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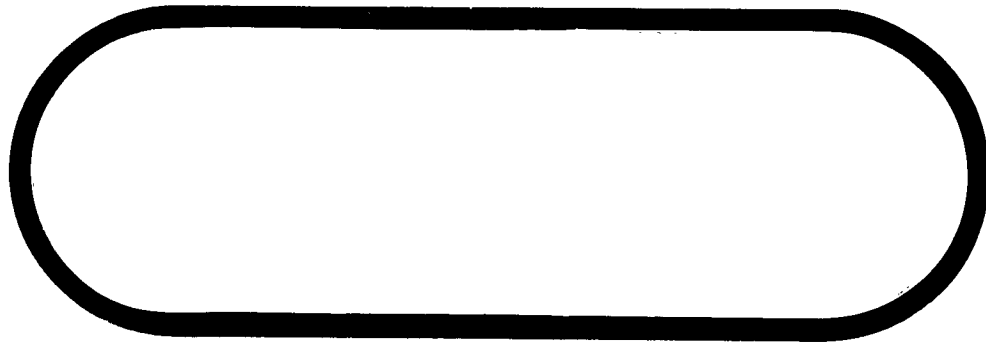
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WING II COMPONENTS FOR MISSILE 688-738

MODEL NO. WS-133A CONTRACT NO. AFO4(694)-46

ISSUE NO. 11 ISSUED TO Astia

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SUMMARY

This report contains mass property summaries of the Boeing components for a series of Operational Wing II Minuteman missiles. The serialized components included in the data for each missile are those committed to that particular missile during the course of production in Seattle and may not be the ones finally installed during assembly at Air Force Plant 77.

1.0 INTRODUCTION

1.1 REFERENCES

- 1.1.1 ESD Exhibit 62-45, "Mass Properties Control data for WS-133A", Dated 3 August 1962.
- 1.1.2 CCH 258 (ESD-63MCN-2597) to AFO4(647)-580 dated 5 October 1962.
- 1.1.3 Boeing Document D2-13943-2, "Flight Article Mass Properties Report for CTLI Installations."
- 1.1.4 Boeing Document D2-13944-501, "Flight Article Mass Properties Report for Missile 501 Components."
- 1.1.5 Boeing Document D2-13956-1 "Statistical Means and Dispersions for the Mass Properties of Boeing Components for the Wing II Operational Minuteman Missile - March 1, 1963."
- 1.1.6 Boeing Document D2-13947-xxx "Air Force Plant 77 Flight Article Mass Properties Report for Missile xxx."

1.2 COMPONENT SERIAL NUMBERS

Component serial numbers appear on the data summary sheet for each missile. See pages 11 through 46.

1.3 DISCUSSION

This weight report for the Boeing components of a series of Operational Wing II Minuteman missiles is presented in accordance with section 3.1.1 of ESD Exhibit 62-45 (reference 1.1.1) as authorized by CCH 258 to AFO4(647)-580 (reference 1.1.2). Since the data are to be reported monthly, this report contains data for a series of Wing II missiles whose components were manufactured recently. The report includes actual mass properties for the major components assigned to each missile in the manufacturing records at Seattle. (These may not be the same components finally assembled together at Air Force Plant 77. See reference 1.1.6 for the final configuration). Mean mass properties are used for components other than the interstages, aft skirt, and base heat deflectors since the weights for these remaining items are small. Mean and dispersion back-up data for these items can be found in the latest quarterly means and dispersions report (reference 1.1.5).

The data presented in this report consist of (1) sectional summaries of the total Boeing weight responsibility for each missile covered by this report, (2) a sectional summary of the components whose mean weights are used in lieu of actual weights, (3) summary check lists by missile section, (4) a list of Engineering Change Proposals incorporated on the hardware included in this report, and (5) actual weighing records for the interstages, the aft skirt, and the base heat deflectors.

The actual weighing records for the major components covered by this report can be found in section 6 (pages 49 through 162). In order to limit the size of this report, weighing diagrams and inventory lists have been omitted for all but the first unit of each interstage and skirt since the components have all been weighed in the "complete" condition. However, these records are on file and can be supplied if necessary. The change records found in section 6 are listed in order by serial number for each major component in order to assist in cross referencing the components in case of substitution at a later date.

1.4 CTLI PROVISIONS

The only CTLI provisions incorporated into this report are those components which are installed on every operational missile. The mass properties data for CTLI components which will be added at Vandenberg Air Force Base are reported in reference 1.1.3.

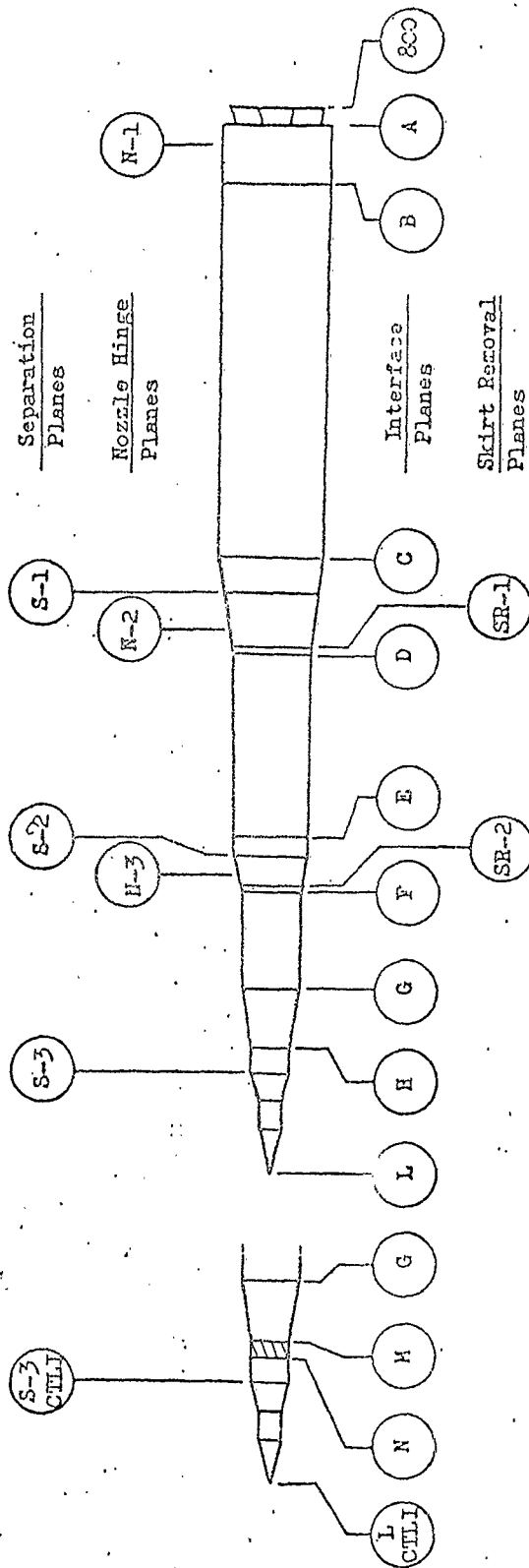
1.5 WEIGHING PROCEDURES

A description of the weighing procedures and an accuracy statement will be found in reference 1.1.4.

1.6 ENGINEERING CHANGE PROPOSAL (ECP) SUMMARY

See page 48 for a list of the ECP's incorporated on the Boeing components covered by this report. The ECP's listed are those not covered by the latest revision to "Model Specification for Guided Missile Main Assemblage (S-133-1000-0-1)" dated 15 March 1963.

WING II OPERATIONAL AND CTLI MISSILE STATION DIAGRAM



These Missile Stations become 50,000 when converted to Boeing Section Stations.

SEPARATION PLANES	MISSILE STA	INTERFACE PLANES	MISSILE STA
S-1	501.66	A	784.24
S-2	342.93	B	748.24
S-3	210.55	C	525.60
S-3 CTLI	200.53	D	466.52
		E	357.58
SKIRT REMOVAL PLANES		F	319.23
SR-1	466.97	G	257.45
SR-2	319.74	H	225.95
		L	129.48
NOZZLE HINGE PLANES			
N-1	770.03	M	225.95
N-2	477.32	N	215.95
N-3	327.33	L CTLI	119.46

Reference

STL Release 9862.6-513

(17 December 1962)

3.1 MISSILE NO. 688 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000213					REPORT NO. _____ DATE _____					
LINE	SEC.	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	CSC Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.47	97.08	106.58	111.57	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3			119.54	59.96	100.30	101.53	.010	.006
15		(Fwd)	Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21			Jett	86.90		61.94	99.18	100.72	.008	.005
22	45	Interstage 2-3			63.64	80.64	99.30	101.39	.006	.003
23		(Aft)	Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.40	145.47	105.91	110.29	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2			244.92	63.01	99.71	101.36	.032	.022
30		(Fwd)	Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	200.15		69.65	98.85	100.76	.028	.018
37	47	Interstage 1-2			130.13	96.61	100.70	99.76	.024	.014
38		(Aft)	Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			63.75	224.60	110.21	117.33	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			286.67	68.50	100.99	101.04	.064	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48		MISSILE			960.54					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	287.05						

* Boeing Section Stations (See Missile Station Diagram)
2-5550-0-58

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3.2 MISSILE NO. 690 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000207						REPORT NO. _____ DATE _____				
LINE	SEC.	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.60	97.33	106.53	111.49	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3			120.05	59.74	100.14	101.48	.010	.006
15		(Fwd)	Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21			Jett	87.41		61.62	98.97	100.64	.008	.005
22	45	Interstage 2-3			63.98	80.64	99.30	101.39	.006	.003
23		(Aft)	Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.55	145.68	105.88	110.24	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2			243.06	67.59	99.44	101.61	.032	.022
30		(Fwd)	Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	198.29		69.15	98.51	101.05	.028	.018
37	47	Interstage 1-2			129.04	96.61	100.76	99.76	.024	.014
38		(Aft)	Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			63.35	224.01	110.28	117.44	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			289.17	68.38	100.84	101.01	.064	.039
45			Silo	17.57		63.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		62.10	101.70	102.76	.007	.006
48		MISSILE			960.82					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	285.70						

* Boeing Section Stations (See Missile Station Diagram)
2-5550-0-58

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3.3 MISSILE NO. 693 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000214						REPORT NO. _____ DATE _____				
LINE	SEC.	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.68	97.48	106.50	111.44	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3			119.27	60.08	100.28	101.39	.010	.006
15		(Fwd)	Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21			Jett	86.63		62.11	99.15	100.52	.008	.005
22	45	Interstage 2-3			63.46	80.64	99.30	101.39	.006	.003
23		(Aft)	Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.25	145.25	105.94	110.38	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2			245.33	67.53	99.68	101.47	.032	.022
30		(Fwd)	Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	200.56		69.06	98.81	100.50	.028	.018
37	47	Interstage 1-2			130.37	96.61	100.76	99.76	.024	.014
38		(Aft)	Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			63.26	223.07	110.29	117.46	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			287.22	68.34	100.74	101.11	.064	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48		MISSILE			960.86					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	287.19						

* Boeing Section Stations (See Missile Station Diagram)
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3.4 MISSILE NO. 695 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000356						REPORT NO. _____ DATE _____				
LINE	SEC.	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.60	97.33	106.53	111.49	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3			120.23	59.96	100.23	101.42	.010	.006
15		(Fwd)	Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21			Jett	87.59		61.93	99.10	100.57	.008	.005
22	45	Interstage 2-3			64.10	80.64	99.30	101.39	.006	.003
23		(Aft)	Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.49	145.60	105.90	110.26	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2			245.05	67.53	99.59	101.55	.032	.022
30		(Fwd)	Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	200.28		69.06	98.70	100.99	.028	.018
37	47	Interstage 1-2			130.20	95.61	100.76	99.76	.024	.014
38		(Aft)	Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			63.53	244.23	110.25	117.39	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			267.02	63.43	100.85	101.06	.064	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48		MISSILE			962.24					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	287.87						

* Boeing Section Stations (See Missile Station Diagram)
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3.5 MISSILE NO. 697 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000208						REPORT NO. _____ DATE _____				
LINE	SEC.	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	GTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.62	97.37	106.53	111.48	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3			119.72	59.90	100.15	101.55	.010	.006
15		(Fwd)	Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21			Jett	87.08		61.86	98.97	100.74	.008	.005
22	45	Interstage 2-3			63.76	65.64	99.30	101.39	.006	.003
23		(Aft)	Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.29	145.31	105.93	110.32	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2			244.95	67.43	99.55	101.63	.032	.022
30		(Fwd)	Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	200.18		68.94	98.66	101.09	.028	.018
37	47	Interstage 1-2			130.15	96.61	100.76	99.76	.024	.014
38		(Aft)	Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			63.26	223.87	110.27	117.46	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			230.62	68.31	100.82	101.29	.064	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48		MISSILE			54.39					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	287.26						

* Boeing Section Stations (See Missile Station Diagram)
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3.6 MISSILE NO. 700 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000215					REPORT NO. _____ DATE _____					
LINE	SEC.	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.62	97.37	106.53	111.48	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3			119.63	59.80	100.27	101.48	.010	.006
15		(Fwd)	Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21			Jett	86.99		61.72	99.15	100.65	.008	.005
22	45	Interstage 2-3			63.70	80.64	99.30	101.39	.006	.003
23		(Aft)	Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.45	145.54	105.90	110.27	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2			244.54	67.62	99.58	101.47	.032	.022
30		(Fwd)	Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	199.77		69.18	98.69	100.89	.028	.018
37	47	Interstage 1-2			129.91	96.61	100.76	99.76	.024	.014
38		(Aft)	Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			63.53	224.28	110.25	117.39	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			288.47	68.54	100.75	101.15	.064	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.78	.009	.006
48		MISSILE			961.87					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	286.76						

* Boeing Section Stations (See Missile Station Diagram)
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3.7 MISSILE NO. 702 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000209					REPORT NO. _____ DATE _____					
LINE	SEC.	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.61	97.35	106.53	111.49	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3			120.08	59.83	100.32	101.43	.010	.006
15		(Fwd)	Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21			Jett	87.44		61.75	99.22	100.59	.008	.005
22	45	Interstage 2-3			64.00	80.64	99.30	101.39	.006	.003
23		(Aft)	Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.39	145.45	105.91	110.29	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2			244.10	67.70	99.38	101.55	.032	.022
30		(Fwd)	Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	199.2		69.28	98.44	100.98	.028	.018
37	47	Interstage 1-2			129.65	96.61	100.76	99.76	.024	.014
38		(Aft)	Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			63.22	223.81	110.30	117.47	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			288.42	68.37	100.70	101.08	.064	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48		MISSILE			961.49					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	286.77						

* Boeing Section Stations (See Missile Station Diagram)
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3.8 MISSILE NO. 704 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000216						REPORT NO. _____ DATE _____				
LINE	SEC.	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.54	97.21	106.55	111.53	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3			120.14	59.94	100.24	101.48	.010	.006
15		(Fwd)	Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21			Jett	87.50		61.90	99.11	100.64	.008	.005
22	45	Interstage 2-3			64.04	80.64	99.30	101.39	.006	.003
23		(Aft)	Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.68	145.87	105.86	110.20	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2			242.34	67.53	99.33	101.57	.032	.022
30		(Fwd)	Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	197.57		69.08	98.37	101.00	.028	.018
37	47	Interstage 1-2			128.61	95.61	100.76	99.76	.024	.014
38		(Aft)	Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			63.64	224.44	110.23	117.36	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			286.97	68.55	100.73	101.10	.064	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48		MISSILE			957.98					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	285.07						

* Boeing Section Stations (See Missile Station Diagram)
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3.9 MISSILE NO. 706 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000232						REPORT NO. _____ DATE _____				
LINE	S/N	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G2C Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.60	97.33	106.53	111.49	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3			119.66	59.87	100.32	101.48	.010	.006
15		(Fwd)	Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21			Jett	87.02		61.51	99.21	100.65	.008	.005
22	45	Interstage 2-3			63.72	80.64	99.30	101.39	.006	.003
23		(Aft)	Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.50	145.61	105.89	110.25	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2			241.83	67.46	99.54	101.53	.032	.022
30		(Fwd)	Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	197.06		69.00	98.63	100.96	.038	.018
37	47	Interstage 1-2			128.32	96.61	100.76	99.76	.024	.014
38		(Aft)	Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			63.65	224.45	110.23	117.35	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			287.82	68.60	100.61	100.99	.064	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48		MISSILE			957.12					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	204.08						

* Boeing Section Stations (See Missile Station Diagram)
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3.10 MISSILE NO. 707 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000210						REPORT NO. _____ DATE _____				
LINE	SEC.	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
			Aero							
		G&C Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.61	97.35	106.53	111.49	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3			119.39	59.87	100.27	101.47	.010	.006
15		(Fwd)	Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21			Jett	86.75		61.82	99.13	100.64	.008	.005
22	45	Interstage 2-3			63.54	80.64	99.30	101.39	.006	.003
23		(Aft)	Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.53	145.65	105.89	110.24	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2			243.82	67.52	99.61	101.58	.032	.028
30		(Fwd)	Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	199.05		69.06	98.72	101.02	.028	.018
37	47	Interstage 1-2			129.48	95.61	100.76	99.76	.024	.014
38		(Aft)	Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			63.60	224.38	110.24	117.37	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			289.47	68.57	100.89	100.98	.064	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48		MISSILE			961.46					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	235.89						

* Boicing Section Stations (See Missile Station Diagram)
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3.11 MISSILE NO. 709 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000217						REPORT NO. _____ DATE _____				
LINE	SEC.	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² X10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	CG Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.54	97.21	106.55	111.53	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3			119.15	59.86	100.18	103.50	.010	.006
15		(Fwd)	Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21			Jett	86.51		61.81	99.00	100.67	.008	.005
22	45	Interstage 2-3			63.38	80.64	99.30	101.39	.006	.003
23		(Aft)	Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.52	145.64	105.89	110.25	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2			243.28	67.49	99.53	101.53	.032	.022
30		(Fwd)	Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	198.51		69.03	98.62	100.97	.028	.018
37	47	Interstage 1-2			129.17	96.61	100.75	97.76	.024	.014
38		(Aft)	Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			63.94	224.88	110.18	117.26	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			289.17	68.42	100.64	101.25	.064	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48		MISSILE			960.17					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	285.02						

* Boicing Section Stations (See Missile Station Diagram)
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3.12 MISSILE NO. 711 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000221					REPORT NO. _____ DATE _____					
LINE	SEC.	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.60	97.33	106.53	111.49	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3 (Fwd)			119.12	59.76	100.25	101.48	.010	.006
15			Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21			Jett	86.48		61.68	99.11	100.65	.008	.005
22	45	Interstage 2-3 (Aft)			63.36	80.64	99.30	101.39	.006	.003
23			Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.56	145.70	105.88	110.23	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2 (Fwd)			243.00	67.54	99.74	101.50	.032	.022
30			Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	198.23		69.03	98.88	100.93	.028	.018
37	47	Interstage 1-2 (Aft)			129.00	96.61	100.75	101.76	.024	.014
38			Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			63.51	224.25	110.25	117.39	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			290.47	68.41	100.74	101.00	.064	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48		MISSILE			960.64					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	234.71						

* Boeing Section Stations (See Missile Station Diagram)
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3.13 MISSILE NO. 712 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000218						REPORT NO. _____ DATE _____				
LINE	SEC.	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.70	97.52	106.50	111.43	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3			119.63	59.82	100.15	101.51	.010	.006
15		(Fwd)	Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21			Jett	86.99		61.75	98.98	100.68	.008	.005
22	45	Interstage 2-3			63.70	80.64	99.30	101.39	.006	.003
23		(Aft)	Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.44	145.52	105.90	110.27	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2			243.12	67.57	99.48	101.45	.032	.022
30		(Fwd)	Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	198.35		69.12	98.56	100.86	.023	.018
37	47	Interstage 1-2			129.08	96.61	100.73	99.76	.024	.014
38		(Aft)	Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			62.96	223.42	110.34	117.54	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			290.82	68.40	110.87	101.05	.064	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48		MISSILE			961.47					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	285.34						

* Boeing Section Stations (See Missile Station Diagram)
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MISSILE NO. 714 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000222					REPORT NO. _____ DATE _____				
STATION	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² X10-3	
					LONG.*	LAT.	VERT.	ROLL	PITCH
1	RV Spacer								
2		Silo							
3		Aero							
4	CGI Section								
5		Silo							
6		Aero							
7	CGI Section			1.02	80.94	100.00	100.00	0	0
8		Silo							
9		Aero							
10	3rd Stage Engine			18.67	97.46	106.51	111.45	0	.003
11		Silo	.43		94.95	110.30	117.70	0	0
12		Aero	.80		94.95	110.30	117.70	0	0
13		Base	.20		131.00	100.00	100.00	0	0
14	Interstage 2-3			119.65	59.98	100.25	101.43	.010	.006
15	(Fwd)	Silo							
16		Aero							
17		Base	2.81		57.33	107.51	108.65	0	0
18		Silo	1.92		61.11	101.01	101.74	0	0
19	Jettisoned Portion	Aero	3.40		61.59	100.27	100.47	0	0
20		Base							
21		Jett	85.42		61.93	99.11	100.77	.038	.005
22	Interstage 2-3			63.32	82.04	92.39	101.39	.006	.003
23	(Aft)	Silo	1.18		80.97	100.50	100.84	0	0
24		Aero	1.18		82.00	103.07	105.23	0	0
25	2nd Stage Engine			52.58	124.43	105.83	110.23	.001	.018
26		Silo	.63		99.62	112.30	121.20	0	0
27		Aero	.53		99.62	112.30	121.30	0	0
28		Base	1.00		189.25	100.00	100.00	0	0
29	Interstage 1-2			123.47	87.75	99.34	101.40	.032	.002
30	(Fwd)	Silo							
31		Aero							
32		Base	3.10		64.06	112.35	115.53	0	0
33		Silo	4.21		66.61	100.32	100.55	.001	0
34	Jettisoned Portion	Aero	7.56		66.87	100.10	100.17	.001	.002
35		Base	5.40		67.09	100.27	100.76	.001	0
36		Jett	109.70		67.10	99.34	101.63	.036	.018
37	Interstage 1-2			122.22	87.75	99.34	101.40	.032	.002
38	(Aft)	Silo	3.37		90.69	100.34	100.59	.001	0
39		Aero	3.41		97.71	101.98	103.41	.001	0
40	1st Stage Engine			63.16	223.72	110.31	117.49	.004	.115
41		Silo	2.89		190.41	111.84	120.45	0	.002
42		Aero	1.04		136.60	117.20	129.70	0	.001
43		Base	4.80		309.40	100.00	100.00	0	0
44	Skirt			289.17	68.45	100.75	101.14	.064	.039
45		Silo	17.57		68.02	100.35	100.60	.004	.002
46		Aero	3.33		67.80	100.64	101.12	.001	0
47		Base	40.60		69.10	101.70	102.76	.009	.008
48	MISSILE			959.73					
49		Silo	32.20						
50		Aero	21.25						
51		Base	58.71						
52		Jett	235.12						

* Boeing Section Stations (See Missile Station Diagram)
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3.15 MISSILE NO. 716 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000219						REPORT NO. _____ DATE _____				
LINE	SEC.	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	40	2nd Stage Engine			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.60	97.33	106.53	111.49	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3			119.12	59.81	100.28	101.46	.010	.006
15		(Fwd)	Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21			Jett	86.48		61.75	99.15	100.61	.008	.005
22	45	Interstage 2-3			63.36	80.64	99.30	101.39	.006	.003
23		(Aft)	Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.49	145.60	105.90	110.26	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2			243.79	67.69	99.54	101.56	.032	.022
30		(Fwd)	Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	199.02		69.27	98.63	100.99	.020	.018
37	47	Interstage 1-2			129.46	85.61	100.76	99.76	.024	.014
38		(Aft)	Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			63.39	224.67	110.27	117.43	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			291.47	68.48	100.81	101.07	.064	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48		MISSILE			952.70					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	285.50						

* Boicing Section Stations (See Missile Station Diagram)
2-5550-0-58

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3.16 MISSILE NO. 718 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000357						REPORT NO. _____ DATE _____				
LINE	SEC.	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.67	97.46	106.51	111.45	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3			119.18	59.69	100.27	101.48	.010	.006
15		(Fwd)	Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21			Jett	86.54		61.59	99.13	100.64	.008	.005
22	45	Interstage 2-3			63.40	80.64	99.30	101.39	.006	.003
23		(Aft)	Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.67	145.86	105.86	110.20	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2			243.25	67.41	99.72	101.47	.032	.022
30		(Fwd)	Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	198.48		68.93	98.86	100.89	.028	.018
37	47	Interstage 1-2			129.15	96.61	100.76	99.76	.024	.014
38		(Aft)	Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			63.55	224.31	110.24	117.38	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			288.57	68.49	100.84	101.07	.064	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48		MISSILE			959.46					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	285.02						

* Boeing Section Stations (See Missile Station Diagram)
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3.17 MISSILE NO. 719 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000223						REPORT NO. _____ DATE _____				
LINE	SEC.	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.69	97.50	106.50	111.44	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3 (Fwd)			119.36	59.91	100.36	101.60	.010	.006
15			Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21			Jett	86.72		61.83	99.15	100.68	.008	.005
22	45	Interstage 2-3 (Aft)			63.52	80.64	99.30	101.39	.006	.003
23			Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.45	145.54	105.90	110.27	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2 (Fwd)			243.82	67.49	99.46	101.51	.032	.022
30			Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	199.05		69.03	98.54	100.93	.028	.018
37	47	Interstage 1-2 (Aft)			129.48	95.61	100.75	97.71	.024	.014
38			Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			63.91	224.84	110.19	117.23	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			289.17	68.59	100.84	101.12	.064	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48		MISSILE			961.42					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	285.77						

* Boicing Section Stations (See Missile Station Diagram)
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3.13 MISSILE NO. 720 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000220						REPORT NO. _____ DATE _____				
LINE	SEC.	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.61	97.35	106.53	111.49	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3			119.33	59.78	100.27	101.48	.010	.006
15		(Fwd)	Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21			Jett	85.69		61.70	99.13	100.61	.008	.005
22	45	Interstage 2-3			63.50	80.64	99.30	101.39	.006	.003
23		(Aft)	Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.73	145.94	105.85	110.18	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2			243.76	67.60	99.66	101.50	.032	.022
30		(Fwd)	Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	198.99		69.16	98.79	100.92	.023	.018
37	47	Interstage 1-2			129.44	96.61	100.76	99.76	.024	.014
38		(Aft)	Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			63.45	224.16	110.26	117.41	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			288.87	68.42	100.62	101.24	.064	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48		MISSILE			960.71					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	285.68						

* Boeing Section Stations (See Missile Station Diagram)
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3.19 MISSILE NO. 721 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000224						REPORT NO. _____ DATE _____				
LINE	S/N	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.60	97.33	106.53	111.49	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3			119.51	59.80	100.27	101.36	.010	.006
15		(Fwd)	Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21			Jett	86.87		61.73	99.15	100.48	.008	.005
22	45	Interstage 2-3			63.62	80.64	99.30	101.39	.006	.003
23		(Aft)	Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.61	145.77	105.67	110.22	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2			243.46	67.51	99.58	101.50	.032	.022
30		(Fwd) **	Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	198.69		69.05	98.69	100.92	.28	.018
37	47	Interstage 1-2			129.27	96.61	100.76	99.76	.024	.014
38		(Aft) **	Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			63.61	224.59	100.23	117.37	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			290.37	68.49	100.93	101.03	.064	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48		MISSILE			962.07					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	235.56						

* Boeing Section Stations (See Missile Station Diagram)
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** Average weight of interstage used. *ESTIMATE*
Report will be revised to reflect actual weight
when data is available.

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2.20 MISSILE NO. 722 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000346						REPORT NO. _____ DATE _____				
LINE	SEC.	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² ×10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.71	97.54	106.49	111.43	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3			119.39	59.82	100.25	101.38	.010	.006
15		(Fwd)	Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21			Jett	85.75		61.75	99.11	100.51	.008	.005
22	45	Interstage 2-3			63.54	80.64	99.30	101.39	.006	.003
23		(Aft)	Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.49	145.60	105.90	110.26	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2			243.25	67.34	99.51	101.45	.032	.022
30		(Fwd)	Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	198.40		68.84	98.60	100.86	.028	.018
37	47	Interstage 1-2			129.15	95.61	100.76	99.76	.024	.014
38		(Aft)	Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			63.68	224.50	110.22	117.35	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			290.07	63.49	100.93	100.94	.064	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48		MISSILE			961.30					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	285.23						

* Boeing Section Stations (See Missile Station Diagram)
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3.21 MISSILE NO. 723 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000235						REPORT NO. _____ DATE _____				
LINE	S.S.	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.53	97.19	106.56	111.54	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3 (Fwd)			119.33	59.72	100.08	101.41	.010	.006
15			Silo							
16			Aero							
17			Base	2.61		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned Portion	Aero	3.40		61.59	100.27	100.47	0	0
20			Base							
21			Jett	86.69		61.61	98.88	100.54	.008	.005
22	45	Interstage 2-3 (Aft)			(3.50)	80.64	99.30	101.39	.006	.003
23			Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.59	145.74	105.83	110.23	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2 (Fwd)			244.35	67.59	99.68	101.52	.032	.022
30			Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned Portion	Aero	7.56		66.87	100.10	100.17	.001	.001
35			Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	192.58		67.14	98.81	100.95	.023	.018
37	47	Interstage 1-2 (Aft)			129.80	95.61	100.76	99.76	.024	.014
38			Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			63.56	224.32	110.24	117.38	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			290.02	65.49	101.03	101.01	.064	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48		MISSILE			962.70					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	205.27						

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MISSILE NO. 724 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000225						REPORT NO. _____ DATE _____				
LINE	SS	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G2C Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.55	97.23	106.55	111.52	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3 (Fwd)			119.27	59.72	100.22	101.39	.010	.006
15			Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21			Jett	85.63		61.61	99.08	100.52	.008	.005
22	45	Interstage 2-3 (Aft)			63.46	85.04	99.30	101.39	.006	.003
23			Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.44	115.52	105.90	110.27	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2 (Fwd)			243.94	67.63	99.65	101.40	.032	.022
30			Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	199.17		63.19	98.76	100.81	.023	.018
37	47	Interstage 1-2 (Aft)			129.55	95.61	100.75	99.76	.024	.014
38			Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			63.43	224.13	110.26	117.41	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			285.02	68.55	100.82	101.12	.064	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48		MISSILE			983.69					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	205.00						

* Boeing Section Stations (See Missile Station Diagram)
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3.23 MISSILE NO. 725 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000236						REPORT NO. _____ DATE _____				
LINE	S/N	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.73	97.58	106.49	111.41	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3			119.33	59.80	100.12	101.50	.010	.006
15		(Fwd)	Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21			Jett	86.69		61.73	98.94	100.66	.008	.005
22	45	Interstage 2-3			63.50	80.64	99.30	101.39	.006	.003
23		(Aft)	Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.53	145.65	105.89	110.24	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2			243.00	67.28	99.58	101.54	.032	.022
30		(Fwd)	Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	198.23		63.78	98.69	100.97	.028	.018
37	47	Interstage 1-2			129.00	95.61	100.76	97.76	.024	.014
38		(Aft)	Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			63.83	224.79	110.19	117.29	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			289.52	63.51	100.99	100.99	.064	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48		MISSILE			960.51					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	284.92						

* Boeing Section Stations (See Missile Station Diagram)
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3.24 MISSILE NO. 726 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000233						REPORT NO. _____ DATE _____				
LINE	SEC.	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.54	97.21	106.55	111.53	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3			118.79	59.69	100.14	101.32	.010	.006
15		(Fwd)	Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21			Jett	86.15		61.59	98.95	100.41	.008	.005
22	45	Interstage 2-3			63.14	80.64	99.30	101.39	.006	.003
23		(Aft)	Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.70	145.90	105.85	110.19	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2			243.25	67.45	99.62	101.43	.032	.022
30		(Fwd)	Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	198.48		68.98	98.73	100.84	.023	.018
37	47	Interstage 1-2			129.15	96.61	100.76	99.76	.024	.014
38		(Aft)	Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			63.41	224.10	110.27	117.42	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			289.67	63.44	100.97	101.05	.064	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48		MISSILE			959.67					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	224.63						

* Boeing Section Stations (See Missile Station Diagram)
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3.25 MISSILE NO. 727 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000226						REPORT NO. _____ DATE _____				
LINE	SEC.	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.70	97.52	106.50	111.43	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3			119.27	59.84	100.24	101.43	.010	.006
15		(Fwd)	Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21			Jett	86.63		61.78	99.09	100.57	.008	.005
22	45	Interstage 2-3			63.46	80.64	99.30	101.39	.006	.003
23		(Aft)	Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.66	145.04	105.86	110.20	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2			243.57	67.44	99.47	101.58	.032	.022
30		(Fwd)	Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	108.80		68.96	98.54	101.02	.028	.018
37	47	Interstage 1-2			129.33	96.61	100.76	99.76	.022	.014
38		(Aft)	Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			63.58	224.35	110.24	117.37	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			290.22	68.50	100.96	101.06	.064	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48		MISSILE			961.81					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	285.43						

* Boeing Section Stations (See Missile Station Diagram)
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3.25 MISSILE NO. 728 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000245						REPORT NO. _____ DATE _____				
LINE	S/N	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.#	LAT.	VERT.	ROLL	PITCH
1	41	RV Sparcar								
2			Silo							
3			Aero							
4	39	OTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.73	97.58	106.49	111.41	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3			119.39	59.82	100.12	101.55	.010	.006
15		(Fwd)	Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21			Jett	86.75		61.75	98.94	100.74	.008	.005
22	45	Interstage 2-3			63.54	80.64	99.30	101.39	.006	.003
23		(Aft)	Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			31.85	144.65	103.01	110.45	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2			243.63	87.18	99.57	101.55	.032	.022
30		(Fwd)	Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	108.83		68.64	98.67	100.99	.028	.018
37	47	Interstage 1-2			129.37	85.81	100.76	102.13	.024	.014
38		(Aft)	Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			63.12	223.65	110.31	117.50	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			289.27	63.44	100.73	101.17	.064	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48		MISSILE			959.92					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	255.61						

* Boeing Section Stations (See Missile Station Diagram)
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3.27 MISSILE NO. 729 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000237						REPORT NO. _____ DATE _____				
LINE	S/N	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	GFC Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.55	97.23	106.55	111.52	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3			119.00	59.81	100.18	101.42	.010	.006
15		(Fwd)	Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21			Jett	26.26		61.75	99.00	100.56	.008	.005
22	45	Interstage 2-3			63.23	80.64	99.30	101.30	.006	.003
23		(Aft)	Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.36	145.41	105.92	110.30	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2			243.38	67.28	99.38	101.56	.032	.022
30		(Fwd)	Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	108.61		68.76	88.44	101.60	.028	.018
37	47	Interstage 1-2			129.22	96.61	103.70	101.10	.024	.014
38		(Aft)	Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			63.88	224.70	110.19	117.20	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			286.02	68.51	100.84	100.15	.064	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48		MISSILE			956.71					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	204.97						

* Boeing Section Stations (See Missile Station Diagram)
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3.20 MISSILE NO. 730 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000246						REPORT NO. _____ DATE _____				
LINE	SEC.	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	40	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.53	97.29	106.54	111.51	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3			119.27	59.91	100.27	101.37	.010	.006
15		(Fwd)	Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21			Jett	85.63		61.88	99.13	100.48	.008	.005
22	45	Interstage 2-3			63.45	80.04	99.30	101.39	.006	.003
23		(Aft)	Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.39	105.45	105.91	110.29	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2			243.53	87.38	99.54	101.51	.032	.022
30		(Fwd)	Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	108.76		68.87	98.63	100.93	.021	.018
37	47	Interstage 1-2			29.32	98.01	100.70	101.70	.024	.014
38		(Aft)	Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			63.45	224.17	110.25	117.41	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			289.17	68.52	100.75	101.79	.064	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48		MISSILE			560.20					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	285.29						

* Boeing Section Stations (See Missile Station Diagram)
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MISSILE NO. 732 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N C000127					REPORT NO. _____ DATE _____					
LINE	S/N	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² :10-3	
						LONG.°	LAT.°	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G2C Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.69	97.50	105.50	111.04	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3			124.82	60.05	100.11	101.51	.010	.006
15		(Fwd)	Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettison Portion	Aero	3.40		61.59	100.27	100.47	0	0
20			Base							
21			Jett	1.56		62.04	98.67	102.61	.008	.005
22	45	Interstage 2-3			62.03	111.1	99.50	101.30	.025	.003
23		(Aft)	Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.50	105.04	105.09	110.25	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Base	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2			243.76	87.47	99.55	101.55	.032	.022
30		(Fwd)	Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettison Portion	Aero	7.56		66.87	100.10	100.17	.001	.001
35			Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	198.99		87.00	98.67	102.03	.028	.018
37	47	Interstage 1-2			120.44	87.01	100.45	101.70	.034	.014
38		(Aft)	Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.73	101.98	103.41	.001	0
40	48	1st Stage Engine			63.55	100.00	100.00	117.30	.004	.115
41			Silo	2.89		100.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			31.97	100.00	100.00	100.00	.064	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48		MISSILE			657.01					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	255.17						

* Boel Section Stations (See Missile Station Diagram)
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3.30 MISSILE NO. 733 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000247						REPORT NO. _____ DATE _____				
LINE	S/S	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10 ⁻³	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			10.58	97.29	106.54	111.51	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3 (Fwd)			119.09	59.73	100.09	101.45	.010	.006
15			Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21			Jett	66.45		61.63	98.83	100.61	.008	.005
22	45	Interstage 2-3 (Aft)			63.34	80.97	99.30	101.39	.006	.003
23			Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.49	145.60	105.90	110.26	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2 (Fwd)			243.47	67.39	99.36	101.53	.032	.022
30			Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	193.70		66.91	98.41	100.97	.003	.018
37	47	Interstage 1-2 (Aft)			29.28	95.61	100.73	97.75	.022	.014
38			Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine							.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			286.92	68.33	100.80	101.26	.064	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48		MISSILE			957.73					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	235.15						

* Boeing Section Stations (See Missile Station Diagram)
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3.31 MISSILE NO. 734 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000238					REPORT NO. _____ DATE _____					
LINE NO.	ITEM NO.	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x 10 ⁻³	
						LONG.°	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	2nd Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.61	97.35	106.53	111.49	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3 (Fwd)			119.76	59.78	100.13	101.49	.010	.006
15			Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned Portion	Aero	3.40		61.59	100.27	100.47	0	0
20			Base							
21			Jett	87.14		61.60	98.95	100.65	.008	.005
22	45	Interstage 2-3 (Aft)			63.80	80.64	99.30	101.39	.006	.003
23			Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.44	145.52	105.90	110.27	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2 (Fwd)			243.66	67.41	99.22	101.55	.032	.022
30			Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned Portion	Aero	7.56		66.87	100.10	100.17	.001	.001
35			Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	108.89		67.23	98.24	100.08	.008	.018
37	47	Interstage 1-2 (Aft)			129.39	96.61	100.73	99.76	.024	.014
38			Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			62.88	222.30	110.35	117.57	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			286.32	63.35	100.62	101.17	.064	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48		MISSILE			957.90					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	286.03						

* Boozing Section Stations (See Missile Station Diagram)
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3.32 MISSILE NO. 735 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000228					REPORT NO. _____ DATE _____					
LINE	SS	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.#	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G/C Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.52	97.17	106.56	111.54	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3			119.12	59.84	100.20	101.58	.010	.006
15		(Fwd)	Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21			Jett	86.48		61.80	99.04	100.77	.008	.005
22	45	Interstage 2-3			63.36	82.64	99.30	101.39	.006	.003
23		(Aft)	Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.57	105.71	105.83	110.23	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2			241.70	67.53	99.64	101.54	.032	.022
30		(Fwd)	Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	186.93		69.08	98.75	100.97	.028	.018
37	47	Interstage 1-2			126.25	86.01	100.76	99.76	.024	.014
38		(Aft)	Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			63.62	89.41	110.23	117.36	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			286.42	63.40	100.82	101.10	.064	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48	MISSILE				974.53					
49				32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	283.41						

* Boeing Section Stations (See Missile Station Diagram)
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3.53 MISSILE NO. 736 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000248						REPORT NO. _____ DATE _____				
LINE NO.	C/N	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² X10 ⁻³	
						LONG.#	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacar								
2		Silo								
3		Aero								
4	39	CTLI Section								
5		Silo								
6		Aero								
7	42	G&C Section			1.02	80.94	100.00	100.00	0	0
8		Silo								
9		Aero								
10	44	3rd Stage Engine			18.60	97.33	106.53	111.49	0	.003
11		Silo	.43			94.95	110.30	117.70	0	0
12		Aero	.80			94.95	110.30	117.70	0	0
13		Base	.20			131.00	100.00	100.00	0	0
14	45	Interstage 2-3			119.27	59.75	100.11	101.53	.010	.006
15		(Fwd)	Silo							
16		Aero								
17		Base	2.81			57.33	107.51	108.65	0	0
18		Silo	1.92			61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21		Jett	86.63			61.66	98.91	100.72	.008	.005
22	45	Interstage 2-3			63.46	52.64	99.30	101.39	.006	.003
23		(Aft)	Silo	1.18		80.97	100.50	100.84	0	0
24		Aero	1.18			82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.62	145.73	105.87	111.32	.001	.018
26		Silo	.63			99.62	112.30	121.20	0	0
27		Aero	.53			99.62	112.30	121.20	0	0
28		Base	1.80			189.25	100.00	100.00	0	0
29	47	Interstage 1-2			241.83	67.53	99.56	101.50	.032	.022
30		(Fwd)	Silo							
31		Aero								
32		Base	3.10			64.06	112.35	115.53	0	0
33		Silo	4.21			66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36		Jett	197.06			67.12	98.65	100.92	.008	.018
37	47	Interstage 1-2			128.32	66.81	100.75	99.76	.014	.014
38		(Aft)	Silo	3.37		96.69	100.34	100.59	.001	0
39		Aero	3.41			97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			63.00	92.43	110.33	117.53	.004	.115
41		Silo	2.89			190.41	111.84	120.45	0	.004
42		Aero	1.04			136.60	117.20	129.70	0	.001
43		Base	4.80			309.40	100.00	100.00	0	0
44	49	Skirt			205.62	64.41	100.90	101.02	.064	.039
45		Silo	17.57			68.02	100.35	100.60	.004	.002
46		Aero	3.33			67.80	100.64	101.12	.001	0
47		Base	40.60			69.10	101.70	102.76	.009	.006
48		MISSILE			954.74					
49		Silo	32.20							
50		Aero	21.25							
51		Base	58.71							
52		Jett	183.69							

* Boeing Section Stations (See Missile Station Diagram)
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3.34 MISSILE NO. 737 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0003229						REPORT NO. _____ DATE _____				
LINE	SEC	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² X10-3	
						LONG.#	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacar								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.60	97.33	106.53	111.49	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3 (Fwd)			118.79	59.85	100.19	101.51	.010	.006
15			Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21		Jett	Jett	86.15		51.81	99.01	100.68	.008	.005
22	45	Interstage 2-3 (Aft)			63.14	80.64	99.30	101.39	.006	.003
23			Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.47	145.57	105.90	110.25	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	42	Interstage 1-2 (Fwd)			242.97	67.15	99.72	101.65	.032	.022
30			Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36		Jett	Jett	198.20		60.61	98.86	101.11	.008	.018
37	42	Interstage 1-2 (Aft)			123.98	65.61	100.76	99.76	.024	.014
38			Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			63.35	324.01	110.23	117.84	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			286.97	68.32	100.84	101.05	.004	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48		MISSILE			956.29					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	294.25						

* Boeing Section Stations (See Missile Station Diagram)
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3.35 MISSILE NO. 738 WEIGHT AND BALANCE SUMMARY MAJOR COMPONENTS S/N 0000239						REPORT NO. _____ DATE _____				
ITEM NO.	QTY	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² X10-3	
						LONG.#	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section			1.02	80.94	100.00	100.00	0	0
8			Silo							
9			Aero							
10	44	3rd Stage Engine			18.61	97.35	106.53	111.49	0	.003
11			Silo	.43		94.95	110.30	117.70	0	0
12			Aero	.80		94.95	110.30	117.70	0	0
13			Base	.20		131.00	100.00	100.00	0	0
14	45	Interstage 2-3 (Fwd)			119.33	59.72	100.06	101.41	.010	.006
15			Silo							
16			Aero							
17			Base	2.81		57.33	107.51	108.65	0	0
18			Silo	1.92		61.11	101.01	101.74	0	0
19		Jettisoned	Aero	3.40		61.59	100.27	100.47	0	0
20		Portion	Base							
21			Jett	26.69		61.61	98.85	100.54	.008	.005
22	45	Interstage 2-3 (Aft)			63.50	80.64	99.30	101.39	.006	.003
23			Silo	1.18		80.97	100.50	100.84	0	0
24			Aero	1.18		82.00	103.07	105.23	0	0
25	46	2nd Stage Engine			32.58	145.73	105.83	110.23	.001	.018
26			Silo	.63		99.62	112.30	121.20	0	0
27			Aero	.53		99.62	112.30	121.20	0	0
28			Base	1.80		189.25	100.00	100.00	0	0
29	47	Interstage 1-2 (Fwd)			243.94	67.43	99.51	101.69	.032	.022
30			Silo							
31			Aero							
32			Base	3.10		64.06	112.35	115.53	0	0
33			Silo	4.21		66.61	100.32	100.55	.001	0
34		Jettisoned	Aero	7.56		66.87	100.10	100.17	.001	.001
35		Portion	Base	5.40		67.09	100.27	100.76	.001	0
36			Jett	199.17		69.01	98.60	101.16	.028	.018
37	47	Interstage 1-2 (Aft)			129.56	95.61	100.76	99.75	.004	.014
38			Silo	3.37		96.69	100.34	100.59	.001	0
39			Aero	3.41		97.71	101.98	103.41	.001	0
40	48	1st Stage Engine			63.87	224.70	110.19	117.29	.004	.115
41			Silo	2.89		190.41	111.84	120.45	0	.004
42			Aero	1.04		136.60	117.20	129.70	0	.001
43			Base	4.80		309.40	100.00	100.00	0	0
44	49	Skirt			286.47	68.46	100.88	101.02	.004	.039
45			Silo	17.57		68.02	100.35	100.60	.004	.002
46			Aero	3.33		67.80	100.64	101.12	.001	0
47			Base	40.60		69.10	101.70	102.76	.009	.006
48		MISSILE			958.88					
49			Silo	32.20						
50			Aero	21.25						
51			Base	58.71						
52			Jett	235.86						

* Boeing Section Stations (See Missile Station Diagram)
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3.36 WEIGHT AND BALANCE SUMMARY MEAN WEIGHT COMPONENTS** (APPLICABLE TO ALL MISSILES)						REPORT NO. _____ DATE _____				
LINE	SEC.	DESCRIPTION	DATA	EXPENDED WEIGHT (LB)	TOTAL WEIGHT (LB)	CENTER OF GRAVITY			INERTIA SLUG FT ² x10-3	
						LONG.*	LAT.	VERT.	ROLL	PITCH
1	41	RV Spacer								
2			Silo							
3			Aero							
4	39	CTLI Section								
5			Silo							
6			Aero							
7	42	G&C Section			1.02	80.94	100.00	100.00		
8			Silo							
9			Aero							
10	44	3rd Stage Engine			12.71	80.65	109.56	116.82		
11			Silo							
12			Aero							
13			Base							
14	45	Interstage 2-3			18.57	59.49	105.24	107.52		
15		(Fwd)	Silo							
16			Aero							
17			Base							
18			Silo							
19		Jettisoned	Aero							
20		Portion	Base							
21			Jett	7.68		61.44	100.06	103.80		
22	45	Interstage 2-3			7.61	80.79	98.29	96.54		
23		(Aft)	Silo							
24			Aero							
25	46	2nd Stage Engine			16.89	102.11	111.34	119.73		
26			Silo							
27			Aero							
28			Base							
29	47	Interstage 1-2			22.14	66.13	105.62	111.67		
30		(Fwd)	Silo							
31			Aero							
32			Base							
33			Silo							
34		Jettisoned	Aero							
35		Portion	Base							
36			Jett	9.35		68.33	96.79	109.60		
37	47	Interstage 1-2			8.56	91.01	100.68	97.51		
38		(Aft)	Silo							
39			Aero							
40	48	1st Stage Engine			38.09	161.19	117.09	129.00		
41			Silo							
42			Aero							
43			Base							
44	49	Skirt			14.47	62.87	106.84	110.70		
45			Silo							
46			Aero							
47			Base							
48		MISSILE			140.06					
49			Silo							
50			Aero							
51			Base							
52			Jett							

* Boeing Section Stations (See Missile Diagram)

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** See 2-5550-0-57 for details of
these items.

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5.0

ENGINEERING CHANGE PROPOSAL (ECP) INCORPORATION
APPLICABLE TO WING II MISSILES CCB-738

The following ECP's have not been incorporated into "Model Specification, Guided Missile Main Assemblage (S-133-1000-0-1)" dated 15 March 1963. However, the mass properties of these ECP's have been incorporated into this report unless otherwise noted. ECP's applicable to the CMLI components will be found in D2-13943-2, "Flight Article Mass Properties for CMLI Installations".

All changes incorporated in components at time of delivery to Plant 77 have been incorporated in the Model Specification.

REV SYM _____

~~SECRET~~	NO. D2-13946-5
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SERIAL NUMBER: 0000207				6.1.1 ACTUAL WEIGHT RECORD - INTERSTAGE 2-3				WING			
U/O MISSILE 600		DRAWING NO. 25-36103-1		CHECK LIST NO. 5		REPORT NO. OPR-2079					
MISSILE MODEL WS-133		DCN HGV		REPORTED BY TV/JH/HC		PAGE NO.					
CONFIGURATION TAH		ADCN J2		CHECKED BY GVR		DATE 3/28/63					

(FIGURE I)

LONGITUDINAL REFERENCE DATUM

(FIGURE II)

VERTICAL REFERENCE DATUM

WEIGHING DATA						DIMENSIONAL DATA					
REACTION	GR. WT.	TARE	CORR.	NET WT.	REACTION	GR. WT.	TARE	CORR.	NET WT.	DIM. INCHES	DIM. INCHES
R1	152.35	112.45		39.90	R5	103.50	46.45		57.05	A1	47.343
R2	65.25	23.80		41.45	R6	39.30	18.15		21.15	A2	47.354
R3	149.60	111.65		37.95	R7	108.70	46.05		62.55	B3	88.351
R4	62.05	23.50		38.55	R8	32.10	15.65		17.16	B4	88.351
TOTAL	429.25	271.40		157.85	TOTAL	284.15	126.30		157.85	C	50.000

LONGITUDINAL C.G.				LATERAL C.G.				VERTICAL C.G.			
REACTION	NET WT.	ARM	MOMENT	REACTION	NET WT.	ARM	MOMENT	REACTION	NET WT.	ARM	MOMENT
R1	39.90	47.343		R5	57.05	100.000		R5	57.05	72.500	
R2	41.45	47.354		R6	21.15	72.501		R6	21.15	100.000	
R3	37.95	88.351		R7	62.55	100.000		R7	62.55	127.498	
R4	38.55	88.351		R8	17.10	127.499		R8	17.10	103.690	
AS WGD	157.85	67.22	10,610.7	AS WGD	157.85	99.29	15,673.6	AS WGD	157.85	100.97	15,036.1

Fig "A" Number: 6501

Serial Number: 0000207

CHECK LIST NO. 5		6.1.1.1 MISSILE WEIGHING CHECK LIST		RECORD OF CHECKING (DATE)			
DATE		MODEL WS-133		Mo 3 Day 28 Yr 63			
		FINAL ASSEMBLY DRAWING NO. 21-50150					
SECTION	45	MISSILE NO. 690		COMPONENT			
MISSILE COMPONENT BODY SECTION GUIDED MISSILE COMPONENT PART NO. Noted				MISSILE			
ITEM NUMBER	DESCRIPTION	PART NO.	WEIGHT	X ARM	Y ARM	Z ARM	LAUNCH
	FORM SECTION ASSY	25-36103-1					AS WEIGHED
	Interstage Assy- Structural	25-36102-1					REMOTE SITE
	Cork Insulation Installation	25-37084-1					AS RECEIVED
	Instr Rack & Accelerometer	25-31659-4					SHIPMENT
	Marking Instl- Section 45	25-30134-28					
	Cover- Insulating	29-24652-2					
	Cover- Insulating	29-25598-1					
	Cover- Insulating (8)	29-23365-1					
	Cover- Insulating (8)	29-23365-2					
	Cover- Insulating (7)	29-23365-3					
	Cover- Insulating (4)	29-23365-4					
	Cover- Insulating	29-23365-5					
	Cover- Insulating	29-23365-6					
	Seal- Forward	29-23674-1					
	Door- Access, Ordnance	29-22373-3					
	Closure Panel- Access, Ordnance	29-22372-2					
	Door- Access, Ignitor Stage II	29-22361-4					
	Closure Panel- Access, Booster Skirt	29-22081-5					
	Door- Access, Detonator	26-11878-1					
	Door- Access, Ignitor Stage III	26-11885-4					
	Door- Access, CEM	26-12909-1					
	Plug- Screw, Insulated	26-15247-2					
	Sleeve	26-14713-1					
	Bolt - 1000 Head	PACB50E1-3-3					
	Bolt - 1000 Head	-3-4					
	Bolt - 1000 Head	(14)					
	Bolt - 1000 Head	(8)					
	Bolt - 1000 Head	(41)					
	Bolt - 1000 Head	(3)					

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6.1.1 WEIGHT AND BALANCE CHANGE RECORD												
ASSOCIATE CONTRACTOR		REPORT NO.		DATE		PREPARED		APPROVED				
COMPONENT		AF04(694)-046		3/28/63		H. CHRISTIANSEN		G. ROBERTS				
MODEL NO.		25-36103-1										
SERIAL NO.		690										
EQUIPMENT CHANGE RECORD												
PART NO.		DESCRIPTION OF EQUIPMENT		WEIGHT		X AXIS		Y AXIS		Z AXIS		
						ARM		ARM		ARM		
						MOMENT		MOMENT		MOMENT		
1												
2	25-36103-1	Body Section	Weighted	157.85	67.22	10,610.7	99.29	15,673.6	100.97	15,936.1		
3												
4												
5		ADD:		0								
6												
7												
8		DEDUCT:		0								
9												
10												
11	25-36103-1	Body Section	(Complete)	157.85	67.22	10,610.7	99.29	15,673.6	100.97	15,936.1		
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
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29												
30												
31												
32												

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6.1.2 WEIGHT AND BALANCE CHANGE RECORD													
ASSOCIATE CONTRACTOR REPORT		CONTRACT NO.		AF04(694)-046		REPORT NO.		OFR-2082					
COMPONENT		LOT NO.				DATE		4/2/63					
MODEL NO.		DRAWING NO.		25-36103-1		PREPARED		H. CHRISTIAN					
SERIAL NO.		U.O. MISSILE		697		APPROVED		G. ROELERS					

EQUIPMENT CHANGE RECORD			WEIGHT AND BALANCE						
LINE NO.	PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS	
				ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1									
2	25-36103-1	Body Section (As Weighed)	157.30	67.35	10,594.9	99.29	15,618.6	101.02	15,890.8
3									
4									
5		ADD:	0						
6									
7									
8		DEDUCT:	0						
9									
10									
11	25-36103-1	Body Section (Complete)	157.3	67.35	10,594.9	99.29	15,618.6	101.02	15,890.8
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
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26									
27									
28									
29									
30									
31									
32									

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6.1.3 WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR BOEING		CONTRACT NO. AF04(694)-046		REPORT NO. CFR-2084					
COMPONENT INTERSTAGE 2-3		LOT NO.		DATE 1/4/63					
MODEL NO. WS-133		DRAWING NO. 25-36103-1		PREPARED H. CHRISTENSEN					
SERIAL NO. 000009		U.O. MISSILE 702		APPROVED G. ROBERTS					
EQUIPMENT CHANGE RECORD		WEIGHT AND BALANCE							
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS		
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT	
1	25-36103-1 Body Section (As Weighted)	157.90	67.29	10,625.4	99.43	15,699.3	100.94	15,938.4	
2									
3									
4									
5	ADD:	0							
6									
7									
8	DEDUCT:	0							
9									
10									
11	25-36103-1 Body Section (Complete)	157.90	67.29	10,625.4	99.43	15,699.3	100.94	15,938.4	
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									

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6.1.4 WEIGHT AND BALANCE CHANGE RECORD													
ASSOCIATE CONTRACTOR BOEING		CONTRACT NO. AF04(694)-046		REPORT NO. OPR-2087									
COMPONENT INTERSTAGE 2-3		LOT NO.		DATE 4/10/63									
MODEL NO. WS-133		DRAWING NO. 25-36103-1		PREPARED H. CHRISTIANSEN									
SERIAL NO. 0000210		U.O. MISSILE 707		APPROVED G. ROBERTS									
EQUIPMENT CHANGE RECORD		WEIGHT AND BALANCE											
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS						
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT					
1													
2	25-36103-1 Body Section (As Weighed)	156.75	67.32	10,552.5	99.38	15,577.4	100.96	15,826.2					
3													
4													
5	ADD:	0											
6													
7													
8	DEDUCT:	0											
9													
10													
11	25-36103-1 Body Section (Complete)	156.75	67.32	10,552.5	99.38	15,577.4	100.96	15,826.2					
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
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27													
28													
29													
30													
31													
32													

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6.1.1-5 WEIGHT AND BALANCE CHANGE RECORD													
ASSOCIATE CONTRACTOR EOEING			CONTRACT NO. AF04(694)-046			REPORT NO. OPR-2378							
COMPONENT INTERSTAGE 2-3			LOT NO.			DATE 3/26/63							
MODEL NO. WS-133			DRAWING NO. 25-36103-1			PREPARED R. ST. ROMAIN							
SERIAL NO. 0030213			U.O. MISSILE 683			APPROVED G. ROBERTS							
EQUIPMENT CHANGE RECORD			WEIGHT AND BALANCE										
PART NO.			DESCRIPTION OF EQUIPMENT			WEIGHT		X AXIS		Y AXIS		Z AXIS	
						ARM	MOMENT	ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1	25-36103-1	Body Section (As Weighed)	157.00	67.39	10,580.6	99.41	15,607.9	101.01	15,858.0				
2													
3													
4													
5		ADD:	0										
6													
7													
8		DEDUCT:	0										
9													
10													
11	25-36103-1	Body Section (Complete)	157.00	67.39	10,580.6	99.41	15,607.9	101.01	15,858.0				
12													
13													
14													
15													
16													
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6.1.6 WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR FOOTING		CONTRACT NO.		REPORT NO.		OFR-2080			
COMPONENT INTERSTAGE 2-3		LOT NO.		DATE		4/1/63			
MODEL NO. WS-133		DRAWING NO.		PREPARED		U. BAIRD			
SERIAL NO. 0000214		U.O. MISSILE		APPROVED		G. ROBERTS			
AF04(694)-046		25-36103-1		693					
EQUIPMENT CHANGE RECORD			WEIGHT AND BALANCE						
EQUIP	PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS	
				ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1									
2	25-36103-1	Body Section (As Weighed)	156.55	67.48	10,563.5	99.39	15,558.8	100.90	15,796.6
3									
4									
5		ADD:	0						
6									
7									
8		DEDUCT:	0						
9									
10									
11	25-36103-1	Body Section (Complete)	156.55	67.48	10,563.5	99.39	15,558.8	100.90	15,796.6
12									
13									
14									
15									
16									
17									
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6.1.7 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR BOEING		CONTRACT NO.		REPORT NO.		OPR-2083					
COMPONENT		LOT NO.		DATE		4/3/63					
MODEL NO.		DRAWING NO.		PREPARED		R. ST. ROBERTS					
SERIAL NO.		U.O. MISSILE		APPROVED		G. ROBERTS					
25-36103-1		000215		700							
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS				
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT			
1		157.15	67.27	10,571.4	99.39	15,618.8	100.97	15,867.5			
2	Body Section (As Weighed)										
3											
4		0									
5	ADD:										
6											
7											
8	DEDUCT:	0									
9											
10											
11	Body Section (Complete)	157.15	67.27	10,571.4	99.39	15,618.8	100.97	15,867.5			
12											
13											
14											
15											
16											
17											
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6.1.8 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		OPR-2085	
COMPONENT		INTERSTAGE 2-3		LOT NO.				DATE		4/8/63	
MODEL NO.		WS-1-3		DRAWING NO.		25-36103-1		PREPARED		H. CHRISTIANSEN	
SERIAL NO.		000916		U.O. MISSILE		704		APPROVED		G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
LINE	PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS			
				ARM	MOMENT	ARM	MOMENT	ARM	MOMENT		
1	25-36103-1	Body Section (As Weighed)	158.00	67.38	10,646.5	99.37	15,701.0	100.97	15,953.9		
2											
3											
4											
5		ADD:	0								
6											
7											
8		DEDUCT:	0								
9											
10											
11	25-36103-1	Body Section (Complete)	158.00	67.38	10,646.5	99.37	15,701.0	100.97	15,953.9		
12											
13											
14											
15											
16											
17											
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6.1.9 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		OPR-2088	
COMPONENT		INTERPAGE 2-3		LOT NO.				DATE		4/10/63	
MODEL NO.		WS-133		DRAWING NO.		25-36103-1		PREPARED		R. ST. ROMAIN	
SERIAL NO.		0000217		U.O. MISSING		709		APPROVED		G. ROBERTS	

EQUIPMENT CHANGE RECORD		WEIGHT AND BALANCE							
UNIT	PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS	
				ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1	25-36103-1	Body Section (As Weighed)	156.35	67.31	10,523.2	99.31	15,527.8	100.98	15,787.5
2									
3									
4									
5		ADD:	0						
6									
7									
8		DEDUCT:	0						
9									
10									
11	25-36103-1	Body Section (Complete)	156.35	67.31	10,523.2	99.31	15,527.8	100.98	15,787.5
12									
13									
14									
15									
16									
17									
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6.1.1.0 WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR NOTING		CONTRACT NO.		AF 04(694)-046		REPORT NO.		OPR-2090	
COMPONENT		INTERSTAGE 2-3		LOT NO.		DATE		4-16-53	
MODEL NO.		W3-133		DRAWING NO.		PREPARED		J. HILL	
SERIAL NO.		0000218		U.O. MISSILE		APPROVED		G. ROBERTS	
WEIGHT AND BALANCE									
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE					
LINE	PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS	
				ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1	25-36103-1	Body Section (As Weighed)	157.15	67.28	10,573.5	99.30	15,695.0	100.99	15,870.3
2									
3									
4									
5		ADD:	0						
6									
7									
8		DEDUCT:	0						
9									
10									
11	25-36103-1	Body Section (Complete)	157.15	67.28	10,573.5	99.30	15,695.0	100.99	15,870.3
12									
13									
14									
15									
16									
17									
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6.1.11 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR BOEING		CONTRACT NO.		REPORT NO.		DATE		PREPARED		APPROVED	
COMPONENT		LOT NO.		AF04(694)-046		OPR-2092		4/23/63		JIM HILL	
MODEL NO.		DRAWING NO.		25-36103-1		25-36103-1		25-36103-1		G. ROBERTS	
SERIAL NO.		U.O. MISSILE		716		716		716		716	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
LINE	PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS			
				ARM	MOMENT	ARM	MOMENT	ARM	MOMENT		
1	25-36103-1	Body Section (As Weighed)	156.30	67.27	10,514.7	99.39	15,535.1	100.95	15,779.8		
2											
3											
4			0								
5		ADD:									
6											
7											
8		DEDUCT:	0								
9											
10											
11	25-36103-1	Body Section (Complete)	156.30	67.27	10,514.7	99.39	15,535.1	100.95	15,779.8		
12											
13											
14											
15											
16											
17											
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6.1.12 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		OPR-2095	
COMPONENT		INTERSTAGE 2-3		LOT NO.				DATE		4/22/63	
MODEL NO.		WS-133		DRAWING NO.		25-36103-1		PREPARED		R. ST. ROMATH	
SERIAL NO.		0000220		U.O. MISSILE		720		APPROVED		G. ROBERTS	

EQUIPMENT CHANGE RECORD		WEIGHT AND BALANCE						
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS	
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1								
2	Body Section (As Weighed)	156.65	67.25	10,535.4	99.38	15,567.4	100.95	15,813.4
3								
4								
5	ADD:	0						
6								
7								
8	DEDUCT:	0						
9								
10								
11	Body Section (Complete)	156.65	67.25	10,535.4	99.38	15,567.4	100.95	15,813.4
12								
13								
14								
15								
16								
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6.1.13 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		OPR-2089	
COMPONENT		INTERSTAGE 2-3		LOT NO.				DATE		4/11/63	
MODEL NO.		WS-133		DRAWING NO.		25-36103-1		PREPARED		R. ST. ROYAIN	
SERIAL NO.		000021		U.O. MISSILE		711		APPROVED		G. ROBERTS	

EQUIPMENT CHANGE RECORD			WEIGHT AND BALANCE					
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS	
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1								
2	Body Section (As Weighed)	156.30	67.23	10,508.5	99.37	15,531.0	100.97	15,781.1
3								
4								
5	ADD:	0						
6								
7								
8	DEDUCT:	0						
9								
10								
11	Body Section (Complete)	156.30	67.23	10,508.5	99.37	15,531.0	100.97	15,781.1
12								
13								
14								
15								
16								
17								
18								
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6.1.14 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR BOEING		CONTRACT NO.		AF 04(694)-046		REPORT NO.		OPR-2091			
COMPONENT INTERSTAGE 2-3		LOT NO.				DATE		4-18-63			
MODEL NO. W3-173		DRAWING NO.		25-36103-1		PREPARED		T. VOGEL			
SERIAL NO. 0000222		U.O. MISSILE		714		APPROVED		G. ROBERTS			
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.		DESCRIPTION OF EQUIPMENT		WEIGHT		X AXIS		Y AXIS		Z AXIS	
				ARM		MOMENT		ARM		MOMENT	
1	25-36103-1	Body Section (As Weighed)		156.20	67.40	10,523.4	99.37	15,521.0	100.93	15,756.7	
2											
3											
4											
5		ADD:		0							
6											
7											
8		DEDUCT:		0							
9											
10											
11	25-36103-1	Body Section (Complete)		156.20	67.40	10,528.4	99.37	15,521.0	100.93	15,756.7	
12											
13											
14											
15											
16											
17											
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6.1.15 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		EETING		CONTRACT NO.		AF04(694)-046		REPORT NO.		OPR-2094	
COMPONENT		LITESTAGE 2-3		LOT NO.				DATE		4/23/63	
MODEL NO.		WS-133		DRAWING NO.		25-36103-1		PREPARED		W. FAIRD	
SERIAL NO.		0000223		U.O. MISSILE		719		APPROVED		G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
LINE	PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS			
				ARM	MOMENT	ARM	MOMENT	ARM	MOMENT		
1											
2	25-36103-1	Body Section (As Weighed)	156.70	67.35	10,554.1	99.39	15,575.1	100.99	15,825.3		
3											
4											
5		ADD:	0								
6											
7											
8		DEDUCT:	0								
9											
10											
11	25-36103-1	Body Section (Complete)	156.70	67.35	10,554.1	99.39	15,575.1	100.99	15,825.3		
12											
13											
14											
15											
16											
17											
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19											
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6.1.16 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-015		REPORT NO.		OPR-2096	
COMPONENT		INTERSTAGE 2-3		LOT NO.				DATE		4/24/63	
MODEL NO.		WS-133		DRAWING NO.		25-36103-1		PREPARED		R. HOLCOMB	
SERIAL NO.		0000224		U.O. MISSILE		721		APPROVED		G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.		DESCRIPTION OF EQUIPMENT		WEIGHT		X AXIS		Y AXIS		Z AXIS	
						ARM		MOMENT		ARM	
1	25-36103-1	Body Section (As Weighed)		156.95	67.27	10,557.8	99.39	15,598.8	100.88	15,833.8	
2											
3											
4											
5		ADD:		0							
6											
7											
8		DEDUCT:		0							
9											
10											
11	25-36103-1	Body Section (Complete)		156.95	67.27	10,557.8	99.39	15,598.8	100.88	15,833.8	
12											
13											
14											
15											
16											
17											
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6.1.1.17 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		OPR-2099	
COMPONENT		INTERSTAGE 2-3		LOT NO.				DATE		4/26/63	
MODEL NO.		WS-133		DRAWING NO.		25-36103-1		PREPARED		JIM HILL	
SERIAL NO.		0000225		U.O. MISSILE		724		APPROVED		G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
LINE	PART NO.	DESCRIPTION OF EQUIPMENT		WEIGHT	X AXIS		Y AXIS		Z AXIS		
					ARM	MOMENT	ARM	MOMENT	ARM	MOMENT	
1	25-36103-1	Body Section (As V-igned)		156.55	67.20	10,520.4	99.35	15,553.3	100.90	15,796.5	
2											
3											
4											
5		ADD:		0							
6											
7											
8		DEDUCT:		0							
9											
10											
11	25-36103-1	Body Section (Complete)		156.55	67.20	10,520.4	99.35	15,553.3	100.90	15,796.5	
12											
13											
14											
15											
16											
17											
18											
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6.1.18 WEIGHT AND BALANCE CHANGE RECORD													
ASSOCIATE CONTRACTOR BOEING				CONTRACT NO.		AF04(694)-046		REPORT NO.		OPR-2102			
COMPONENT INTERSTAGE 2-3				LOT NO.				DATE		4/29/63			
MODEL NO. WS-133				DRAWING NO.		25-36103-1		PREPARED		R. ST. ROMAIN			
SERIAL NO. 0000226				U.O. MISSILE		727		APPROVED		G. ROBERTS			
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE									
LINE	PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS					
				ARM	MOMENT	ARM	MOMENT	ARM	MOMENT	ARM	MOMENT		
1	25-36103-1	Body Section (As Weighed)	156.55	67.29	10,534.7	99.36	15,554.6	100.93	15,800.6				
2													
3													
4													
5		ADD:	0										
6													
7													
8		DEDUCT:	0										
9													
10													
11	25-36103-1	Body Section (Complete)	156.55	67.29	10,534.7	99.36	15,554.6	100.93	15,800.6				
12													
13													
14													
15													
16													
17													
18													
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6.1.19		WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		OPR-2106			
COMPONENT INTERSTAGE 2-3		LOT NO.				DATE		4/30/63			
MODEL NO. WS-133A		DRAWING NO.		25-36103-1		PREPARED		JIM HILL			
SERIAL NO. 0000227		U.O. MISSILE		732		APPROVED		G. ROBERTS			

EQUIPMENT CHANGE RECORD		WEIGHT AND BALANCE							
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS		
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT	
1	25-36103-1	155.80	67.46	10,509.5	99.26	15,464.5	100.99	15,733.9	
2	Body Section (As Weighed)								
3									
4									
5	ADD:	0							
6									
7									
8	DEDUCT:	0							
9									
10									
11	25-36103-1	155.80	67.46	10,509.5	99.26	15,464.5	100.99	15,733.9	
12	Body Section (Complete)								
13									
14									
15									
16									
17									
18									
19									
20									
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6.1.20 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		REPORT NO.		CONTRACT NO.		AF04(694)-046		CPL-2109		DATE	
COMPONENT		INTERSTAGE 2-3		LOT NO.		25-36103-1		71/63		PREPARED	
MODEL NO.		WS-133		DRAWING NO.		25-36103-1		H01304B		APPROVED	
SERIAL NO.		0000228		U.O. MISSILE		735		G. ROBERTS			
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS ARM	X AXIS MOMENT	Y AXIS ARM	Y AXIS MOMENT	Z AXIS ARM	Z AXIS MOMENT			
1											
2	Body Section (As Weighed)	156.30	67.30	10,518.8	99.33	15,525.5	101.04	15,792.2			
3											
4											
5	ADD:	0									
6											
7											
8	DEDUCT:	0									
9											
10											
11	Body Section (Complete)	156.30	67.30	10,518.8	99.33	15,525.5	101.04	15,792.2			
12											
13											
14											
15											
16											
17											
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6.1.1.21 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		62-2111	
COMPONENT		INTERSTAGE 2-3		LOT NO.				DATE		7/2/63	
MODEL NO.		WS-133		DRAWING NO.		25-36103-1		PREPARED		JTM HILL	
SERIAL NO.		0000229		U.O: MISSILE		737		APPROVED		G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.		DESCRIPTION OF EQUIPMENT		WEIGHT		X AXIS		Y AXIS		Z AXIS	
						ARM		ARM		ARM	
						MOMENT		MOMENT		MOMENT	
1											
2	25-36103-1	Body Section (As Weighed)		155.75		67.30	10,482.5	99.32	15,469.1	100.99	15,728.9
3											
4											
5		ADD:		0							
6											
7											
8		DEDUCT:		0							
9											
10											
11	25-36103-1	Body Section (Complete)		155.75		67.30	10,482.5	99.32	15,469.1	100.99	15,728.9
12											
13											
14											
15											
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BOEING

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6.1.22 WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR BOEING		CONTRACT NO. AFOL(694)-046		REPORT NO. 17-2066					
COMPONENT INTERSTAGE 2-3		LOT NO.		DATE 10/69					
MODEL NO. W3-133		DRAWING NO. 25-36103-1		PREPARED J. CHRISTIANSEN					
SERIAL NO. 0000232		U.O. MISSILE 706		APPROVED G. FORRETS					
EQUIPMENT CHANGE RECORD			WEIGHT AND BALANCE						
ENT	PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS	
				ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1									
2	25-36103-1	Body Section (As Weighed)	157.20	67.32	10,582.0	99.43	15,630.6	100.97	15,872.5
3									
4									
5		ADD:	0						
6									
7									
8		DEDUCT:	0						
9									
10									
11	25-36103-1	Body Section (Complete)	157.20	67.32	10,582.0	99.43	15,630.6	100.97	15,872.5
12									
13									
14									
15									
16									
17									
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6.1.23 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR EQUIPMENT			CONTRACT NO. AF04(694)-046			REPORT NO. C-2101			DATE 7/23/53		
COMPONENT			LOT NO.			PREPARED			APPROVED		
MODEL NO. WS-133			DRAWING NO. 25-36103-1			C. HILL			C. ROBERTS		
SERIAL NO. 0000233			U.O. MISSILE			726					
EQUIPMENT CHANGE RECORD			WEIGHT AND BALANCE								
LINE	PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS			
				ARM	MOMENT	ARM	MOMENT	ARM	MOMENT		
1	25-36103-1	Body Section (As Weighed)	155.75	67.18	10,464.0	99.28	15,463.6	100.84	15,706.9		
2											
3											
4											
5		ADD:	0								
6											
7											
8		DEDUCT:	0								
9											
10											
11	25-36103-1	Body Section (Complete)	155.75	67.18	10,464.0	99.28	15,463.6	100.84	15,706.9		
12											
13											
14											
15											
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EQUIPMENT

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6.1.24 WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR BOEING		CONTRACT NO. AF04(694)-046		REPORT NO. 003-2003					
COMPONENT INTERSTAGE 2-3		LOT NO.		DATE 12/68					
MODEL NO. WS-133		DRAWING NO. 25-36103-1		PREPARED V. FALIND					
SERIAL NO. 0000235		U.O. MISSILE		APPROVED C. ROLANDS					
EQUIPMENT CHANGE RECORD		WEIGHT AND BALANCE							
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS		
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT	
1									
2	25-36103-1 Body Section (As Weighed)	156.65	67.20	10,527.2	99.24	15,545.4	100.91	15,807.9	
3									
4									
5	ADD:	0							
6									
7									
8	DEDUCT:	0							
9									
10									
11	25-36103-1 Body Section (Complete)	156.65	67.20	10,527.2	99.24	15,545.4	100.91	15,807.9	
12									
13									
14									
15									
16									
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6.1.25 WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR BOEING		CONTRACT NO.		REPORT NO.		DATE		CNR-2100	
COMPONENT INTERSTAGE 2-3		LOT NO.		DATE		PREPARED		4/25/63	
MODEL NO. WS-133		DRAWING NO.		APPROVED		PREPARED		W. BAIRD	
SERIAL NO. 0000236		U.O. MISSILE		APPROVED		PREPARED		G. ROBERTS	
AF04(694)-046		25-36103-1		725					
EQUIPMENT CHANGE RECORD		WEIGHT AND BALANCE							
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS		
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT	
1									
2	Body Section (As Weighed)	156.65	67.27	10,537.4	99.27	15,550.9	100.98	15,819.0	
3									
4									
5	ADD:	0							
6									
7									
8	DEDUCT:	0							
9									
10									
11	Body Section (Complete)	156.65	67.27	10,537.4	99.27	15,550.9	100.98	15,819.0	
12									
13									
14									
15									
16									
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6.1.26 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		ROFING		CONTRACT NO.		AF04(694)-046		REPORT NO.		21-2104	
COMPONENT		LIFE STAGE 2-3		LOT NO.				DATE		8/15/63	
MODEL NO.		WS-133		DRAWING NO.		25-36103-1		PREPARED		J. L. HILL	
SERIAL NO.		0000237		U.O. MISSILE		729		APPROVED		G. OGDEN	

EQUIPMENT CHANGE RECORD		WEIGHT AND BALANCE						
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS	
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1								
2	25-36103-1 Body Section (As Weighed)	156.10	67.27	10,501.1	99.31	15,502.8	100.92	15,752.9
3								
4								
5	ADD:	0						
6								
7								
8	DEDUCT:	0						
9								
10								
11	25-36103-1 Body Section (Complete)	156.10	67.27	10,501.1	99.31	15,502.8	100.92	15,752.9
12								
13								
14								
15								
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6.1.27 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		FOZING		CONTRACT NO.		REPORT NO.		DATE		OFR-2108	
COMPONENT		INTERSTAGE 2-3		LOT NO.		AF04(624)-046		4/22/63			
MODEL NO.		WS-133		DRAWING NO.		25-36103-1		PREPARED		W. FAIRD	
SERIAL NO.		0003238		U.O. MISSILE		734		APPROVED		G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
LINE	PART NO.	DESCRIPTION OF EQUIPMENT		WEIGHT	X AXIS		Y AXIS		Z AXIS		
					ARM	MOMENT	ARM	MOMENT	ARM	MOMENT	
1											
2	25-36103-1	Body Section (As Weighed)		157.40	67.25	10,585.2	99.28	15,627.3	100.98	15,893.9	
3											
4											
5		ADD:		0							
6											
7											
8		DEDUCT:		0							
9											
10											
11	25-36103-1	Body Section (Complete)		157.40	67.25	10,585.2	99.28	15,627.3	100.98	15,893.9	
12											
13											
14											
15											
16											
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6.1.28 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		100112	
COMPONENT		INTERSTAGE 2-3		LOT NO.				DATE		763	
MODEL NO.		WS-133		DRAWING NO.		25-36103-1		PREPARED		C. ROBERTS	
SERIAL NO.		0000239		U.O. MISSILE		738		APPROVED			

EQUIPMENT CHANGE RECORD		WEIGHT AND BALANCE							
LINE	PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS	
				ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1									
2	25-36103-1	Body Section (As Weighed)	156.65	67.20	10,527.2	99.22	15,542.6	100.91	15,807.9
3									
4									
5		ADD:	0						
6									
7									
8		DEDUCT:	0						
9									
10									
11	25-36103-1	Body Section (Complete)	156.65	67.20	10,527.2	99.22	15,542.6	100.91	15,807.9
12									
13									
14									
15									
16									
17									
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6.1.29 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		M7-2103	
COMPONENT		INTERSTAGE 2-3		LOT NO.				DATE		1/15/53	
MODEL NO.		WS-133		DRAWING NO.		25-36103-1		PREPARED		JEN HILL	
SERIAL NO.		0000245		U.O. MISSILE		728		APPROVED		G. OGARD	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS				
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT			
1											
2	25-36103-1 Body Section (As Weighed)	156.75	67.28	10,546.2	99.27	15,560.9	101.02	15,834.4			
3											
4											
5	ADD:	0									
6											
7											
8	DEDUCT:	0									
9											
10											
11	25-36103-1 Body Section (Complete)	156.75	67.28	10,546.2	99.27	15,560.9	101.02	15,834.4			
12											
13											
14											
15											
16											
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6.1.30 WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR <u>BOEING</u>		CONTRACT NO. <u>AF04(64)-046</u>		REPORT NO. <u>105</u>					
COMPONENT <u>INTERSTAGE 2-3</u>		LOT NO.		DATE <u>1/20/63</u>					
MODEL NO. <u>WS-153</u>		DRAWING NO. <u>25-36103-1</u>		PREPARED <u>A. LUDGEB</u>					
SERIAL NO. <u>0000246</u>		U.O. MISSILE		APPROVED <u>G. ROBERTS</u>					

EQUIPMENT CHANGE RECORD		WEIGHT AND BALANCE						
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS	
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1								
2	25-36103-1 Body Section (As Weighed)	156.55	67.35	10,542.9	99.38	15,557.4	100.88	15,792.4
3								
4								
5	ADD:	0						
6								
7								
8	DEDUCT:	0						
9								
10								
11	25-36103-1 Body Section (Complete)	156.55	67.35	10,542.9	99.38	15,557.4	100.88	15,792.4
12								
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BOEING

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6.1.31 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF34(694)-046		REPORT NO.			
COMPONENT		INTERSTAGE 2-3		LOT NO.				DATE			
MODEL NO.		WS-133		DRAWING NO.		25-36103-1		PREPARED			
SERIAL NO.		0000247		U.O. MISSILE		733		APPROVED			
								G. ROBERTS			
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.		DESCRIPTION OF EQUIPMENT		WEIGHT		X AXIS		Y AXIS		Z AXIS	
						ARM		MOMENT		ARM	
1	25-36103-1	Body Section (As Weighed)		156.25		67.21	10,502.0	99.25	15,508.1	100.95	15,773.4
2											
3											
4											
5		ADD:		0							
6											
7											
8		DEDUCT:		0							
9											
10											
11	25-36103-1	Body Section (Complete)		156.25		67.21	10,502.0	99.25	15,508.1	100.95	15,773.4
12											
13											
14											
15											
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6.1.32 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		052-2110	
COMPONENT		INTERSTAGE 2-3		LOT NO.				DATE		12-83	
MODEL NO.		WS-133		DRAWING NO.		25-36103-1		PREPARED		G. NOBENES	
SERIAL NO.		0000248		U.O. MISSILE		736		APPROVED		G. NOBENES	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS				
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT			
1											
2	Body Section (As Weighed)	156.55	67.23	10,524.5	99.26	15,539.5	101.01	15,813.0			
3											
4											
5	ADD:	0									
6											
7											
8	DEDUCT:	0									
9											
10											
11	Body Section (Complete)	156.55	67.23	10,524.5	99.26	15,539.5	101.01	15,813.0			
12											
13											
14											
15											
16											
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6.1.33 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		OTR-2097	
COMPONENT		INTERSTAGE 2-3		LOT NO.				DATE		1/24/63	
MODEL NO.		WS-J 33		DRAWING NO.		25-36103-1		PREPARED		J. M. HILL	
SERIAL NO.		0000346		U.O. MISSILE		722		APPROVED		G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
LINE	PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS			
				ARM	MOMENT	ARM	MOMENT	ARM	MOMENT		
1											
2	25-36103-1	Body Section (As Weighed)	156.75	67.28	10,546.2	99.37	15,576.0	100.89	15,813.8		
3											
4											
5		ADD:	0								
6											
7											
8		DEDUCT:	0								
9											
10											
11	25-36103-1	Body Section (Complete)	156.75	67.28	10,546.2	99.37	15,576.0	100.89	15,813.8		
12											
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14											
15											
16											
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2-5550-0-11 R1

6.1.34 WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR BOEING			CONTRACT NO. AFO4(694)-046		REPORT NO. 017-2061				
COMPONENT INTERSTAGE 2-3			LOT NO.		DATE 4/1/63				
MODEL NO. WS-133			DRAWING NO. 25-36103-1		PREPARED N. J. FRED				
SERIAL NO. 0000356			U.O. MISSILE		APPROVED G. ROBERTS				
EQUIPMENT CHANGE RECORD			WEIGHT AND BALANCE						
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS		
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT	
1									
2	25-36103-1 Body Section (As Weighed)	158.15	67.40	10,659.7	99.36	15,713.3	100.93	15,962.0	
3									
4									
5	ADD:	0							
6									
7									
8	DEDUCT:	0							
9									
10									
11	25-36103-1 Body Section (Complete)	158.15	67.40	10,659.7	99.36	15,713.3	100.93	15,962.0	
12									
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15									
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6.1.35 WEIGHT AND BALANCE CHANGE RECORD													
ASSOCIATE CONTRACTOR BOEING			CONTRACT NO.		AF 04(694)-046		REPORT NO.		QTR-2003				
COMPONENT			LOT NO.				DATE		4-12-63				
MODEL NO.			DRAWING NO.		25-36103-1		PREPARED		S. HOLCOMB				
SERIAL NO.			U.O. MISSILE		718		APPROVED		G. ROBERTS				
EQUIPMENT CHANGE RECORD			WEIGHT AND BALANCE										
PART NO.			DESCRIPTION OF EQUIPMENT			WEIGHT		X AXIS		Y AXIS		Z AXIS	
								ARM		MOMENT		ARM	
1	25-36103-1	Body Section (As Weighed)	156.40	67.18	10,507.1	99.38	15,542.4	100.96	15,789.8				
2													
3													
4													
5		ADD:	0										
6													
7													
8		DEDUCT:	0										
9													
10													
11	25-36103-1	Body Section (Complete)	156.40	67.18	10,507.1	99.38	15,542.4	100.96	15,789.8				
12													
13													
14													
15													
16													
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SERIAL NUMBER: 0000207				6.2.1 ACTUAL WEIGHT RECORD - INTERSTAGE 1-2			
U/O MISSILE: 690		DRAWING NO. 25-27201-		CHECK LIST NO. 7		REPORT NO. OPR-2079	
MISSILE MODEL WS-133		DCN C		REPORTED BY HC/JH/TV		PAGE NO.	
CONFIGURATION TAH		ADCN 15		CHECKED BY GVR		DATE 3/27/63	

(FIGURE I)

LONGITUDINAL REFERENCE DATUM

(FIGURE II)

VERTICAL REFERENCE DATUM

WEIGHING DATA						DIMENSIONAL DATA					
REACTION	GR. WT.	TARE	CORR.	NET WT.		DIM.	INCHES	DIM.	INCHES	DIM.	INCHES
R1	293.75	200.70		93.05		A1	49.072	Z1	100.000	Y1	72.500
R2	109.10	25.75		83.35		A2	49.070	Z2	72.501	Y2	100.000
R3	269.40	183.40		86.00		B3	109.070	Z3	100.000	Y3	127.498
R4	87.90	8.90		79.00		B4	109.070	Z4	127.499	Y4	100.000
TOTAL	760.15	418.75		341.40		C	50.000				

LONGITUDINAL C.G.				LATERAL C.G.				VERTICAL C.G.			
REACTION	NET WT.	ARM	MOMENT	REACTION	NET WT.	ARM	MOMENT	REACTION	NET WT.	ARM	MOMENT
R1	93.05	49.072		R5	72.70	100.000		R5	72.70	72.500	
R2	83.35	49.070		R6	98.80	72.501		R6	98.80	100.000	
R3	86.00	109.070		R7	77.20	100.000		R7	77.20	127.498	
R4	79.00	109.070		R8	92.70	127.499		R8	92.70	100.000	
AS WGD	341.40	78.07	26,657.7	AS WGD	341.40	99.51	33,972.3	AS WGD	341.40	100.36	34,263.6

Fig. "A" Number: 6701

Serial Number: 0000007

CHECK LIST NO. 7		6.2.1 MISSILE WEIGHING CHECK LIST		RECORD OF CHECKING (DATE)			
DATE		MODEL WS-133		FINAL ASSEMBLY DRAWING NO. 21-50150		Mo 3 Day 27 Yr 63	
SECTION 47		MISSILE NO. 690		COMPONENT		MISSILE	
DESCRIPTION		PART NO.		WEIGHT		X-ARM Y-ARM Z-ARM	
THIS IS THE COMPONENT BODY SECTION GUIDED MISSILE COMPONENT PART NO. Noted		PART NO.		WEIGHT		X-ARM Y-ARM Z-ARM	
BODY SECTION ASSY	25-36101-1						
Interstage Assy-Structural	25-36100-1						
Shield-Assy of, Insulated	25-36101-2						
Shield-Tin Delay, Booster	25-29544-1						
Cork Insulation Instl-Exterior	25-37131-1						
Plug-Access Hole	29-23663-1						
Seal-Fwd Adapter Ring (2)	29-24180-1						
Door-Access Stage Separation	26-11886-1						
Door-Access, Booster	26-11888-1						
Door Assy - Safe & Arm	29-20567-4						
Closure Panel Ord. Access (117°)	29-28371-1						
Door-Ordnance Access (4)	29-28391-1						
Cover Panel Tie (4)	29-23654-1						
Cover Panel Tie (4)	29-23654-2						
Panel-Insulation	29-25565-1						
Panel-Insulation	25-36383-1						
Marking Instl	25-30134-29						
Cover Rectacle	29-22725-1						
Bolt - 100° Head	BACB30EM-3-8						
Bolt - 100° Head	4-11						
Bolt - 100° Head	4-9						
Bolt - 100° Head	4-5						
Bolt - 100° Head	4-3						
Bolt - 100° Head	4-3						
Bolt - 100° Head	4-10						
Bolt - 100° Head	4-19						
Bolt - 100° Head	4-20						
Bolt - 100° Head	4-19						
Bolt - 100° Head	4-16						
Bolt - 100° Head	4-4						

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6.2.1 WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR BOEING		CONTRACT NO. AF04(694)-046		REPORT NO. (CR-2079)					
COMPONENT INTERSTAGE 1-2		LOT NO.		DATE 7/67					
MODEL NO. WS-133		DRAWING NO. 25-36101-1		PREPARED L. CHRISTENSEN					
SERIAL NO. 0000207		U.O. MISSILE 690		APPROVED G. ROBERTS					
EQUIPMENT CHANGE RECORD		WEIGHT AND BALANCE							
LINE	PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS	
				ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1									
2	25-36101-1	Body Section (As Weighed)	341.40	78.07	26,652.7	99.51	33,972.3	100.36	34,263.6
3									
4									
5		ADD:	0						
6									
7									
8		DEDUCT:	0						
9									
10									
11	25-36101-1	Body Section (Complete)	341.40	78.07	26,652.7	99.51	33,972.3	100.36	34,263.6
12									
13									
14									
15									
16									
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6.2.2 WEIGHT AND BALANCE CHANGE RECORD

ASSOCIATE CONTRACTOR BOEING		CONTRACT NO.		REPORT NO.		DATE		
COMPONENT INTERSTAGE 1-2		AF04(694)-046		GER-2012		1/2/63		
MODEL NO. WS-133		DRAWING NO. 25-36101-1		PREPARED		L. ST. ROBERTS		
SERIAL NO. 0000208		U.O. MISSILE 697		APPROVED		G. ROBERTS		
EQUIPMENT CHANGE RECORD		WEIGHT AND BALANCE						
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS	
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1								
2	Body Section (As Weighed)	344.40	77.96	26,850.9	99.59	34,299.8	100.38	34,571.8
3								
4								
5	ADD:	0						
6								
7								
8	DEDUCT:	0						
9								
10								
11	Body Section (Complete)	344.40	77.96	26,850.9	99.59	34,299.8	100.38	34,571.8
12								
13								
14								
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6.2.3 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR BOEING		CONTRACT NO. AF04(694)-046		REPORT NO. 02-2284							
COMPONENT INTERSTAGE 1-2		LOT NO.		DATE 1/25/63							
MODEL NO. WS-133		DRAWING NO. 25-36101-1		PREPARED R. HOLCOMB							
SERIAL NO. 0000209		U.O. MISSILE 702		APPROVED G. ROBERTS							
EQUIPMENT CHANGE RECORD		WEIGHT AND BALANCE									
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS				
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT			
1											
2	25-36101-1 Body Section (As Weighed)	343.05	78.15	26,808.7	99.47	34,122.1	100.32	34,414.8			
3											
4											
5	ADD:	0									
6											
7											
8	DEDUCT:	0									
9											
10											
11	25-36101-1 Body Section (Complete)	343.05	78.15	26,808.7	99.47	34,122.1	100.32	34,414.8			
12											
13											
14											
15											
16											
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6.2.4 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-46		REPORT NO.		OPR-2086	
COMPONENT		INTERSTAGE 1-2		LOT NO.				DATE		4/16/63	
MODEL NO.		WS-133		DRAWING NO.		25-36101-1		PREPARED		JIM HILL	
SERIAL NO.		0000210		U.O. MISSILE		707		APPROVED		G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
LINE	PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS			
				ARM	MOMENT	ARM	MOMENT	ARM	MOMENT		
1											
2	25-36101-1	Body Section (As Weighed)	342.60	78.02	26,729.6	99.63	34,132.1	100.34	34,376.6		
3											
4											
5		ADD:	0								
6											
7											
8		DEDUCT:	0								
9											
10											
11	25-36101-1	Body Section (Complete)	342.60	78.02	26,729.6	99.63	34,132.1	100.34	34,376.6		
12											
13											
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15											
16											
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6.2.5 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		07-2973	
COMPONENT		INTERSTAGE 1-2		LOT NO.				DATE		3/20/83	
MODEL NO.		WS-133		DRAWING NO.		25-36101-1		PREPARED		H. CHRISTENSEN	
SERIAL NO.		0000213		U.O. MISSILE		688		APPROVED		G. NORMAN	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS ARM	X AXIS MOMENT	Y AXIS ARM	Y AXIS MOMENT	Z AXIS ARM	Z AXIS MOMENT			
1											
2	25-36101-1 Body Section (As Weighed)	344.35	78.37	26,986.4	99.70	34,333.3	100.19	34,502.1			
3											
4											
5	ADD:	0									
6											
7											
8	DEDUCT:	0									
9											
10											
11	25-36101-1 Body Section (Complete)	344.35	78.37	26,986.4	99.70	34,333.3	100.19	34,502.1			
12											
13											
14											
15											
16											
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6.2.6 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR BOEING		CONTRACT NO.		REPORT NO.		DATE		PREPARED		APPROVED	
COMPONENT		LOT NO.		AF04(694)-046		0PR-2080		3/29/63		R. ST. FOMAIN	
MODEL NO.		DRAWING NO.		25-36101-1						G. ROBERTS	
SERIAL NO.		U.O. MISSILE		693							
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.		DESCRIPTION OF EQUIPMENT		WEIGHT		X AXIS		Y AXIS		Z AXIS	
						ARM		MOMENT		ARM	
1	25-36101-1	Body Section (As Weighed)	345.00	78.03	26,919.4	99.68	34,388.6	100.27	34,594.7		
2											
3											
4											
5		ADD:	0								
6											
7											
8		DEDUCT:	0								
9											
10											
11	25-36101-1	Body Section (Complete)	345.00	78.03	26,919.4	99.68	34,388.6	100.27	34,594.7		
12											
13											
14											
15											
16											
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6.2.7 WEIGHT AND BALANCE CHANGE RECORD													
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(604)-046		REPORT NO.		CHR-2083			
COMPONENT		INTERSTAGE 1-2		LOT NO.				DATE		1/25/63			
MODEL NO.		133		DRAWING NO.		25-36101-1		PREPARED		G. FAIRD			
SERIAL NO.		3215		U.O. MISSILE		700		APPROVED		G. ROBERTS			

EQUIPMENT CHANGE RECORD		WEIGHT AND BALANCE							
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS		
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT	
1									
2	Body Section (As Weighed)	343.75	78.09	26,843.0	99.61	34,241.6	100.26	34,465.5	
3									
4									
5	ADD:	0							
6									
7									
8	DEDUCT:	0							
9									
10									
11	Body Section (Complete)	343.75	78.09	26,843.0	99.61	34,241.6	100.26	34,465.5	
12									
13									
14									
15									
16									
17									
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6.2.8 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		C-1085	
COMPONENT		INTERSTAGE 1-2		LOT NO.				DATE		1/15/83	
MODEL NO.		WS-123		DRAWING NO.		25-36101-1		PREPARED		A. CHRISTIANSEN	
SERIAL NO.		0000216		U.O. MISSILE		704		APPROVED		G. ROBERTS	

EQUIPMENT CHANGE RECORD			WEIGHT AND BALANCE					
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS	
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1								
2	25-36101-1 Body Section (As Weighed)	340.25	78.02	26,545.3	99.43	33,832.5	100.33	34,136.2
3								
4								
5	ADD:	0						
6								
7								
8	DEDUCT:	0						
9								
10								
11	25-36101-1 Body Section (Complete)	340.25	78.02	26,545.3	99.43	33,832.5	100.33	34,136.2
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6.2.9 WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR: BOEING		CONTRACT NO. AF04(694)-046		REPORT NO. AFR-2088					
COMPONENT INTERSTAGE 1-2		LOT NO.		DATE 1/9/63					
MODEL NO. WS-133		DRAWING NO. 25-36101-1		PREPARED H. CHRISTIANSON					
SERIAL NO. 0000217		U.O. MISSILE 709		APPROVED G. ROBERTS					

EQUIPMENT CHANGE RECORD		WEIGHT AND BALANCE						
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS	
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1								
2	25-36101-1 Body Section (As Weighed)	341.75	78.00	26,657.8	99.57	34,029.3	100.31	34,280.7
3								
4								
5	ADD:	0						
6								
7								
8	DEDUCT:	0						
9								
10								
11	25-36101-1 Body Section (Complete)	341.75	78.00	26,657.8	99.57	34,029.3	100.31	34,280.7
12								
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6.2.10 WEIGHT AND BALANCE CHANGE RECORD												
ASSOCIATE CONTRACTOR: BOEING			CONTRACT NO. AF04(694)-046			REPORT NO. APR-2030						
COMPONENT INTERSTAGE 1-2			LOT NO.			DATE 4/10/63						
MODEL NO. WS-133			DRAWING NO. 25-36101-1			PREPARED R. ST. ECHELI						
SERIAL NO. 0000218			U.O. MISSILE 712			APPROVED G. ROBERTS						
EQUIPMENT CHANGE RECORD			WEIGHT AND BALANCE									
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS		ARM	MOMENT	ARM	MOMENT
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT				
1	25-36101-1 Body Section (As Weighed)	341.50	78.05	26,654.6	99.54	33,991.9	100.25	34,233.7				
2												
3												
4												
5	AUD:	0										
6												
7												
8	DEDUCT:	0										
9												
10												
11	25-36101-1 Body Section (Complete)	341.50	78.05	26,654.6	99.54	33,991.9	100.25	34,233.7				
12												
13												
14												
15												
16												
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6.2.11 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		QRT-2092	
COMPONENT		INTERSTAGE 1-2		LOT NO.				DATE		4/16/63	
MODEL NO.		WS-133		DRAWING NO.		25-36101-1		PREPARED		JTH HILL	
SERIAL NO.		0000219		U.O. MISSILE		716		APPROVED		G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.		DESCRIPTION OF EQUIPMENT		WEIGHT		X AXIS		Y AXIS		Z AXIS	
						ARM		ARM		ARM	
						MOMENT		MOMENT		MOMENT	
1	25-36101-1	Body Section (As Weighed)		342.55		78.14	26,772.1	99.58	34,112.0	100.33	34,368.8
2											
3											
4											
5		ADD:		0							
6											
7											
8		DEDUCT:		0							
9											
10											
11	25-36101-1	Body Section (Complete)		342.55		78.14	26,772.1	99.58	34,112.0	100.33	34,368.8
12											
13											
14											
15											
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6.2.12 WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR HOUSING		CONTRACT NO.		REPORT NO.		DATE		G. ROBERTS	
COMPONENT		LOT NO.		AF 04(694)-046		4-19-53		G. ROBERTS	
MODEL NO.		DRAWING NO.		25-36101-1		25-36101-1		G. ROBERTS	
SERIAL NO.		U.O. MISSILE		720		720		G. ROBERTS	
EQUIPMENT CHANGE RECORD		WEIGHT AND BALANCE							
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS		
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT	
1									
2	Body Section (As Weighed)	342.50	78.08	26,742.7	99.67	34,137.3	100.28	34,346.1	
3									
4									
5	ADD:	0							
6									
7									
8	DEDUCT:	0							
9									
10									
11	Body Section (Complete)	342.50	78.08	26,742.7	99.67	34,137.3	100.28	34,346.1	
12									
13									
14									
15									
16									
17									
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6.2.13 WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR BEING INTERSTAGE 1-2		CONTRACT NO. AF04(694)-046		REPORT NO. CAR-2089					
COMPONENT		LOT NO.		DATE 8/25/53					
MODEL NO. WS-133		DRAWING NO. 25-36101-1		PREPARED W. EATND					
SERIAL NO. 0000221		U.O. MISSILE 711		APPROVED G. ROBERTS					
EQUIPMENT CHANGE RECORD		WEIGHT AND BALANCE							
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS		
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT	
1									
2	25-36101-1 Body Section (As Weighed)	341.30	78.03	26,632.8	99.72	34,035.1	100.29	34,227.4	
3									
4									
5	ADD:	0							
6									
7									
8	DEDUCT:	0							
9									
10									
11	25-36101-1 Body Section (Complete)	341.30	78.03	26,632.8	99.72	34,035.1	100.29	34,227.4	
12									
13									
14									
15									
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6.2.14 WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR COMPONENT		BOEING INTERSTAGE 1-2		CONTRACT NO.		AF 04(694)-046		REPORT NO.	
MODEL NO.		US-133		LOT NO.				DATE	
SERIAL NO.		0000222		DRAWING NO.		25-36101-1		PREPARED	
				U.O. MISSILE		714		APPROVED	
								G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE					
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS		
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT	
1									
2	Body Section (As Weighed)	342.05	77.92	26,651.6	99.44	34,013.9	100.35	34,325.7	
3									
4									
5	ADD:	0							
6									
7									
8	DEDUCT:	0							
9									
10									
11	Body Section (Complete)	342.05	77.92	26,651.6	99.44	34,013.9	100.35	34,325.7	
12									
13									
14									
15									
16									
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6.2.15 WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR BOEING		CONTRACT NO.		AF 04(694)-046		REPORT NO.		OPT-2094	
COMPONENT INTERSTAGE 1-2		LOT NO.				DATE		4-18-63	
MODEL NO. WS-133		DRAWING NO.		25-36101-1		PREPARED		T. VOGEL	
SERIAL NO. 0000223		U.O. MISSILE		719		APPROVED		G. ROBERTS	

EQUIPMENT CHANGE RECORD		WEIGHT AND BALANCE							
UNIT	PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS	
				ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1	25-30101-1	Body Section (As Weighed)	342.60	78.00	26,732.5	99.53	34,097.8	100.29	34,358.8
2									
3									
4									
5		ADD:	0						
6									
7									
8		DEDUCT:	0						
9									
10									
11	25-30101-1	Body Section (Complete)	342.60	78.00	26,732.5	99.53	34,097.8	100.29	34,358.8
12									
13									
14									
15									
16									
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6.2.16		WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.			
COMPONENT		INTERSTAGE 1-2		LOT NO.				DATE			
MODEL NO.		WS-133		DRAWING NO.		25-36101-1		PREPARED			
SERIAL NO.		0000224		U.O. MISSILE		721		APPROVED			
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS				
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT			
1											
2											
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DATA TO BE ADDED LATER



6.2.17 WEIGHT AND BALANCE CHANGE RECORD

ASSOCIATE CONTRACTOR <u>BOEING</u> COMPONENT <u>INTERSTAGE 1-2</u> MODEL NO. <u>WS-133</u> SERIAL NO. <u>0000225</u>		CONTRACT NO. <u>AFO4(694)-046</u> LOT NO. <u>25-36101-1</u> DRAWING NO. <u>724</u> U.O. MISSILE <u>U.O. MISSILE</u>		REPORT NO. <u>OPR-2099</u> DATE <u>4/24/53</u> PREPARED <u>V. FAIND</u> APPROVED <u>G. ROBERTS</u>	
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EQUIPMENT CHANGE RECORD		WEIGHT AND BALANCE							
		WEIGHT		X AXIS		Y AXIS		Z AXIS	
PART NO.	DESCRIPTION OF EQUIPMENT			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1									
2	Body Section (As Weighed)	342.80		78.10	26,772.3	99.66	34,161.8	100.22	34,356.8
3									
4									
5	ADD:	0							
6									
7									
8	DEDUCT:	0							
9									
10									
11	Body Section (Complete)	342.80		78.10	26,772.3	99.66	34,161.8	100.22	34,356.8
12									
13									
14									
15									
16									
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6.2.18 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR BOEING		CONTRACT NO. AFO4(694)-046		REPORT NO. CR-2102							
COMPONENT INTERSTAGE 1-2		LOT NO.		DATE 5/3/63							
MODEL NO. WS-133		DRAWING NO. 25-36080-1		PREPARED R. HOLCOMB							
SERIAL NO. 0000226		U.O. MISSILE 727		APPROVED G. ROBERTS							
EQUIPMENT CHANGE RECORD		WEIGHT AND BALANCE									
LINE	PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS			
				ARM	MOMENT	ARM	MOMENT	ARM	MOMENT		
1											
2	25-36080-1	Body Section (As Weighed)	342.20	77.96	26,676.9	99.53	34,059.1	100.34	34,336.7		
3											
4											
5		ADD:	0								
6											
7											
8		DEDUCT:	0								
9											
10											
11	25-36080-1	Body Section (Complete)	342.20	77.96	26,676.9	99.53	34,059.1	100.34	34,336.7		
12											
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6.2.19 WEIGHT AND BALANCE CHANGE RECORD													
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		CPR-2106			
COMPONENT		INTERSTAGE 1-2		LOT NO.				DATE		4/30/63			
MODEL NO.		WS-133		DRAWING NO.		25-36101-1		PREPARED		JIM HILL			
SERIAL NO.		0000227		U.O. MISSILE		732		APPROVED		G. ROBERTS			
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE									
PART NO.		DESCRIPTION OF EQUIPMENT		WEIGHT		X AXIS		Y AXIS		Z AXIS			
						ARM		ARM		ARM		MOMENT	
1	25-36101-1	Body Section (As Weighed)		342.50		77.98	26,706.6	99.60	34,113.9	100.32	34,361.1		
2													
3													
4													
5		ADD:		0									
6													
7													
8		DEDUCT:		0									
9													
10													
11	25-36101-1	Body Section (Complete)		342.50		77.98	26,706.6	99.60	34,113.9	100.32	34,361.1		
12													
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14													
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6.2.20 WEIGHT AND BALANCE CHANGE RECORD													
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		AFN-2109			
COMPONENT		INTERSTAGE 1-2		LOT NO.				DATE		3/1/63			
MODEL NO.		WS-133		DRAWING NO.		25-36101-1		PREPARED		JUN HILL			
SERIAL NO.		0000228		U.O. MISSILE		735		APPROVED		G. ROBERTS			
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE									
LINE	PART NO.	DESCRIPTION OF EQUIPMENT		WEIGHT	X AXIS		Y AXIS		Z AXIS				
					ARM	MOMENT	ARM	MOMENT	ARM	MOMENT	ARM	MOMENT	
1													
2	25-36101-1	Body Section (As Weighed)		339.25	78.02	26,469.2	99.65	33,805.4	100.31	34,029.3			
3													
4													
5		ADD:		0									
6													
7													
8		DEDUCT:		0									
9													
10													
11	25-36101-1	Body Section (Complete)		339.25	78.02	26,469.2	99.65	33,805.4	100.31	34,029.3			
12													
13													
14													
15													
16													
17													
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6.2.21 WEIGHT AND BALANCE CHANGE RECORD													
ASSOCIATE CONTRACTOR BOEING		CONTRACT NO.		REPORT NO.		DATE		PREPARED		APPROVED			
COMPONENT		LOT NO.											
MODEL NO.		DRAWING NO.		25-36101-1		25-36101-1		25-36101-1		G. ROBERTS			
SERIAL NO.		U.O. MISSILE		737									
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE									
PART NO.		DESCRIPTION OF EQUIPMENT		WEIGHT		X AXIS		Y AXIS		Z AXIS			
						ARM		MOMENT		ARM		MOMENT	
1	25-36101-1	Body Section (As Weighed)		341.25		77.75	26,531.3	99.71	34,027.4	100.39	34,259.5		
2													
3													
4													
5		ADD:		0									
6													
7													
8		DEDUCT:		0									
9													
10													
11	25-36101-1	Body Section (Complete)		341.25		77.75	26,531.3	99.71	34,027.4	100.39	34,259.5		
12													
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14													
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6.2.22 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		CER-2386	
COMPONENT		INTERSTAGE 1-2		LOT NO.				DATE		1/23/63	
MODEL NO.		WS-133		DRAWING NO.		25-36101-1		PREPARED		W. BAIRD	
SERIAL NO.		0000232		U.O. MISSILE		706		APPROVED		G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS				
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT			
1											
2	25-36101-1 Body Section (As Weighed)	339.45	77.97	26,467.0	99.58	33,803.4	100.30	34,046.5			
3											
4											
5	ADD:	0									
6											
7											
8	DEDUCT:	0									
9											
10											
11	25-36101-1 Body Section (Complete)	339.45	77.97	26,467.0	99.58	33,803.4	100.30	34,046.5			
12											
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14											
15											
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6.2.23 WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.	
COMPONENT		INTERSTAGE 1-2		LOT NO.				DATE	
MODEL NO.		WS-133		DRAWING NO.		25-36101-1		PREPARED	
SERIAL NO.		0000233		U.O. MISSILE		726		APPROVED	
								G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE					
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS		
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT	
1									
2	Body Section (As Weighed)	341.70	77.97	26,643.4	99.64	34,047.6	100.24	34,250.9	
3									
4									
5	ADD:	0							
6									
7									
8	DEDUCT:	0							
9									
10									
11	Body Section (Complete)	341.70	77.97	26,643.4	99.64	34,047.6	100.24	34,250.9	
12									
13									
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15									
16									
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6.2.24 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		OPR-2098	
COMPONENT		INTERSTAGE 1-2		LOT NO.				DATE		4/24/63	
MODEL NO.		WS-133		DRAWING NO.		25-36101-1		PREPARED		D. ST. ROMAIN	
SERIAL NO.		0000235		U.O. MISSILE		723		APPROVED		G. ROBERTS	
LINE	PART NO.	EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE					
		DESCRIPTION OF EQUIPMENT		WEIGHT	X AXIS		Y AXIS		Z AXIS		
					ARM	MOMENT	ARM	MOMENT	ARM	MOMENT	
1											
2	25-36101-1	Body Section (As Weighed)		343.45	78.07	26,813.3	99.68	34,233.6	100.30	34,449.3	
3											
4											
5		ADD:		0							
6											
7											
8		DEDUCT:		0							
9											
10											
11	25-36101-1	Body Section (Complete)		343.45	78.07	26,813.3	99.68	34,233.6	100.30	34,449.3	
12											
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6.2.25				WEIGHT AND BALANCE CHANGE RECORD	
ASSOCIATE CONTRACTOR	BOEING	CONTRACT NO.	AFO4(594)-046		
COMPONENT	INTERSTAGE 1-2	LOT NO.			
MODEL NO.	WS-133	DRAWING NO.	25-36101-1		
SERIAL NO.	0000236	U.O. MISSILE	725		
		REPORT NO.	OFR-2100		
		DATE	1-26/63		
		PREPARED	W. BAIRD		
		APPROVED	G. ROBERTS		

ASSOCIATE CONTRACTOR	BOEING	CONTRACT NO.	AF04(694)-046	REPORT NO.	CPR-2100
COMPONENT	INTERSTAGE 1-2	LOT NO.		DATE	1-26/63
MODEL NO.	WS-133	DRAWING NO.	25-36101-1	PREPARED	W. BAIRD
SERIAL NO.	0000236	U.O. MISSILE	725	APPROVED	G. ROBERTS

EQUIPMENT CHANGE RECORD			WEIGHT AND BALANCE					
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS	
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1								
2	Body Section (As Weighed)	341.30	77.85	26,569.8	99.61	33,998.0	100.31	34,234.3
3								
4								
5	ADD:	0						
6								
7								
8	DEDUCT:	0						
9								
10								
11	Body Section (Complete)	341.30	77.85	26,569.8	99.61	33,998.0	100.31	34,234.3
12								
13								
14								
15								
16								
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6.2.26 WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		REPORT NO.		OPR-2104	
COMPONENT		INTERSTAGE 1-2		LOT NO.		DATE		5/3/63	
MODEL NO.		WS-133		DRAWING NO.		PREPARED		R. ST. ROMAIN	
SERIAL NO.		0000237		U.O. MISSILE		APPROVED		G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE					
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS ARM	X AXIS MOMENT	Y AXIS ARM	Y AXIS MOMENT	Z AXIS ARM	Z AXIS MOMENT	
1									
2	25-36101-1 Body Section (As Weighed)	341.90	77.84	26,614.2	99.47	34,008.5	100.33	34,302.6	
3									
4									
5	ADD:	0							
6									
7									
8	DEDUCT:	0							
9									
10									
11	25-36101-1 Body Section (Complete)	341.90	77.84	26,614.2	99.47	34,008.5	100.33	34,302.6	
12									
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15									
16									
17									
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6.2.27 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		OFR-2107	
COMPONENT		INTERSTAGE 1-2		LOT NO.				DATE		5/1/63	
MODEL NO.		WS-133		DRAWING NO.		25-36101-1		PREPARED		T. VOGEL	
SERIAL NO.		0000238		U.O. MISSILE		734		APPROVED		R. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
LINE	PART NO.	DESCRIPTION OF EQUIPMENT		WEIGHT	X AXIS		Y AXIS		Z AXIS		
					ARM	MOMENT	ARM	MOMENT	ARM	MOMENT	
1											
2	25-36101-1	Body Section (As Weighed)		342.35	77.94	26,684.3	99.35	34,046.6	100.32	34,344.8	
3											
4											
5		ADD:		0							
6											
7											
8		DEDUCT:		0							
9											
10											
11	25-36101-1	Body Section (Complete)		342.35	77.94	26,684.3	99.35	34,046.6	100.32	34,344.8	
12											
13											
14											
15											
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6.2.28 WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.	
COMPONENT		INTERSTAGE 1-2		LOT NO.				DATE	
MODEL NO.		WS-133		DRAWING NO.		25-36101-1		PREPARED	
SERIAL NO.		0000239		U.O. MISSILE		738		APPROVED	
								G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE					
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS		
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT	
1									
2	Body Section (As Weighed)	342.80	77.99	26,733.4	99.56	34,128.8	100.42	34,422.8	
3									
4									
5	ADD:	0							
6									
7									
8	DEDUCT:	0							
9									
10									
11	Body Section (Complete)	342.80	77.99	26,733.4	99.56	34,128.8	100.42	34,422.8	
12									
13									
14									
15									
16									
17									
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6.2.29 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		OPR-2103	
COMPONENT		INTERSTAGE 1-2		LOT NO.				DATE		5/7/63	
MODEL NO.		WS-133		DRAWING NO.		25-36101-1		PREPARED		T. VOGEL	
SERIAL NO.		0000245		U.O. MISSILE		728		APPROVED		G. ROBERTS	

EQUIPMENT CHANGE RECORD		WEIGHT AND BALANCE						
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS	
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1								
2	Body Section (As Weighed)	342.30	77.78	26,624.9	99.60	34,093.9	100.33	34,343.9
3								
4								
5	ADD:	0						
6								
7								
8	DEDUCT:	0						
9								
10								
11	Body Section (Complete)	342.30	77.78	26,624.9	99.60	34,093.9	100.33	34,343.9
12								
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16								
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.6.2.30 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.			
COMPONENT		INTERSTAGE 1-2		LOT NO.				DATE			
MODEL NO.		WS-133		DRAWING NO.		25-36101-1		PREPARED			
SERIAL NO.		0000246		U.O. MISSILE		730		APPROVED			
								G. ROBERTS			
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.		DESCRIPTION OF EQUIPMENT		WEIGHT		X AXIS		Y AXIS		Z AXIS	
						ARM		MOMENT		ARM	
1	25-36101-1	Body Section (As Weighed)		342.15		77.92	26,659.5	99.58	34,070.6	100.29	34,313.8
2											
3											
4											
5		ADD:		0							
6											
7											
8		DEDUCT:		0							
9											
10											
11	25-36101-1	Body Section (Complete)		342.15		77.92	26,659.5	99.58	34,070.6	100.29	34,313.8
12											
13											
14											
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6.2.31 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		OFR-2107	
COMPONENT		INTERSTAGE I-2		LOT NO.				DATE		5/2/63	
MODEL NO.		WS-133		DRAWING NO.		25-36101-1		PREPARED		J. L. HILL	
SERIAL NO.		0000247		U.O. MISSILE		733		APPROVED		G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
ENT	PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS			
				ARM	MOMENT	ARM	MOMENT	ARM	MOMENT		
1	25-36101-1	Body Section (As Weighed)	342.05	77.93	26,654.6	99.45	34,015.3	100.31	34,310.7		
2											
3											
4											
5		ADD:	0								
6											
7											
8		DEDUCT:	0								
9											
10	25-36101-1	Body Section (Complete)	-342.05	77.93	26,654.6	99.45	34,015.3	100.31	34,310.7		
11											
12											
13											
14											
15											
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6.2.32 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		003-2110	
COMPONENT		INTERSTAGE 1-2		LOT NO.				DATE		2/9/63	
MODEL NO.		WS-133		DRAWING NO.		25-36101-1		PREPARED		R. ST. FOULIN	
SERIAL NO.		0000248		U.O. MISSILE		736		APPROVED		G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.		DESCRIPTION OF EQUIPMENT		WEIGHT		X AXIS		Y AXIS		Z AXIS	
						ARM		MOMENT		ARM	
1	25-36101-1	Body Section (As Weighed)	339.45	78.04	26,491.0	99.59	33,807.5	100.28	34,039.7		
2											
3											
4											
5		ADD:	0								
6											
7											
8		DEDUCT:	0								
9											
10											
11	25-36101-1	Body Section (Complete)	339.45	78.04	26,491.0	99.59	33,807.5	100.28	34,039.7		
12											
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6.2.33 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		QNR-2097	
COMPONENT		INTERSTAGE 1-2		LOT NO.				DATE		4/25/63	
MODEL NO.		WS-133		DRAWING NO.		25-36101-1		PREPARED		W. FAIRD	
SERIAL NO.		0000346		U.O. MISSILE		722		APPROVED		G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.		DESCRIPTION OF EQUIPMENT		WEIGHT		X AXIS		Y AXIS		Z AXIS	
						ARM		ARM		ARM	
						MOMENT		MOMENT		MOMENT	
1	25-36101-1	Body Section (As Weighed)	341.70	77.89	26,616.4	99.56	34,020.1	100.25	34,256.5		
2											
3											
4											
5		ADD:	0								
6											
7											
8		DEDUCT:	0								
9											
10											
11	25-36101-1	Body Section (Complete)	341.70	77.89	26,616.4	99.56	34,020.1	100.25	34,256.5		
12											
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15											
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6.2.34 WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR BOEING		CONTRACT NO.		AF 04(694)-046		REPORT NO.		1-2-31	
COMPONENT INTERSTAGE 1-2		LOT NO.				DATE		4-7-63	
MODEL NO. WS-133		DRAWING NO.		25-36101-1		PREPARED		H. CHRISTIANSEN	
SERIAL NO. 000356		U.O. MISSILE		695		APPROVED		G. ROBERTS	

EQUIPMENT CHANGE RECORD		WEIGHT AND BALANCE						
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS	
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1								
2	25-36101-1 Body Section (As Weighed)	344.55	78.03	26,885.3	99.62	34,327.1	100.33	34,570.4
3								
4								
5	ADD:	0						
6								
7								
8	DEDUCT:	0						
9								
10								
11	25-36101-1 Body-Section (Complete)	344.55	78.03	26,885.3	99.62	34,327.1	100.33	34,570.4
12								
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6.2.35 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR: BOEING		CONTRACT NO.: AF04(694)-046		REPORT NO. OPR-2093							
COMPONENT INTERSTAGE 1-2		LOT NO.		DATE 4/22/63							
MODEL NO. WS-133		DRAWING NO. 25-36101-1		PREPARED R. HOLCOMB							
SERIAL NO. 0000357		U.O. MISSILE 718		APPROVED G. ROBERTS							
EQUIPMENT CHANGE RECORD		WEIGHT AND BALANCE									
LINE	PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS			
				ARM	MOMENT	ARM	MOMENT	ARM	MOMENT		
1											
2	25-36101-1	Body Section (As Weighed)	341.70	77.94	26,631.4	99.71	34,069.6	100.26	34,259.2		
3											
4											
5		ADD:	0								
6											
7											
8		DEDUCT:	0								
9											
10											
11	25-36101-1	Body Section (Complete)	341.70	77.94	26,631.4	99.71	34,069.6	100.26	34,259.2		
12											
13											
14											
15											
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2-12-3

Serial Number: 0000207

Serial Number: 0000207

CHECK LIST NO.		6.3.1 MISSILE WEIGHING CHECK LIST		RECORD OF CHECKING (DATE)					
9				Mo		3			
DATE		MODEL MS-133		Day		26			
		FINAL ASSEMBLY DRAWING NO. 21-50150		Yr		63			

6.3.1 WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR <u>BOEING</u>		CONTRACT NO. <u>AFM-694-046</u>		REPORT NO. <u>OPR-2079</u>					
COMPONENT <u>SKIRT</u>		LOT NO.		DATE <u>3/26/65</u>					
MODEL NO. <u>WS-133</u>		DRAWING NO. <u>25-36080-1</u>		PREPARED <u>H. CHRISTENSEN</u>					
SERIAL NO. <u>023207</u>		U.O. MISSILE <u>690</u>		APPROVED <u>G. ROBERTS</u>					
EQUIPMENT CHANGE RECORD		WEIGHT AND BALANCE							
ITEM	PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS	
				ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1	25-36080-1	Body Section (As Weighed)	274.70	68.67	18,862.8	100.52	27,612.3	100.50	27,606.5
2									
3									
4									
5		ADD:	0						
6									
7									
8		DEJECT:	0						
9									
10									
11	25-36080-1	Body Section (Complete)	274.70	68.67	18,862.8	100.52	27,612.3	100.50	27,606.5
12									
13									
14									
15									
16									
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6.3.2 WEIGHT AND BALANCE CHANGE RECORD												
ASSOCIATE CONTRACTOR <u>FORNIG</u>			CONTRACT NO. <u>AF04(604)-046</u>			REPORT NO. <u>OPR-2082</u>						
COMPONENT <u>SKINT</u>			LOT NO.			DATE <u>3/28/63</u>						
MODEL NO. <u>15-133</u>			DRAWING NO. <u>25-36080-1</u>			PREPARED <u>H. CHRISTIANSEN</u>						
SERIAL NO. <u>000208</u>			U.O. MISSILE <u>697</u>			APPROVED <u>G. ROBERTS</u>						
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE								
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS					
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT				
1												
2	25-36080-1 Body Section (As Weighed)	276.15	68.60	18,944.3	100.50	27,751.8	100.80	27,836.6				
3												
4												
5	ADD:	0										
6												
7												
8	DEDUCT:	0										
9												
10												
11	25-36080-1 Body Section (Complete)	276.15	68.60	18,944.3	100.50	27,751.8	100.80	27,836.6				
12												
13												
14												
15												
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6.3.3 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		EOTING		CONTRACT NO.		AF04(694)-046		REPORT NO.		CNS-2124	
COMPONENT		SKIRT		LOT NO.				DATE		4/3/63	
MODEL NO.		HS-133		DRAWING NO.		25-36080-1		PREPARED		H. CHRISTIANSON	
SERIAL NO.		000239		U.O. MISSILE		702		APPROVED		G. NOELIS	

EQUIPMENT CHANGE RECORD			WEIGHT AND BALANCE					
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS	
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1	25-36080-1 Body Section (As Weighed)	273.95	68.66	18,808.6	100.38	27,499.2	100.57	27,551.5
2								
3								
4								
5	ADD:	0						
6								
7								
8	DELIC:	0						
9								
10								
11	25-36080-1 Body Section (Complete)	273.95	68.66	18,808.6	100.38	27,499.2	100.57	27,551.5
12								
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6.3.4 WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR FOLLING			CONTRACT NO. AF04(694)-046			REPORT NO. 01-6087			
COMPONENT			LOT NO.			DATE			
MODEL NO.			DRAWING NO.			PREPARED			
SERIAL NO.			U.O. MISSILE			APPROVED			
			707			G. ROELOS			
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE					
LINE	PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS	
				ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1									
2	25-36080-1	Body Section (As Required)	275.00	68.87	18,938.5	100.58	27,660.4	100.47	27,629.3
3									
4									
5		ADD:	0						
6									
7									
8		DEL:	0						
9									
10									
11	25-36080-1	Body Section (Complete)	275.00	68.87	18,938.5	100.58	27,660.4	100.47	27,629.3
12									
13									
14									
15									
16									
17									
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6.3.5 WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR		FOOTING		CONTRACT NO.		AF04(694)-046		REPORT NO.	
COMPONENT		SITE		LOT NO.				DATE	
MODEL NO.		US-112		DRAWING NO.		25-36080-1		PREPARED	
SERIAL NO.		000213		U.O. MISSILE		688		APPROVED	
								G. JONES	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE					
LINE	PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS	
				ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1	25-36080-1	Body Section (As Weighed)	272.20	68.80	18,726.3	100.68	27,405.8	100.53	27,364.0
2									
3									
4									
5		ADD:	0						
6									
7									
8		DEDUCT:	0						
9									
10									
11	25-36080-1	Body Section (Complete)	272.20	68.80	18,726.3	100.68	27,405.8	100.53	27,364.0
12									
13									
14									
15									
16									
17									
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6.3.6 WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		REPORT NO.			
COMPONENT		SKIRT		LOT NO.		DATE			
MODEL NO.		H3-133		DRAWING NO.		PREPARED			
SERIAL NO.		0000214		U.O. MISSILE		APPROVED			
				693		G. ROBERTS			
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE					
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS ARM	X AXIS MOMENT	Y AXIS ARM	Y AXIS MOMENT	Z AXIS ARM	Z AXIS MOMENT	
1									
2	25-36080-1 Body Section (As Weighed)	272.75	68.63	18,719.5	100.42	27,390.1	100.60	27,438.8	
3									
4									
5									
6	ADD:	0							
7									
8	DEDUCT:	0							
9									
10									
11	25-36080-1 Body Section (Complete)	272.75	68.63	18,719.5	100.42	27,390.1	100.60	27,438.8	
12									
13									
14									
15									
16									
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6.3.7		WEIGHT AND BALANCE CHANGE RECORD			
ASSOCIATE CONTRACTOR	BOEING	CONTRACT NO.	AFO4(694)-046	REPORT NO.	OPR-2083
COMPONENT	SKIRT	LOT NO.		DATE	4/1/63
MODEL NO.	WS-133	DRAWING NO.	25-36080-1	PREPARED	H. CHRISTIANSEN
SERIAL NO.	0000215	U.O. MISSILE	700	APPROVED	G. ROBERTS

EQUIPMENT CHANGE RECORD		WEIGHT AND BALANCE						
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS	
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1								
2	Body Section (As Weighed)	274.00	68.84	18,861.7	100.43	27,516.9	100.64	27,576.4
3								
4								
5	ADD:	0						
6								
7								
8	DEDUCT:	0						
9								
10								
11	Body Section (Complete)	274.00	68.84	18,861.7	100.43	27,516.9	100.64	27,576.4
12								
13								
14								
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6.3.8		WEIGHT AND BALANCE CHANGE RECORD	
ASSOCIATE CONTRACTOR	BOEING	CONTRACT NO.	AF04(694)-046
COMPONENT	SKIRT	LOT NO.	
MODEL NO.	WS-133	DRAWING NO.	25-36080-1
SERIAL NO.	0000216	U.O. MISSILE	704
REPORT NO.	OPR-2085	DATE	4/3/63
PREPARED	H. CHRISTIANSEN	APPROVED	G. ROBERTS

EQUIPMENT CHANGE RECORD		WEIGHT AND BALANCE						
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS	
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1								
2	25-36080-1 Body Section (As Weighed)	272.50	68.85	18,760.8	100.46	27,374.2	100.59	27,412.0
3								
4								
5	ADD:	0						
6								
7								
8	DEDUCT:	0						
9								
10								
11	25-36080-1 Body Section (Complete)	272.50	68.85	18,760.8	100.46	27,374.2	100.59	27,412.0
12								
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6.3.9 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		OPR-2088	
COMPONENT		SKIRT		LOT NO.				DATE		4/11/63	
MODEL NO.		WS-133		DRAWING NO.		25-36080-1		PREPARED		W. BAIRD	
SERIAL NO.		0000217		U.O. MISSILE		709		APPROVED		G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.		DESCRIPTION OF EQUIPMENT		WEIGHT		X AXIS		Y AXIS		Z AXIS	
						ARM		MOMENT		ARM	
1	25-36080-1	Body Section (As Weighed)	274.70	68.71	18,875.9	100.31	27,554.3	100.75	27,675.4		
2											
3											
4											
5		ADD:	0								
6											
7											
8		DEDUCT:	0								
9											
10	25-36080-1	Body Section (Complete)	274.70	68.71	18,875.9	100.31	27,554.3	100.75	27,675.4		
11											
12											
13											
14											
15											
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6.3.10 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		OPR-2090	
COMPONENT		SKIRT		LOT NO.				DATE		4/10/63	
MODEL NO.		WS-133		DRAWING NO.		25-36080-1		PREPARED		W. BAIRD	
SERIAL NO.		0000218		U.O. MISSILE		712		APPROVED		G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.		DESCRIPTION OF EQUIPMENT		WEIGHT		X AXIS		Y AXIS		Z AXIS	
						ARM		MOMENT		ARM	
1	25-36080-1	Body Section (As Weighed)		276.35		68.69	18,983.0	100.56	27,789.9	100.54	27,784.1
2											
3											
4											
5		ADD:		0							
6											
7											
8		DEDUCT:		0							
9											
10											
11	25-36080-1	Body Section (Complete)		276.35		68.69	18,983.0	100.56	27,789.9	100.54	27,784.1
12											
13											
14											
15											
16											
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6.3.11 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF 04(694)-046		REPORT NO.		OPR-2092	
COMPONENT		SKIRT		LOT NO.				DATE		4-12-63	
MODEL NO.		WS-133		DRAWING NO.		25-36080-1		PREPARED		T. VOISEL	
SERIAL NO.		0000219		U.O: MISSILE		716		APPROVED		G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.		DESCRIPTION OF EQUIPMENT		WEIGHT		X AXIS		Y AXIS		Z AXIS	
						ARM		ARM		ARM	
						MOMENT		MOMENT		MOMENT	
1	25-36080-1	Body Section (As weighed)		277.00	68.75	19,045.1	100.49	27,835.0	100.57	27,859.1	
2											
3											
4											
5		ADD:		0							
6											
7											
8		DEDUCT:		0							
9											
10											
11	25-36080-1	Body Section (Complete)		277.00	68.75	19,045.1	100.49	27,835.0	100.57	27,859.1	
12											
13											
14											
15											
16											
17											
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6.3.12 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF 04(694)-046		REPORT NO.			
COMPONENT		SKIRT		LOT NO.				DATE			
MODEL NO.		WS-133		DRAWING NO.		25-36080-1		PREPARED			
SERIAL NO.		0000220		U.O. MISSILE		720		APPROVED			
								G. ROBERTS			
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.		DESCRIPTION OF EQUIPMENT		WEIGHT		X AXIS		Y AXIS		Z AXIS	
						ARM		MOMENT		ARM	
1	25-36080-1	Body Section (As Weighed)		274.40		68.71	18,852.7	100.29	27,520.7	100.74	27,641.8
2											
3											
4											
5		ADD:		0							
6											
7											
8		DEDUCT:		0							
9											
10											
11	25-36080-1	Body Section (Complete)		274.40		68.71	18,852.7	100.29	27,520.7	100.74	27,641.8
12											
13											
14											
15											
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6.3.13 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		OFR-2089	
COMPONENT		SKIRT		LOT NO.				DATE		4/8/63	
MODEL NO.		WS-133		DRAWING NO.		25-36080-1		PREPARED		H. CHRISTIANSEN	
SERIAL NO.		0000221		U.O. MISSILE		711		APPROVED		G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.		DESCRIPTION OF EQUIPMENT		WEIGHT		X AXIS		Y AXIS		Z AXIS	
						ARM		MOMENT		ARM	
1	25-36080-1	Body Section (As Weighed)		276.00		68.70	18,960.8	100.42	27,716.9	100.49	27,736.4
2											
3											
4											
5		ADD:		0							
6											
7											
8		DEDUCT:		0							
9											
10											
11	25-36080-1	Body Section (Complete)		276.00		68.70	18,960.8	100.42	27,716.9	100.49	27,736.4
12											
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14											
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6.3.14 WEIGHT AND BALANCE CHANGE RECORD											
CONTRACTOR		DRAWING		CONTRACT NO.		AFOL(694)-046		REPORT NO.		CFR-2091	
DATE		SKETCH		LOT NO.				DATE		1/10/63	
DRAWING NO.		WS-133		DRAWING NO.		25-36080-1		PREPARED		H. CHRISTIANSEN	
SERIAL NO.		C000222		U.O. MISSILE		714		APPROVED		G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.		DESCRIPTION OF EQUIPMENT		WEIGHT		X AXIS		Y AXIS		Z AXIS	
						ARM		MOMENT		ARM	
1	25-36080-1	Body Section (As Weighed)	274.70	68.11	18,885.3	100.48	27,601.4	100.64	27,646.4		
2											
3											
4											
5		ADD:	0								
6											
7											
8		DEDUCT:	0								
9											
10	25-36080-1	Body Section (Complete)	274.70	68.75	18,885.3	100.48	27,601.4	100.64	27,646.4		
11											
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6.3.15 WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF 04(694)-046		REPORT NO.	
COMPONENT		SHEET		LOT NO.				DATE	
MODEL NO.		WS-133		DRAWING NO.		25-36080-1		PREPARED	
SERIAL NO.		0000223		U.O. MISSILE		719		APPROVED	
								G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE					
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS		
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT	
1									
2	25-36080-1 Body Section (As Weighed)	274.70	68.89	18,922.8	100.52	27,612.3	100.63	27,642.8	
3									
4									
5	100	0							
6									
7									
8	DEDUCT	0							
9									
10									
11	25-36080-1 Body Section (Complete)	274.70	68.89	18,922.8	100.52	27,612.3	100.63	27,642.8	
12									
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14									
15									
16									
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6.3.16 WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR		EOLING		CONTRACT NO.		REPORT NO.		OPR-2005	
COMPONENT		SKETCH		LOT NO.		DATE		4-16-63	
MODEL NO.		MS-133		DRAWING NO.		PREPARED		J. HILL	
SERIAL NO.		0000224		U.O. MISSILE		APPROVED		G. FORBES	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE					
LINE	PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS	
				ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1									
2	25-36080-1	Body Section (As Weighed)	275.90	68.79	18,978.1	100.62	27,761.3	100.52	27,733.7
3									
4									
5		ADD:	0						
6									
7									
8		DEDUCT:	0						
9									
10									
11	25-36080-1	Body Section (Complete)	275.90	68.79	18,978.1	100.62	27,761.3	100.52	27,733.7
12									
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14									
15									
16									
17									
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6.3.17 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AFOL(694)-046		REPORT NO.		OPR-2099	
COMPONENT		SKIRT		LOT NO.				DATE		4/22/63	
MODEL NO.		WS-133		DRAWING NO.		25-36080-1		PREPARED		R. ST. ROZAIN	
SERIAL NO.		0000225		U.O. MISSILE		724		APPROVED		G. ROBERTS	

EQUIPMENT CHANGE RECORD		WEIGHT AND BALANCE						
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS	
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1	25-36080-1 Body Section (As Weighed)	274.55	63	18,898.1	100.50	27,591.8	100.61	27,622.3
2								
3								
4								
5	ADD:	0						
6								
7								
8	DEDUCT:	0						
9								
10								
11	25-36080-1 Body Section (Complete)	274.55	68.83	18,898.1	100.50	27,591.8	100.61	27,622.3
12								
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14								
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6.3.18 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.			
COMPONENT		SKIRT		LOT NO.				DATE			
MODEL NO.		WS-133		DRAWING NO.		25-36080-1		PREPARED			
SERIAL NO.		0000226		U.O. MISSILE		727		APPROVED			
								G. ROBERTS			
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.		DESCRIPTION OF EQUIPMENT		WEIGHT		X AXIS		Y AXIS		Z AXIS	
						ARM		MOMENT		ARM	
1	25-36080-1	Body Section (As Weighed)		275.75		68.80	18,972.2	100.65	27,755.3	100.55	27,727.8
2											
3											
4											
5		ADD:		0							
6											
7											
8		DEDUCT:		0							
9											
10											
11	25-36080-1	Body Section (Complete)		275.75		68.80	18,972.2	100.65	27,755.3	100.55	27,727.8
12											
13											
14											
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6.3.19 WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR		REPORT NO.		DATE		PREPARED		APPROVED	
COMPONENT		CONTRACT NO.		LOT NO.		DRAWING NO.		U.O. MISSILE	
MODEL NO.		AF04(604)-046		25-36080-1		732			
SERIAL NO.		OCC0227							
EQUIPMENT CHANGE RECORD		WEIGHT AND BALANCE							
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS		
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT	
1									
2	Body Section (As Weighed)	272.50	68.75	18,736.4	100.46	27,374.2	100.63	27,422.9	
3									
4									
5	ADD:	0							
6									
7									
8	DEDUCT:	0							
9									
10									
11	Body Section (Complete)	272.50	68.75	18,736.4	100.46	27,374.2	100.63	27,422.9	
12									
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15									
16									
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6.3.20 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		OPR-2109	
COMPONENT		SKIRT		LOT NO.				DATE		4/30/63	
MODEL NO.		WS-133		DRAWING NO.		25-36080-1		PREPARED		T. VOGEL	
SERIAL NO.		0000228		U.O. MISSILE		735		APPROVED		G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.		DESCRIPTION OF EQUIPMENT		WEIGHT		X AXIS		Y AXIS		Z AXIS	
						ARM		MOMENT		ARM	
1	25-36080-1	Body Section (As Weighed)		271.95	68.69	18,679.5	100.50	27,331.9	100.59	27,355.3	
2											
3											
4											
5		ADD:		0							
6											
7											
8		DEDUCT:		0							
9											
10	25-36080-1	Body Section (Complete)		271.95	68.69	18,679.5	100.50	27,331.9	100.59	27,355.3	
11											
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6.3.21 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		OPR-2811	
COMPONENT		SKINF		LOT NO.				DATE		5/2/63	
MODEL NO.		WS-133		DRAWING NO.		25-36080-1		PREPARED		R. ST. ROBIN	
SERIAL NO.		0000229		U.O. MISSILE		737		APPROVED		G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.		DESCRIPTION OF EQUIPMENT		WEIGHT		X AXIS		Y AXIS		Z AXIS	
						ARM		MOMENT		ARM	
1	25-36080-1	Pod Section (As Weighed)		272.50	68.61	18,697.0	100.63	27,421.3	100.54	27,397.6	
2											
3											
4											
5		APD:		0							
6											
7											
8		DEDUCT:		0							
9											
10											
11	25-36080-1	Body Section (Complete)		272.50	68.61	18,697.0	100.63	27,421.3	100.54	27,397.6	
12											
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6.3.22 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		CONTRACT NO.		REPORT NO.		DATE		OIR-2086			
COMPONENT		LOT NO.		DATE		DATE		4/4/63			
MODEL NO.		DRAWING NO.		PREPARED		PREPARED		H. CHRISTIANSEN			
SERIAL NO.		U.O. MISSILE		APPROVED		APPROVED		G. ROBERTS			
				706							
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.		DESCRIPTION OF EQUIPMENT		WEIGHT		X AXIS		Y AXIS		Z AXIS	
						ARM		MOMENT		ARM	
1	25-36080-1	Body Section (As Verified)	273.35	68.90	18,833.4	100.49	27,468.2	100.48	27,466.2		
2											
3											
4											
5		ADD:	0								
6											
7											
8		DEDUCT:	0								
9											
10											
11	25-36080-1	Body Section (Complete)	273.35	68.90	18,833.4	100.49	27,468.2	100.48	27,466.2		
12											
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6.3.23 WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF 04(694)-046		REPORT NO.	
COMPONENT		SKIRT		LOT NO.				DATE	
MODEL NO.		WS-133		DRAWING NO.		25-36080-1		PREPARED	
SERIAL NO.		0000233		U.O. MISSILE		726		APPROVED	
								J. HILL	
								G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE					
LINE	PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS	
				ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1	25-36080-1	Body Section (As Weighed)	275.20	68.73	18,915.2	100.66	27,702.1	100.54	27,667.4
2									
3									
4									
5		ADD:	0						
6									
7									
8		DEDUCT:	0						
9									
10									
11	25-36080-1	Body Section (Complete)	275.20	68.73	18,915.2	100.66	27,702.1	100.54	27,667.4
12									
13									
14									
15									
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6.3.24 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF 04(694)-046		REPORT NO.		OPR-2008	
COMPONENT		SKIRT		LOT NO.				DATE		4-18-63	
MODEL NO.		WS-133		DRAWING NO.		25-36080-1		PREPARED		J. HILL	
SERIAL NO.		0000235		U.O. MISSILE		723		APPROVED		G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.		DESCRIPTION OF EQUIPMENT		WEIGHT		X AXIS		Y AXIS		Z AXIS	
						ARM		MOMENT		ARM	
1	25-36080-1	Body Section (As Weighed)		275.55		68.78	18,952.3	100.73	27,757.1	100.50	27,693.3
2											
3											
4											
5		ADD:		0							
6											
7											
8		DEDUCT:		0							
9											
10											
11	25-36080-1	Body Section (Complete)		275.55		68.78	18,952.3	100.73	27,757.1	100.50	27,693.3
12											
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6.3.25 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.			
COMPONENT		SKIRT		LOT NO.				DATE			
MODEL NO.		WS-133		DRAWING NO.		25-36080-1		PREPARED			
SERIAL NO.		0000236		U.O. MISSILE		725		APPROVED			
								G. ROBERTS			
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.				WEIGHT		X AXIS		Y AXIS		Z AXIS	
DESCRIPTION OF EQUIPMENT						ARM		MOMENT		ARM	
1	25-36080-1	Body Section (As Weighed)		275.05		68.81	18,926.1	100.68	27,692.6	100.48	27,636.1
2											
3											
4											
5		ADD:		0							
6											
7											
8		DEDUCT:		0							
9											
10											
11	25-36080-1	Body Section (Complete)		275.05		68.81	18,926.1	100.68	27,692.6	100.48	27,636.1
12											
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14											
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6.3.26 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		OPR-2104	
EQUIPMENT		SKIFT		LOT NO.				DATE		4/25/63	
NO. NO.		WS-133		DRAWING NO.		25-36080-1		PREPARED		W. BAIRD	
SERIAL NO.		0000237		U.O. MISSILE		729		APPROVED		G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS	Y AXIS	Z AXIS	ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1											
2	25-36080-1 Body Section (As Weighed)	271.55	68.81	18,684.8	100.52	27,295.5	100.64	27,329.9			
3											
4											
5	ADD:	0									
6											
7											
8	DEDUCT:	0									
9											
10											
11	25-36080-1 Body Section (Complete)	271.55	68.81	18,684.8	100.52	27,295.5	100.64	27,329.9			
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15											
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6.3.27 WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.	
COMPONENT		SKIRT		LOT NO.				DATE	
MODEL NO.		WS-133		DRAWING NO.		25-36080-1		PREPARED	
SERIAL NO.		0000238		U.O. MISSILE		734		APPROVED	
								G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE					
ENT	PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS	
				ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1									
2	25-36080-1	Body Section (As Weighed)	271.85	68.65	18,663.0	100.50	27,321.9	100.66	27,363.4
3									
4									
5		ADD:	0						
6									
7									
8		DEDUCT:	0						
9									
10									
11	25-36080-1	Body Section (Complete)	271.85	68.65	18,663.0	100.50	27,321.9	100.66	27,363.4
12									
13									
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15									
16									
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6.3.28 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AFOL(694)-046		REPORT NO.		OPR-2112	
COMPONENT		SKIRT		LOT NO.				DATE		5/2/63	
MODEL NO.		WS-133		DRAWING NO.		25-36080-1		PREPARED		T. VOGEL	
SERIAL NO.		0000239		U.O. MISSILE		738		APPROVED		G. ROBERES	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
LINE	PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS			
				ARM	MOMENT	ARM	MOMENT	ARM	MOMENT		
1	25-36080-1	Body Section (As Weighed)	272.00	68.76	18,702.7	100.56	27,353.2	100.50	27,336.7		
2											
3											
4											
5		ADD:	0								
6											
7											
8		DEDUCT:	0								
9											
10											
11	25-36080-1	Body Section (Complete)	272.00	68.76	18,702.7	100.56	27,353.2	100.50	27,336.7		
12											
13											
14											
15											
16											
17											
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6.3.29 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR BOEING		CONTRACT NO.		REPORT NO.		DATE		PREPARED		APPROVED	
COMPONENT		LOT NO.		X AXIS		Y AXIS		Z AXIS			
MODEL NO.		DRAWING NO.		ARM		MOMENT		ARM		MOMENT	
SERIAL NO.		U.O. MISSILE		ARM		MOMENT		ARM		MOMENT	
1	25-36080-1	Body Section (As Weighed)	274.80	68.73	18,886.8	100.41	27,593.3	100.67	27,663.6		
2											
3											
4											
5		ADD:	0								
6											
7											
8		DEDUCT:	0								
9											
10											
11	25-36080-1	Body Section (Complete)	274.80	68.73	18,886.8	100.41	27,593.3	100.67	27,663.6		
12											
13											
14											
15											
16											
17											
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6.3.30 WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		OPR-2105	
COMPONENT		LOT NO.				DATE		4/26/63	
MODEL NO.		DRAWING NO.		25-36080-1		PREPARED		JIM HILL	
SERIAL NO.		U.O. MISSILE		730		APPROVED		G. ROBERTS	

EQUIPMENT CHANGE RECORD		WEIGHT AND BALANCE							
LINE	PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS	
				ARM	MOMENT	ARM	MOMENT	ARM	MOMENT
1									
2	25-36080-1	Body Section (As Weighed)	274.70	68.82	18,905.9	100.43	27,586.9	100.79	27,686.3
3									
4									
5		ADD:	0						
6									
7									
8		DEDUCT:	0						
9									
10									
11	25-36080-1	Body Section (Complete)	274.70	68.82	18,905.9	100.43	27,586.9	100.79	27,686.3
12									
13									
14									
15									
16									
17									
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30									
31									
32									

DRAWING

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6.3.31 WEIGHT AND BALANCE CHANGE RECORD									
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.	
COMPONENT		SKIRT		LOT NO.				DATE	
MODEL NO.		WS-133		DRAWING NO.		25-36080-1		PREPARED	
SERIAL NO.		0000247		U.O. MISSILE		733		APPROVED	
								G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE					
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS		
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT	
1									
2	Body Section (As Weighed)	272.45	68.68	18,713.2	100.48	27,374.6	100.76	27,452.4	
3									
4									
5	ADD:	0							
6									
7									
8	DEDUCT:	0							
9									
10									
11	Body Section (Complete)	272.45	68.68	18,713.2	100.48	27,374.6	100.76	27,452.4	
12									
13									
14									
15									
16									
17									
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EQUIPMENT

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6.3.32 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		OPR-2110	
COMPONENT		SKIRT		LOT NO.				DATE		5/1/63	
MODEL NO.		WS-133		DRAWING NO.		25-36080-1		PREPARED		R. ST. ROYAIN	
SERIAL NO.		0000248		U.O. MISSILE		736		APPROVED		G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.		DESCRIPTION OF EQUIPMENT		WEIGHT	X AXIS		Y AXIS		Z AXIS		
					ARM	MOMENT	ARM	MOMENT	ARM	MOMENT	
1	25-36080-1	Body Section (As Weighed)		272.15	68.70	18,695.6	100.58	27,373.6	100.51	27,353.5	
2											
3											
4											
5		ADD:		0							
6											
7											
8		DEDUCT:		0							
9											
10											
11	25-36080-1	Body Section (Complete)		272.15	68.70	18,695.6	100.58	27,373.6	100.51	27,353.5	
12											
13											
14											
15											
16											
17											
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6.3.33 WEIGHT AND BALANCE CHANGE RECORD											
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF 04(694)-046		REPORT NO.		OPR-2097	
COMPONENT		SKIRT		LOT NO.				DATE		4-16-63	
MODEL NO.		WS-133		DRAWING NO.		25-36080-1		PREPARED		J. HILL	
SERIAL NO.		0000346		U.O. MISSILE		722		APPROVED		G. ROBERTS	
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE							
PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS				
			ARM	MOMENT	ARM	MOMENT	ARM	MOMENT	ARM	MOMENT	
1											
2	Body Section (As Weighed)	275.60	68.78	18,955.0	100.62	27,731.0	100.43	27,678.0			
3											
4											
5	ADD:	0									
6											
7											
8	DEDUCT:	0									
9											
10											
11	Body Section (Complete)	275.60	68.78	18,955.0	100.62	27,731.0	100.43	27,678.0			
12											
13											
14											
15											
16											
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BOEING

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6.3.34 WEIGHT AND BALANCE CHANGE RECORD													
ASSOCIATE CONTRACTOR		BOEING		CONTRACT NO.		AF04(694)-046		REPORT NO.		OPR-2081			
COMPONENT		SKIRT		LOT NO.				DATE		3/27/63			
MODEL NO.		WS-133		DRAWING NO.		25-36080-1		PREPARED		H. CHRISTIANSEN			
SERIAL NO.		0000356		U.O. MISSILE		695		APPROVED		G. ROBERTS			
EQUIPMENT CHANGE RECORD				WEIGHT AND BALANCE									
PART NO.		DESCRIPTION OF EQUIPMENT		WEIGHT		X AXIS		Y AXIS		Z AXIS			
						ARM		ARM		ARM		MOMENT	
1	25-36080-1	Body Section (As Weighed)		272.55		68.72	18,729.6	100.53	27,399.1	100.55	27,404.4		
2													
3													
4													
5		ADD:		0									
6													
7													
8		DEDUCT:		0									
9													
10													
11	25-36080-1	Body Section (Complete)		272.55		68.72	18,729.6	100.53	27,399.1	100.55	27,404.4		
12													
13													
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15													
16													
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6.3.35 WEIGHT AND BALANCE CHANGE RECORD

ASSOCIATE CONTRACTOR	BOEING	CONTRACT NO.	AF 04(694)-046	REPORT NO.	OPR-2093
COMPONENT	SKIRT	LOT NO.		DATE	4-18-63
MODEL NO.	WS-133	DRAWING NO.	25-36080-1	PREPARED	T. VOGEL
SERIAL NO.	0000357	U.O. MISSILE	718	APPROVED	G. ROBERTS

EQUIPMENT CHANGE RECORD			WEIGHT AND BALANCE							
LINE	PART NO.	DESCRIPTION OF EQUIPMENT	WEIGHT	X AXIS		Y AXIS		Z AXIS		
				ARM	MOMENT	ARM	MOMENT	ARM	MOMENT	
1										
2	25-36080-1	Body Section (As Weighed)	274.10	68.79	18,855.8	100.52	27,552.3	100.56	27,564.7	
3										
4										
5		ADD:	0							
6										
7										
8		DEDUCT:	0							
9										
10										
11	25-36080-1	Body Section (Complete)	274.10	68.79	18,855.8	100.52	27,552.3	100.56	27,564.7	
12										
13										
14										
15										
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6.4

BASE HEAT DEFLECTORS

SERIAL NUMBER	25-36379-1	25-36378-1	25-36377-1
0000207	5.89 lb.	15.66 lb.	25.26 lb.
0000208	5.91	15.40	25.17
0000209	5.90	15.50	25.13
0000210	5.90	15.64	25.51
0000213	5.76	15.51	25.66
0000214	5.97	15.36	25.17
0000215	5.91	15.56	25.44
0000216	5.83	15.79	25.55
0000217	5.83	15.63	25.85
0000218	5.99	15.55	24.87
0000219	5.89	15.60	25.30
0000220	5.90	15.84	25.36
0000221	5.89	15.67	25.42
0000222	5.96	15.69	25.07
0000223	5.98	15.56	25.82
0000224	5.89	15.72	25.52
0000225	5.84	15.55	25.34
0000226	5.99	15.77	25.49
0000227	5.98	15.61	25.46
0000228	5.81	15.68	25.53
0000229	5.89	15.58	25.26
0000232	5.89	15.61	25.56
0000233	5.83	15.81	25.32
0000235	5.82	15.70	25.47
0000236	6.02	15.64	25.79
0000237	5.84	15.47	25.79
0000238	5.90	15.55	24.79
0000239	5.90	15.69	25.78
0000245	6.02	14.96	25.03
0000246	5.87	15.50	25.37
0000247	5.87	15.60	25.50
0000248	5.89	15.73	24.91
0000346	6.00	15.60	25.59
0000356	5.89	15.60	25.44
0000357	5.96	15.78	25.46