



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS 77058

REPLY TO
ATTN OF: FS66-71-75

JUN 30 1971

MEMORANDUM

TO: PA/Apollo Spacecraft Program Office
Attn: PD4/John R. Sevier

FROM: FS/Chief, Flight Support Division

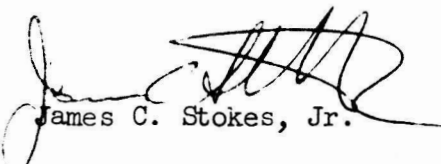
SUBJECT: Final E-Load Apollo 15 (Mission J1) Prelaunch Erasable Load
COLOSSUS III (ARTEMIS 72)

Enclosure 1 to this memorandum consists of the current values for the parameters in the Apollo 15 (mission J1) Prelaunch Erasable Load for the CMC.

A single or double star (* or **) next to a parameter mnemonic denotes that it is also in the Inflight Erasable Load. These parameters would have to be verified or reloaded in order to completely initialize the CMC in orbit. A single star denotes loading by ground uplink; a double star denotes loading by the astronaut via the DSKY.

Enclosure 2 is the Inflight Erasable Load in uplink format. All values in the Inflight Erasable Load are consistent with the values in the Prelaunch Erasable Load.

Questions or comments regarding erasable loads should be directed to Mr. J. A. Martin, Jr., extension 2308.


James C. Stokes, Jr.

2 Enclosures

cc:
(See list attached)

FS66/JAMartin:jvm:6/28/71:2308

FINAL E-LOAD ARTEMIS 72 APOLLO-15

REV	MNE/MONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
	FLAGWRD1+	0	0075 00000	0		
1	FLAGWRD2+	0	0077 40000	0		
	FLAGWRD8+	0	0104 00200	0		
	FLAGWRD9+	0	0105 00004	0		
1	FLGWRD10+	0	0106 00000	0		
*	CB1FLWRD+	0	0374 00000	0		
*	NO.PASS +	0	0737 37777	14	1.6383000000 04 UNITLESS	1.6383000000 04 UNITLESS
*	A26/PRI +	0	1016 00000	14	0.0 MIN	0.0 CS
*	A26/2CAD+	0	1017 00000 1020 00000	0		0.0
	PIPTIME +	0	1043 01471 1044 16040	28	1.3524000000 07 CS	1.3524000000 07 CS

PREDICTED VALUE OF AGC CLOCK AT L/C 37/34

FINAL E-LEAD ARTEMIS 72 APOLLO-15

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
	FCNCSALT+ 0	1133	00000	29	2.933070866E 02 FT	8.940000000E 01 M
		1134	00055			
	PACLONG + 0	1135	30653	0	2.793958866E 02 DEG	7.760998295E-01 REV
		1136	23562			

PAD 39A

*	CEUCFKWD+ 0	1341	00005	14	5.000000000E 00 CS	5.000000000E 00 CS
*	RTFD1 + 0	1342	06510	3	1.660263700E 00 UNITLESS	1.660263700E 00 UNITLESS
		1343	07025			
*	DVTFRESH+ 0	1344	00620	-2	2.000000000E 00 FT/SEC	6.096000000E-03 M/CS
*	FCP17ALT+ 0	1345	00000	29	2.800000000E 01 KM	2.800000000E 04 M
		1346	33260			
*	ALTVAR + 0	1347	37723	-16	1.521680000E-05 RADIANS2	1.521680000E-05 RADIANS2

FINAL F-LOAD ARTEMIS 72 APOLLO-15

REV	MEMORIC	ADDR	COTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
*	EMDOT	+ 0	1350 01163	3	6.7500000000 C1 LBS/SEC	3.0617484980-01 KG/CS
1 *	PBIASX	+ 0	1452 03005	-6	2.8215223100-02 FT/SEC2	1.4700854700-03 PIPS/CS
1 *	PIPASCFX+	0	1453 70750	-9	-4.3000000000 C2 PPM	-4.3000000000-04 PIPS/PIP
1 *	PBIASY	+ 0	1454 77536	-6	-2.9527559060-03 FT/SEC2	-1.5384615390-04 PIPS/CS
1 *	PIPASCFY+	0	1455 74561	-9	-2.0000000000 C2 PPM	-2.0000000000-04 PIPS/PIP
1 *	PBIASZ	+ 0	1456 77121	-6	-7.8740157480-03 FT/SEC2	-4.1025641020-04 PIPS/CS
1 *	PIPASCFZ+	0	1457 75031	-9	-1.8000000000 C2 PPM	-1.8000000000-04 PIPS/PIP
1 *	NBDX	+ 0	1460 77332	-5	-2.3000000000 C0 MERU	-5.5979806440-04 G PUL/CS
1 *	NBDY	+ 0	1461 77232	-5	-2.8000000000 C0 MERU	-6.8149329580-04 G PUL/CS
1 *	NBDZ	+ 0	1462 76664	-5	-4.6000000000 C0 MERU	-1.1195961290-03 G PUL/CS
1 *	ACIAX	+ 0	1463 77433	-3	-1.2000000000 C1 MERU/G	-1.7422881900-03 GPUL/PIP
1 *	ACIAY	+ 0	1464 77640	-3	-5.0000000000 C0 MERU/G	-7.2595341250-04 GPUL/PIP
1 *	ACIAZ	+ 0	1465 00000	-3	0.0 MERU/G	0.0 GPUL/PIP

FINAL E-LOAD ARTEMIS 72 APOLLO-15

REV	MNEMONIC	ADDR	DCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
1 *	ACSRAX	+ 0	1466 77572	-3	-7.0000000000 C0 MERU/G	-1.016334778E-03 GPUL/PIP
1 *	ACSRAY	+ 0	1467 00435	-3	1.5000000000 C1 MERU/G	2.177860237E-03 GPUL/PIP
*	ACSRAZ	+ 0	1470 77731	-3	-2.0000000000 C0 MERU/G	-2.903813650E-04 GPUL/PIP
*	TEPFEM	+ 0	1706 00000 1707 30560 1710 10000	42	5.7600000000 C2 HRS	2.0736000000 08 CS

TEPFEM TO MIDNIGHT PRIOR TO JUL25,1971

*	UNITW	+ 0	1711 77777 1712 67066	C	-1.696124673E-05 UNITLESS	-1.696124673E-05 UNITLESS
*	UNITW	+ 2	1713 00000 1714 20144	C	3.089010716E-05 UNITLESS	3.089010716E-05 UNITLESS
*	UNITW	+ 4	1715 37777 1716 37777	C	9.999999963E-01 UNITLESS	9.999999963E-01 UNITLESS

FINAL E-LOAD ARTEMIS 72 APOLLO-15

REV	MNEMONIC	ADDR	CCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
2	REFSMMAT+	0 1733	12704	1	6.8020000100-C1 UNITLESS	6.8020000100-C1 UNITLESS
		1734	06263			

REV 2 OF E-LOAD TAPE

1	REFSMMAT+	2 1735	13463	1	7.2500010000-C1 UNITLESS	7.2500010000-C1 UNITLESS
		1736	06332			

DATE TO WHICH TEPHEM IS VALID FOR THIS E-LOAD

1 *	FIMP1SEC+	0 1763	01545	14	1.9538260000 C4 LBF SEC	8.6910510450 02 KG M/CS
2 *	EFIMP01 +	0 1764	02077	14	2.4447360000 C4 LBF	1.0874727520 03 KGM/CS/S
2 *	EFIMP16 +	0 1765	01571	14	1.9989000000 C4 LBF	8.8915501860 02 KGM/CS/S
*	E3J22R2M+	0 1766	12160	58	9.2047904790 16 M5/CS2	9.2047904790 16 M5/CS2
*	E32031RM+	0 1767	03363	80	1.3128925600 23 M6/CS2	1.3128925600 23 M6/CS2

FINAL E-LOAD ARTEMIS 72 APOLLO-15

REV	MNEMONIC	ADDP	DCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
1 *	TRUNSF + 0	1770	00233	27	9.185185185D-02 1/DEG/SC	1.269760000D 06 P/REV/CS
1 *	SHAFTSF + 0	1771	00474	25	4.681481481D-02 1/DEG/SC	6.471680000D 05 P/REV/CS
*	WRENDEPS+ 0	2000	00137	19	1.000000000D 04 FT	3.048000000D 03 M
*	WRENDEL+ 0	2001	00763	0	1.000000000D 01 FT/SEC	3.048000000D-02 M/CS
*	RMAX + 0	2002	00023	19	2.000000000D 03 FT	6.096000000D 02 M
*	VMAX + 0	2003	00001	7	2.000000000D 00 FT/SEC	6.096000000D-03 M/CS
*	WCRBPOS + 0	2004	00000	19	0.0 FT	0.0 M
*	WCRBVEL + 0	2005	00000	0	0.0 FT/SEC	0.0 M/CS
*	S22WSUBL+ 0	2006	00471	19	3.280839895D 04 FT	1.000000000D 04 M
*	FPVAR + 0	2007	00364 2010 04400	28	4.000000000D 00 M2	4.000000000D 06 M2
*	SCALM + 0	2011 2012	77774 51037	0	-2.268552780D-04 RAD	-2.268552780D-04 RAD

FINAL S-LOAD ARTEMIS 72 APOLLO-15

REV	MNEMONIC	ADDR	DCIAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
* 504LM	+ 2	2013	00011	0	6.0613080E6D-04 RAD	6.0613080E6D-04 RAD
		2014	35623			
* 504LM	+ 4	2015	77775	0	-1.619607210D-04 RAD	-1.619607210D-04 RAD
		2016	53053			
1 * EMSALT	+ 0	2017	00002	29	9.167817072D 05 FT	9.167817072D 04 M
		2020	31417			
* ATIGINC	+ 0	2021	00001	28	1.800000000D 00 MIN	1.800000000D 04 CS
		2022	03120			
* FTIGINC	+ 0	2023	00001	28	1.800000000D 00 MIN	1.800000000D 04 CS
		2024	03120			
* PLS	+ 0	2025	00275	27	1.554845266D 06 FT	1.554845266D 06 M
		2026	31473			
* PLS	+ 2	2027	00014	27	9.929084118D 05 FT	9.929084118D 04 M
		2030	03666			

FINAL E-LEAD ARTEMIS 72 APOLLO-15

REV	MEMORIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
* PLS	+ 4	2031	00135	27	2.501253767D C6 FT	7.623821483D C5 M
		2032	02034			
1 * TIMEPD	+ 0	2033	00001	42	7.859894280D C7 HRS	2.829558330D C8 CS
		2034	01566			
		2035	10071			
1 * VECDEM	+ 0	2036	77743-203		-1.349913420D-64 M/CS9	-1.349913420D-64 M/CS9
		2037	62121			
1 * VECDEM	+ 2	2040	77764-203		-5.461661170D-65 M/CS9	-5.461661170D-65 M/CS9
		2041	57704			
1 * VECDEM	+ 4	2042	77770-203		-3.750210270D-65 M/CS9	-3.750210270D-65 M/CS9
		2043	43170			
1 * VECDEM	+ 6	2044	77725-177		-1.351390000D-56 M/CS8	-1.351390000D-56 M/CS8
		2045	62577			

FINAL E-LOAD ARTEMIS 72 APOLLO-15

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
1 *	VECCDEM	+ 8	2046 2047	00044-177 2436C	1.167406550D-56 M/CS8	1.167406550D-56 M/CS8
1 *	VECCDEM	+10	2050 2051	00017-177 2546A	4.994358700D-57 M/CS8	4.994358700D-57 M/CS8
1 *	VECCDEM	+12	2052 2053	00131-151 1107E	1.909103110D-48 M/CS7	1.909103110D-48 M/CS7
1 *	VECCDEM	+14	2054 2055	00153-151 14761	2.296553500D-48 M/CS7	2.296553500D-48 M/CS7
1 *	VECCDEM	+16	2056 2057	00075-151 17492	1.314668750D-48 M/CS7	1.314668750D-48 M/CS7
1 *	VECCDEM	+18	2060 2061	00480-125 10333	3.677198970D-40 M/CS6	3.677198970D-40 M/CS6
1 *	VECCDEM	+20	2062 2063	77736-125 41353	-4.872209660D-41 M/CS6	-4.872209660D-41 M/CS6

FINAL E-LEAD ARTEMIS 72 APOLLO-15

REV	MNEMONIC	ADDR	CTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
1 *	VECCFM	+22	2064	00001-125	2.2489088700-42 M/CS6	2.2489088700-42 M/CS6
			2065	22116		
1 *	VECCFM	+24	2066	00334 -99	2.1187903600-32 M/CS5	2.1187903600-32 M/CS5
			2067	00707		
1 *	VECCFM	+26	2070	77140 -99	-4.0024019200-32 M/CS5	-4.0024019200-32 M/CS5
			2071	53571		
1 *	VECCFM	+28	2072	77473 -99	-1.8649098200-32 M/CS5	-1.8649098200-32 M/CS5
			2073	47051		
1 *	VECCFM	+30	2074	76500 -73	-4.5494787800-24 M/CS4	-4.5494787800-24 M/CS4
			2075	40044		
1 *	VECCFM	+32	2076	76220 -73	-5.6828411500-24 M/CS4	-5.6828411500-24 M/CS4
			2077	63735		
1 *	VECCFM	+34	2100	77010 -73	-3.2535380800-24 M/CS4	-3.2535380800-24 M/CS4
			2101	61204		

FINAL E-LOAD ARTEMIS 72 APOLLO-15

REV	MNEMONIC	ADDR	CTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS	
1 *	VECCEM	+30	2102	72766	-47	-1.1143092700E-15 M/CS3	-1.1143092700E-15 M/CS3
			2103	62371			
1 *	VECCEM	+38	2104	01558	-47	3.8110963700E-16 M/CS3	3.8110963700E-16 M/CS3
			2105	30732			
1 *	VECLEM	+40	2106	00404	-47	1.1316953100E-16 M/CS3	1.1316953100E-16 M/CS3
			2107	36340			
1 *	VECCEM	+42	2110	02001	-21	2.9841452000E-08 M/CS2	2.9841452000E-08 M/CS2
			2111	13014			
1 *	VECCEM	+44	2112	07624	-21	1.1607391500E-07 M/CS2	1.1607391500E-07 M/CS2
			2113	10475			
1 *	VECCEM	+46	2114	04111	-21	6.1754848300E-08 M/CS2	6.1754848300E-08 M/CS2
			2115	34131			
1 *	VECCEM	+48	2116	12011	5	1.0019384400E-01 M/CS	1.0019384400E-01 M/CS
			2117	35460			

FINAL E-LOAD ARTEMIS 72 APOLLO-15

REV	MNEMONIC	ADDR	CTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS	
1 *	VECCFM	+50	2120	76250	5	-1.671246290E 00 M/CS	-1.671246290E 00 M/CS
			2121	52231			
1 *	VECCFM	+52	2122	77734	5	-1.170189380E-01 M/CS	-1.170189380E-01 M/CS
			2123	42605			
1 *	VECCFM	+54	2124	76611	31	-8.264556000E 07 M	-8.264556000E 07 M
			2125	56670			
1 *	VECCFM	+55	2126	73016	31	-3.336618400E 08 M	-3.336618400E 08 M
			2127	53455			
1 *	VECCFM	+58	2130	75267	31	-1.772532720E 08 M	-1.772532720E 08 M
			2131	65214			
1 *	RESO	+ 0	2132	64540	38	-3.187922640E 11 FT	-3.187922640E 10 M
			2133	52761			
1 *	RESO	+ 2	2134	14352	38	3.510885223E 11 FT	1.070117816E 11 M
			2135	14615			

FINAL B-LOAD ARTEMIS 72 APOLLO-15

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
1 *	VESC	+ 4	2136 05315 2137 77344	38	1.522403780D 11 FT	4.640286720D 10 M
1 *	VESC	+ 0	2140 61722 2141 77307	9	-7.395237700D 04 FT/SEC	-2.254068451D 02 M/CS
1 *	VESC	+ 2	2142 65167 2143 40623	9	-5.652246699D 04 FT/SEC	-1.722804794D 02 M/CS
1 *	VESC	+ 4	2144 72251 2145 63661	9	-2.450765651D 04 FT/SEC	-7.469936752D 01 M/CS
1 *	OMEGAES	+ 0	2146 00522 2147 05467	-26	1.107246894D-05 DEG/SEC	3.075685817D-10 REV/CS
*	DTF	+ 0	2354 00036	14	3.000000000D-01 SEC	3.000000000D 01 CS
*	FANDELH	+ 0	2357 00000 2370 33102	29	1.500000000D 01 N/MI	2.778000000D 04 M

FINAL E-LOAD ARTEMIS 72 APOLLO-15

REV	MNEMONIC	ADDR	DCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
*	WRD TIME +	0 2371	00017	28	2.4000000000 C3 SEC	2.4000000000 C5 CS
*	MINBLKTM+	0 2372	00002	28	3.2880000000 C2 SEC	3.2880000000 C4 CS
*	TBFCCMP+	0 2373	00005	28	8.2200000000 C2 SEC	8.2200000000 C4 CS
*	ERNBLKTM+	0 2374	00005	28	8.2200000000 C2 SEC	8.2200000000 C4 CS
*	MAXWTIME+	0 2375	00026	28	3.6168000000 C3 SEC	3.6168000000 C5 CS
*	FINCMPTM+	0 2376	00003	28	4.9320000000 C2 SEC	4.9320000000 C4 CS
*	INTVAR +	0 2377	00142	15	1.9600000000 C2 M2	1.9600000000 C2 M2
1	AZIMUTH +	0 2400	70002	0	-8.9929444444 C1 DEG	-2.4983179010-C1 REV
			2401			70140
	LATITUDE+	0 2402	02426	0	2.8608422180 C1 DEG	7.9467839400-02 REV
			2403			00022

PAC 39A

PAGE 14

FINAL 1-LEAD ARTEMIS 72 APOLLO-15

REV	MNEMONIC	ADDR	CTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
1	TAZEL1	+ 0	2432	55006	-1 -1.068076289D 02 DEG	-2.966878259D-01 REV
1	TAZEL1	+ 1	2433	77221	-2 -2.011361111D 00 DEG	-5.587114198D-03 REV
1	TAZEL1	+ 2	2434	63611	-1 -6.881058330D 01 DEG	-1.911405092D-01 REV
1	TAZEL1	+ 3	2435	77220	-2 -2.015944444D 00 DEG	-5.599845678D-03 REV
1	LAUNCH7+	0	2633	07074	0 8.308868000D 01 DEG	2.224685556D-01 REV
			2634	35450		
*	WMIDPOS	+ 0	3000	00406	19 3.000000000D 04 FT	9.144000000D 03 M
					30,000 FEET	
*	WMIDVEL	+ 0	3001	02732	0 3.000000000D 01 FT/SEC	9.144000000D-02 M/CS
					30 FT/SEC	
*	RVAR	+ 0	3002	07000	-16 0.0	PERC ERR 0.0
			3003	00000		PERC ERR

FINAL E-LEAD ARTEMIS 72 APOLLO-15

REV	MEMORIC	APER	CTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
*	EVARNIN + C	3004	77777	40	-4.0000000000 C4 FT2	-3.7161216000 03 M2
		3005	77777			
		3006	42757			
(200FT)2 (A NEGATIVE NUMBER FOR CODING EASE)						
*	LAPPAD + C	3007	10510	0	2.7000000000E-01 UNITLESS	2.7000000000E-01 UNITLESS
*	LEPPAL + C	3010	06477	0	2.0700000000E-01 UNITLESS	2.0700000000E-01 UNITLESS
1 *	ALFAPAD + C	3011	74536	-1	-1.8640000000 C1 DEG	-5.1777777780E-02 REV
1 *	PEFRANCE+ C	3012	01515	0	1.1145500000 C3 N.MI.	5.1599537040E-02 *REV*
1 *	ETDECAY + C	3013	00100	14	6.4000000000E-01 SEC	6.4000000000 01 CS
*	EKPRIME + C	3014	00123	-5	1.5830990000E-04 R/CS/RAD	1.5830990000E-04 R/CS/RAD
*	EKPRIME + 1	3015	00175	-5	2.3841860000E-04 R/CS/RAD	2.3841860000E-04 R/CS/RAD
*	EKTLX/I + C	3016	17433	18	1.2740000000 C5 P/AR/SC2	1.2740000000 C5 P/AR/SC2

FINAL E-LOAD ARTEMIS 72 APCLLU-15

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
*	EKTLX/I + 1	3017	04500	16	9.4720000000 C3 P/AR/SC2	9.4720000000 C3 P/AR/SC2
*	EKTLX/I + 2	3020	00334	16	8.8000000000 C2 P/AR/SC2	8.8000000000 C2 P/AR/SC2
*	FREPFRAC+ 0	3021	01000	2	1.2500000000-C1 UNITLESS	1.2500000000-C1 UNITLESS
THIS VALUE IS DOUPLED BEFORE IT IS USED						
*	FREPFRAC+ 1	3022	00232	2	3.7500000000-C2 UNITLESS	3.7500000000-C2 UNITLESS
14*	PACTOFF + 0	3023	77751	14	-5.2400000000-C1 DEG	-2.2086406740 C1 CDU PULS
**	YACTOFF + 0	3024	00120	14	1.8950000000 C0 DEG	7.9873551110 C1 CDU PULS
*	FBN10 + 0	3025	37777	0	9.9993896480-C1 UNITLESS	9.9993896480-C1 UNITLESS
*	FBN11/2 + 0	3026	00000	1	0.0 UNITLESS	0.0 UNITLESS
*	FBN12 + 0	3027	00000	0	0.0 UNITLESS	0.0 UNITLESS
*	FBD11/2 + 0	3030	54360	1	-1.2205810550 C0 UNITLESS	-1.2205810550 C0 UNITLESS
*	FBD12 + 0	3031	21075	0	5.3497314450-C1 UNITLESS	5.3497314450-C1 UNITLESS

FINAL E-LEAD ARTEMIS 72 APOLLO-15

REV	MNEMONIC	ADDR	CTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS	
*	HBN20	+ 0	3032	37777	C	9.999389648D-C1 UNITLESS	9.999389648D-C1 UNITLESS
*	HBN21/2	+ 0	3033	60465	1	-9.621582031D-C1 UNITLESS	-9.621582031D-C1 UNITLESS
*	HBN22	+ 0	3034	00000	C	0.0 UNITLESS	0.0 UNITLESS
*	HBN21/2	+ 0	3035	54360	1	-1.220581055D C0 UNITLESS	-1.220581055D C0 UNITLESS
*	HBN22	+ 0	3036	21075	C	5.349731445D-C1 UNITLESS	5.349731445D-C1 UNITLESS
*	HBN30	+ 0	3037	37777	C	9.999389648D-C1 UNITLESS	9.999389648D-C1 UNITLESS
*	HBN31/2	+ 0	3040	57142	1	-1.050415039D C0 UNITLESS	-1.050415039D C0 UNITLESS
*	HBN32	+ 0	3041	33106	C	8.480224609D-C1 UNITLESS	8.480224609D-C1 UNITLESS
*	HBN31/2	+ 0	3042	50741	1	-1.441162109D C0 UNITLESS	-1.441162109D C0 UNITLESS
*	HBN32	+ 0	3043	31162	C	7.382080078D-C1 UNITLESS	7.382080078D-C1 UNITLESS
**	DAPEATR1	+ 0	3065	31102	C		
**	DAPEATR2	+ 0	3066	01111	C		
1**	LEMASS	+ 0	3072	10012	16	3.620620000D C4 LBS	1.642285607D C4 KG

FINAL E-LOAD ARTEMIS 72 APOLLO-15

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
1**	CSFMASS + 0	3272	16644	16	6.6915200000 C4 LBS	3.035222416D C4 KG
	POLYNUM + 0	3261	00005	14	5.0000000000 C0 UNITLESS	5.0000000000 C0 UNITLESS
1	POLYNUM + 1	3262	00000 3263 10067	5	1.7813387000-C1 DEG	4.948163056D-C4 REV
1	POLYNUM + 3	3264	00004 3265 10421	-9	1.8310605000-C2 DEG/SEC	5.086279167D-07 REV/CS
1	POLYNUM + 5	3266	00677 3267 20743	-23	1.1728888000-C2 DEG/SEC2	3.258024445D-C9 REV/CS2
1	POLYNUM + 7	3270	77777 3271 50147	-37	-1.1888579000-C7 DEG/SEC3	-3 302383056D-16 REV/CS3
1	POLYNUM + 9	3272	74555 3273 46271	-51	-1.6420470000-C6 DEG/SEC4	-4 561241667D-17 REV/CS4
1	POLYNUM +11	3274	04125 3275 04111	-65	1.2704280000-C8 DEG/SEC5	3 528966667D-21 REV/CS5

FINAL F-LOAD ARTEMIS 72 APOLLO-15

REV	MNEMONIC	ADDR	CTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
1	POLYNUM +12	3276	76333	-79	-2.9239175000E-11 DEG/SEC6	-8.1219930560E-26 REV/CS6
		3277	64300			
	SATRLRT + 0	3300	00000	0	1.0000000000E-00 DEG/SEC	2.7777777780E-05 REV/CS
		3301	16441			
1	RPSTART + 0	3302	02111	14	1.0975000000E-01 SEC	1.0975000000E-03 CS
1	POLYSTOP + 0	3303	43646	14	-1.4425000000E-02 SEC	-1.4425000000E-04 CS
	SATRATE + 0	3310	00000	12	0.0	0.0
					OUTPTPUL	OUTPTPUL
	SATRATE + 1	3311	00344	12	5.7000000000E-01	5.7000000000E-01
					OUTPTPUL	OUTPTPUL
2.5 DEGREE ATTITUDE ERROR, 0.75 VOLTS						
	SATRATE + 2	3312	77433	12	-5.7000000000E-01	-5.7000000000E-01
					OUTPTPUL	OUTPTPUL
	SATRATE + 3	3313	00000	12	0.0	0.0
					OUTPTPUL	OUTPTPUL
	SATSCALE + 0	3320	10000	2	1.0000000000E-00	1.0000000000E-00
					UNITLESS	UNITLESS

0.3 VOLTS/DEG

FINAL E-LOAD ARTEMIS 72 APOLLO-15

REV	MNEMONIC	ADDR	CTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
	* HCFISLP + D	3375	00000	C	0.0	UNITLESS 0.0
		3376	00000			UNITLESS
	LAT(SPL)+ C	3400	01533	0	2.0300000000 C1 DEG	5.638888889E-02 REV
		3401	34011			
	LNG(SPL)+ C	3402	76210	0	-1.9500000000 C1 DEG	-5.416666667E-02 REV
		3403	61041			

FINAL F-LOAD ARTEMIS 72 APOLLO-15

A	E	C	E	F	F	G	H	I	J	K	L	ID			
ID V71	V71	V71	V71	ID V71	V71	V71	V71	ID V71	V71	V71	V71	V71	ID		
01	00021	00013	00012	00011	01	00023	00023	00024	00024	01	00024	00022	00023	00021	01
02	01452	01706	01341	01763	02	02000	02021	02042	02064	02	02106	02130	03000	03025	02
03	03005	00000	00005	01545	03	00137	00001	77770	00001	03	00404	75267	00436	37777	03
04	70750	30560	06510	02077	04	00763	03120	43170	22116	04	36340	65214	02732	00000	04
05	77536	10000	07025	01571	05	00023	00001	77725	00334	05	02001	64540	00000	00000	05
06	74561	77777	00620	12160	06	00001	03120	62577	00707	06	13014	52761	00000	54360	06
07	77121	67066	00000	03363	07	(0000)	00275	00044	77140	07	07624	14352	77777	21075	07
10	75031	00000	33260	00233	10	(0000)	31473	24360	53571	10	10475	14615	77777	37777	10
11	77332	20144	37723	00474	11	00471	00014	00017	77473	11	04111	05315	42757	60465	11
12	77232	37777	01163		12	00364	03666	25464	47051	12	34131	32344	10510	00000	12
13	76664	37777			13	04400	00135	00131	76500	13	12011	61722	06477	54360	13
14	77433				14	77774	02034	11076	40044	14	35460	77307	74536	21075	14
15	77640				15	51037	00001	00153	76220	15	76250	65167	01515	37777	15
16	00000				16	00011	01566	14761	63735	16	52231	40623	00100	57142	16
17	77572				17	35623	10071	00075	77010	17	77704	73251	00123	33106	17
20	00435				20	77775	77743	17402	61204	20	42605	63661	00175	50741	20
21	77731				21	53053	62121	00400	72766	21	76611	00522	17433	31162	21
22					22	00002	77764	10333	62371	22	56670	05467	04500		22
23					23	31417	57704	77734	01556	23	73016		00334		23
24					24			41353	30733	24	53455				24

FINAL E-LOAD ARTEMIS 72 APOLLO-15

	M	A	E	
ID	V72	V72	V72	
01	00017	00023	00011	
02	00737	02354	00374	02
03	37777	00036	00000	03
04	01477	02367	01016	04
05	00000	00000	00000	05
06	02377	02370	01017	06
07	00142	33102	00000	07
10	03021	02371	01020	10
11	01000	00017	00000	11
12	03022	02372		12
13	00232	00002		13
14	03375	02373		14
15	00000	00005		15
16	03376	02374		16
17	00000	00005		17
20		02375		20
21		00026		21
22		02376		22
23		00003		23
24				24