-.4502						



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TABLATE SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS

SRB-OFF MPS-OFF LWR WING

(REUW51) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.008	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.1130	-.0605	-.1568	-.4043	-.4919
		.040		-.0123	.1600				
		.060	-.2162			-.1467	-.2841	.0000	-.5420
		.080				-.1461			
		.081			.0493				
		.086		-.0260					
		.094	-.0738						
		.150				-.1384	-.2190	-.3530	-.4718
		.163		.0623					
		.177			.0000				
		.229	-.0374						
		.246		.0583					
		.250				-.0133	-.0757	-.1628	-.3873
		.274			.0401				
		.362	.0550						
		.390		.0922					
		.400				.0600	.0902		.1575
		.402			.0409				
		.497	.0941						
		.550				.2279	.2192		
		.565			.2025				
		.610							.0823
		.650						.0508	
		.700	.1585				-.0277		
		.725				-.0881			
		.750						.1256	.0930
		.760			-.1277				
		.775				-.0369	.1277		
		.808			-.1329				
		.834	-.3686						
		.850				-.2081	-.2153	-.1472	
		.857		-.3201					
		.865	-.2899						
		.900	-.3969			-.3796			-.2474
		.905			-.4518		-.3100		
		.950				-.4946		-.3623	
		.953			-.5598				
		.965	-.4247						

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ARC11-014TA:9 OTS

SRB-OFF MPS-OFF LWR WING

(RELU31)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.138 BETA (1) = -4.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.2259	.0958	-.0140	-.1299	-.3338
.040		-.0320	.1706				
.050	-.1456			.0175	-.1180	.0000	-.3376
.080				-.0296			
.081			.1257				
.085		.0241					
.094	-.1605						
.150				-.0024	-.0358	-.1102	-.1629
.163		.0983					
.177			.0000				
.229	-.1272						
.246		.0994					
.250				.0593	.0167	-.0102	-.0139
.274			.0907				
.362	.0541						
.390		.1083					
.400				.1023	.0848		.1729
.402			.1139				
.497	.1045						
.550				.1030	.1519		
.565			.0823				
.600							.0022
.650						-.0118	
.700	.0138				-.0961		
.725				-.1859			
.750						.0347	.0013
.760			-.1975				
.775				-.0038	.0311		
.808			-.1297				
.834	-.2915						
.850				-.2669	-.2694	-.2137	
.857			-.3337				
.865	-.3006						
.900	-.3015			-.4080			-.3123
.905			-.4467		-.3651		
.950				-.2024		-.4171	
.953			-.4165				
.965	-.2874						

ALPHA (2) = -.225 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.3136	.1855	.0863	-.0078	-.1799
.040		-.0100	.2290				
.050	-.0036			.0853	-.0692	.0000	-.2299
.080				.0146			
.081			.1530				
.086		.0070					
.094	-.0651						

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TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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		ARC11-014IA19 OTS	SRB-OFF MPS-OFF LWR WING							(REUM51)	
SECTION (1) LOWER WING		DEPENDENT VARIABLE CP									
ALPHA (2) =	-.225	BETA (2) =	.009	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.150				.0037	-.0209	-.0797	-.0732
				.163		.1509					
				.177			.0000				
				.229	-.0235						
				.246		.1327					
				.250				.0662	.0264	.1552	.2784
				.274			.1048				
				.362	.0957						
				.390		.1505					
				.400				.2306	.3207		.2156
				.402			.1965				
				.497	.1621						
				.550				.2915	.2697		
				.565			.2781				
				.600							.0508
				.650					.0540		
				.700	.2569				.0014		
				.725				-.0561			
				.750						.1262	.0658
				.760			-.0966				
				.775				-.0129	.1642		
				.808			-.0910				
				.834	-.3467						
				.850				-.1777	-.2008	-.1509	
				.857			-.2958				
				.865	-.2429						
				.900	-.3995			-.3570			-.2613
				.905			-.4405		-.3311		
				.950				-.4735		-.3609	
				.953			-.5510				
				.965	-.4342						
ALPHA (2) =	-.252	BETA (3) =	4.022	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.020			.2081	.2518	.1924	.2427	.3017
				.040		.1032	.3291				
				.050	-.0159			.1369	.0130	.0000	.2125
				.080				.0660			
				.081			.2468				
				.086		.0704					
				.094	-.0127						
				.150				.0535	.3285	.3106	.2867
				.163		.0190					
				.177			.0000				
				.229	.0680						

		ARC11-014IA19 OTS	SRB-OFF MPS-OFF LWR WING						(RELW51)
SECTION (1) LOWER WING		DEPENDENT VARIABLE CP							
ALPHA (2) = -.232	BETA (3) = 4.022	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		.1980					
		.253				.3601	.3621	.3543	.2963
		.274			.2539				
		.362	.1547						
		.390		.2809					
		.400				.4326	.4051		.2468
		.402			.4198				
		.497	.2526						
		.550				.3761	.3177		
		.565			.4360				
		.600							.0972
		.650						.0899	
		.700	.4993				.0457		
		.725				.0029			
		.750						.1881	.1192
		.760			-.0019				
		.775				-.0429	.2311		
		.808			.0086				
		.834	-.2881						
		.850				-.1119	-.1539	-.1087	
		.857			-.2386				
		.865	-.0840						-.2259
		.900	-.3326			-.3059			
		.905			-.4002		-.2911		
		.950				-.4201		-.3281	
		.953			-.4893				
		.965	-.4219						
ALPHA (3) = 3.864	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.4973	.3861	.3763	.4765	.5102
		.040		-.0070	.3951				
		.050	.0022			.2405	.2159	.0000	.4018
		.080				.1649			
		.081			.3041				
		.086		.0996					
		.094	-.0221						
		.150				.1859	.3085	.3739	.3624
		.163		.2224					
		.177			.0000				
		.229	-.0089						
		.246		.2180					
		.250				.3196	.3568	.3858	.3245
		.274			.2340				
		.362	.1572						

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TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS

SRB-OFF MPS-OFF LWR WING

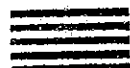
(REUW51)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.864 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.390		.2544					
.400				.3764	.3838		.2491
.402			.3333				
.497	.2358						
.550				.3277	.2966		
.565			.3285				
.600						.0761	.0853
.650							
.700	.3066				.0234		
.725				-.0382			
.750						.1635	.1083
.760			-.0761				
.775				.0284	.1924		
.808			-.0630				
.834	-.3340						
.850				-.1536	-.1888	-.1315	
.857			-.2779				
.865	-.2473						
.900	-.3970			-.3412			-.2442
.915			-.4299		-.3198		
.950				-.4623		-.3472	
.953			-.5475				
.965	-.4617						



ARC11-014IA19 QTS

SRB-OFF MP -OFF LWR WING

(REU52) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. YT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -3.990	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.0279	-.1940	-.2201	-.3372	-.3688
		.040		.0107	.0128				
		.060	-.1287			-.2513	-.2978	.0000	-.4227
		.080				-.2266			
		.081			-.1100				
		.086		-.0130					
		.094	.0072						
		.150				-.1611	-.2512	-.3290	-.3738
		.163		-.0166					
		.177			.0000				
		.229	-.0676						
		.246		.0095					
		.250				-.0783	-.1731	-.2797	-.3237
		.274			-.0279				
		.362	-.0591						
		.390		.0800					
		.400				.0642	.0261		-.1753
		.402			.1237				
		.497	.0508						
		.550				.2919	.3960		
		.565			.2057				
		.600							.1801
		.650						.1717	
		.700	.1930				.0998		
		.725				.0421			
		.750						.2473	.2360
		.760			-.0124				
		.775			-.0227	.2416			
		.808			-.0133				
		.834	-.2992						
		.850				-.0744	-.0896	-.0101	
		.857			-.1957				
		.865	-.2166						
		.900	-.2994			-.2350			-.0854
		.905			-.3297		-.2141		
		.950				-.3443		-.2152	
		.953			-.4302				
		.965	-.3810						

ARC11-014IA19 OTS

SRB-OFF MPS-OFF LWR WING

(REUW52)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.195 BETA (1) = -4.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.1899	.0890	.0020	-.0590	-.2077
.040		-.0827	.1359				
.050	-.0964			-.0105	-.1185	.0000	-.2521
.080				-.0569			
.081			.0900				
.086		-.0212					
.094	-.1078						
.150				.0360	.0056	-.0814	-.1601
.163		.0588					
.177			.0000				
.229	-.0908						
.246		.0664					
.250				.0799	.0319	-.0156	-.0435
.274			.1025				
.362	.0145						
.390		.1139					
.400				.1203	.0885		.0230
.402			.1324				
.497	.0906						
.550				.1462	.2184		
.565		.1285					
.600							.1360
.650						.1081	
.700	.0466				.0197		
.725				-.0715			
.750						.1502	.1411
.760			-.1195				
.775				.0126	.1357		
.808			-.0499				
.834	-.2392						
.850				-.1807	-.1516	-.0763	
.857			-.2281				
.865	-.2449						
.900	-.2646			-.2845			-.1608
.905			-.3512		-.2753		
.950				-.3740		-.2725	
.953			-.4263				
.965	-.2777						

ALPHA (2) = -.198 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.1571	.1375	.0652	.0035	-.1064
.040		.0179	.0947				
.050	-.0817			.0047	-.0976	.0000	-.1741
.080				-.0458			
.081			.1636				
.086		.0374					
.094	.0067						

ARC11-014IA19 QTS

SRB-OFF MPS-OFF LWR WING

(REUN52)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.198 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.150				-.0870	-.1047	-.0892	-.1144
.163		-.0034					
.177			.0000				
.229	.0339						
.246		.0674					
.250				.2050	.1631	.0882	-.0279
.274			.1364				
.362	.0125						
.390		.1716					
.400				.1904	.1623		.2610
.402			.1989				
.497	.1464						
.550				.3775	.3744		
.565			.2961				
.600							.2085
.650						.1906	
.700	.2592				.1291		
.725				.0704			
.750						.2563	.2053
.760			.0191				
.775				.0137	.2811		
.808			.0211				
.834	-.2709						
.850				-.0460	-.0759	-.0037	
.857			-.1723				
.865	-.1939						
.900	-.2875			-.2116			-.1183
.905			-.3122		-.2088		
.950				-.3258		-.2157	
.953			-.4236				
.965	-.3722						

ALPHA (2) = -.186 BETA (3) = 4.022

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020				.2514	.1858	.1626	.1282
.040		.0808		.1906			.0088
.050	.0235			.0638	-.0243	.0000	-.0791
.080				.0298			
.081			.0892				
.086		.1345					
.094	.0369						
.150				-.0309	-.0455	-.0232	-.0134
.163		.0791					
.177			.0000				
.229	.0430						

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TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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		ARC11-014IA19 OTS	SRB-OFF NPS-OFF LWR WING							(REU52)
SECTION (1) LOWER WING		DEPENDENT VARIABLE CF								
ALPHA (2) = -.186 BETA (3) = 4.022		2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.246		.1387						
		.250				.0767	.2092	.0628	.1606	
		.274			.0285					
		.362	-.0445							
		.390		.1728						
		.400				.4286	.4685		.3704	
		.402			.2492					
		.497	.0544							
		.597				.4572	.4195			
		.565			.4836					
		.600								.2190
		.690						.2213		
		.700	.4987				.1760			
		.725				.1342				
		.750						.3052	.2229	
		.760			.1202					
		.775				-.0249	.3477			
		.808			.1385					
		.834	-.1869							
		.850				.0249	-.0277	.0242		
		.857				-.0950				
		.865	-.0949							
		.900	-.2219			-.1483				-.0941
		.905				-.2490	-.1590			
		.997				-.2605		-.1877		
		.953				-.3714				
		.965	-.3502							
ALPHA (3) = 3.960 BETA (1) = .000		2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.020			.3358	.3211	.3122	.3406	.2861	
		.040		.0226	.3627					
		.050	.0682			.1862	.2383	.0000	.1712	
		.080				.1150				
		.081				.2252				
		.086		.0438						
		.094	.0265							
		.150				.1722	.2099	.1634	.1812	
		.163		.0638						
		.177				.0000				
		.229	.0621							
		.246		.1403						
		.250				.2204	.1728	.1794	.3014	
		.274				.2707				
		.362	.1595							

SECTION (1) LOWER WING		ARC11-014IA19 OTS	SRB-OFF MPS-OFF LWR WING							(RELUS2)
ALPHA (3) = 3.900 BETA (1) = .000		DEPENDENT VARIABLE CP	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.390			.2708					
		.400					.2953	.3441		.3526
		.402				.2888				
		.497		.2284						
		.557					.4115	.3989		
		.565				.3784				
		.600								.1850
		.657							.1910	
		.700		.3305				.1484		
		.725					.0898			
		.750							.2585	.1817
		.760				.0405				
		.775					.0560	.3028		
		.808				.0553				
		.834		-.2427						
		.850					-.0238	-.0629	-.0096	
		.857				-.1483				
		.865		-.1845						
		.900		-.2797			-.1954			-.1223
		.905				-.2937		-.1954		
		.950					-.3096		-.2186	
		.953				-.4141				
		.965		-.3755						

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TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 QTS

SRB-NOM MPS-OFF LWR WING

(RELW53) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

2Y/B %C	.299	.364	.427	.534	.641	.780	.887
.020			.0336	-.3751	-.5415	-.8781	-1.0246
.040		.0840	-.0151				
.050	.0261			-.3913	-.5569	.0200	-.9173
.080				-.3396			
.081			-.1035				
.086		.0864					
.094	.0046						
.150				-.2056	-.2319	-.2772	-.3236
.163		.0471					
.177			.0000				
.229	.0222						
.246		-.0721					
.253				-.1004	-.1206	-.1730	-.2425
.274			-.0900				
.362	.0242						
.390		-.0518					
.400				-.0333	-.0639		-.2403
.402			-.0236				
.497	-.0204						
.550				-.0986	-.1800		
.565			-.0533				
.600							-.4332
.690						-.4559	
.700	-.0226				-.5321		
.725				-.5918			
.750						-.3994	-.3990
.760			-.5222				
.775			-.0594	-.3045			
.808			-.3454				
.834	-.4439						
.850				-.4609	-.5653	-.6815	
.857			-.3925				
.865	-.4449						
.900	-.3792			-.4767			-.3574
.905			-.4822		-.3885		
.950				-.4241		-.1659	
.953			-.3633				
.965	-.3381						

ARC11-014IA19 OTS

SRB-NOM MPS-OFF LVR WING

(REUW53)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.339 BETA (1) = -3.997

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020				.0731	-.1145	-.2156	-.3359
.040		.0261		.0364			-.4828
.050	-.0762			-.1718	-.2787	.0000	-.4982
.080				-.1462			
.081				.0018			
.086		.0386					
.094	-.0489						
.150				-.1002	-.1412	-.1810	-.2499
.163		.0364					
.177				.0000			
.229	-.0083						
.246		.0121					
.250				-.0517	-.0846	-.1358	-.2283
.274				-.0244			
.362	.0309						
.390		-.0054					
.400				-.0497	-.0805		-.2687
.402				-.0246			
.497	.0069						
.550				-.1734	-.2134		
.565				-.1203			
.600							-.4729
.650							-.4879
.700	-.1243				-.5039		
.725				-.3934			
.750						-.4132	-.4343
.760				-.2860			
.775				-.0272	-.1406		
.808				-.2565			
.834	-.3512						
.850				-.4482	-.4928	-.5962	
.857				-.4173			
.865	-.3435						
.900	-.3154			-.4631			-.4971
.905				-.4139	-.4666		
.950				-.3434		-.2324	
.953				-.3341			
.965	-.2863						

ALPHA (2) = -.360 BETA (2) = .012

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020				.2344	-.0494	-.0922	-.1321
.040		.1335		.1368			-.2275
.050	.0164			-.1347	-.1911	.0000	-.2725
.080				-.1329			
.081				.0322			
.086		.1471					
.094	.0250						



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TABLATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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		ARC11-0141A19 OTS	SRB-NCM MPS-CFF LWR WING							(REUW53)	
SECTION (1) LOWER WING		DEPENDENT VARIABLE CP									
ALPHA (2) =	-.360	BETA (2) =	.012	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.151				-.0819	-.0755	-.0940	-.1711
				.163		.1239					
				.177			.0000				
				.229	.0504						
				.246		.0200					
				.257			-.0025	-.0118	-.0578	-.1471	
				.274			.0084				
				.362	.0764						
				.390		.0334					
				.400			.0443	-.0017		-.2055	
				.402			.0580				
				.497	.0454						
				.550			-.0667	-.1423			
				.565			.0032				
				.600							-.4109
				.650						-.4322	
				.710	.0310			-.5018			
				.725			-.5625				
				.750						-.3863	-.3747
				.760			-.4971				
				.775			-.0355	-.2526			
				.808			-.2849				
				.834	-.4458						
				.850			-.4921	-.5080	-.6210		
				.857			-.3264				
				.865	-.4249						
				.900	-.3485		-.4160				-.7964
				.905			-.4476	-.2864			
				.950			-.4443		-.1242		
				.953			-.3448				
				.965	-.3057						
ALPHA (2) =	-.411	BETA (3) =	4.022	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.020			.2973	.1212	.1265	.1120	.0166
				.040		.1945	.2251				
				.050	.0667			.0080	-.0116	.0000	-.0882
				.080				-.0095			
				.081			.1168				
				.086		.2049					
				.094	.0667						
				.150				.0295	.0370	.0058	-.0717
				.163		.1840					
				.177			.0000				
				.229	.0968						

		ARC11-014IA19 OTS	SRB-NCM MPS-OFF LWR WING							(REUW53)
SECTION (1) LOWER WING		DEPENDENT VARIABLE CP								
ALPHA (2) = -.411 BETA (3) = 4.022		2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.246		.0840						
		.250				.0996	.0743	.0130	-.0852	
		.274			.1108					
		.362	.1298							
		.390		.1411						
		.400				.1196	.0543		-.1588	
		.402			.1605					
		.497	.1393							
		.521				-.0210	-.1050			
		.565			.0792					
		.600							-.3655	
		.650						-.3956		
		.700	.1919				-.4693			
		.725				-.5238				
		.750						-.3308	-.3250	
		.760			-.4286					
		.775				-.0684	-.1680			
		.808			-.1238					
		.834	-.3491							
		.850				-.2956	-.3321	-.5485		
		.857			-.2995					
		.865	-.3060							
		.900	-.3314			-.4568			-.7509	
		.905			-.4709		-.2898			
		.950				-.3252		-.1326		
		.953			-.2100					
		.965	-.3297							
ALPHA (3) = 3.936 BETA (1) = -.006		2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.020			.3694	.1967	.2027	.2370	.1858	
		.040		.1481	.2625					
		.050	.0098			.0678	.0529	.0000	.0466	
		.080				.0333				
		.081			.1574					
		.086		.1867						
		.094	.0341							
		.150				.0245	.0549	.0422	-.0286	
		.163		.1862						
		.177			.0000					
		.229	.0690							
		.246		.0897						
		.250				.0731	.0684	.0178	-.0794	
		.274			.0791					
		.362	.1197							

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TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

PAGE 707

ARC11-014IA19 OTS

SRB-NOM MPS-OFF LWR WING

(REUW33)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.936 BETA (1) = -.006

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.390		.0891					
.400				.0803	.0378		-.1765
.402			.0994				
.497	.0935						
.550				-.0560	-.1281		
.565			.0186				-.3866
.600						-.4166	
.650							
.700	.0568				-.4834		
.725				-.5424			
.750						-.3223	-.3026
.760			-.4853				
.775				-.0191	-.1566		
.808			-.1807				
.834	-.4441						
.850				-.2743	-.3151	-.5009	
.857			-.2954				
.865	-.3676						
.900	-.3421			-.4709			-.7523
.905			-.4817		-.3734		
.950				-.5549		-.6030	
.953			-.3741				
.965	-.2844						

ORIGINAL PAGE IS
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ARC11-014IA19 OTS

SRB-NOM MPS-OFF LWR WING

(REUW54) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

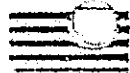
ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.149 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.3248	-.0209	-.1295	-.3352	-.5490
.040		.0920	.2336				
.050	-.1243			-.0614	-.2102	.0000	-.4434
.080				-.0779			
.081			.1459				
.086		.1824					
.094	-.1296						
.150				.0180	.0424	.0335	.0066
.163		.2115					
.177			.0000				
.229	.0298						
.246		.1342					
.250				.1223	.1120	.0947	.0508
.274			.1224				
.362	.1801						
.390		.1436					
.400				.1875	.1731		.0555
.402			.1757				
.497	.1490						
.550				.1365	.0959		
.565			.1513				
.600							-.1011
.650						-.1194	
.700	.1605				-.1901		
.725				-.2566			
.750						-.0412	-.0761
.760			-.2966				
.775				-.0028	-.0079		
.808			-.2732				
.834	-.4423						
.850				-.3784	-.3849	-.3284	
.857			-.4725				
.865	-.4246						
.900	-.4918			-.5741			-.4420
.905			-.6316		-.4786		
.950				-.6959		-.5639	
.953			-.3380				
.965	-.3886						



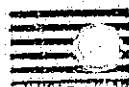
DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

PAGE 719

		ARC11-014IA19 OTS	SRB-NOM HPS-OFF LWR WING						(REL454)		
SECTION (1) LOWER WING		DEPENDENT VARIABLE CP									
ALPHA (2) =	-0.315	BETA (1) =	-4.003	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.020			.2725	.1912	.1084	.0192	-.0648
				.040		.1332	.2453				
				.050	-.1895			.1025	.0147	.0000	-.1116
				.080				.1049			
				.081			.2094				
				.086		.1719					
				.094	-.0978						
				.150				.1243	.0984	.0862	.0712
				.163		.2020					
				.177			.0000				
				.229	.0766						
				.246		.1920					
				.250				.1537	.1376	.1267	.0598
				.274			.1740				
				.362	.1716						
				.390		.1821					
				.400				.1568	.1456		.0163
				.402			.1708				
				.497	.1838						
				.550				.0473	.0419		
				.565			.0794				
				.600							-.1410
				.650						-.1649	
				.700	.0613				-.2489		
				.725				-.3252			
				.750						-.1053	-.1246
				.760			-.2966				
				.775				.0483	-.0838		
				.808			-.1950				
				.834	-.3871						
				.850				-.3846	-.4194	-.3791	
				.857			-.4264				
				.865	-.3861						
				.900	-.3609			-.5502			-.4030
				.905			-.5237		-.5101		
				.920				-.6512		-.5395	
				.953			-.3536				
				.965	-.3398						
ALPHA (2) =	-0.327	BETA (2) =	.006	2Y/B	.299	.364	.427	.534	.641	.780	.887
				X/C							
				.020			.4827	.2584	.2255	.2052	.1620
				.040		.1648	.3791				
				.050	-.1037			.1444	.1054	.0000	.0818
				.080				.1207			
				.081			.2763				
				.086		.2651					
				.094	-.1057						

SECTION (1) LOWER WING		ARC11-014IA19 QTS	SRB-NOM MPS-OFF LWR WING							(REU454)
DEPENDENT VARIABLE CP										
ALPHA (2) = -.327	BETA (2) = .006	2Y/B	.299	.364	.427	.534	.641	.780	.887	
		X/C								
		.150				.1464	.1680	.1846	.1365	
		.163		.2959						
		.177			.0000					
		.229	.0811							
		.246		.2237						
		.250				.2099	.2220	.2088	.1362	
		.274			.2103					
		.362	.2311							
		.390		.2269						
		.400				.2564	.2413		.0855	
		.402			.2489					
		.497	.2108							
		.550				.1820	.1350			
		.565			.2135					
		.600							-.0764	
		.650						-.0980		
		.700	.2079				-.1593			
		.725				-.2221				
		.750						-.0167	-.0548	
		.760			-.2500					
		.775				.0261	.0200			
		.808			-.2384					
		.834	-.4038							
		.850				-.3442	-.3561	-.3152		
		.857			-.4374					
		.865	-.3804							
		.900	-.4778			-.5464			-.4311	
		.905			-.6032		-.4539			
		.950				-.6729		-.5449		
		.953			-.3113					
		.965	-.3184							
ALPHA (2) = -.288	BETA (3) = 4.016	2Y/B	.299	.364	.427	.534	.641	.780	.887	
		X/C								
		.020			.5148	.3710	.3745	.3882	.3361	
		.040		.3239	.4425					
		.050	.0383			.2536	.2446	.0000	.2289	
		.080				.2301				
		.081			.3353					
		.086		.3586						
		.094	.0434							
		.150				.2546	.2720	.2686	.2115	
		.163		.3630						
		.177			.0000					
		.229	.1680							



		ARC11-014IA19 QTS	SRB-NOM MPS-OFF LWR WING							(RELU54)
SECTION (1) LOWER WING		DEPENDENT VARIABLE CP								
ALPHA (2) = -.288	BETA (3) = 4.016	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.246		.2794						
		.250				.3165	.3072	.2745	.1911	
		.274			.3178					
		.362	.2987							
		.390		.3360						
		.400				.3447	.3031		.1274	
		.402			.3654					
		.497	.3281							
		.550				.2422	.1786			
		.565			.3182					
		.600								-.0433
		.650								-.0659
		.700	.4082							-.1262
		.725				-.1787				
		.750							.0391	-.0131
		.760				-.1850				
		.775				-.0040	.0809			
		.808				-.1774				
		.834	-.3879							
		.850					-.3010	-.3056	-.2811	
		.857					-.4186			
		.865	-.2550							
		.900	-.4033							
		.915					-.5137			-.3914
		.950					-.5574	-.3837		
		.950					-.6309		-.5165	
		.953					-.2540			
		.965	-.4354							
ALPHA (3) = 3.915	BETA (1) = -.003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.020				.5830	.4398	.4656	.4870	.4525
		.040				.2586	.4752			
		.050	.0107					.3119	.3213	.0000
		.080						.2733		.3322
		.081					.3667			
		.086					.3413			
		.094	.0385							
		.150						.2674	.2970	.3089
		.163					.3665			.2614
		.177						.0000		
		.229	.1696							
		.246					.2867			
		.250						.2985	.3077	.2911
		.274						.2821		.2113
		.362	.2860							

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TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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SECTION (1) LOWER WING		DEPENDENT VARIABLE CP							
ALPHA (3) = 3.915 BETA (1) = -.003		2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.390		.2887					
		.400				.3101	.2919		.1251
		.402			.3036				
		.497	.2809						
		.550				.2112	.1669		
		.565			.2444				
		.600							-.0564
		.650						-.0748	
		.700	.2530				-.1377		
		.725				-.2008			
		.750						.0189	-.0303
		.760				-.2266			
		.775				.0822	.0518		
		.808				-.2146			
		.834	-.4300						
		.850					-.3197	-.3340	-.2996
		.857					-.4333		
		.865	-.3968						
		.900	-.5225				-.5269		-.4181
		.905				-.5929		-.4306	
		.950					-.6545		-.5283
		.953				-.6115			
		.965	-.3849						

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TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS

SRB-NCM MPS-OFF LWR WING

(REUW55) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -3.981	BETA (1) = .000	ZY/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.0701	-.0712	-.1737	-.4153	-.5023
		.040		-.0261	.1503				
		.050	-.2215			-.1618	-.2945	.0000	-.5500
		.080				-.1728			
		.081			.0337				
		.086		-.0380					
		.094	-.0798						
		.150				-.1404	-.2199	-.3631	-.4786
		.163		.0450					
		.177			.0000				
		.229	-.0435						
		.246		.0442					
		.250				-.0137	-.0827	-.1601	-.3997
		.274			.0259				
		.362	.0495						
		.390		.0832					
		.400				.0616	.0701		.1519
		.402			.0304				
		.497	.0853						
		.550				.2241	.2106		
		.565			.1910				
		.600							.0726
		.650						.0415	
		.700	.1491				-.0367		
		.725				-.0957			
		.750						.1140	.0836
		.760			-.1357				
		.775				-.0402	.1191		
		.808			-.1371				
		.834	-.3368						
		.850				-.2149	-.2250	-.1569	
		.857			-.3157				
		.865	-.2788						
		.900	-.3674			-.3850			-.2542
		.905			-.4461		-.3187		
		.950				-.4994		-.3693	
		.953			-.5582				
		.965	-.3851						

		ARC11-014IA19 QTS	SRB-NOM MPS-CFF LWR WING							(REUW55)
SECTION (1) LOWER WING		DEPENDENT VARIABLE CP								
ALPHA (2) = -.369 BETA (1) = -4.000		2Y/B	.299	.364	.427	.534	.641	.780	.887	
		X/C								
		.020			.2214	.0896	-.0241	-.1432	-.3496	
		.040		-.0343	.1705					
		.050	-.1458			.0093	-.1267	.0000	-.3572	
		.080				-.0322				
		.081			.1253					
		.086		.0240						
		.094	-.1684							
		.150				-.0043	-.0404	-.1145	-.1738	
		.163		.0955						
		.177			.0000					
		.229	-.1274							
		.246		.0974						
		.250				.0580	.0110	-.0115	-.0271	
		.274			.0877					
		.362	.0510							
		.390		.1067						
		.400				.0977	.0828		.1696	
		.402			.1121					
		.497	.1019							
		.550				.0993	.1485			
		.565			.0776					
		.670							-.0019	
		.650						-.0182		
		.700	.0126					-.1015		
		.725				-.1868				
		.750						.0294	-.0006	
		.760			-.1816					
		.775				-.0019	.0286			
		.808			-.1225					
		.834	-.2617							
		.850				-.2631	-.2708	-.2189		
		.857			-.3226					
		.865	-.2635							
		.900	-.2649			-.4042			-.3161	
		.905			-.4116		-.3653			
		.950				-.4953		-.4221		
		.953			-.3293					
		.965	-.2448							
ALPHA (2) = -.309 BETA (2) = .012		2Y/B	.299	.364	.427	.534	.641	.780	.887	
		X/C								
		.020			.3086	.1730	.0751	-.0190	-.2025	
		.040		-.0131	.2212					
		.050	-.0085			.0761	-.0790	.0000	-.2482	
		.080				.0978				
		.081			.1540					
		.086		.0064						
		.094	-.0693							

SECTION (1) LOWER WING		ARC11-014(A19) OTS SRB-NOM MPS-OFF LWR WING (REUW55)								
DEPENDENT VARIABLE CP										
ALPHA (2) = -.309	BETA (2) = .012	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.151				-.0010	-.0279	-.0895	-.0927	
		.163		.1472						
		.177			.0000					
		.229	-.0289							
		.246		.1265						
		.250			.0620	.0201	.1036	.2715		
		.274			.0999					
		.362	.0907							
		.390		.1465						
		.400			.2268	.3179			.2151	
		.402			.1865					
		.497	.1584							
		.551			.2893	.2654				
		.565			.2729					
		.600							.0468	
		.650						.0479		
		.700	.2319				-.0045			
		.725			-.0624					
		.750						.1180	.0591	
		.760			-.1007					
		.775			-.0120	.1596				
		.808			-.0950					
		.834	-.3138							
		.850			-.1841	-.2070	-.1551			
		.857			-.2955					
		.865	-.2242							
		.900	-.3774			-.3618			-.2668	
		.905			-.4340		-.3357			
		.950				-.4802		-.3677		
		.953			-.5466					
		.965	-.3903							
ALPHA (2) = -.300	BETA (3) = 4.022	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.020			.2096	.2323	.1803	.2235	.2783	
		.040		.0995	.3234					
		.050	-.0094			.1194	.0072	.0000	.1931	
		.080				.0931				
		.081			.2374					
		.086		.0802						
		.094	-.0198							
		.151				.0691	.3176	.3009	.2768	
		.163		.0186						
		.177			.0000					
		.229	.0599							

ARC11-014IA19 OTS

SRB-NCM MPS-OFF LWR WING

(REUW55)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.300	BETA (3) = 4.022	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.246		.1939					
		.250				.3556	.3574	.3419	.2879
		.274			.2406				
		.362	.1535						
		.390		.2737					
		.400				.4279	.3986		.2357
		.402			.4118				
		.497	.2495						
		.550				.3707	.3094		
		.565			.4273				
		.600						.0878	.0874
		.650						.0344	
		.700	.4907						
		.725				-.0081			
		.750						.1748	.1059
		.760			-.0132				
		.775				-.0479	.2212		
		.808			-.0035				
		.834	-.2775						
		.850				-.1256	-.1657	-.1215	
		.857			-.2517				
		.865	-.0625						
		.900	-.3225			-.3186			-.2376
		.905			-.4019		-.3041		
		.950				-.4322		-.3407	
		.953			-.4936				
		.965	-.4017						

ALPHA (3) = 3.966 BETA (1) = .003

2Y/B	.299	.364	.427	.534	.641	.780	.887
X/C							
.020			.4982	.3885	.3854	.4904	.5186
.040		-.0101	.3990				
.050	.0005			.2416	.2253	.0000	.4112
.080				.1798			
.081			.3085				
.086		.0996					
.094	-.0249						
.150				.1955	.3120	.3755	.3624
.163		.2265					
.177			.0000				
.229	-.0118						
.246		.2180					
.250				.3190	.3612	.3883	.3207
.274			.2417				
.362	.1610						

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TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19-QTS

SRB-NOM MPS-CFF LWR WING

(REU455)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.966 BETA (1) = .093

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.390		.2520					
.400				.3810	.3866		.2464
.402			.3358				
.497	.2382						
.550				.3268	.2934		
.565			.3281				
.600						.0707	
.650					.0171		
.700	.3055						
.725						.1573	.1026
.790							
.760				-.0802			
.775				.0335	.1675		
.808							
.834	-.3181						
.850							
.857							
.865	-.2199						
.900	-.3823						
.905							
.950							
.950							
.953							
.965	-.4279						

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-014IA19 OTS

SRB-NOM MPS-OFF L/R WING

(REU56) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.071	BETA (1) = .000	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.0275	-.1946	-.2229	-.3392	-.3725
		.040		.0131	.0387				
		.060	-.1315			-.2540	-.2981	.0000	-.4238
		.080				-.2257			
		.081			-.1104				
		.086		-.0132					
		.094	.0062						
		.150				-.1600	-.2517	-.3344	-.3772
		.163		-.0192					
		.177			.0000				
		.229	-.0661						
		.246		.0092					
		.250				-.0691	-.1639	-.2798	-.3272
		.274			-.0309				
		.362	-.0627						
		.390		.0799					
		.400				.0615	.0237		-.1750
		.402			.1225				
		.497	.0481						
		.550				.2936	.3055		
		.565			.2031				
		.600							.1766
		.650						.1692	
		.710	.1870				.0980		
		.725				.0393			
		.750						.2465	.2306
		.760			-.0164				
		.775				-.0206	.2365		
		.808			-.0163				
		.834	-.2709						
		.850				-.0778	-.0947	-.0150	
		.857			-.1943				
		.865	-.1638						
		.900	-.2801			-.2395			-.0881
		.905			-.3223		-.2185		
		.950				-.3478		-.2211	
		.953			-.4143				
		.965	-.3274						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - 1A19 (ARC 11-014)

PAGE 719

ARC11-0141A19 QTS

SRB-NOM MPS-OFF LWR WING

(REUM56)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

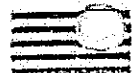
ALPHA (2) = ~~-.294~~ BETA (1) = ~~4.000~~

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.1862	.0881	-.0054	-.0747	-.2154
.040		-.0798	.1342				
.060	-.0957			-.0107	-.1284	.0000	-.2579
.080				-.0575			
.081			.0877				
.086		-.0017					
.094	-.1077						
.150				.0125	.0098	-.0903	-.1711
.163		.0592					
.177			.0000				
.229	-.0898						
.246		.0694					
.250				.0788	.0298	-.0188	-.0471
.274			.1018				
.362	.0126						
.390		.1137					
.400				.1202	.0890		.0257
.402			.1327				
.497	.0891			.1463	.2206		
.550				.1292			
.565							.1427
.600						.1070	
.650					.0203		
.700	.0490			-.0666			
.725						.1524	.1466
.750							
.760			-.0984				
.775				.0168	.1368		
.808			-.0346				
.834	-.2001						
.850				-.1489	-.1469	-.0757	
.857			-.2141				
.865	-.1970						
.900	-.2161			-.2751			-.1588
.905				-.3296	-.2717		
.930				-.3645		-.2712	
.953			-.3725				
.955	-.2083						

ALPHA (2) = -.375 BETA (2) = .009

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.1460	.1280	.0538	-.0144	-.1293
.040		.0181	.0874				
.060	-.0967			-.0033	-.1106	.0000	-.1900
.080				-.0563			
.081			.1525				
.086		.0289					
.094	.0009						

SECTION (1) LOWER WING		DEPENDENT VARIABLE CF								
ALPHA (2) = -.375 BETA (2) = .009		ARC11-014IA19 OTS	SRB-NOM MPS-OFF LWR WING							(RELW56)
		2Y/B X/C	.299	.364	.427	.534	.541	.780	.887	
		.150								
		.163		-.0091			-.0962	-.1122	-.1007	-.1367
		.177			.0000					
		.229	.0278							
		.246		.0634						
		.250				.1919	.1621	.0801		-.0623
		.274			.1250					
		.362	.0039							
		.390		.1624						
		.400				.1903	.1505			.2542
		.402			.1917					
		.497	.1352							
		.550				.3726	.3694			
		.565			.2903					
		.600								.2033
		.650						.1848		
		.700	.2525				.1241			
		.725				.0644				
		.750						.2492		.2006
		.760			.0119					
		.775				.0113	.2742			
		.808			.0133					
		.834	-.2612							
		.850				-.0516	-.0829	-.0114		
		.857			-.1774					
		.865	-.1627							
		.900	-.2780			-.2184				-.1222
		.905			-.3151		-.2160			
		.950				-.3309		-.2218		
		.953			-.4184					
		.965	-.3397							
ALPHA (2) = -.423 BETA (3) = 4.028		2Y/B X/C	.299	.364	.427	.534	.641	.780	.887	
		.020			.2434	.1749	.1495	.1155	-.0049	
		.040		.0767	.1833					
		.050	.0211			.0461	-.0374	.0000	-.0916	
		.080				.0224				
		.081			.0797					
		.086		.1282						
		.094	.0353							
		.150				-.0568	-.0801	-.0418	-.0340	
		.163		.0769						
		.177			.0000					
		.229	.0358							



SECTION (1) LOWER WING		ARC11-014IA19 OTS SRB-NOM MPS-OFF LWR WING (REUW56)							
DEPENDENT VARIABLE CP									
ALPHA (2) = -.423	BETA (3) = 4.028	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.246		.1334					
		.250			.0702	.1564	.0462	.1221	
		.274			.0219				
		.362	-.0456						
		.390		.1593					
		.400			.4289	.4640		.3691	
		.402			.2419				
		.497	.0459						
		.550			.4592	.4183			
		.565			.4820				
		.600						.2181	
		.650					.2204		
		.700	.4923			.1740			
		.725			.1315				
		.750					.3035	.2220	
		.760			.1165				
		.775			-.0210	.3429			
		.808			.1348				
		.834	-.1794						
		.850			.0211	-.0322	.0220		
		.857			-.0981				
		.865	-.0295						
		.900	-.1958		-.1550			-.0943	
		.905			-.2529	-.1622			
		.950			-.2627		-.1904		
		.953			-.3653				
		.965	-.3270						
ALPHA (3) = 3.334	BETA (1) = -.003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.3335	.3178	.3047	.3335	.2845
		.040		.0159	.3609				
		.050	.0632		.1827	.2481	.0000	.1631	
		.080			.1096				
		.081			.2213				
		.086		.0388					
		.094	.0279						
		.150			.1810	.2062	.1616	.1828	
		.163		.0627					
		.177			.0000				
		.229	.0599						
		.246		.1384					
		.250			.2134	.1682	.1734	.3283	
		.274			.2729				
		.362	.1554						

ARC11-014TA19 OTS

SRB-NOM MPS-OFF LWR WING

(REUN56)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.834 BETA (1) = -.003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.390		.2669					
.400				.2936	.3540		.3481
.402			.2835				
.497	.2258						
.550				.4089	.3943		
.565			.3744				.1790
.600							
.650						.1861	
.700	.3238				.1432		
.725				.0836			
.750						.2524	.1784
.760			.0320				
.775				.0564	.2960		
.808			.0500				
.834	-.2344						
.850				-.0302	-.0677	-.0161	
.857			-.1519				
.865	-.1530						
.900	-.2647			-.2008			-.1274
.905			-.2973		-.2009		
.950				-.3134		-.2235	
.953			-.4137				
.965	-.3424						

ARC11-014IA19 OTS+STRUT SRB-NOM+MPS-NOM+LWR WING

(REUW57)

SECTION (1) LOWER WING

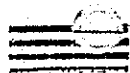
DEPENDENT VARIABLE CP

ALPHA (2) = -.339 BETA (1) = -3.997

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.0776	-.0578	-.1402	-.2623	-.4158
.040		-.1193	.0140				
.050	-.1406			-.1069	-.2640	.0000	-.4597
.080				-.1331			
.081			-.0465				
.086		-.0753					
.094	-.1415						
.150				-.1675	-.2048	-.2910	-.3787
.163		-.0350					
.177			.0000				
.229	-.1830						
.246		-.0398					
.250				-.0833	-.1307	-.1749	-.2645
.274			-.0425				
.362	-.0767						
.390		-.0217					
.400				-.0446	-.0795		.1436
.402			-.0250				
.497	-.0214						
.550				.1804	.1869		
.565			.0827				
.600							.0542
.650						.0169	
.700	.0419				-.0650		
.725				-.1396			
.750						.0857	.0784
.760			-.2399				
.775				.1712	.1254		
.808			-.1332				
.834	-.3036						
.850				-.2185	-.2293	-.1854	
.857			-.3104				
.865	-.2554						
.900	-.3342			-.3847			-.2944
.905			-.4488		-.3479		
.950				-.4941		-.3955	
.953			-.5109				
.965	-.3145						

ALPHA (2) = -.465 BETA (2) = .019

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.2954	.1231	.0598	-.0363	-.2093
.040		-.0090	.2045				
.050	-.0118			.0646	-.0896	.0000	-.2628
.080				-.0022			
.081			.1032				
.086		.0356					
.094	-.0808						



DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

PAGE 725

ARC11-014IA19 OTS+STRUT SRB-NOM+MPS-NOM+LWR WING

(REUW57)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.465	BETA (2) = .019	2Y/B	.299	.364	.427	.534	.641	.780	.887
		X/C							
		.150				-.0197	-.0488	-.1027	-.1230
		.163		.1256					
		.177			.0000				
		.229	-.0350						
		.246		.0874					
		.250				.0335	-.0043	.0495	.2664
		.274			.0800				
		.362	.0589						
		.390		.1218					
		.400				.2382	.3165		.2153
		.402			.1362				
		.497	.1196						
		.550				.2858	.2804		
		.565			.2693				
		.600							.0481
		.650						.0476	
		.700	.2293				-.0038		
		.725				-.0515			
		.750						.1151	.0886
		.760			-.1698				
		.775				.3115	.2104		
		.808			-.0597				
		.834	-.2758						
		.850				-.1617	-.1752	-.1556	
		.857			-.2624				
		.865	-.2037						
		.900	-.3653			-.3417			-.2290
		.905				-.4211	-.3300		
		.950				-.4693		-.3692	
		.953			-.5482				
		.965	-.3895						

ALPHA (2) = -.435 BETA (3) = 4.031

2Y/B	.299	.364	.427	.534	.641	.780	.887
X/C							
.020				.5066	.3312	.2794	.3450
.040		.1311	.4010				.3518
.050	.0406			.2042	.1274	.0000	.2693
.080				.1368			
.081			.3079				
.086		.1715					
.094	.1003						
.150				.1818	.2838	.3223	.2990
.163		.2760					
.177			.0000				
.229	.1325						

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ARC11-014TA19 OTS+STRUT SRB-NOM+MPS-NOM+LWR WING

(REU57)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.435 BETA (3) = 4.031

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.246		.2411					
.250				.3298	.3534	.3554	.2894
.274			.2663				
.362	.2038						
.390		.2901					
.400				.4051	.3906		.2378
.402			.3874				
.497	.2719						
.550				.3503	.2972		
.565			.3842				
.600							.0886
.650						.0732	
.700	.3988				.0261		
.725				-.0160			
.750						.1592	.1389
.760			-.1255				
.775				.3882	.2578		
.808			-.0117				
.834	-.3147						
.850				-.1256	-.1485	-.1241	
.857			-.2406				
.865	-.1302						
.900	-.3372			-.3161			-.2476
.905			-.4089		-.3107		
.920				-.4507		-.3487	
.953			-.5156				
.965	-.4238						

ALPHA (3) = 3.636 BETA (1) = .003

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020				.4698	.3604	.3325	.4490
.040		-.0338		.3654			.4832
.050	.0051			.2160	.1608	.0000	.3821
.080				.1344			
.081			.2702				
.086		.0746					
.094	-.0127						
.150				.1599	.2971	.3593	.3441
.163		.1814					
.177			.0000				
.229	-.0136						
.246		.1843					
.250				.3091	.3408	.3736	.3093
.274			.2069				
.362	.1141						



DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-NOM+MPS-NOM+LWR WING

(REUW57)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (3) = 3.636	BETA (1) = .003	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.390		.2221					
		.400				.3607	.3734		.2395
		.402			.3152				
	.1985	.497							
		.550				.3205	.2878		
		.565			.3217				
		.600							.0816
		.650						.0717	
	.2973	.700					.0198		
		.725				-.0291			
		.750						.1463	.1245
		.780			-.1473				
		.775				.3598	.2534		
		.808			-.0273				
	-.2929	.834							
		.850				-.1321	-.1560	-.1331	
		.857			-.2395				
	-.1904	.865							
	-.3682	.900				-.3217			-.2472
		.905			-.4188		-.3118		
		.950				-.4535		-.3931	
		.953			-.5347				
	-.4212	.965							

ARC11-014IA19 OTS+STRUT SRB-LCW MPS-NCM LWR WING

(RELW58) (19 OCT 74)

REFERENCE DATA

SREF = 2600.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.070

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.155 BETA (1) = .000

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.0557	-.1419	-.1448	-.3137	-.3627
.040		.0093	.0114				
.050	-.1264			-.1317	-.2564	.0000	-.4155
.080				-.1096			
.081			-.0607				
.086		-.0102					
.094	.0096						
.120				-.1936	-.2471	-.3247	-.3765
.163		-.0298					
.177			.0000				
.229	-.0088						
.246		.0051					
.250				-.1527	-.2213	-.2906	-.3271
.274			-.0644				
.362	-.0351						
.390		.0048					
.400				.0459	.0324		-.2605
.402			.0747				
.497	-.0028						
.550				.2762	.3083		
.565			.1834				
.600							.1428
.620						.1745	
.700	.1599				.1098		
.725				.0575			
.750						.2031	.2786
.760			-.0539				
.775				.2670	.2282		
.808			-.0347				
.834	-.2699						
.850				-.0646	-.0815	-.0031	
.857			-.1851				
.865	-.1520						
.900	-.2965			-.2304			-.0765
.905			-.3161		-.2139		
.950				-.3406		-.2076	
.953			-.4179				
.965	-.3485						

ARC11-014IA19 OTS+STRUT SRB-LOW MPS-NOM LWR WING

(RELW58)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.342 BETA (1) = 4.028

2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
.020			.4580	.2902	.2251	.1849	.0507
.040		.1395	.3542				
.050	.0330			.1596	.0433	.0000	-.0485
.080				.0783			
.081			.2380				
.086		.1786					
.094	.0770						
.150				.0005	.0682	.0846	.0785
.165		.2518					
.177			.0000				
.229	.1512						
.246		.1498					
.250				.2476	.1790	.1361	.3716
.274			.2255				
.362	.1981						
.390		.2513					
.400				.3718	.4394		.3597
.402			.3130				
.497	.2377						
.550				.4348	.4060		
.565			.4274				
.600							.2007
.650						.2034	
.700	.4038				.1620		
.725				.1187			
.750						.2235	.2331
.760			.0225				
.775			.3668	.3247			
.808			.0709				
.834	-.2170						
.850				-.0055	-.0457	.0048	
.857			-.1278				
.865	-.1544						
.900	-.2388			-.1829			-.1094
.905			-.2864	-.1888			
.950				-.2995		-.2034	
.953			-.4110				
.965	-.3621						

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-014IA19 OTS+STRUT SRB-NCM MPS-OFF LWR WING

(REUW59) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.080	BETA (1) = .012	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.1145	-.1073	-.1972	-.4296	-.5019
		.040		-.0142	.1265				
		.050	-.2162			-.1990	-.3465	.0000	-.5559
		.080				-.2032			
		.081			.0073				
		.086		.0026					
		.094	-.0680						
		.150				-.1478	-.2095	-.3807	-.4861
		.163		.0446					
		.177			.0000				
		.229	-.0319						
		.246		-.0186					
		.250				-.0379	-.0871	-.2194	-.4138
		.274			-.0106				
		.362	.0237						
		.390		.0414					
		.400				-.0441	-.0507		.0638
		.402			-.0081				
		.497	.0372						
		.550				.2174	.2065		
		.565			.1882				
		.600							.0893
		.650						.0451	
		.700	.1452				-.0247		
		.725				-.0798			
		.750						.1114	.1251
		.760			-.1856				
		.775				.1647	.1297		
		.808			-.1524				
		.834	-.3121						
		.850				-.2040	-.2118	-.1471	
		.857			-.3029				
		.865	-.2667						
		.900	-.3745			-.3771			-.2410
		.905			-.4419		-.3130		
		.950				-.4913		-.3610	
		.953			-.5598				
		.965	-.3919						

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-OFF LWR WING

(REUW59)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.375 BETA (1) = .012	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
	.020			.3307	.1088	.0707	-.0179	-.1934
	.040		-.0002	.2019				
	.050	-.0002			.0814	-.0740	.0000	-.2468
	.080				.0259			
	.081			.0968				
	.086		.0342					
	.094	-.0495						
	.150				-.0103	-.0365	-.0889	-.1142
	.163		.1254					
	.177			.0000				
	.229	-.0267						
	.246		.0772					
	.250				.0501	.0038	.0084	.2775
	.274			.1040				
	.362	.0618						
	.390		.1369					
	.400				.2141	.3138		.2342
	.402			.1457				
	.497	.1219						
	.550				.2941	.2720		
	.565			.2807				
	.600							.0640
	.650						.0634	
	.700	.2336				.0114		
	.725				-.0384			
	.750						.1146	.1041
	.760			-.1392				
	.775				.2188	.1791		
	.808			-.0837				
	.834	-.2802						
	.850				-.1676	-.1875	-.1410	
	.857			-.2684				
	.865	-.2161						
	.900	-.3760			-.3467			-.2568
	.905			-.4208		-.3240		
	.950				-.4661		-.3520	
	.953			-.5419				
	.965	-.3945						

ALPHA (2) = -.333 BETA (2) = 4.031	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
	.020			.4931	.3247	.2645	.3027	.3383
	.040		.1218	.3854				
	.050	.0291			.2609	.1941	.0000	.2445
	.080				.1324			
	.081			.3101				
	.086		.1639					
	.094	.0934						

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-NCM MPS-OFF LWR WING

(REU59)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (2) = -.333	BETA (2) = 4.031	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.150				.1749	.2801	.3264	.2952
		.163		.2646					
		.177			.0000				
		.229	.1281						
		.246		.2439					
		.250				.3252	.3420	.3500	.2863
		.274			.2430				
		.362	.1919						
		.390		.2736					
		.400				.4034	.3839		.2367
		.402			.3784				
		.497	.2658						
		.550				.3508	.2965		
		.565			.3835				
		.600						.0755	.0915
		.650							
		.700	.3914				.0284		
		.725				-.0137			
		.750						.1494	.1356
		.760			-.1071				
		.775				.2716	.2109		
		.808			-.0506				
		.834	-.3284						
		.850				-.1446	-.1790	-.1249	
		.857			-.2654				
		.865	-.1783						
		.900	-.3598			-.3330			-.2399
		.905			-.4291		-.3203		
		.950				-.4571		-.3449	
		.953			-.5290				
		.965	-.4386						



DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 QTS+STRUT SRB-HI MPS-NOM LWR WING

(REUWED) (19 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.250
 GINGAL = 1.000

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

ALPHA (1) = -4.122	BETA (1) = .012	2Y/B X/C	.299	.364	.427	.534	.641	.780	.887
		.020			.0736	-.1114	-.2030	-.4336	-.5033
		.040		-.0179	.1305				
		.050	-.2140			-.2025	-.3558	.0000	-.5567
		.080				-.2088			
		.081			.0342				
		.086		-.0008					
		.094	-.0666						
		.150				-.1554	-.2066	-.3843	-.4873
		.163		.0365					
		.177			.0000				
		.229	-.0303						
		.246		-.0166					
		.250				-.0422	-.0884	-.2253	-.4141
		.274			-.0127				
		.362	.0254						
		.390		.0359					
		.400				-.0426	-.0631		.0443
		.402			-.0071				
		.497	.0412						
		.550				.2189	.2078		
		.565			.1821				
		.600							.0928
		.650						.0459	
		.700	.1418				-.0246		
		.725				-.0791			
		.750						.1059	.1263
		.760			-.1826				
		.775				.1666	.1318		
		.808			-.1394				
		.834	-.2714						
		.850				-.2022	-.2097	-.1445	
		.857			-.2862				
		.865	-.2393						
		.910	-.3225			-.3749			-.2384
		.905			-.4288		-.3117		
		.950				-.4899		-.3590	
		.953			-.5452				
		.965	-.3308						

ARC11-014IA19 OTS+STRUT SRB-OFF MPB-OFF SRB BODY

(REUS01) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

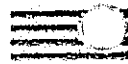
PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1)SRB-BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -3.993	BETA (1) = .000	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.0806	.0000	-.0766	-.1228	-.1883
		90.000	.1205	-.3287	-.2408	-.2694	-.2435
		180.000	.1945	-.3431	.2936	.1304	.0153
		270.000	.0362	-.2483	.0774	.1603	.0811
ALPHA (2) = -.216	BETA (1) = -4.006	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.0899	.0000	-.0290	.0030	-.0628
		90.000	.1156	-.3354	-.2587	-.2607	-.2203
		180.000	.1695	-.3531	.1407	.0264	-.0754
		270.000	.0881	-.2625	.0798	.0909	.0096
ALPHA (2) = -.336	BETA (2) = .006	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1098	.0000	-.0333	-.0173	-.1086
		90.000	.0960	-.3215	-.2209	-.2334	-.2134
		180.000	.2180	-.2480	.0730	.0188	-.0756
		270.000	.1084	-.2008	.1184	.1560	.0637
ALPHA (2) = -.222	BETA (3) = 4.025	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1359	.0000	-.0372	-.0521	-.1439
		90.000	.0247	-.3377	-.2302	-.2336	-.2164
		180.000	.2567	-.2406	.1471	.0705	-.0485
		270.000	.1508	-.1834	.1657	.2029	.0941
ALPHA (3) = 3.948	BETA (1) = .000	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1061	.0000	.1445	.1284	-.0026
		90.000	-.0111	-.3183	-.1999	-.2062	-.1793
		180.000	.2156	-.2560	.1325	.0566	-.0470
		270.000	.1437	-.1974	.1262	.1004	-.0046



ARC11-0141A19 OTS+STRUT SRB-OFF MPS-OFF SRB BODY

(REUS02) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0900 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.100
 GTSAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.176	BETA (1) = .000	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.3418	.0000	-.0118	-.0236	-.1136
		90.000	.3077	-.4914	-.1789	-.2108	-.2132
		180.000	.2991	-.5811	.2209	.1788	.0807
		270.000	.2584	-.3544	.1246	.2526	.2160
ALPHA (2) = -.294	BETA (1) = -4.003	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.3012	.0000	.0574	.1387	.0769
		90.000	.2282	-.4906	-.2200	-.2407	-.2839
		180.000	.2647	-.5241	.0952	.0466	-.0467
		270.000	.2829	-.4169	.1187	.2577	.2292
ALPHA (2) = -.252	BETA (2) = .009	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.3383	.0000	.0656	.1227	.0128
		90.000	.2936	-.4163	-.1390	-.1437	-.1666
		180.000	.3664	-.5901	.2185	.1752	.0600
		270.000	.3400	-.3335	.1500	.2623	.2251
ALPHA (2) = -.225	BETA (3) = 4.028	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.3425	.0000	.0352	.0748	.0314
		90.000	.2222	-.4357	-.2123	-.1818	-.1944
		180.000	.4476	-.5799	.2557	.1997	.0738
		270.000	.3776	-.3004	.1682	.2456	.2029
ALPHA (3) = 4.026	BETA (1) = .000	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.2953	.0000	.1375	.1782	.1069
		90.000	.1947	-.4128	-.1617	-.1448	-.1635
		180.000	.4125	-.5932	.2287	.2206	.0964
		270.000	.3518	-.2894	.1145	.1194	.0678

ORIGINAL PAGE IS
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ARC11-0141A19 OTS+STRUT SRB-OFF MPS-OFF SRB BODY

(REUS03) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.182	BETA (1) = .003	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1847	.0000	.0049	.0382	.0210
		90.000	.1957	-.3544	-.0985	-.1343	-.1539
		180.000	.2897	-.5586	.2193	.2433	.1809
		270.000	.0713	-.2464	.1242	.2304	.2487
ALPHA (2) = -.291	BETA (1) = -3.997	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.2078	.0000	.1598	.2604	.2531
		90.000	.2543	-.3579	-.1186	-.1842	-.2190
		180.000	.2764	-.3935	.1231	.0935	.0295
		270.000	.1760	-.1987	.1551	.1859	.1590
ALPHA (2) = -.177	BETA (2) = .016	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.2713	.0000	.1573	.1977	.1773
		90.000	.2400	-.3382	-.0685	-.1040	-.1102
		180.000	.4308	-.4952	.2183	.2436	.1688
		270.000	.2833	-.1805	.1832	.2661	.2519
ALPHA (2) = -.366	BETA (3) = 4.031	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.3470	.0000	.0761	.0657	.0722
		90.000	.1879	-.3421	-.1369	-.1092	-.1101
		180.000	.5466	-.5083	.2246	.2680	.2078
		270.000	.4215	-.1711	.1962	.2650	.2658
ALPHA (3) = 3.843	BETA (1) = .003	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.3323	.0000	.1969	.2432	.2015
		90.000	.2058	-.3234	-.0623	-.0559	-.0621
		180.000	.4896	-.4639	.1975	.2432	.1816
		270.000	.3898	-.1680	.1298	.1287	.0943

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-OFF NPS-OFF SRB BODY

(REUS04) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -3.906 BETA (1) = .009

X/L	.700	.811	.923	.945	.968
FHI					
.000	.1661	.0000	-.0266	.0640	.0920
90.000	.2247	-.3067	-.1632	-.1252	-.1248
180.000	.3092	-.4317	.1671	.2550	.2785
270.000	.0911	-.2443	.0145	.1499	.2081

ALPHA (2) = -.204 BETA (1) = -4.000

X/L	.700	.811	.923	.945	.968
FHI					
.000	.1096	.0000	.2173	.2677	.3064
90.000	.1802	-.3013	-.1510	-.1215	-.1345
180.000	.2678	-.4168	.1121	-.0716	.1140
270.000	.0765	-.1978	.1449	.1889	.1747

ALPHA (2) = -.306 BETA (2) = .016

X/L	.700	.811	.923	.945	.968
FHI					
.000	.1876	.0000	.1545	.1993	.2427
90.000	.1255	-.2689	-.0562	-.0755	-.0578
180.000	.4142	-.3956	.1215	.2304	.2511
270.000	.1763	-.1622	.1697	.2378	.2618

ALPHA (2) = -.267 BETA (3) = 4.031

X/L	.700	.811	.923	.945	.968
FHI					
.000	.2576	.0000	.1356	.1252	.1421
90.000	-.0271	-.2877	-.0654	-.0700	-.0707
180.000	.5511	-.3665	.1237	.2165	.2425
270.000	.2841	-.1209	.2115	.3078	.3451

ALPHA (3) = 4.392 BETA (1) = .012

X/L	.700	.811	.923	.945	.968
FHI					
.000	.1921	.0000	.2258	.2559	.2993
90.000	-.1052	-.2670	.0038	-.0114	-.0955
180.000	.4701	-.3566	.1546	.2033	.1763
270.000	.2445	-.0902	.2284	.1764	.1404

ORIGINAL PAGE IS
 OF POOR QUALITY

ARC11-014IA19 QTS+STRUT SRB-NCM MPS-NCM SRB BODY

(REUS05) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) SRB BODY	DEPENDENT VARIABLE CP					
ALPHA (1) = -4.119 BETA (1) = -.006	X/L	.700	.811	.923	.945	.968
	FHI					
	.000	.0823	.0000	-.0999	-.1417	-.2176
	90.000	.1234	-.3705	-.2973	-.3105	-.2821
	180.000	.1940	-.4102	.2156	.0781	-.0471
	270.000	.0360	-.3010	.0464	.1500	.0594
ALPHA (2) = -.306 BETA (1) = -4.000	X/L	.700	.811	.923	.945	.968
	FHI					
	.000	.0987	.0000	-.0519	-.0156	-.0796
	90.000	.1131	-.3817	-.3162	-.2943	-.2562
	180.000	.1675	-.4460	.1340	-.0156	-.1215
	270.000	.0967	-.3712	.0537	.0691	-.0109
ALPHA (2) = -.264 BETA (2) = .016	X/L	.700	.811	.923	.945	.968
	FHI					
	.000	.1112	.0000	-.0701	-.0584	-.1476
	90.000	.0987	-.3762	-.2756	-.2815	-.2664
	180.000	.2168	-.3353	.0114	-.0491	-.1561
	270.000	.1099	-.2735	.0842	.1381	.0357
ALPHA (2) = -.348 BETA (3) = 4.020	X/L	.700	.811	.923	.945	.968
	FHI					
	.000	.1225	.0000	-.0618	-.0861	-.1962
	90.000	.0134	-.3724	-.2584	-.2930	-.2919
	180.000	.2456	-.2878	.1070	-.0128	-.1423
	270.000	.1346	-.2286	.1391	.1724	.0559
ALPHA (3) = 3.924 BETA (1) = .000	X/L	.700	.811	.923	.945	.968
	FHI					
	.000	.1061	.0000	-.1154	.1124	-.0149
	90.000	-.0157	-.3697	-.2369	-.2417	-.2130
	180.000	.2128	-.3324	.0715	-.0022	-.1102
	270.000	.1432	-.2616	.0910	.0747	-.0238

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - 1A19 (ARC 11-014)

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ARC11-0141A19 OTS+STRUT SRB-NCM MFS-NCM SRB BODY

(REUS06) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. YT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.074	BETA (1) = .000	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3469	.0000	.0116	-.0094	-.0993
		90.000	.3121	-.4713	-.1869	-.2104	-.2158
		180.000	.3022	-.5090	.2080	.1489	.5472
		270.000	.2619	-.3474	.1246	.2505	.2141
ALPHA (2) = -3.96	BETA (1) = -4.003	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3097	.0000	.0831	.1549	.0856
		90.000	.2335	-.4558	-.2319	-.2294	-.2671
		180.000	.2648	-.4864	.0935	.0227	-.0776
		270.000	.2869	-.4116	.1336	.2585	.2120
ALPHA (2) = -.408	BETA (2) = .009	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3428	.0000	.0875	.1371	.0706
		90.000	.2975	-.3886	-.1262	-.1484	-.1649
		180.000	.3695	-.5283	.2173	.1523	.0373
		270.000	.3440	-.3257	.1560	.2634	.2202
ALPHA (2) = -.339	BETA (3) = 4.028	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3470	.0000	.0908	.0875	.0399
		90.000	.2365	-.3974	-.1978	-.1725	-.1857
		180.000	.4528	-.5526	.2637	.1883	.0611
		270.000	.3825	-.2964	.1713	.2529	.2094
ALPHA (3) = 3.984	BETA (1) = .003	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2982	.0000	.1514	.1851	.1139
		90.000	.1984	-.3850	-.1440	-.1511	-.1584
		180.000	.4196	-.5722	.2305	.1960	.0700
		270.000	.3594	-.2802	.1224	.1243	.0779

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM SRB BODY

(REUSD7) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.250
 GTBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.131 BETA (1) = .003	X/L	.700	.811	.923	.945	.968
	FHI					
	.000	.1748	.0000	.0383	.0642	.0382
	90.000	.1875	-.3052	-.1009	-.1198	-.1293
	180.000	.2870	-.5259	.2235	.2279	.1688
	270.000	.0465	-.2437	.1217	.2250	.2469
ALPHA (2) = -.300 BETA (1) = -4.000	X/L	.700	.811	.923	.945	.968
	FHI					
	.000	.2028	.0000	.2126	.2848	.2642
	90.000	.2976	-.3025	-.1661	-.1527	-.1867
	180.000	.2755	-.3438	.1103	.0618	-.0047
	270.000	.1651	-.1835	.2079	.1954	.1693
ALPHA (2) = -.411 BETA (2) = .012	X/L	.700	.811	.923	.945	.968
	FHI					
	.000	.2692	.0000	.1952	.2203	.1928
	90.000	.2238	-.2884	-.0599	-.0875	-.0907
	180.000	.4284	-.4807	.2276	.2345	.1545
	270.000	.2663	-.1653	.1984	.2819	.2690
ALPHA (2) = -.438 BETA (3) = 4.031	X/L	.700	.811	.923	.945	.968
	FHI					
	.000	.3471	.0000	.1239	.0998	.0939
	90.000	.1826	-.2930	-.0862	-.0998	-.0880
	180.000	.5478	-.4940	.2442	.2684	.1914
	270.000	.4214	-.1678	.2075	.2810	.2782
ALPHA (3) = 3.582 BETA (1) = .003	X/L	.700	.811	.923	.945	.968
	FHI					
	.000	.3345	.0000	.2225	.2585	.2141
	90.000	.1991	-.2831	-.0367	-.0586	-.0554
	180.000	.4865	-.4424	.2100	.2312	.1556
	270.000	.3968	-.1578	.1583	.1453	.1057

DATE 01 MAY 75

TABLATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

PAGE 741

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM SRB BODY

(REUS08) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.017	BETA (1) = .006	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1663	.0000	.0310	.0820	.0794
		90.000	.2240	-.2162	-.1128	-.1064	-.0820
		180.000	.3087	-.3942	-.1748	-.2925	-.2732
		270.000	.0786	-.2417	.0445	.1510	.1966
ALPHA (2) = -.486	BETA (1) = -4.000	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1121	.0000	.2275	.2933	.3139
		90.000	.1820	-.2184	-.0890	-.0662	-.0586
		180.000	.2649	-.3786	.1583	.1802	.1445
		270.000	.0843	-.1992	.1515	.1937	.1788
ALPHA (2) = -.438	BETA (2) = .016	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1919	.0000	.1653	.2287	.2599
		90.000	.1334	-.2139	-.0366	-.0570	-.0301
		180.000	.4157	-.3901	.1889	.3026	.2965
		270.000	.1769	-.1656	.1706	.2478	.2591
ALPHA (2) = -.456	BETA (3) = 4.028	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.2578	.0000	.1577	.1590	.1752
		90.000	-.0254	-.2304	-.0184	-.0676	-.0358
		180.000	.5479	-.3740	.1718	.2952	.2804
		270.000	.2778	-.1312	.2144	.3117	.3355
ALPHA (3) = 4.014	BETA (1) = .009	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1884	.0000	.2508	.2888	.3052
		90.000	-.1070	-.2106	.0126	-.0023	.0156
		180.000	.4598	-.3496	.1813	.2287	.1865
		270.000	.2335	.0012	.2196	.1982	.1572

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DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-LCW MPS-NOM SRB BODY

(REUS09) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.191	BETA (1) = .000	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.0697	.0000	-.0758	-.1251	-.1753
		90.000	.1138	-.3513	-.2658	-.2939	-.2611
		180.000	.1800	-.3989	.2439	.0828	-.0262
		270.000	.0239	-.2696	.0607	.1342	.0574
ALPHA (2) = -.438	BETA (1) = -4.000	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.0877	.0000	-.0371	-.0056	-.0558
		90.000	.1123	-.3591	-.2953	-.2757	-.2273
		180.000	.1600	-.4317	.1690	.0085	-.0730
		270.000	.0863	-.3187	.0546	.0678	.0051
ALPHA (2) = -.525	BETA (2) = -.003	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1103	.0000	-.0274	.0024	-.0768
		90.000	.0988	-.3351	-.2258	-.2269	-.2047
		180.000	.2144	-.2904	.0395	-.0111	-.0917
		270.000	.1103	-.2231	.1113	.1769	.0774
ALPHA (2) = -.441	BETA (3) = 4.025	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1300	.0000	-.0399	-.0458	-.1378
		90.000	.0258	-.3543	-.2361	-.2359	-.2225
		180.000	.2540	-.2676	.1079	.0238	-.0831
		270.000	.1475	-.2089	.1596	.2098	.0926
ALPHA (3) = 4.090	BETA (1) = .006	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1115	.0000	.1592	.1564	.0298
		90.000	-.0051	-.3236	-.1991	-.1989	-.1673
		180.000	.2181	-.2883	.0983	.0219	-.0606
		270.000	.1906	-.2258	.1101	.0977	.0229

ARC11-014TA19 OTS+STRUT SRB-LCW MPS-NOM SRB BODY

(REUS10) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1)SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -5.978	BETA (1) = -.006	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3451	.0000	-.0026	-.0179	-.1009
		90.000	.3136	-.4890	-.1854	-.2161	-.2243
		180.000	.3030	-.5904	.2014	.1480	.0463
		270.000	.2633	-.3526	.1203	.2481	.2140
ALPHA (2) = -.387	BETA (1) = -4.003	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3102	.0000	.0678	.1497	.0841
		90.000	.2344	-.4737	-.2323	-.2417	-.2849
		180.000	.2664	-.5123	.0864	.0235	-.0818
		270.000	.2867	-.4178	.1278	.2557	.2279
ALPHA (2) = -.429	BETA (2) = .009	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3421	.0000	.0769	.1266	.0671
		90.000	.2953	-.4079	-.1333	-.1540	-.1779
		180.000	.3688	-.5476	.2127	.1474	.0275
		270.000	.3431	-.3285	.1499	.2637	.2246
ALPHA (2) = -.384	BETA (3) = 4.028	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3455	.0000	.0390	.0775	.0345
		90.000	.2299	-.4186	-.2073	-.1783	-.1956
		180.000	.4484	-.5710	.2552	.1820	.0543
		270.000	.3791	-.2989	.1677	.2489	.2092
ALPHA (3) = 3.930	BETA (1) = .000	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2981	.0000	.1426	.1803	.1136
		90.000	.1919	-.4102	-.1566	-.1502	-.1702
		180.000	.4177	-.5940	.2076	.1918	.0641
		270.000	.3598	-.2879	.1082	.1175	.0745

ARC11-014IA19 OTS+STRUT SRB-LOW MFS-NOM SRB BODY

(REUS11) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = -.0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1)SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.746	BETA (1) = .006	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1804	.0000	.0156	.0366	-.0024
		90.000	.1941	-.3301	-.1003	-.1299	-.1474
		180.000	.2712	-.5519	.2221	.2298	.1644
		270.000	.0272	-.2568	.1083	.2288	.2518
ALPHA (2) = -.444	BETA (1) = -4.000	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2106	.0000	.1930	.2759	.2580
		90.000	.2556	-.3284	-.1555	-.1711	-.2044
		180.000	.2813	-.3581	.1146	.0701	.0049
		270.000	.1741	-.1927	.2012	.1922	.1644
ALPHA (2) = -.402	BETA (2) = .012	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2750	.0000	.1731	.2089	.1804
		90.000	.2383	-.3102	-.0617	-.0975	-.1044
		180.000	.4347	-.4774	.2239	.2345	.1521
		270.000	.2812	-.1782	.1882	.2686	.2573
ALPHA (2) = -.324	BETA (3) = 4.034	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3521	.0000	.1138	.0975	.0887
		90.000	.1920	-.3083	-.1087	-.0999	-.0896
		180.000	.5549	-.4981	.2469	.2725	.1967
		270.000	.4299	-.1691	.2042	.2729	.2713
ALPHA (3) = 3.552	BETA (1) = .003	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3425	.0000	.2111	.2565	.2081
		90.000	.2080	-.2996	-.0497	-.0593	-.0605
		180.000	.4953	-.4525	.2112	.2356	.1803
		270.000	.3997	-.1630	.1531	.1456	.1039

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-LOW MPS-NOM SRB BODY

(REUS12) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION ()SRB BODY	DEPENDENT VARIABLE CP	X/L	.700	.811	.923	.945	.968
ALPHA (1) = -4.122 BETA (1) = .000	FHI	.000	.1639	.0000	.0074	.0737	.0713
		90.000	.2240	-.2481	-.1220	-.1165	-.1066
		180.000	.3046	-.4175	.1530	.2828	.2646
		270.000	.0775	-.2481	.0272	.1444	.1926
ALPHA (2) = -.396 BETA (1) = -4.003	FHI	.000	.1126	.0000	.2285	.2923	.3136
		90.000	.1870	-.2580	-.1436	-.1090	-.0980
		180.000	.2695	-.3939	.1256	.1630	.1177
		270.000	.0824	-.1963	.1498	.1928	.1810
ALPHA (2) = -.378 BETA (2) = .006	FHI	.000	.1957	.0000	.1651	.2219	.2563
		90.000	.1304	-.2360	-.0385	-.0611	-.0410
		180.000	.4177	-.3924	.1582	.2800	.2773
		270.000	.1777	-.1641	.1696	.2433	.2606
ALPHA (2) = -.315 BETA (3) = 4.025	FHI	.000	.2627	.0000	.1519	.1487	.1670
		90.000	-.0249	-.2530	-.0324	-.0683	-.0467
		180.000	.5532	-.3682	.1466	.2615	.2657
		270.000	.2865	-.1255	.2144	.3084	.3457
ALPHA (3) = 4.005 BETA (1) = .000	FHI	.000	.1939	.0000	.2476	.2720	.3030
		90.000	-.1078	-.2323	.0010	-.0080	.0004
		180.000	.4650	-.3585	.1678	.2158	.1769
		270.000	.2375	-.0019	.2077	.1949	.1529

ARC11-014IA19 OTS+STRUT SRB-NCM MPS-OFF SRB BODY

(REUS13) (22 OCT 74)

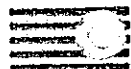
REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) SRB BODY		DEPENDENT VARIABLE CP					
ALPHA (1) = -4.119	BETA (1) = -.003	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.0708	.0000	-.0947	-.1511	-.2348
		90.000	.1151	-.3462	-.2647	-.2912	-.2670
		180.000	.1940	-.3453	.2704	.1176	-.0095
		270.000	.0275	-.2534	.0635	.1350	.0447
ALPHA (2) = -.390	BETA (1) = -3.997	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.0847	.0000	-.0318	-.0140	-.1024
		90.000	.1186	-.3451	-.2675	-.2724	-.2907
		180.000	.1658	-.3605	.1593	.0176	-.0980
		270.000	.0857	-.2505	.0761	.0726	-.0168
ALPHA (2) = -.378	BETA (2) = .016	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1175	.0000	-.0425	-.0483	-.1364
		90.000	.1050	-.3344	-.2359	-.2505	-.2358
		180.000	.2239	-.2611	.0538	.0047	-.1011
		270.000	.1179	-.2200	.1038	.1461	.0375
ALPHA (2) = -.327	BETA (3) = 4.028	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1233	.0000	-.0391	-.0840	-.1988
		90.000	.0135	-.3439	-.2383	-.2725	-.2816
		180.000	.2526	-.2270	.1515	.0331	-.0997
		270.000	.1365	-.1790	.1760	.1750	.0529
ALPHA (3) = 3.909	BETA (1) = .000	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1057	.0000	.1400	.1095	-.0348
		90.000	-.0024	-.3283	-.2110	-.2307	-.2289
		180.000	.2130	-.2567	.1248	.0438	-.0918
		270.000	.1428	-.2037	.1173	.0784	-.0417



DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - 1A19 (ARC 11-014)

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ARC11-0141A19 OTS+STRUT SRB-NOM WPS-OFF SRB BODY

(REUS14) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -5.142 BETA (1) = -.006
 X/L .700 .811 .923 .945 .968
 PHI
 .000 .3316 .0000 .0369 -.0329 -.1374
 90.000 .2996 -.4657 -.2082 -.2190 -.2105
 180.000 .2761 -.5455 .1931 .1581 .0639
 270.000 .2277 -.3499 .1002 .2545 .2155

ALPHA (2) = -.321 BETA (1) = -4.003
 X/L .700 .811 .923 .945 .968
 PHI
 .000 .3086 .0000 .0804 .1527 .0859
 90.000 .2337 -.4514 -.2207 -.2202 -.2479
 180.000 .2632 -.4788 .1069 .0586 -.0360
 270.000 .2832 -.4145 .1399 .2546 .2123

ALPHA (2) = -.432 BETA (2) = .016
 X/L .700 .811 .923 .945 .968
 PHI
 .000 .3426 .0000 .0914 .1384 .0681
 90.000 .2960 -.3853 -.1199 -.1390 -.1530
 180.000 .3654 -.5165 .2300 .1796 .0774
 270.000 .3428 -.3274 .1658 .2608 .2169

ALPHA (2) = -.396 BETA (3) = 4.025
 X/L .700 .811 .923 .945 .968
 PHI
 .000 .3449 .0000 .0528 .0892 .0388
 90.000 .2306 -.3869 -.1954 -.1696 -.1858
 180.000 .4909 -.5425 .2802 .2100 .0920
 270.000 .3795 -.2949 .1723 .2518 .2172

ALPHA (3) = 3.864 BETA (1) = .003
 X/L .700 .811 .923 .945 .968
 PHI
 .000 .2976 .0000 .1515 .1843 .1125
 90.000 .1966 -.3815 -.1382 -.1490 -.1491
 180.000 .4152 -.5666 .2512 .2288 .1127
 270.000 .3575 -.2816 .1297 .1278 .0730

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ARC11-014IA19 OTS+STRUT SRB-NOM MPS-OFF SRB BODY

(REUS15) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.200
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.113	BETA (1) = .003	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1759	.0000	.0420	-.0658	.0373
		90.000	.1896	-.3054	-.0894	-.1106	-.1144
		180.000	.2831	-.5215	.2332	.2545	.1997
		270.000	.0500	-.2432	.1221	.2304	.2494
ALPHA (2) = -.390	BETA (1) = -4.000	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1999	.0000	.2013	.2812	.2658
		90.000	.2524	-.3033	-.1614	-.1434	-.1676
		180.000	.2666	-.3466	.1151	.0836	.0207
		270.000	.1633	-.1856	.2089	.1942	.1724
ALPHA (2) = -.363	BETA (2) = .012	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2668	.0000	.1892	.2245	.1974
		90.000	.2202	-.2862	-.0527	-.0792	-.0745
		180.000	.4298	-.4585	.2409	.2592	.1878
		270.000	.2626	-.1624	.2026	.2842	.2715
ALPHA (2) = -.294	BETA (3) = 4.028	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3470	.0000	.1228	-.1070	.0999
		90.000	.1860	-.2901	-.0855	-.0926	-.0795
		180.000	.5513	-.4900	.2540	.2962	.2199
		270.000	.4312	-.1651	.2130	.2817	.2779
ALPHA (3) = 3.834	BETA (1) = .012	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3364	.0000	.2238	.2601	.2144
		90.000	.1995	-.2786	-.0353	-.0480	-.0460
		180.000	.4950	-.4397	.2248	.2629	.1943
		270.000	.4021	-.1565	.1512	.1437	.1099

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-NOM MPS-OFF SRB BODY

(REUS16) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.095 BETA (1) = .012	X/L	.700	.811	.923	.945	.968
	PHI					
	.000	.1636	.0000	.0240	.0749	.0708
	90.000	.2247	-.2288	-.1171	-.1122	-.0815
	180.000	.3009	-.4038	.1695	.3024	.3002
	270.000	.0731	-.2458	.0355	.1451	.1938
ALPHA (2) = -.393 BETA (1) = -4.000	X/L	.700	.811	.923	.945	.968
	PHI					
	.000	.1159	.0000	.2349	.2890	.3142
	90.000	.1865	-.2278	-.1209	-.0929	-.0496
	180.000	.2669	-.3851	.1640	.1810	.1506
	270.000	.0833	-.1922	.1521	.1965	.1838
ALPHA (2) = -.291 BETA (2) = -.003	X/L	.700	.811	.923	.945	.968
	PHI					
	.000	.1912	.0000	.1685	.2309	.2590
	90.000	.1324	-.2243	-.0327	-.0544	-.0247
	180.000	.4164	-.3918	.1805	.3083	.3213
	270.000	.1753	-.1631	.1763	.2462	.2612
ALPHA (2) = -.318 BETA (3) = 4.025	X/L	.700	.811	.923	.945	.968
	PHI					
	.000	.2630	.0000	.1570	.1563	.1743
	90.000	-.0233	-.2392	-.0181	-.0630	-.0336
	180.000	.5541	-.3687	.1721	.2923	.3041
	270.000	.2857	-.1253	.2210	.3139	.3403
ALPHA (3) = 3.861 BETA (1) = -.006	X/L	.700	.811	.923	.945	.968
	PHI					
	.000	.1943	.0000	.2515	.2814	.3109
	90.000	-.1008	-.2163	.0142	.0328	.0230
	180.000	.4643	-.3519	.1867	.2347	.2079
	270.000	.2384	.0023	.2129	.2018	.1649

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-HI MPS-HI SRB BODY

(REUS17) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.155 BETA (1) = .009	X/L	.700	.811	.923	.945	.968
	PHI					
	.000	.0946	.0000	-.0559	-.0958	-.1550
	90.000	.1333	-.3206	-.2468	-.2719	-.2279
	180.000	.1946	-.3812	.2921	.1166	.0156
	270.000	.0475	-.2613	.0702	.1632	.0838
ALPHA (2) = -.426 BETA (1) = -4.003	X/L	.700	.811	.923	.945	.968
	PHI					
	.000	.0838	.0000	-.0454	-.0202	-.0676
	90.000	.1015	-.3728	-.3141	-.2828	-.2366
	180.000	.1516	-.4573	.1888	.0067	-.0720
	270.000	.0819	-.3444	.0332	.0529	-.0142
ALPHA (2) = -.447 BETA (2) = .009	X/L	.700	.811	.923	.945	.968
	PHI					
	.000	.1145	.0000	-.0480	-.0315	-.0882
	90.000	.1004	-.3513	-.2633	-.2547	-.2122
	180.000	.2173	-.3241	.0366	-.0215	-.0970
	270.000	.1165	-.2652	.0807	.1478	.0657
ALPHA (2) = -.435 BETA (3) = 4.028	X/L	.700	.811	.923	.945	.968
	PHI					
	.000	.1397	.0000	-.0753	-.0816	-.1138
	90.000	.0374	-.3587	-.2574	-.2361	-.1959
	180.000	.2585	-.3169	.1032	.0227	-.0667
	270.000	.1562	-.2723	.1293	.2074	.1033
ALPHA (3) = 3.930 BETA (1) = .000	X/L	.700	.811	.923	.945	.968
	PHI					
	.000	.0964	.0000	.1455	.1124	.0052
	90.000	-.0213	-.3529	-.2426	-.2631	-.2072
	180.000	.2084	-.2943	.0605	-.0364	-.1048
	270.000	.1369	-.2459	.0764	.0494	-.0237

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-HI MPS-HI SRB BODY

(REUS19) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.098	BETA (1) = .000	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.3469	.0000	.0593	.0283	-.0672
		90.000	.3123	-.4084	-.1713	-.1834	-.1668
		180.000	.3010	-.4930	.2340	.1643	.0574
		270.000	.2624	-.3299	.1400	.2469	.2030
ALPHA (2) = -.396	BETA (1) = -4.003	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.3125	.0000	.1111	.1666	.0937
		90.000	.2367	-.3950	-.2059	-.1994	-.2113
		180.000	.2645	-.4182	.1114	.0446	-.0453
		270.000	.2870	-.3977	.1491	.2444	.1933
ALPHA (2) = -.438	BETA (2) = .009	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.3473	.0000	.1192	.1546	.0828
		90.000	.2994	-.3300	-.1066	-.1355	-.1323
		180.000	.3728	-.4636	.2408	.1681	.0635
		270.000	.3466	-.3120	.1765	.260	.2204
ALPHA (2) = -.573	BETA (3) = 4.028	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.3472	.0000	.0871	.1119	.0506
		90.000	.2387	-.3180	-.1805	-.1666	-.1644
		180.000	.4521	-.4566	.3043	.2081	.0978
		270.000	.3818	-.2741	.1884	.2809	.2115
ALPHA (3) = 3.915	BETA (1) = .000	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.2984	.0000	.1673	.1912	.1164
		90.000	.1962	-.3416	-.1321	-.1550	-.1413
		180.000	.4180	-.5233	.2610	.2115	.0933
		270.000	.3582	-.2683	.1339	.1294	.0807

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ARC11-014IA19 QTS+STRUT SRB-HI MFS-HI SRB BODY

(REUS19) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 6.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.185	BETA (1) = -.009	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1760	.0000	.0778	.0913	.0487
		90.000	.1872	-.2395	-.1109	-.0988	-.0851
		180.000	.2775	-.4572	.2587	.2369	.1946
		270.000	.0379	-.2221	.1252	.2195	.2361
ALPHA (2) = -.459	BETA (1) = -4.000	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1982	.0000	.2428	.3050	.2730
		90.000	.2491	-.2380	-.1530	-.1196	-.1230
		180.000	.2689	-.2907	.1151	.0708	.0123
		270.000	.1560	-.1722	.2089	.1937	.1857
ALPHA (2) = -.438	BETA (2) = .012	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2636	.0000	.2261	.2485	.2074
		90.000	.2159	-.2323	-.0756	-.0738	-.0595
		180.000	.4266	-.4051	.2528	.2312	.1656
		270.000	.2523	-.1598	.2093	.2934	.2750
ALPHA (2) = -.549	BETA (3) = 4.028	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3907	.0000	.1746	.1482	.1201
		90.000	.1946	-.2236	-.0398	-.0814	-.0555
		180.000	.5504	-.4503	.3056	.2942	.2159
		270.000	.4247	-.1582	.2299	.2948	.2866
ALPHA (3) = 3.516	BETA (1) = .012	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3366	.0000	.2429	.2743	.2190
		90.000	.2035	-.2375	-.0216	-.0546	-.0398
		180.000	.4853	-.4163	.2416	.2519	.1650
		270.000	.3978	-.1557	.1695	.1555	.1151

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-HI MFS-HI SRB BODY

(REUS20) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GTMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.167	BETA (1) = .003	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1635	.0000	.0630	.0935	.0755
		90.000	.2234	-.1715	-.1086	-.0893	-.0500
		180.000	.2992	-.3606	.2446	.3166	.2835
		270.000	.0754	-.2346	.0575	.1535	.2044
ALPHA (2) = -.489	BETA (1) = -4.003	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1156	.0000	.2235	.2767	.2932
		90.000	.1865	-.1590	-.0948	-.0614	-.0125
		180.000	.2691	-.3107	.2069	.1988	.1719
		270.000	.0867	-.1707	.1535	.1920	.1787
ALPHA (2) = -.432	BETA (2) = .009	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1977	.0000	.1800	.2447	.2735
		90.000	.1386	-.1635	-.0249	-.0329	.0020
		180.000	.4184	-.3651	.2402	.3131	.3048
		270.000	.1781	-.1523	.1877	.2555	.2653
ALPHA (2) = -.486	BETA (3) = 4.025	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2625	.0000	.1928	.2053	.2111
		90.000	-.0226	-.1826	.0106	-.0259	-.0018
		180.000	.5972	-.3651	.2258	.3395	.3136
		270.000	.2805	-.1216	.2251	.3099	.3355
ALPHA (3) = 3.657	BETA (1) = .009	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1917	.0000	.2787	.3145	.3235
		90.000	-.0957	-.1598	.0348	.0206	.0473
		180.000	.4647	-.3314	.2183	.2624	.2230
		270.000	.2378	.0089	.2189	.2258	.1905

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM SRB BODY

(REUS22) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

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SECTION (1) SRB BODY		DEPENDENT VARIABLE CP					
ALPHA (1) = -4.167	BETA (1) = .006	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1652	.0000	.0284	.0742	.0691
		90.000	.2243	-.2152	-.1128	-.1046	-.0818
		180.000	.3035	-.3856	.1573	.2953	.2826
		270.000	.0783	-.2425	.0323	.1344	.1763
ALPHA (2) = -3.348	BETA (1) = -3.997	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1135	.0000	.2345	.3020	.3207
		90.000	.1855	-.2140	-.0855	-.0647	-.0532
		180.000	.2680	-.3761	.1574	.1671	.1531
		270.000	.0825	-.1940	.1437	.1844	.1702
ALPHA (2) = -.366	BETA (2) = .012	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1948	.0000	.1769	.2413	.2716
		90.000	.1347	-.2069	-.0321	-.0473	-.0232
		180.000	.4210	-.3833	.1712	.2993	.3052
		270.000	.1790	-.1574	.1634	.2371	.2975
ALPHA (2) = -.322	BETA (3) = 4.031	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2632	.0000	.1676	.1710	.1871
		90.000	-.0255	-.2256	-.0151	-.0506	-.0315
		180.000	.5498	-.3582	.1517	.2884	.2956
		270.000	.2802	-.1252	.1915	.2903	.3272
ALPHA (3) = 3.942	BETA (1) = .012	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1901	.0000	.2630	.2913	.3117
		90.000	-.1830	-.2030	.0150	-.0204	.0156
		180.000	.4673	-.3454	.1698	.2272	.1926
		270.000	.2402	.0044	.2157	.1907	.1538

ARC11-014TA19 OTS+STRUT SRB-OFF MPS-OFF SRB BODY

(REUS23) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

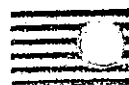
PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.047	BETA (1) = .000	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.0887	.0000	-.0801	-.1343	-.2004
		90.000	.1245	-.3494	-.2690	-.2841	-.2673
		180.000	.1887	-.3743	.2347	.1156	.0016
		270.000	.0406	-.2756	.0481	.1400	.0638
ALPHA (2) = -.276	BETA (1) = -4.003	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.0914	.0000	-.0468	-.0410	-.0913
		90.000	.1071	-.3586	-.2978	-.2839	-.2574
		180.000	.1659	-.3911	.1339	-.0007	-.0952
		270.000	.0892	-.3121	.0466	.0491	-.0223
ALPHA (2) = -.237	BETA (2) = .009	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1248	.0000	-.0396	-.0195	-.0897
		90.000	.1029	-.3384	-.2353	-.2182	-.1932
		180.000	.2245	-.3175	.0503	.0113	-.0819
		270.000	.1289	-.2682	.0932	.1733	.0819
ALPHA (2) = -.195	BETA (3) = 4.028	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1442	.0000	-.0515	-.0490	-.1425
		90.000	.0351	-.3485	-.2388	-.2169	-.2158
		180.000	.2600	-.3113	.0982	.0316	-.0744
		270.000	.1621	-.2549	.1493	.2222	.1107
ALPHA (3) = 3.855	BETA (1) = .003	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1113	.0000	.1315	.1225	-.0148
		90.000	-.0074	-.3330	-.2233	-.2244	-.2045
		180.000	.2214	-.2923	.0709	.0067	-.0855
		270.000	.1511	-.2572	.0909	.0864	-.0150



DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF SRB BODY

(REUS24) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.000
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -3.993 BETA (1) = .009	X/L	.700	.811	.923	.945	.968
	FHI					
	.000	.3421	.0000	-.0083	-.0217	-.1071
	90.000	.3086	-.5061	-.2227	-.2484	-.2607
	180.000	.3003	-.6416	.1570	.1247	.0321
	270.000	.2591	-.3672	.0966	.2435	.2142
ALPHA (2) = -.270 BETA (1) = -4.003	X/L	.700	.811	.923	.945	.968
	FHI					
	.000	.3000	.0000	.0503	.1372	.0771
	90.000	.2267	-.5063	-.2769	-.2997	-.3267
	180.000	.2590	-.5952	.0374	-.0044	-.0891
	270.000	.2806	-.4268	.0792	.2248	.2103
ALPHA (2) = -.246 BETA (2) = .009	X/L	.700	.811	.923	.945	.968
	FHI					
	.000	.3384	.0000	.0568	.1170	.0612
	90.000	.2882	-.4297	-.1532	-.1826	-.2069
	180.000	.3616	-.6059	.1467	.1094	.0719
	270.000	.3397	-.3445	.1213	.2459	.2265
ALPHA (2) = -.273 BETA (3) = 4.025	X/L	.700	.811	.923	.945	.968
	FHI					
	.000	.3401	.0000	.0220	.0706	.0312
	90.000	.2232	-.4522	-.2217	-.2169	-.2297
	180.000	.4457	-.6399	.1747	.1362	.0244
	270.000	.3768	-.3123	.1384	.2428	.2196
ALPHA (3) = 3.804 BETA (1) = -.003	X/L	.700	.811	.923	.945	.968
	FHI					
	.000	.2941	.0000	.1372	-.1776	.1121
	90.000	.1977	-.4286	-.1603	-.1743	-.1919
	180.000	.4059	-.6315	.1336	.1532	.0475
	270.000	.3508	-.3026	.0599	.1048	.0915

ARC11-014IA19 OTS+STRUT SRB-OFF HPS-OFF SRB BODY

(REUS25) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BRFP = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

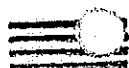
PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -3.975 BETA (1) = .003	X/L	.700	.811	.923	.945	.968
	PHI					
	.000	.1725	.0000	.0064	.0410	.0394
	90.000	.1800	-.3609	-.1285	-.1664	-.2047
	180.000	.2921	-.5613	-.1161	.1547	.1045
	270.000	.0809	-.2581	.0911	.2051	.2355
ALPHA (2) = -.255 BETA (1) = -4.000	X/L	.700	.811	.923	.945	.968
	PHI					
	.000	.1934	.0000	.1588	.2345	.2567
	90.000	.2913	-.3727	-.1676	-.2187	-.2559
	180.000	.2684	-.4492	.0645	.0381	-.0253
	270.000	.1614	-.1913	.1034	.1769	.1625
ALPHA (2) = -.285 BETA (2) = .012	X/L	.700	.811	.923	.945	.968
	PHI					
	.000	.2637	.0000	.1728	.1949	.1837
	90.000	.2116	-.3454	-.0867	-.1252	-.1445
	180.000	.4279	-.4968	.1219	.1514	.0863
	270.000	.2567	-.1642	.1634	.2645	.2762
ALPHA (2) = -.189 BETA (3) = 4.031	X/L	.700	.811	.923	.945	.968
	PHI					
	.000	.3422	.0000	.0641	.0522	.0666
	90.000	.1697	-.3590	-.1445	-.1456	-.1384
	180.000	.5471	-.5097	.1000	.1483	.0902
	270.000	.4233	-.1706	.1630	.2656	.2867
ALPHA (3) = 4.005 BETA (1) = .003	X/L	.700	.811	.923	.945	.968
	PHI					
	.000	.3256	.0000	.1891	.2445	.2080
	90.000	.1819	-.3402	-.0709	-.0845	-.1002
	180.000	.4911	-.4660	.0763	.1396	.0872
	270.000	.3888	-.1618	.0842	.1090	.1053



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DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

(REUS26) (22 OCT 74)

ARC11-014IA19 QTS+STRUT SRB-OFF MPS-OFF SRB BODY

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

EL V-1B = .000 EL V-CB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -3.909	BETA (1) = .009	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1659	.0000	-.0316	.0546	.0771
		90.000	.2254	-.3069	-.1777	-.1739	-.1789
		180.000	.3081	-.4312	-.0104	.1107	.1753
		270.000	.0862	-.2438	-.0072	.1192	.1996
		X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1107	.0000	.2246	.2692	.3074
		90.000	.1843	-.3101	-.1708	-.1512	-.1790
		180.000	.2675	-.4193	.0430	.0852	.0508
		270.000	.0808	-.1997	.1167	.1695	.1769
		X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1895	.0000	.1577	.2019	.2431
		90.000	.1273	-.2788	-.0646	-.0845	-.0724
		180.000	.4148	-.3959	.0273	.1108	.1482
		270.000	.1753	-.1618	.1270	.2080	.2593
		X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2623	.0000	.1295	.1185	.1355
		90.000	-.0348	-.3024	-.0826	-.0947	-.0936
		180.000	.5499	-.3723	.0367	.1001	.1178
		270.000	.2869	-.1271	.1970	.2799	.3461
		X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1905	.0000	.2255	.2451	.2924
		90.000	-.1044	-.2833	-.0328	-.0457	-.0516
		180.000	.4606	-.3661	.0643	.1034	.0901
		270.000	.2364	-.0040	.2039	.1907	.1184

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ARC11-0141A19 OTS+STRUT SRB-NOM MPS-NOM SRB BODY

(REUS27) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

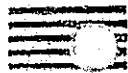
PARAMETRIC DATA

ELV-18 = .000 ELV-C8 = .000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.125 BETA (1) = .000	X/L	.700	.811	.923	.945	.968
	FHI					
	.000	.0818	.0000	-.0890	-.1467	-.2385
	90.000	.1200	-.3873	-.3126	-.3148	-.3010
	180.000	.1795	-.4739	.2056	.0603	-.0563
	270.000	.0314	-.3400	.0241	.1220	.0467
ALPHA (2) = -3.996 BETA (1) = -4.003	X/L	.700	.811	.923	.945	.968
	FHI					
	.000	.0869	.0000	-.0630	-.0238	-.0968
	90.000	.1097	-.3923	-.3276	-.3073	-.2866
	180.000	.1604	-.4671	.1192	-.0539	-.1475
	270.000	.0651	-.3681	.0393	.0514	-.0328
ALPHA (2) = -3.408 BETA (2) = .009	X/L	.700	.811	.923	.945	.968
	FHI					
	.000	.1168	.0000	-.0543	-.0384	-.1312
	90.000	.1053	-.3641	-.2631	-.2655	-.2533
	180.000	.2217	-.3356	.0152	-.0532	-.1559
	270.000	.1196	-.2987	.0976	.1633	.0503
ALPHA (2) = -3.336 BETA (3) = 4.025	X/L	.700	.811	.923	.945	.968
	FHI					
	.000	.1346	.0000	-.0635	-.0716	-.1834
	90.000	.0287	-.3843	-.2594	-.2627	-.2655
	180.000	.2546	-.3245	.0779	-.0254	-.1477
	270.000	.1513	-.2788	.1398	.2056	.0793
ALPHA (3) = 3.792 BETA (1) = -.003	X/L	.700	.811	.923	.945	.968
	FHI					
	.000	.1095	.0000	.1135	.1151	-.0242
	90.000	.0000	.7595	-.2379	-.2344	-.2305
	180.000	.2187	.5403	.0524	-.0240	-.1303
	270.000	.1496	-.2639	.1022	.0895	-.0175



DATE 01 MAY 79

TABULATED SOURCE PRESSURE DATA - 1A19 (ARC 11-014)

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ARC11-0141A19 QTS+STRUT SRB-NOM MPS-NOM SRB BODY

(REUS28) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.191	BETA (1) = .003	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3418	.0000	.0093	-.0120	-.1033
		90.000	.3092	-.4631	-.2387	-.2576	-.2565
		180.000	.2920	-.6262	.1498	.0991	.0344
		270.000	.2523	-.3691	.0947	.2382	.2092
ALPHA (2) = -.465	BETA (1) = -4.003	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3096	.0000	.0774	.1519	.0857
		90.000	.2301	-.4657	-.2693	-.2836	-.3010
		180.000	.2608	-.5547	.0417	-.0147	-.1055
		270.000	.2863	-.4250	.0960	.2366	.2117
ALPHA (2) = -.447	BETA (2) = .012	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3415	.0000	.0841	.1365	.0709
		90.000	.2937	-.3889	-.1408	-.1743	-.1955
		180.000	.3665	-.5802	.1586	.1067	-.0042
		270.000	.3438	-.3373	.1358	.2540	.2247
ALPHA (2) = -.405	BETA (3) = 4.031	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3460	.0000	.0471	.0910	.0401
		90.000	.2325	-.4031	-.1974	-.2050	-.2207
		180.000	.4462	-.6165	.1945	.1378	.0253
		270.000	.3812	-.3117	.1535	.2458	.2132
ALPHA (3) = 3.819	BETA (1) = .009	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2996	.0000	.1550	.1892	.1163
		90.000	.1992	-.3951	-.1466	-.1736	-.1856
		180.000	.4134	-.6766	.1509	.1442	.0290
		270.000	.3606	-.2937	.0749	.1175	.0989

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM SRB BODY

(REUS29) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.080	BETA (1) = .006	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1781	.0000	.0447	.0789	.0566
		90.000	.1870	-.2971	-.1147	-.1282	-.1523
		180.000	.2918	-.5188	.1523	.1781	.1318
		270.000	.0543	-.2491	.1004	.2092	.2380
ALPHA (2) = -.375	BETA (1) = -3.997	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2003	.0000	.2122	.2839	.2718
		90.000	.2529	-.2974	-.1880	-.1842	-.2113
		180.000	.2716	-.3817	.0691	.0306	-.0367
		270.000	.1553	-.1806	.1741	.1796	.1642
ALPHA (2) = -.408	BETA (2) = .012	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2628	.0000	.2046	.2335	.2033
		90.000	.2108	-.2835	-.0924	-.1010	-.1193
		180.000	.4245	-.4645	.1648	.1805	.1054
		270.000	.2449	-.1605	.1760	.2758	.2737
ALPHA (2) = -.381	BETA (3) = 4.031	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3497	.0000	.1278	.1106	.1052
		90.000	.1849	-.2936	-.0916	-.1202	-.1113
		180.000	.5533	-.4900	.1904	.1906	.1166
		270.000	.4304	-.1641	.1769	.2827	.2943
ALPHA (3) = 3.843	BETA (1) = .003	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3440	.0000	.2259	.2762	.2255
		90.000	.1931	-.2792	-.0379	-.0740	-.0823
		180.000	.4997	-.4465	.1394	.1866	.1104
		270.000	.4033	-.1570	.1048	.1270	.1240

ARC11-014IA19 OTS+STRUT SRB-NCM MPS-NCM SRB BODY

(REUS30) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-10 = .000 ELV-C0 = .000
 RUDDER = .000 MACH = 1.400
 GINGAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.224	BETA (1) = .006	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1649	.0000	.0277	.0791	.0745
		90.000	.2241	-.2133	-.1244	-.1129	-.0960
		180.000	.3017	-.3949	.0809	.2188	.2140
		270.000	.0765	-.2424	.0249	.1292	.1696
ALPHA (2) = -.444	BETA (1) = -3.997	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1136	.0000	.2456	.3072	.3229
		90.000	.1857	-.2307	-.0991	-.0992	-.0797
		180.000	.2666	-.3876	.0780	.1149	.0904
		270.000	.0828	-.1998	.1308	.1785	.1737
ALPHA (2) = -.405	BETA (2) = .016	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1941	.0000	.1826	.2396	.2710
		90.000	.1386	-.2102	-.0452	-.0596	-.0419
		180.000	.4169	-.3852	.1012	.2148	.2291
		270.000	.1772	-.1601	.1439	.2238	.2532
ALPHA (2) = -.380	BETA (3) = 4.031	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.2643	.0000	.1727	.1704	.1878
		90.000	-.0195	-.2264	-.0164	-.0539	-.0386
		180.000	.5559	-.3647	.0914	.1773	.2037
		270.000	.2847	-.1207	.1924	.2890	.3420
ALPHA (3) = 3.819	BETA (1) = .009	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1920	.0000	.2611	.2911	.3162
		90.000	-.1001	-.2078	-.0027	-.0206	-.0108
		180.000	.4646	-.3490	.1056	.1599	.1314
		270.000	.2384	.0024	.2132	.1741	.1423

ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF SRB BODY

(REUS31) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

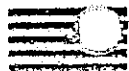
PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 HACH = .000
 GIMBAL = 2.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.020	BETA (1) = .006	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.0784	.0000	-.0688	-.1008	-.1813
		90.000	.1204	-.3367	-.2463	-.2531	-.2428
		180.000	.1890	-.3478	.2408	.1093	-.0093
		270.000	.0339	-.2516	.0748	.1621	.0760
ALPHA (2) = -.288	BETA (1) = -4.003	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.0894	.0000	-.0405	-.0198	-.0846
		90.000	.1096	-.3467	-.2864	-.2704	-.2429
		180.000	.1634	-.3867	.1438	.0127	-.0911
		270.000	.0904	-.2973	.0631	.0645	-.0125
ALPHA (2) = -.279	BETA (2) = .009	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1213	.0000	-.0235	-.0106	-.0926
		90.000	.1017	-.3202	-.2183	-.2148	-.1939
		180.000	.2255	-.2892	.0546	.0110	-.0813
		270.000	.1254	-.2406	.1127	.1800	.0830
ALPHA (2) = -.264	BETA (3) = 4.031	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1383	.0000	-.0499	-.0548	-.1514
		90.000	.0270	-.3533	-.2284	-.2283	-.2271
		180.000	.2556	-.2604	.1057	.0225	-.0816
		270.000	.1572	-.2144	.1570	.2147	.1006
ALPHA (3) = 3.978	BETA (1) = .000	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1094	.0000	.1469	.1323	-.0032
		90.000	-.0077	-.3251	-.2124	-.2128	-.1901
		180.000	.2216	-.2715	.0816	.0256	-.0751
		270.000	.1907	-.2242	.1033	.0931	-.0063



ARC11-0141A19 OTS+STRUT SRB-OFF MPS-OFF SRB BODY

(REUS32) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-10 = .000 ELV-C8 = .000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 2.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -3.956 BETA (1) = .000	X/L	.700	.811	.923	.945	.968
	FHI					
	.000	.3342	.0000	-.0053	-.0108	-.0959
	90.000	.2961	-.4827	-.1949	-.2244	-.2418
	180.000	.3065	-.6256	.1635	.1332	.0384
	270.000	.2682	-.3603	.1132	.2670	.2268
ALPHA (2) = -.255 BETA (1) = -4.000	X/L	.700	.811	.923	.945	.968
	FHI					
	.000	.2957	.0000	.0919	.1858	.1154
	90.000	.1970	-.4618	-.2341	-.2759	-.3151
	180.000	.2675	-.5483	-.0972	.0331	-.0346
	270.000	.2957	-.3976	.1213	.2630	.2386
ALPHA (2) = -.213 BETA (2) = .009	X/L	.700	.811	.923	.945	.968
	FHI					
	.000	.3077	.0000	.0853	.1530	.0946
	90.000	.2607	-.3775	-.1258	-.1626	-.1832
	180.000	.3975	-.5711	.1852	.1532	.0524
	270.000	.3435	-.3096	.1389	.2487	.2247
ALPHA (2) = -.219 BETA (3) = 4.028	X/L	.700	.811	.923	.945	.968
	FHI					
	.000	.3530	.0000	.0499	.0936	.0491
	90.000	.2490	-.4122	-.1918	-.1878	-.2026
	180.000	.4406	-.5988	.1958	.1543	.0444
	270.000	.3869	-.2985	.1568	.2504	.2199
ALPHA (3) = 3.981 BETA (1) = .000	X/L	.700	.811	.923	.945	.968
	FHI					
	.000	.2985	.0000	.1623	.2115	.1394
	90.000	.1960	-.3889	-.1273	-.1478	-.1610
	180.000	.4280	-.5976	.1649	.1871	.0720
	270.000	.3625	-.2795	.0831	.1417	.1246

ORIGINAL PAGE IS
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ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF SRB BODY

(REUS33) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 2.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.044	BETA (1) = .003	X/L	.700	.811	.923	.945	.968	
		PHI	.000	.1692	.0000	.0148	.0502	.0456
			90.000	.1811	-.3554	-.1230	-.1602	-.1966
			180.000	.2994	-.5538	.1169	.1594	.1106
			270.000	.0614	-.2604	.0931	.2072	.2350
		X/L	.700	.811	.923	.945	.968	
		PHI	.000	.1905	.0000	.1645	.2321	.2567
			90.000	.2472	-.3675	-.1627	-.2095	-.2515
			180.000	.2664	-.4491	.0637	.0392	-.0241
			270.000	.1530	-.1843	.1137	.1736	.1581
		X/L	.700	.811	.923	.945	.968	
		PHI	.000	.2579	.0000	.1648	.1930	.1821
			90.000	.2045	-.3439	-.0837	-.1246	-.1475
			180.000	.4260	-.4971	.1190	.1527	.0881
			270.000	.2452	-.1605	.1644	.2667	.2
		X/L	.700	.811	.923	.945	.968	
		PHI	.000	.3479	.0000	.0721	.0555	.06
			90.000	.1818	-.3548	-.1358	-.1391	-.1351
			180.000	.5506	-.4996	.1047	.1469	.0921
			270.000	.4252	-.1635	.1687	.2715	.2914
		X/L	.700	.811	.923	.945	.968	
		PHI	.000	.3301	.0000	.1937	.2452	.2105
			90.000	.1829	-.3316	-.0621	-.0811	-.0985
			180.000	.4920	-.4587	.0880	.1448	.0954
			270.000	.3924	-.1553	.0882	.1164	.1072

ALPHA (3) = 3.046 BETA (1) = .003

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-OFF MPS-OFF SRB BODY

(REUS34) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. MRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. MRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 2.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -3.981	BETA (1) = .000	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1650	.0000	-.0410	.0496	.0755
		90.000	.2256	-.3157	-.1803	-.1765	-.1772
		180.000	.3023	-.4348	-.0217	.1068	.1725
		270.000	.0828	-.2475	-.0133	.1176	.1899
ALPHA (2) = -.231	BETA (1) = -4.000	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1084	.0000	.2259	.2701	.3046
		90.000	.1810	-.3127	-.1710	-.1484	-.1776
		180.000	.2698	-.4213	.0407	.0814	.0508
		270.000	.0793	-.2014	.1173	.1700	.1748
ALPHA (2) = -.231	BETA (2) = .009	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1923	.0000	.1596	.2048	.2458
		90.000	.1256	-.2786	-.0636	-.0815	-.0715
		180.000	.4189	-.3939	.0319	.1171	.1506
		270.000	.1773	-.1601	.1290	.2107	.2599
ALPHA (2) = -.210	BETA (3) = 4.028	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.2599	.0000	.1294	.1173	.1319
		90.000	-.0348	-.3046	-.0811	-.0971	-.0963
		180.000	.5510	-.3736	.0357	.1005	.1209
		270.000	.2853	-.1267	.1948	.2759	.3423
ALPHA (3) = 3.930	BETA (1) = .003	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1880	.0000	.0241	.2465	.2931
		90.000	-.1052	-.2837	-.0302	-.0500	-.0534
		180.000	.4579	-.3647	.0587	.0943	.0890
		270.000	.2316	-.0090	.1931	.1546	.1205

ARC11-014IA19 QTS+STRUT SRB-NOM MPS-NOM SRB BODY

(REUS35) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = .900
 GIMBAL = 2.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.308 BETA (1) = .009	X/L	.700	.811	.923	.945	.968
	PHI					
	.000	.0848	.0000	-.1230	-.1487	-.2303
	90.000	.1219	-.4188	-.3289	-.3351	-.3100
	180.000	.1845	-.4898	.1172	.0314	-.0847
	270.000	.0374	-.3675	.0380	.1585	.0620
ALPHA (2) = -.390 BETA (1) = -4.000	X/L	.700	.811	.923	.945	.968
	PHI					
	.000	.0875	.0000	-.0692	-.0220	-.0985
	90.000	.1086	-.4228	-.3580	-.3295	-.3029
	180.000	.1572	-.4780	.0327	-.0855	-.1854
	270.000	.0883	-.4069	.0582	.0697	-.0218
ALPHA (2) = -.384 BETA (2) = .012	X/L	.700	.811	.923	.945	.968
	PHI					
	.000	.1168	.0000	-.0802	-.0265	-.1116
	90.000	.1011	-.4199	-.2886	-.2848	-.2569
	180.000	.2185	-.4101	.0000	-.0539	-.1558
	270.000	.1193	-.3618	.0871	.1875	.0718
ALPHA (2) = -.345 BETA (3) = 4.025	X/L	.700	.811	.923	.945	.968
	PHI					
	.000	.1286	.0000	-.0821	-.0713	-.1784
	90.000	.0262	-.4332	-.2827	-.2972	-.3019
	180.000	.2492	-.3882	.0736	-.0243	-.1465
	270.000	.1461	-.3166	.1385	.2111	.0840
ALPHA (3) = 3.903 BETA (1) = .006	X/L	.700	.811	.923	.945	.968
	PHI					
	.000	.1016	.0000	.0733	.0840	-.0333
	90.000	-.0156	-.3976	-.2575	-.2637	-.2487
	180.000	.2113	-.3684	.0578	-.0205	-.1350
	270.000	.1435	-.2873	.1016	.0778	-.0138

ARC11-0141A19 OTS+STRUT SRB-NOM MPS-NOM SRB BODY

(REUS36) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 2.000

SECTION (1) SRB BODY	DEPENDENT VARIABLE CP					
ALPHA (1) = -4.000 BETA (1) = .003	X/L	.700	.811	.923	.945	.968
	PHI					
	.000	.3409	.0000	-.0138	-.0200	-.1028
	90.000	.3080	-.5062	-.2308	-.2450	-.2499
	180.000	.2979	-.6460	.1387	.1014	.0086
	270.000	.2605	-.3712	.0877	.2495	.2183
ALPHA (2) = -.342 BETA (1) = -4.000	X/L	.700	.811	.923	.945	.968
	PHI					
	.000	.3073	.0000	.0718	.1586	.0917
	90.000	.2240	-.4802	-.2624	-.2858	-.3058
	180.000	.2620	-.5712	.0462	-.0108	-.1003
	270.000	.2882	-.4255	.0967	.2384	.2158
ALPHA (2) = -.318 BETA (2) = .012	X/L	.700	.811	.923	.945	.968
	PHI					
	.000	.3280	.0000	.0945	.1431	.0866
	90.000	.2771	-.3997	-.1243	-.1605	-.1800
	180.000	.3932	-.5790	.1626	.1171	.0109
	270.000	.3510	-.3174	.1433	.2648	.2457
ALPHA (2) = -.417 BETA (3) = 4.031	X/L	.700	.811	.923	.945	.968
	PHI					
	.000	.3552	.0000	.0444	.0874	.0431
	90.000	.2530	-.4197	-.1948	-.1948	-.2105
	180.000	.4393	-.6119	.1888	.1403	.0282
	270.000	.3846	-.3089	.1534	.2511	.2166
ALPHA (3) = 3.717 BETA (1) = .000	X/L	.700	.811	.923	.945	.968
	PHI					
	.000	.3016	.0000	.1420	.1809	.1119
	90.000	.2130	-.4248	-.1566	-.1732	-.1856
	180.000	.4022	-.6246	.1281	.1299	.0211
	270.000	.3576	-.3059	.0686	.1139	.0913

ARC11-014IA19 OTS+STRUT SRB-NOM MPS-NOM SRB BODY

(REUS37) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 2.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.149	BETA (1) = .006	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1744	.0000	.0246	.0574	.0421
		90.000	.1854	-.3317	-.1201	-.1485	-.1703
		180.000	.2854	-.5480	.1283	.1602	.1129
		270.000	.0458	-.2649	.0901	.2073	.2331
ALPHA (2) = -.414	BETA (1) = -4.003	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1999	.0000	.1931	.2555	.2590
		90.000	.2524	-.3254	-.1944	-.1898	-.2246
		180.000	.2675	-.4128	.0663	.0307	-.0338
		270.000	.1489	-.1857	.1721	.1703	.1602
ALPHA (2) = -.459	BETA (2) = .009	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.2597	.0000	.1850	.2090	.1849
		90.000	.2099	-.3145	-.0812	-.1111	-.1291
		180.000	.4257	-.4836	.1413	.1621	.0855
		270.000	.2476	-.1611	.1699	.2720	.2731
ALPHA (2) = -.468	BETA (3) = 4.028	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.3511	.0000	.1172	.0911	.0946
		90.000	.1755	-.3113	-.1006	-.1228	-.1121
		180.000	.5496	-.4927	.1384	.1776	.1056
		270.000	.4287	-.1620	.1759	.2822	.2983
ALPHA (3) = 3.864	BETA (1) = .003	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.3336	.0000	.2091	.2599	.2161
		90.000	.1885	-.3086	-.0517	-.0815	-.0926
		180.000	.4951	-.4595	.1061	.1531	.0916
		270.000	.4001	-.1618	.0938	.1185	.1153

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - 1A19 (ARC 11-014)

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ARC11-0141A19 OTS+STRUT SRB-NCM MPS-NCM SRB BODY

(REUS30) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-C8 = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 2.000

SECTION (1) SRB BODY	DEPENDENT VARIABLE CP					
ALPHA (1) = -4.155 BETA (1) = .003	X/L	.700	.811	.923	.945	.968
	PHI					
	.000	.1632	.0000	.0041	.0765	.0810
	90.000	.2248	-.2486	-.1386	-.1276	-.1041
	180.000	.3007	-.4166	.0415	.1918	.2063
	270.000	.0789	-.2474	.0057	.1232	.1720
ALPHA (2) = -.367 BETA (1) = -4.000	X/L	.700	.811	.923	.945	.968
	PHI					
	.000	.1142	.0000	.2432	.2983	.3159
	90.000	.1870	-.2482	-.1476	-.1079	-.0960
	180.000	.2662	-.3918	.0710	.1098	.0708
	270.000	.0844	-.1962	.1236	.1805	.1721
ALPHA (2) = -.318 BETA (2) = .009	X/L	.700	.811	.923	.945	.968
	PHI					
	.000	.1944	.0000	.1697	.2303	.2634
	90.000	.1353	-.2348	-.0505	-.0642	-.0479
	180.000	.4170	-.3912	.0726	.1803	.2074
	270.000	.1761	-.1639	.1330	.2161	.2517
ALPHA (2) = -.354 BETA (3) = 4.031	X/L	.700	.811	.923	.945	.968
	PHI					
	.000	.2636	.0000	.1588	.1560	.1759
	90.000	-.0212	-.2460	-.0298	-.0690	-.0469
	180.000	.5535	-.3657	.0669	.1530	.1818
	270.000	.2844	-.1234	.1882	.2804	.3401
ALPHA (3) = 3.939 BETA (1) = .000	X/L	.700	.811	.923	.945	.968
	PHI					
	.000	.1904	.0000	.2534	.2841	.3122
	90.000	-.1003	-.2235	-.0016	-.0198	-.0097
	180.000	.4703	-.3502	.0907	.1472	.1276
	270.000	.2443	.0046	.2144	.1714	.1389

ARC11-014IA19 OTS

SRB-OFF MPS-OFF SRB BODY

(REUS39) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -8.139	BETA (1) = .000	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.0105	.0000	.0723	-.0638	-.2114
		90.000	.1255	-.3674	-.2747	-.2580	-.2386
		180.000	.1593	-.4354	.3708	.1668	.0053
		270.000	-.0272	-.3059	-.0266	.0695	-.0136
ALPHA (2) = -4.032	BETA (1) = .000	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.0832	.0000	-.0539	-.0969	-.1681
		90.000	.1199	-.3281	-.2357	-.2286	-.2106
		180.000	.1957	-.3558	.2462	.1217	-.0376
		270.000	.0361	-.2535	.0628	.1700	.0678
ALPHA (3) = -.228	BETA (1) = -4.003	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.0852	.0000	-.0322	-.0196	-.0987
		90.000	.1062	-.3485	-.2305	-.2216	-.2090
		180.000	.1591	-.3211	.1801	.0415	-.0999
		270.000	.0906	-.2904	.0499	.0711	-.0276
ALPHA (3) = -.249	BETA (2) = .012	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1119	.0000	-.0140	-.0077	-.0990
		90.000	.0916	-.3161	-.2030	-.2183	-.1930
		180.000	.2248	-.2492	.0590	-.0017	-.1241
		270.000	.1107	-.1990	.1377	.1853	.0585
ALPHA (3) = -.261	BETA (3) = 4.028	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1459	.0000	-.0147	-.0152	-.1359
		90.000	.1010	-.3355	-.2056	-.2080	-.2355
		180.000	.2575	-.2257	.1755	.0517	-.1203
		270.000	.1555	-.1803	.2102	.2543	.1002
ALPHA (4) = 4.032	BETA (1) = .003	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1062	.0000	.1570	.1363	-.0007
		90.000	-.0148	-.3302	-.2075	-.2022	-.1783
		180.000	.2165	-.2681	.0852	.0219	-.1185
		270.000	.1448	-.2349	.0977	.0944	-.0146

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014TA19 OTS

SRB-OFF MPS-OFF SRB BODY

(REUS39)

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (5) = 7.920 BETA (1) = .003

X/L	.700	.811	.923	.945	.968
CHI					
.000	.0743	.0000	.2965	.3066	.0743
90.000	-.1086	-.3398	-.1979	-.2024	-.1904
180.000	.1880	-.3499	.1304	.0356	-.1074
270.000	.1175	-.2447	.0490	.0182	-.0885

ORIGINAL PAGE IS
OF POOR QUALITY

ARC11-014IA19 QTS

SRB-OFF MPS-OFF SRB BODY

(REUS40) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -7.992	BETA (1) = .003	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2798	.0000	.0216	-.0761	-.2079
		90.000	.2663	-.4978	-.2866	-.2800	-.3068
		180.000	.2391	-.6387	.1622	.1252	-.0009
		270.000	.1841	-.3992	.0126	.2375	.2234
ALPHA (2) = -4.080	BETA (1) = .003	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3346	.0000	-.0106	-.0181	-.1059
		90.000	.2980	-.4729	-.1807	-.2132	-.2375
		180.000	.3071	-.6168	.1760	.1406	.0094
		270.000	.2584	-.3785	.1100	.2691	.2231
ALPHA (3) = -.225	BETA (1) = -4.000	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2631	.0000	.0854	.1435	.0725
		90.000	.2542	-.4181	-.2210	-.2457	-.2887
		180.000	.2860	-.5446	.1135	.0225	-.1103
		270.000	.2799	-.4085	.1208	.1172	.0598
ALPHA (3) = -.159	BETA (2) = .012	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3232	.0000	.0708	.1275	.0691
		90.000	.2683	-.4145	-.1306	-.1616	-.1921
		180.000	.3766	-.5914	.1570	.1189	-.0223
		270.000	.3398	-.3445	.1288	.2488	.2159
ALPHA (3) = -.312	BETA (3) = 4.028	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3911	.0000	.0577	.1106	.0624
		90.000	.3411	-.4457	-.1732	-.1205	-.1517
		180.000	.4316	-.5964	.2271	.1768	.0113
		270.000	.4032	-.3087	.1922	.3292	.2736
ALPHA (4) = 3.885	BETA (1) = .000	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2973	.0000	.1359	.1756	.1072
		90.000	.1940	-.4333	-.1626	-.1722	-.1970
		180.000	.4043	-.6241	.1346	.1420	.0042
		270.000	.3527	-.3157	.0671	.1114	.0733

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - 1A19 (ARC 11-014)

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		ARC11-0141A19 QTS	SRB-OFF MPS-OFF SRB BODY				(REUS40)
SECTION (1)SRB BODY		DEPENDENT VARIABLE CP					
ALPHA (5) = 8.073	BETA (1) = .000	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2596	.0000	.1900	.2382	.1576
		90.000	.1115	-.4538	-.1842	-.2053	-.2116
		180.000	.4055	-.6531	.1102	.1874	.0324
		270.000	.3032	-.3562	.0500	.0493	-.0174

ARC11-014IA19 OTS

SRB-OFF HPS-OFF SRB BODY

(REUS41) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

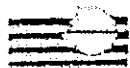
PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -8.232	BETA (1) = -.006	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1714	.00	.0746	-.0317	-.1232
		90.000	.2417	-.41	-.2378	-.2290	-.2449
		180.000	.1622	-.60	.1036	.1885	.1170
		270.000	-.1099	-.3691	-.0672	.0463	.1475
ALPHA (2) = -4.098	BETA (1) = -.006	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1667	.0000	.0259	.0484	.0441
		90.000	.1693	-.3542	-.1169	-.1486	-.1865
		180.000	.3058	-.5559	.1215	.1680	.0918
		270.000	.0620	-.2867	.0883	.2075	.2340
ALPHA (3) = -.243	BETA (1) = -4.000	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2087	.0000	.1230	.1954	.2280
		90.000	.1844	-.3690	-.1844	-.1916	-.2335
		180.000	.2687	-.4311	.1060	.0427	-.0619
		270.000	.1683	-.2519	.1190	.2739	.2553
ALPHA (3) = -.171	BETA (2) = .012	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2587	.0000	.1558	.1848	.1785
		90.000	.1864	-.3487	-.0866	-.1202	-.1417
		180.000	.4329	-.5052	.1234	.1580	.0567
		270.000	.2530	-.1926	.1617	.2685	.2671
ALPHA (3) = -.171	BETA (3) = 4.025	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3412	.0000	.0645	.0579	.0857
		90.000	.2671	-.3657	-.1372	-.1245	-.1167
		180.000	.5483	-.4942	.1041	.1439	.0579
		270.000	.4388	-.1814	.1788	.2840	.2913
ALPHA (4) = 7.860	BETA (1) = -.003	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2737	.0000	.2357	.3377	.2813
		90.000	.0879	-.3563	-.0875	-.0767	-.0913
		180.000	.4892	-.4932	.0596	.1883	.1044
		270.000	.3685	-.2181	.0915	.1012	.0584



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TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS

SRB-OFF MPS-OFF SRB BODY

(REUS42) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BRFP = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.059	BETA (1) = .000	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1651	.0000	-.0366	.0632	.0862
		90.000	.2154	-.3177	-.1655	-.1575	-.1601
		180.000	.3391	-.4346	-.0247	.1180	.1563
		270.000	.1061	-.2875	-.0234	.1067	.1578
ALPHA (2) = -.183	BETA (1) = -3.997	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1358	.0000	.1648	.2165	.2515
		90.000	.0360	-.2919	-.1579	-.1155	-.1318
		180.000	.2894	-.4453	.0895	.0991	.0670
		270.000	.1045	-.2668	.0951	.1590	.1723
ALPHA (2) = -.195	BETA (2) = .012	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1967	.0000	.1519	.1897	.2340
		90.000	.0859	-.2758	-.0614	-.0797	-.0553
		180.000	.4350	-.4000	.0343	.1218	.1330
		270.000	.1831	-.2062	.1319	.2175	.2557
ALPHA (2) = .027	BETA (3) = 4.028	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.2559	.0000	.1646	.1325	.1516
		90.000	.1787	-.3073	-.0897	-.1174	-.0703
		180.000	.5260	-.3558	.0522	.0982	.0792
		270.000	.3002	-.1282	.2290	.2967	.3405
ALPHA (3) = 3.924	BETA (1) = .003	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1942	.0000	.2092	.2440	.3018
		90.000	-.1102	-.2783	-.0188	-.0319	-.0385
		180.000	.4706	-.3612	.0669	.1087	.0769
		270.000	.2409	-.0109	.2015	.1634	.1269
ALPHA (4) = 7.809	BETA (1) = .003	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.2662	.0000	.3181	.3277	.3712
		90.000	-.0340	-.2594	.0143	.0068	.0051
		180.000	.5094	-.3425	.0929	.1468	.1415
		270.000	.3192	-.0675	.1704	.1738	.1426

ARC11-014IA19 OTS

SRB-NOM HPS-OFF SRB BODY

(REUS43) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

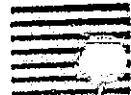
PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -8.133	BETA (1) = .003	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.0270	.0000	-.0203	-.1354	-.2880
		90.000	.1196	-.4000	-.3209	-.3232	-.3151
		180.000	.1571	-.5566	.2603	.1261	-.0314
		270.000	-.0237	-.3646	-.0692	.0249	-.0628
		X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.0886	.0000	-.0709	-.1053	-.1992
		90.000	.1227	-.3490	-.2580	-.2376	-.2259
		180.000	.1921	-.3865	.2598	.1207	-.0488
		270.000	.0419	-.2801	.0499	.1627	.0475
		X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.0769	.0000	-.0385	-.0378	-.1258
		90.000	.1031	-.3655	-.2411	-.2462	-.2387
		180.000	.1525	-.3433	.1732	.0201	-.1372
		270.000	.0803	-.2689	.0356	.0538	-.0572
		X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1066	.0000	-.0297	-.0315	-.1364
		90.000	.0895	-.3423	-.2268	-.2347	-.2245
		180.000	.2198	-.2763	.0408	-.0156	-.1541
		270.000	.1034	-.2300	.1133	.1547	.0237
		X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1482	.0000	-.0269	-.0368	-.1782
		90.000	.1095	-.3476	-.2196	-.2314	-.2884
		180.000	.2548	-.2490	.1611	.0411	-.1509
		270.000	.1568	-.2031	.1978	.2388	.0774
		X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1020	.0000	.1565	.1288	-.0325
		90.000	-.0100	-.3310	-.2018	-.2072	-.2070
		180.000	.2093	-.2528	.1044	.0090	-.1454
		270.000	.1390	-.2040	.1265	.0909	-.0384



DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - TA19 (ARC 11-014)

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ARC11-014TA19 QTS

SRB-NOM MPS-OFF SRB BODY

(REUS43)

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (5) = 7.962 BETA (1) = .000

X/L	.700	.811	.923	.945	.968
PHI					
.000	.0813	.0000	.3067	.3326	.0776
90.000	-.0985	-.3254	-.1845	-.1825	-.1883
180.000	.1917	-.3338	.1269	.0331	-.1107
270.000	.1271	-.2332	.0691	.0359	-.0910

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ARC11-0141A19 OTS

SRB-NON MPS-OFF SRB BODY

(REUS44) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -8.106	BETA (1) = .000	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2838	.0000	.0580	-.0494	-.1759
		90.000	.2655	-.4531	-.2678	-.2557	-.2627
		180.000	.2348	-.5265	.1716	.1364	.0208
		270.000	.1877	-.3397	.0229	.2222	.2114
ALPHA (2) = -4.038	BETA (1) = .000	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3459	.0000	.0160	.0200	-.0930
		90.000	.3144	-.4484	-.1897	-.2087	-.2172
		180.000	.3120	-.6023	.1865	.1441	.0127
		270.000	.2670	-.3782	.1125	.2598	.2111
ALPHA (3) = -.363	BETA (1) = -4.003	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2701	.0000	.0905	.1374	.0661
		90.000	.2557	-.4055	-.2353	-.2440	-.2670
		180.000	.2831	-.5357	.1071	.0229	-.1971
		270.000	.2776	-.4171	.1041	.1293	.0706
ALPHA (3) = -.363	BETA (2) = .012	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3423	.0000	.0811	.1321	.0619
		90.000	.2883	-.4011	-.1338	-.1670	-.1876
		180.000	.3640	-.5869	.1645	.1211	-.0204
		270.000	.3408	-.3595	.1342	.2478	.2083
ALPHA (3) = -.393	BETA (3) = 4.022	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3905	.0000	.0731	.1167	.0558
		90.000	.3441	-.4070	-.1665	-.1251	-.1551
		180.000	.4336	-.5903	.2374	.1790	.0166
		270.000	.4007	-.3168	.1948	.3093	.2569
ALPHA (4) = 3.888	BETA (1) = .000	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2996	.0000	.1365	.1727	.0977
		90.000	.1945	-.4238	-.1598	-.1786	-.1945
		180.000	.3994	-.6243	.1420	.1434	.0085
		270.000	.3483	-.3271	.0666	.1037	.0582

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS

SRB-NOM MPS-OFF SRB BODY

(REUS44)

SECTION (1)SRB BODY

DEPENDENT VARIABLE CP

ALPHA (5) = 7.977 BETA (1) = .000

X/L	.700	.811	.923	.945	.968
FHI					
.000	.2551	.0000	.2032	.2389	.1577
90.000	.0827	-.4370	-.1736	-.1820	-.1909
180.000	.3812	-.6458	.1022	.1241	-.0001
270.000	.2954	-.3506	.0608	.0650	-.0110

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ARC11-014IA19 OTS

SRB-NOM MPS-OFF SRB BODY

(REUS45) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -8.244 BETA (1) = -.009

X/L	.700	.811	.923	.945	.968
PHI					
.000	.1830	.0000	.1511	.0095	-.0964
90.000	.2499	-.3815	-.2166	-.1889	-.1937
180.000	.1602	-.5627	.1993	.2061	.1536
270.000	-.1083	-.3354	-.0469	.0679	.1498

ALPHA (2) = -3.936 BETA (1) = -.009

X/L	.700	.811	.923	.945	.968
PHI					
.000	.1824	.0000	.0491	.0845	.0813
90.000	.1772	-.3094	-.1066	-.1229	-.1455
180.000	.3108	-.5274	.1612	.1913	.1230
270.000	.0834	-.2562	-.1077	.2081	.2177

ALPHA (3) = -.309 BETA (1) = -4.000

X/L	.700	.811	.923	.945	.968
PHI					
.000	.2133	.0000	.1488	.2262	.2434
90.000	.1833	-.3133	-.1675	-.1490	-.1665
180.000	.2669	-.3863	.1392	.0721	-.0265
270.000	.1572	-.2399	.1556	.3915	.2806

ALPHA (3) = -.380 BETA (2) = .009

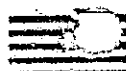
X/L	.700	.811	.923	.945	.968
PHI					
.000	.2658	.0000	.1914	.2099	.1843
90.000	.1915	-.2995	-.0738	-.0982	-.1082
180.000	.4312	-.4779	.1619	.1872	.0933
270.000	.2460	-.1878	.1754	.2769	.2667

ALPHA (3) = -.405 BETA (3) = 4.025

X/L	.700	.811	.923	.945	.968
PHI					
.000	.3874	.0000	.1201	.1188	.1188
90.000	.2757	-.3089	-.0985	-.0960	-.0852
180.000	.5814	-.4858	.1560	.1943	.0911
270.000	.4497	-.1760	.1946	.2999	.3013

ALPHA (4) = 3.873 BETA (1) = .000

X/L	.700	.811	.923	.945	.968
PHI					
.000	.3457	.0000	.2195	.2688	.2188
90.000	.1794	-.2936	-.0420	-.0695	-.0756
180.000	.5086	-.4491	.1285	.1805	.0966
270.000	.4080	-.1633	.1099	.1287	.0952



DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 QTS

SRB-NOM MPS-OFF SRB BODY

(REUS45)

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (5) = 7.989 BETA (1) = .000

Y/L	.700	.811	.923	.945	.968
FHI					
.000	.2809	.0000	.2636	.3619	.2963
90.000	.0853	-.3100	-.0518	-.0546	-.0652
180.000	.4981	-.4691	-.1012	.2306	.1242
270.000	.3793	-.2023	.1073	.1123	.0667

ARC11-0141A19 OTS

SRB-NCM MPS-CFF SRB BODY

(REUS46) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BRP = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GIBBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -8.175	BETA (1) = .003	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1477	.0000	.1310	.0328	-.0245
		90.000	.2618	-.2515	-.1847	-.1576	-.1251
		180.000	.2056	-.4488	.0653	.2369	.1873
		270.000	-.0746	-.3325	-.0748	.0124	.0950
		X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1707	.0000	.0218	.0951	.0949
		90.000	.2157	-.2334	-.1247	-.1109	-.0867
		180.000	.3393	-.4113	.0639	.2226	.2065
		270.000	.1067	-.2836	.0103	.1145	.1542
		X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1419	.0000	.1848	.2390	.2688
		90.000	.0466	-.2380	-.1085	-.0811	-.0635
		180.000	.2872	-.3993	.1638	.1705	.1225
		270.000	.1064	-.2596	.0998	.1493	.1471
		X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1996	.0000	.1660	.2236	.2597
		90.000	.0972	-.2288	-.0627	-.0638	-.0314
		180.000	.4347	-.3944	.0812	.1975	.1981
		270.000	.1852	-.2018	.1346	.2210	.2509
		X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2592	.0000	.1990	.1759	.1886
		90.000	.2125	-.2719	-.0683	-.1056	-.0326
		180.000	.5289	-.3906	.0717	.1413	.1465
		270.000	.3036	-.1331	.1954	.2939	.3487
		X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1972	.0000	.2348	.2762	.3173
		90.000	-.1051	-.2282	.0053	-.0075	.0010
		180.000	.4756	-.3903	.0973	.1503	.1171
		270.000	.2464	-.0025	.2129	.1803	.1447

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

PAGE 785

ARC11-014IA19 OTS

SRB-NON HFS-OFF SRB BODY

(REUS46)

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (5) = 7.653 BETA (1) = .006

X/L	.700	.811	.923	.945	.968
FXI					
.000	.2652	.0000	.3460	.3521	.3863
90.000	-.0634	-.2210	.0486	.0316	.0350
180.000	.5157	-.3369	.1151	.1926	.1869
270.000	.3267	-.0606	.1761	.1811	.1484

ARC11-014IA19 OTS

SRB-OFF MPS-OFF SRB BODY

(REUS47) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-TB = 8.000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.050	BETA (1) = -.003	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1629	.0000	-.0296	.0676	.0811
		90.000	.2115	-.3151	-.1573	-.1483	-.1442
		180.000	.3334	-.4353	.0749	.2439	.2464
		270.000	.0997	-.2900	-.0114	.1089	.1478
ALPHA (2) = -.150	BETA (1) = -4.000	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1333	.0000	.1632	.2226	.2580
		90.000	.0294	-.2772	-.1291	-.0867	-.0930
		180.000	.2906	-.4339	.1639	.1964	.1463
		270.000	.1076	-.2720	.1034	.1573	.1495
ALPHA (2) = -.129	BETA (2) = .009	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1949	.0000	.1464	.2023	.2407
		90.000	.0777	-.2649	-.0558	-.0678	-.0358
		180.000	.4351	-.3957	.1028	.2381	.2390
		270.000	.1822	-.2013	.1455	.2290	.2497
ALPHA (2) = -.234	BETA (3) = 4.028	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2527	.0000	.1762	.1451	.1577
		90.000	.1982	-.3270	-.0788	-.1048	-.0524
		180.000	.3814	-.3521	.1077	.1822	.1811
		270.000	.2933	-.1309	.2092	.3035	.3345
ALPHA (3) = 3.867	BETA (1) = .009	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1902	.0000	.2087	.2508	.3058
		90.000	-.1118	-.2610	-.0063	-.0159	-.0095
		180.000	.4683	-.3590	.1341	.1874	.1464
		270.000	.2343	-.0082	.1928	.1902	.1446

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - 1A19 (ARC 11-014)

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ARC11-0141A19 OTS

SRB-NOM MPS-OFF SRB BODY

(REUS4R) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 YREF = 1290.3000 IN. YMRP = .0000 IN. YT
 ZREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = .000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.143	BETA (1) = -.003	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1670	.0000	.0225	.0945	.0885
		90.000	.2139	-.2282	-.1088	-.0991	-.0715
		180.000	.3346	-.4087	.1605	.3257	.2895
		270.000	.1042	-.2862	.0174	.1222	.1547
ALPHA (2) = -.243	BETA (1) = -4.003	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1383	.0000	.1753	.2383	.2623
		90.000	.0408	-.2256	-.0751	-.0613	-.0317
		180.000	.2884	-.3689	.2532	.2486	.1862
		270.000	.1047	-.2633	.1149	.1533	.1342
ALPHA (2) = -.324	BETA (2) = .009	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1969	.0000	.1600	.2234	.2548
		90.000	.0891	-.2224	-.0458	-.0906	-.0137
		180.000	.4326	-.3938	.1640	.3101	.2906
		270.000	.1821	-.2056	.1558	.2333	.2415
ALPHA (2) = -.433	BETA (3) = 4.025	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2593	.0000	.2036	.1804	.1871
		90.000	.2118	-.2295	-.0211	-.0910	-.0182
		180.000	.5321	-.3590	.1395	.2428	.2476
		270.000	.3043	-.1308	.2122	.3073	.3368
ALPHA (3) = 4.032	BETA (1) = -.006	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1941	.0000	.2390	.2833	.3111
		90.000	-.1081	-.2165	.0211	.0128	.0293
		180.000	.4757	-.3463	.1713	.2391	.1902
		270.000	.2468	-.0039	.2279	.1976	.1514

ARC11-014IA19 QTS

SRB-OFF MPS-OFF SRB BODY

(REUS49) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

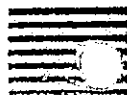
PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = .900
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.041	BETA (1) = .000	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.0758	.0000	-.0645	-.1148	-.1938
		90.000	.1111	-.3390	-.2323	-.2388	-.2319
		180.000	.1967	-.3298	.2624	.1307	-.0332
		270.000	.0324	-.2381	.0713	.1543	.0456
ALPHA (2) = -.198	BETA (1) = -4.003	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.0783	.0000	-.0208	-.0202	-.1063
		90.000	.0959	-.3360	-.2082	-.2230	-.2076
		180.000	.1638	-.2980	.1830	.0468	-.0951
		270.000	.0833	-.2331	.0608	.0678	-.0335
ALPHA (2) = -.162	BETA (2) = .009	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1139	.0000	-.0336	-.0313	-.1133
		90.000	.0896	-.3321	-.2257	-.2235	-.2078
		180.000	.2252	-.2669	.0610	.0165	-.1087
		270.000	.1111	-.2184	.1051	.1528	.0387
ALPHA (2) = -.285	BETA (3) = 4.022	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1490	.0000	-.0049	-.0120	-.1288
		90.000	.1036	-.3305	-.1987	-.1979	-.2243
		180.000	.2593	-.2096	.2197	.0987	-.0760
		270.000	.1568	-.1709	.2079	.2400	.0911
ALPHA (3) = 3.828	BETA (1) = -.003	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1102	.0000	.1414	.1095	-.0499
		90.000	-.0094	-.3232	-.1985	-.2016	-.1962
		180.000	.2199	-.2565	.1197	.0426	-.0970
		270.000	.1490	-.2065	.1200	.0966	-.0259



DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS

SRB-OFF MPS-OFF SRB BODY

(REUSED) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-YB = 8.000 ELV-CB = 4.000
 RUDDER = .000 YACH = 1.100
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.017	BETA (1) = .003	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3312	.0000	-.0074	-.0178	-.1114
		90.000	.2933	-.4694	-.1502	-.1893	-.2038
		180.000	.3074	-.5772	.2310	.1893	.0482
		270.000	.2580	-.3789	.1289	.2647	.2045
ALPHA (2) = -.162	BETA (1) = -4.000	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2655	.0000	.0837	.1410	.0653
		90.000	.2577	-.4125	-.1716	-.2081	-.2355
		180.000	.2915	-.4628	.1688	.0717	-.0729
		270.000	.2777	-.3952	.1269	.1272	.0711
ALPHA (2) = -.141	BETA (2) = .012	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3235	.0000	.0856	.1388	.0724
		90.000	.2630	-.3982	-.1148	-.1334	-.1581
		180.000	.3853	-.5373	.2363	.1847	.0417
		270.000	.3419	-.3298	.1595	.2669	.2111
ALPHA (2) = -.234	BETA (3) = 4.025	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3808	.0000	.0902	.1033	.0453
		90.000	.3238	-.4508	-.1905	-.1088	-.1522
		180.000	.4376	-.5419	.2755	.2110	.0367
		270.000	.3956	-.3159	.2026	.3154	.2457
ALPHA (3) = 3.879	BETA (1) = .000	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2978	.0000	.1389	.1754	.1038
		90.000	.1917	-.4158	-.1611	-.1429	-.1712
		180.000	.4104	-.5920	.2722	.2122	.0530
		270.000	.3523	-.3040	.1186	.1278	.0541

ARC11-014IA19 OTS

SRB-OFF MPS-OFF SRB BODY

(REUS51) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

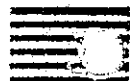
PARAMETRIC DATA

ELV-TB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.008	BETA (1) = .000	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1787	.0000	.0329	.0582	.0369
		90.000	.1819	-.3377	-.0902	-.1212	-.1466
		180.000	.3114	-.5466	.2198	.2544	.1809
		270.000	.0734	-.2528	.1298	.2361	.2425
ALPHA (2) = -.138	BETA (1) = -4.003	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2054	.0000	.1335	.2077	.2309
		90.000	.1752	-.3445	-.1350	-.1432	-.1759
		180.000	.2709	-.3532	.1575	.0956	-.0064
		270.000	.1710	-.2344	.1637	.3215	.2564
ALPHA (2) = -.225	BETA (2) = .009	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2600	.0000	.1548	.1832	.1697
		90.000	.1816	-.3327	-.0618	-.0906	-.0982
		180.000	.4361	-.4946	.2150	.2459	.1391
		270.000	.2483	-.1900	.1935	.2862	.2614
ALPHA (2) = -.252	BETA (3) = 4.022	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3457	.0000	.0808	.0805	.1017
		90.000	.2681	-.3372	-.1145	-.0933	-.0892
		180.000	.5492	-.4785	.2102	.2502	.1572
		270.000	.4408	-.1670	.2203	.3035	.2892
ALPHA (3) = 3.864	BETA (1) = .000	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3371	.0000	.1972	.2469	.2053
		90.000	.1726	-.3199	-.0522	-.0541	-.0806
		180.000	.3030	-.4548	.1903	.2375	.1408
		270.000	.3954	-.1637	.1423	.1335	.0751



DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - TA19 (ARC 11-014)

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ARC11-014TA19 OTS

SRB-OFF MPS-OFF SRB BODY

(REUS52) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -3.990	BETA (1) = .000	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1644	.0000	-.0233	.0674	.0863
		90.000	.2124	-.2874	-.1338	-.1373	-.1365
		180.000	.3368	-.4351	.1227	.2558	.2419
		270.000	.1065	-.2869	.0039	.1343	.1683
ALPHA (2) = -.195	BETA (1) = -4.003	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1338	.0000	.1591	.2194	.2503
		90.000	.0284	-.2836	-.1306	-.0889	-.0925
		180.000	.2888	-.4285	.1495	.1913	.1301
		270.000	.1074	-.2680	.1114	.1687	.1593
ALPHA (2) = -.198	BETA (2) = .009	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1963	.0000	.1461	.2000	.2359
		90.000	.0865	-.2658	-.0518	-.0679	-.0366
		180.000	.4347	-.3972	.1236	.2507	.2351
		270.000	.1838	-.2025	.1660	.2467	.2591
ALPHA (2) = -.186	BETA (3) = 4.022	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2520	.0000	.1668	.1437	.1578
		90.000	.1969	-.3287	-.0793	-.0983	-.0484
		180.000	.5188	-.3543	.1310	.2051	.1865
		270.000	.2962	-.1309	.2322	.3228	.3422
ALPHA (3) = 3.980	BETA (1) = .000	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1944	.0000	.2125	.2558	.3062
		90.000	-.1084	-.2588	-.0038	-.0079	-.0076
		180.000	.4722	-.3563	.1482	.2008	.1512
		270.000	.2399	-.0056	.1937	.2094	.1594

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TABLATED SOURCE PRESSURE DATA - 1A19 (ARC 11-014)

(REUS33) (22 OCT 74)

ARC11-0141A19 OTS SRB-NEM WFS-CFF SRB BODY

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 IN. YMRP = .0000 IN. YT
BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.0000 ELV-CB = 4.0000
RUDDER = .0000 MACH = .9500
GT/BAL = 1.0000

DEPENDENT VARIABLE CP

SECTION (1)	SRB BODY	ALPHA (1) = -0.179	BETA (1) = -0.003	X/L	PHI	700	.811	.923	.945	.968	ELV-IB =	RUDDER =	GT/BAL =	
ALPHA (2) = -0.339	BETA (2) = -3.997	X/L	.700	.811	.923	.945	.968				8.0000	.0000	1.0000	
		PHI	.0000	.0685	.0000	-.0825	-.1495	-.2383						
		90.0000	.1090	-.3532	-.2751	-.2552								
		180.0000	.1884	-.3525	.2723	.1215	-.0506							
270.0000	.0205	-.2623	.0517	.1337	.0106									
ALPHA (2) = -0.360	BETA (2) = .012	X/L	.700	.811	.923	.945	.968							
		PHI	.0000	.0763	.0000	-.0361	-.0268	-.1339						
		90.0000	.1044	-.3557	-.2399	-.2256	-.2271							
		180.0000	.1561	-.3249	.1874	.0416	-.1159							
270.0000	.0797	-.2479	.0406	.0535	-.0664									
ALPHA (2) = -0.411	BETA (3) = 4.022	X/L	.700	.811	.923	.945	.968							
		PHI	.0000	.1158	.0000	-.0293	-.0377	-.1567						
		90.0000	.0944	-.3286	-.2206	-.2250	-.2118							
		180.0000	.2275	-.2592	.0670	.0190	-.1207							
270.0000	.1080	-.2120	.1114	.1524	.0128									
ALPHA (3) = 3.936	BETA (1) = -0.006	X/L	.700	.811	.923	.945	.968							
		PHI	.0000	.1495	.0000	-.0288	-.0304	-.1681						
		90.0000	.1115	-.3411	-.2388	-.2154	-.2618							
		180.0000	.2604	-.2176	.2076	.0888	-.1070							
270.0000	.1570	-.1863	.1927	.2270	.0578									

DATE 01 MAY 74

TABULATED SOURCE PRESSURE DATA - 1A19 (ARC 11-014)

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ARC11-0141A19 OTS

SRB-NOM MPS-OFF SRB BODY

(REUSS4) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-1B = 6.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.100
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.149	BETA (1) = .000	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.3340	.0000	.0135	-.0060	-.1048
		90.000	.2909	-.4447	-.1499	-.1861	-.1861
		180.000	.3021	-.5433	.2387	.1903	.0486
		270.000	.2527	-.3700	.1306	.2560	.1927
ALPHA (2) = -3.15	BETA (1) = -4.003	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.2713	.0000	.0970	.1449	.0698
		90.000	.2572	-.3799	-.1659	-.1885	-.1938
		180.000	.2912	-.4339	.1731	.0810	-.0561
		270.000	.2832	-.3832	.1171	.1495	.0903
ALPHA (2) = -3.27	BETA (2) = .006	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.3295	.0000	.1124	.1447	.0709
		90.000	.2701	-.3697	-.1034	-.1285	-.1447
		180.000	.3776	-.5075	.2417	.1896	.0451
		270.000	.3417	-.3308	.1662	.2642	.1994
ALPHA (2) = -2.88	BETA (3) = 4.016	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.3878	.0000	.0745	.1177	.0523
		90.000	.3408	-.4057	-.1680	-.1002	-.1421
		180.000	.4298	-.5090	.2949	.2236	.0593
		270.000	.3977	-.3077	.2107	.3085	.2387
ALPHA (3) = 3.915	BETA (1) = -.003	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.3031	.0000	.1549	.1888	.1111
		90.000	.1937	-.3809	-.1367	-.1415	-.1508
		180.000	.4194	-.5629	.2424	.2261	.0729
		270.000	.3599	-.2920	.1319	.1373	.0622

ARC11-014IA19 OTS

SRB-NOM MPS-OFF SRB BODY

(REUS55) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -3.981	BETA (1) = .000	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1787	.0000	.0555	.0775	.0450
		90.000	.1763	-.3018	-.0807	-.1032	-.1139
		180.000	.3022	-.5238	.2388	.2604	.1762
		270.000	.0714	-.2573	.1224	.2279	.2288
ALPHA (2) = -3.369	BETA (1) = -4.000	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2107	.0000	.1527	.2348	.2357
		90.000	.1859	-.3027	-.1252	-.1138	-.1199
		180.000	-.2691	-.3200	.1880	.1263	.0282
		270.000	.1667	-.2309	.1888	.3169	.2392
ALPHA (2) = -3.309	BETA (2) = .012	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2616	.0000	.1888	.2105	.1828
		90.000	.1921	-.2901	-.0507	-.0735	-.0709
		180.000	.4315	-.4676	.2499	.2589	.1549
		270.000	.2490	-.1919	.2012	.2894	.2575
ALPHA (2) = -3.300	BETA (3) = 4.022	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3469	.0000	.1255	.1202	.1165
		90.000	.2763	-.2980	-.0951	-.0792	-.0761
		180.000	.5476	-.4841	.2492	.2855	.1723
		270.000	.4452	-.1778	.2206	.3017	.2811
ALPHA (3) = 3.966	BETA (1) = .003	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3403	.0000	.2169	.2659	.2149
		90.000	.1728	-.2822	-.0372	-.0464	-.0468
		180.000	.5053	-.4179	.2289	.2633	.1552
		270.000	.4031	-.1685	.1448	.1379	.0858



ARC11-014JA19 OTS

SRB-NOM MPS-OFF SRB BODY

(REUS56) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.071	BETA (1) = .000	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1677	.0000	.0271	.0951	.0913
		90.000	.2158	-.2253	-.1054	-.0973	-.0708
		180.000	.3341	-.4075	.1774	.3204	.2790
		270.000	.1063	-.2853	.0312	.1371	.1731
ALPHA (2) = -.294	BETA (1) = -4.000	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1409	.0000	.1771	.2381	.2601
		90.000	.0409	-.2254	-.0724	-.0569	-.0304
		180.000	.2883	-.3623	.2722	.2452	.1779
		270.000	.1066	-.2518	.1228	.1654	.1411
ALPHA (2) = -.375	BETA (2) = .000	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1947	.0000	.1572	.2202	.2483
		90.000	.0893	-.2265	-.0462	-.0535	-.0170
		180.000	.4320	-.3979	.1824	.3138	.2808
		270.000	.1794	-.2077	.1689	.2473	.2512
ALPHA (2) = -.423	BETA (3) = 4.028	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2545	.0000	.1969	.1837	.1868
		90.000	.2076	-.2293	-.0203	-.0874	-.0184
		180.000	.5254	-.3627	.1601	.2632	.2455
		270.000	.3005	-.1363	.2306	.3199	.3381
ALPHA (3) = 3.834	BETA (1) = -.003	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1925	.0000	.2312	.2782	.3096
		90.000	-.1110	-.2184	.0196	.0374	.0248
		180.000	.4718	-.3978	.1876	.2496	.1899
		270.000	.2424	-.0063	.2091	.2099	.1620

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ARC11-014IA19 QTS+STRUT SRB-NOM+MPS-NOM+SRB BODY

(REUS97) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.497 BETA (1) = .003	X/L	.700	.811	.923	.945	.968
	FHI					
	.000	.1807	.0000	.0366	.0618	.0181
	90.000	.1933	-.3036	-.1032	-.1170	-.1241
	180.000	.2772	-.5232	.2290	.2290	.1786
	270.000	.0420	-.2439	.1206	.2290	.2460
ALPHA (2) = -.339 BETA (1) = -3.997	X/L	.700	.811	.923	.945	.968
	FHI					
	.000	.2101	.0000	.2069	.2933	.2667
	90.000	.2523	-.2973	-.1643	-.1593	-.1798
	180.000	.2773	-.3298	.1161	.0674	.0031
	270.000	.1684	-.1913	.2093	.1989	.1689
ALPHA (2) = -.465 BETA (2) = .019	X/L	.700	.811	.923	.945	.968
	FHI					
	.000	.2707	.0000	.1838	.2240	.1899
	90.000	.2381	-.2863	-.0648	-.0898	-.0931
	180.000	.4295	-.4542	.2340	.2339	.1546
	270.000	.2769	-.1755	.1926	.2721	.2575
ALPHA (2) = -.435 BETA (3) = 4.031	X/L	.700	.811	.923	.945	.968
	FHI					
	.000	.3477	.0000	.1299	.1134	.0994
	90.000	.1950	-.2834	-.0913	-.0942	-.0812
	180.000	.5486	-.4889	.2612	.2769	.1995
	270.000	.4234	-.1709	.2069	.2730	.2666
ALPHA (3) = 3.636 BETA (1) = .003	X/L	.700	.811	.923	.945	.968
	FHI					
	.000	.3381	.0000	.2209	.2624	.2111
	90.000	.2060	-.2817	-.0380	-.0573	-.0557
	180.000	.4900	-.4441	.2262	.2460	.1647
	270.000	.3960	-.1633	.1545	.1452	.1055

DATE 01 MAY 75

TABLATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-LCW MPS-NOM SRB BODY

(REUS58) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT, XMRP = 976.0000 IN. XT
 LREF = 1290.3000 IN. YMRP = .0000 IN. YT
 BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.400
 GIMBAL = 1.000

SECTION (1)SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.155 BETA (1) = .000

X/L	.700	.811	.923	.945	.968
PHI					
.000	.1647	.0000	.0076	.0807	.0731
90.000	.2297	-.2478	-.1226	-.1129	-.1063
180.000	.3046	-.4174	.1551	.2850	.2691
270.000	.0787	-.2479	.0270	.1450	.1922

ALPHA (2) = -.342 BETA (1) = 4.028

X/L	.700	.811	.923	.945	.968
PHI					
.000	.2646	.0000	.1472	.1445	.1618
90.000	-.0274	-.2545	-.0324	-.0745	-.0501
180.000	.5555	-.3717	.1478	.2591	.2631
270.000	.2865	-.1284	.2127	.3117	.3388

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 OTS+STRUT SRB-NOM MPS-OFF SRB BODY

(REUS59) (22 OCT 74)

REFERENCE DATA

SPREF * 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF * 1290.3000 IN. YMRP = .0000 IN. YT
 BREF * 1290.3000 IN. ZMRP = 400.0000 IN. ZT
 SCALE * .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-CB = 4.000
 RUDDER = .000 MACH = 1.250
 GIMBAL = 1.000

SECTION / 1)SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.080	BETA (1) = .012	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.1770	.0000	.0384	.0640	.0356
		90.000	.1950	-.3065	-.0923	-.1103	-.1147
		180.000	.2813	-.5241	.2325	.2514	.2003
		270.000	.0520	-.2403	.1227	.2278	.2476
ALPHA (2) = -3.375	BETA (1) = .012	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.2708	.0000	.1097	.2241	.1981
		90.000	.2185	-.2886	-.0542	-.0768	-.0753
		180.000	.4265	-.4617	.2384	.2591	.1863
		270.000	.2583	-.1600	.2020	.2867	.2702
ALPHA (2) = -.333	BETA (2) = 4.031	X/L	.700	.811	.923	.945	.968
		PHI					
		.000	.3417	.0000	.1200	.1031	.0938
		90.000	.1759	-.2943	-.0912	-.0976	-.0835
		180.000	.5425	-.4933	.2495	.2902	.2145
		270.000	.4190	-.1702	.2033	.2771	.2750

DATE 01 MAY 75

TABULATED SOURCE PRESSURE DATA - IA19 (ARC 11-014)

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ARC11-014IA19 QTS+STRUT SRB-HI HPS-NOM SRB BODY

(REUSED) (22 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 IN. YMRP = .0000 IN. YT
BREF = 1290.3000 IN. ZMRP = 400.0000 IN. ZT
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 0.000 ELV-CB = 4.000
RUDDER = .000 MACH = 1.250
GIMBAL = 1.000

SECTION (1) SRB BODY

DEPENDENT VARIABLE CP

ALPHA (1) = -4.122	BETA (1) = .012	X/L	.700	.811	.923	.945	.968
		FHI					
		.000	.1833	.0000	.0690	.0896	.0512
		90.000	.1936	-.2498	-.1110	-.1027	-.0917
		180.000	.2846	-.4664	.2487	.2311	.1875
		270.000	.0540	-.2290	.1263	.2230	.2355