



R.A. Larson

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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS 77058

REPLY TO
ATTN OF: FS66-72-149

MEMORANDUM

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

FROM: FS/Chief, Flight Support Division

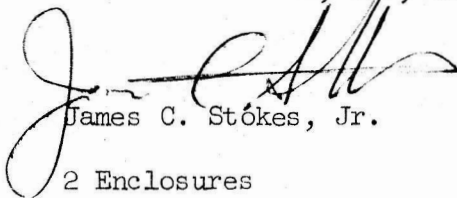
SUBJECT: Final Apollo 17 Prelaunch Erasable Load COLOSSUS III (ARTEMIS 72)

Enclosure 1 to this memorandum consists of the current values for the parameters in the Apollo 17 Prelaunch Erasable Load for the Command Module Computer (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:10/30/72:2308

CMC - ERASABLE LOAD MEMO

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FC6/R. A. Hoover
FM/C. Huss
J. P. Mayer
R. E. Simms
FM2/F. V. Bennett
FM4/C. A. Graves
FM8/B. J. Cockrell
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CMC FINAL E-LOAD ARTEMIS 72(REV1) APOLLO 17

REV	MNE MONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
	FLAGWRD1+	0 0075	00000	0		
	FLAGWRD3+	0 0077	40000	0		
	FLAGWRD8+	0 0104	00200	0		
	FLAGWRD9+	0 0105	00004	0		
	FLGWRD10+	0 0106	00000	0		
*	C31FLWRD+	0 0374	00000	0		
*	NO.PASS +	0 0737	37777	14	1.6383000000 04 UNITLESS	1.6383000000 04 UNITLESS
*	N26/PRI +	0 1016	00000	14	0.0 MIN	0.0 CS
*	N26/2CAD+	0 1017	00000	0		0.0
		1020	00000			
	PIPTIME +	0 1043	01116	28	9.6780000000 06 CS	9.6780000000 06 CS
		1044	26260			

PREDICTED VALUE OF AGC CLOCK AT L/O 26/53

PAGE 1

ENCLOSURE I

CMC FINAL E-LOAD ARTEMIS 72(REV1) APOLLO 17

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
	PGNC SALT+	0 1133	00000	29	2.933070866D 02 FT	8.940000000D 01 M
			1134 00055			
	PADLONG +	0 1135	30653	0	2.793958666D 02 DEG	7.760996295D-01 REV
			1136 23562			
PAD 39A						
*	CDUCHKWD+	0 1341	00005	14	5.000000000D 00 CS	5.000000000D 00 CS
*	RTED1 +	0 1342	06510	3	1.660263700D 00 UNITLESS	1.660263700D 00 UNITLESS
			1343 07025			
*	DVTHRESH+	0 1344	00620	-2	2.000000000D 00 FT/SEC	6.096000000D-03 M/CS
*	HORIZALT+	0 1345	00000	29	2.800000000D 01 KM	2.800000000D 04 M
			1346 33260			
*	ALTVAR +	0 1347	37723	-16	1.521680000D-05 RADIANS2	1.521680000D-05 RADIANS2

CMC FINAL E-LOAD ARTEMIS 72(REV1) APOLLO 17

REV	MNE MONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
1 *	EMDOT	+ 0	1350 01147	3	6.623333333D 01 LBS/SEC	3.004293464D-01 KG/CS
1 *	PBIASX	+ 0	1452 77252	-6	-6.233595800D-03 FT/SEC2	-3.247863247D-04 PIPS/CS
1 *	PIPASCFX	+ 0	1453 63554	-9	-7.500000000D 02 PPM	-7.500000000D-04 PIPS/PIP
	* PBIASY	+ 0	1454 77602	-6	-2.296587930D-03 FT/SEC2	-1.196581198D-04 PIPS/CS
1 *	PIPASCFY	+ 0	1455 74435	-9	-2.100000000D 02 PPM	-2.100000000D-04 PIPS/PIP
1 *	PBIASZ	+ 0	1456 02371	-6	2.329396325D-02 FT/SEC2	1.213675213D-03 PIPS/CS
	* PIPASCFZ	+ 0	1457 62564	-9	-8.100000000D 02 PPM	-8.100000000D-04 PIPS/PIP
1 *	NBDX	+ 0	1460 00115	-5	6.000000000D-01 MERU	1.460342777D-04 G PUL/CS
1 *	NBDY	+ 0	1461 77762	-5	-1.000000000D-01 MERU	-2.433904628D-05 G PUL/CS
1 *	NBDZ	+ 0	1462 00231	-5	1.200000000D 00 MERU	2.920685554D-04 G PUL/CS
1 *	ADIAX	+ 0	1463 00205	-3	7.000000000D 00 MERU/G	1.016334778D-03 GPUL/PIP
1 *	ADIAY	+ 0	1464 00367	-3	1.300000000D 01 MERU/G	1.887478873D-03 GPUL/PIP
1 *	ADIAZ	+ 0	1465 77615	-3	-6.000000000D 00 MERU/G	-8.711440950D-04 GPUL/PIP

CMC FINAL E-LOAD ARTEMIS 72(REV1) APOLLO 17

REV	MNE MONIC	ADDR OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
*	ADSRAX	+ 0 1466 77615	-3	-6.0000000000 00 MERU/G	-8.7114409500-04 GPUL/PIP
1 *	ADSRAY	+ 0 1467 00162	-3	6.0000000000 00 MERU/G	8.7114409500-04 GPUL/PIP
1 *	ADSRAZ	+ 0 1470 77663	-3	-4.0000000000 00 MERU/G	-5.8076273000-04 GPUL/PIP
*	TEPHEM	+ 0 1706 00020 1707 33550 1710 04000	42	1.2576000000 04 HRS	4.5273600000 09 CS

TEPHEM TO MIDNITE PRIOR TO DEC. 6, 1972

*	UNITW	+ 0 1711 00001 1712 36744	0	1.2005865570-04 UNITLESS	1.2005865570-04 UNITLESS
*	UNITW	+ 2 1713 00000 1714 06172	0	1.1898577210-05 UNITLESS	1.1898577210-05 UNITLESS
1 *	UNITW	+ 4 1715 37777 1716 37776	0	9.9999999260-01 UNITLESS	9.9999999260-01 UNITLESS

CMC FINAL E-LOAD ARTEMIS 72(REV1) APOLLO 17

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
1	REFSMMAT+	0 1733	12703	1	6.801000010D-01 UNITLESS	6.801000010D-01 UNITLESS
		1734	14105			

REV 1 OF E-LOAD TAPE

REFSMMAT+	2 1735	01733	1	1.206000010D-01 UNITLESS	1.206000010D-01 UNITLESS
	1736	36442			

DATE TO WHICH TEPHEM IS VALID FOR THIS E-LOAD

1 *	EIMP1SEC+	0 1763	01547	14	1.957516800D 04 LBF SEC	8.707468541D 02 KG M/CS
1 *	EFIMP01 +	0 1764	02101	14	2.448426800D 04 LBF	1.089114501D 03 KGM/CS/S
1 *	EFIMP16 +	0 1765	01606	14	2.028100000D 04 LBF	9.021438257D 02 KGM/CS/S
*	E3J22R2M+	0 1766	12160	58	9.204790479D 16 M5/CS2	9.204790479D 16 M5/CS2
*	E32C31RM+	0 1767	03363	80	1.312892560D 23 M6/CS2	1.312892560D 23 M6/CS2

CMC FINAL E-LOAD ARTEMIS 72(REV1) APOLLO 17

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
1	* TRUNSF	+ 0 1770	00235	27	9.303703704D-02 1/DEG/SC	1.286144000D 06 P/REV/CS
1	* SHAFTSF	+ 0 1771	00502	25	4.770370370D-02 1/DEG/SC	6.594560000D 05 P/REV/CS
	* WRENDPOS	+ 0 2000	00137	19	1.000000000D 04 FT	3.048000000D 03 M
	* WRENDVEL	+ 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
	* WORBPOS	+ 0 2004	00000	19	0.0 FT	0.0 M
	* WORBVEL	+ 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
	* RPVAR	+ 0 2007	00364 2010 04400	28	4.000000000D 06 M2	4.000000000D 06 M2
	* 504LM	+ 0 2011	00004 2012 24336	0	2.831146121D-04 RAD	2.831146121D-04 RAD

CMC FINAL E-LOAD ARTEMIS 72(REV1) APOLLO 17

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
* 504LM	+ 2	2013	00005	0	3.561154008D-04 RAD	3.561154008D-04 RAD
		2014	32552			
* 504LM	+ 4	2015	77776	0	-1.020915806D-04 RAD	-1.020915806D-04 RAD
		2016	52362			
* EMSALT	+ 0	2017	00002	29	2.900001000D 05 FT	8.839203048D 04 M
		2020	26244			
* ATIGINC	+ 0	2021	00001	28	3.000000000D 00 MIN	1.800000000D 04 CS
		2022	03120			
* PTIGINC	+ 0	2023	00001	28	3.000000000D 00 MIN	1.800000000D 04 CS
		2024	03120			
* RLS	+ 0	2025	00252	27	4.590788501D 06 FT	1.399272335D 06 M
		2026	31721			
* RLS	+ 2	2027	00145	27	2.731181408D 06 FT	8.324640931D 05 M
		2030	23640			

CMC FINAL E-LOAD ARTEMIS 72(REV1) APOLLO 17

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
* RLS	+ 4	2031	00110 2032 37410	27	1.961588292D 06 FT	5.978921114D 05 M
* TIMEMO	+ 0	2033	00021 2034 03536 2035 30642	42	1.276198801D 04 HRS	4.594315682D 09 CS
* VECOEM	+ 0	2036	00010-203 2037 32351		4.190736452D-65 M/CS9	4.190736452D-65 M/CS9
* VECOEM	+ 2	2040	77741-203 2041 62537		-1.444086685D-64 M/CS9	-1.444086685D-64 M/CS9
* VECOEM	+ 4	2042	77761-203 2043 75274		-6.685931021D-65 M/CS9	-6.685931021D-65 M/CS9
* VECOEM	+ 6	2044	77724-177 2045 43114		-1.398784093D-56 M/CS8	-1.398784093D-56 M/CS8

CMC FINAL E-LOAD ARTEMIS 72(REV1) APOLLO 17

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
* VECOEM	+ 8	2046	77736-177		-1.062834613D-56 M/CS8	-1.062834613D-56 M/CS8
		2047	64434			
* VECOEM	+10	2050	77754-177		-6.333882184D-57 M/CS8	-6.333882184D-57 M/CS8
		2051	43672			
* VECOEM	+12	2052	77614-151		-2.472424812D-48 M/CS7	-2.472424812D-48 M/CS7
		2053	53645			
* VECOEM	+14	2054	00127-151		1.861812921D-48 M/CS7	1.861812921D-48 M/CS7
		2055	02262			
* VECOEM	+16	2056	00036-151		6.592462902D-49 M/CS7	6.592462902D-49 M/CS7
		2057	32472			
* VECOEM	+18	2060	77777-125		-6.776153887D-43 M/CS6	-6.776153887D-43 M/CS6
		2061	60706			
* VECOEM	+20	2062	00350-125		3.339808342D-40 M/CS6	3.339808342D-40 M/CS6
		2063	30013			

CMC FINAL E-LOAD ARTEMIS 72(REV1) APOLLO 17

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
*	VECOEM	+22	2064 2065	00154-125 20031	1.556920541D-40 M/CS6	1.556920541D-40 M/CS6
*	VECOEM	+24	2066 2067	00707 -99 31360	4.389154847D-32 M/CS5	4.389154847D-32 M/CS5
*	VECOEM	+26	2070 2071	00405 -99 06145	2.515203499D-32 M/CS5	2.515203499D-32 M/CS5
*	VECOEM	+28	2072 2073	00245 -99 15746	1.593089894D-32 M/CS5	1.593089894D-32 M/CS5
*	VECOEM	+30	2074 2075	02240 -73 06176	7.652682055D-24 M/CS4	7.652682055D-24 M/CS4
*	VECOEM	+32	2076 2077	76573 -73 47135	-4.166764090D-24 M/CS4	-4.166764090D-24 M/CS4
*	VECOEM	+34	2100 2101	77506 -73 62104	-1.198334541D-24 M/CS4	-1.198334541D-24 M/CS4

CMC FINAL E-LOAD ARTEMIS 72(REV1) APOLLO 17

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
*	VECOEM	+36	2102 76405 2103 40367	-47	-3.308919385D-16 M/CS3	-3.308919385D-16 M/CS3
*	VECOEM	+38	2104 73075 2105 42203	-47	-1.083737893D-15 M/CS3	-1.083737893D-15 M/CS3
*	VECOEM	+40	2106 75450 2107 41034	-47	-5.377499574D-16 M/CS3	-5.377499574D-16 M/CS3
*	VECOEM	+42	2110 66556 2111 73330	-21	-1.383346682D-07 M/CS2	-1.383346682D-07 M/CS2
*	VECOEM	+44	2112 01450 2113 31006	-21	2.353864303D-08 M/CS2	2.353864303D-08 M/CS2
*	VECOEM	+46	2114 77654 2115 47420	-21	-2.437870350D-09 M/CS2	-2.437870350D-09 M/CS2
*	VECOEM	+48	2116 00672 2117 02471	5	8.634406328D-01 M/CS	8.634406328D-01 M/CS

CMC FINAL E-LOAD ARTEMIS 72(REV1) APOLLO 17

REV	MNE MONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
*	VECOEM	+50	2120 11210 2121 32470	5	9.267249107D 00 M/CS	9.267249107D 00 M/CS
*	VECOEM	+52	2122 04315 2123 22743	5	4.401546836D 00 M/CS	4.401546836D 00 M/CS
*	VECOEM	+54	2124 05453 2125 25657	31	3.748243120D 08 M	3.748243120D 08 M
*	VECOEM	+56	2126 77031 2127 53003	31	-6.378697600D 07 M	-6.378697600D 07 M
*	VECOEM	+58	2130 00062 2131 14227	31	6.603960000D 06 M	6.603960000D 06 M
*	RES0	+ 0	2132 75441 2133 73230	38	-6.859211253D 10 FT	-2.090687590D 10 M
*	RES0	+ 2	2134 60335 2135 45160	38	-4.387416391D 11 FT	-1.337284516D 11 M

CMC FINAL E-LOAD ARTEMIS 72(REV1) APOLLO 17

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
* RESO	+ 4	2136	71177	38	-1.902493128D 11 FT	-5.798799053D 10 M
		2137	64536			
* VESO	+ 0	2140	22557	9	9.825824941D 04 FT/SEC	2.994911442D 02 M/ S
		2141	26735			
* VESO	+ 2	2142	75422	9	-1.293075992D 04 FT/SEC	-3.941295624D 01 M/CS
		2143	71103			
* VESO	+ 4	2144	76735	9	-5.605686368D 03 FT/SEC	-1.708613205D 01 M/CS
		2145	47631			
* OMEGAS	+ 0	2146	00547	-26	1.177250697D-05 DEG/SEC	3.270140825D-10 REV/CS
		2147	21622			
* DTF	+ 0	2354	00036	14	3.000000000D-01 SEC	3.000000000D 01 CS
* HAMDELH	+ 0	2367	00000	29	1.500000000D 01 N.MI.	2.778000000D 04 M
		2370	33102			

CMC FINAL E-LOAD ARTEMIS 72(REV1) APOLLO 17

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
*	WRDTIME +	0	2371 00017	28	2.400000000D 03 SEC	2.400000000D 05 CS
*	MINBLKTM+	0	2372 00002	28	3.288000000D 02 SEC	3.288000000D 04 CS
*	TBEFCOMP+	0	2373 00005	28	8.220000000D 02 SEC	8.220000000D 04 CS
*	BRNBLKTM+	0	2374 00005	28	8.220000000D 02 SEC	8.220000000D 04 CS
*	MAXWTIME+	0	2375 00026	28	3.616800000D 03 SEC	3.616800000D 05 CS
*	F INCMPTM+	0	2376 00003	28	4.932000000D 02 SEC	4.932000000D 04 CS
*	INTVAR +	0	2377 00142	15	1.960000000D 02 M2	1.960000000D 02 M2
1	AZIMUTH +	0	2400 70004 2401 65703	0	-8.989708333D 01 DEG	-2.497141204D-01 REV
	LATITUDE+	0	2402 02426 2403 00022	0	2.860842218D 01 DEG	7.946783940D-02 REV

PAD 39A

CMC FINAL E-LOAD ARTEMIS 72(REV1) APOLLO 17

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS	
1	TAZEL1	+ 0 2432	55006	-1	-1.068076389D 02 DEG	-2.966878859D-01 REV	
1	TAZEL1	+ 1 2433	77221	-2	-2.011361111D 00 DEG	-5.587114198D-03 REV	
1	TAZEL1	+ 2 2434	63611	-1	-6.881059444D 01 DEG	-1.911405401D-01 REV	
1	TAZEL1	+ 3 2435	77220	-2	-2.015944444D 00 DEG	-5.599845678D-03 REV	
	LAUNCHAZ	+ 0 2633	06323 2634 07411	0	7.214139300D 01 DEG	2.003927583D-01 REV	
*	WMIDPOS	+ 0 3000	00436	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	00000 3003 00000	-16	0.0	PERC ERR 0.0	PERC ERR

CMC FINAL E-LOAD ARTEMIS 72(REV1) APOLLO 17

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
*	RVARMIN +	0	3004 77777 3005 77777 3006 42757	40	-4.000000000D 04 FT2	-3.716121600D 03 M2
(200FT)2 (A NEGATIVE NUMBER FOR CODING EASE)						
*	LADPAD +	0	3007 10510	0	2.700000000D-01 UNITLESS	2.700000000D-01 UNITLESS
*	LODPAD +	0	3010 06477	0	2.070000000D-01 UNITLESS	2.070000000D-01 UNITLESS
	ALFAPAD +	0	3011 74500	-1	-1.897000000D 01 DEG	-5.269444445D-02 REV
*	P37RANGE+	0	3012 01457	0	1.074630000D 03 N.MI.	4.975138889D-02 REV
1 *	ETDECAY +	0	3013 00100	14	6.405470000D-01 SEC	6.405470000D 01 CS
*	EKPRIME +	0	3014 00123	-5	1.583099000D-04 R/CS/RAD	1.583099000D-04 R/CS/RAD
*	EKPRIME +	1	3015 00175	-5	2.384186000D-04 R/CS/RAD	2.384186000D-04 R/CS/RAD
*	EKTLX/I +	0	3016 17433	18	1.274000000D 05 P/AR/SC2	1.274000000D 05 P/AR/SC2

CMC FINAL E-LOAD ARTEMIS 72(REV1) APOLLO 17

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
*	EKTLX/I + 1	3017	04500	16	9.472000000D 03 P/AR/SC2	9.472000000D 03 P/AR/SC2
*	EKTLX/I + 2	3020	00334	16	8.800000000D 02 P/AR/SC2	8.800000000D 02 P/AR/SC2
*	EREPPFRAC+	0 3021	01000	2	1.250000000D-01 UNITLESS	1.250000000D-01 UNITLESS
THIS VALUE IS DOUBLED BEFORE IT IS USED						
*	EREPPFRAC+	1 3022	00232	2	3.750000000D-02 UNITLESS	3.750000000D-02 UNITLESS
1**	PACTOFF + 0	3023	77747	14	-5.780000000D-01 DEG	-2.436248683D 01 CDU PULS
1**	YACTOFF + 0	3024	00120	14	1.892000000D 00 DEG	7.974710221D 01 CDU PULS
*	HBN10 + 0	3025	37777	0	9.999389648D-01 UNITLESS	9.999389648D-01 UNITLESS
*	HBN11/2 + 0	3026	00000	1	0.0 UNITLESS	0.0 UNITLESS
*	HBN12 + 0	3027	00000	0	0.0 UNITLESS	0.0 UNITLESS
*	HBD11/2 + 0	3030	54360	1	-1.220581055D 00 UNITLESS	-1.220581055D 00 UNITLESS
*	HBD12 + 0	3031	21075	0	5.349731445D-01 UNITLESS	5.349731445D-01 UNITLESS

CMC FINAL E-LOAD ARTEMIS 72(REV1) APOLLO 17

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
*	HBN20	+ 0	3032 37777	0	9.999389648D-01 UNITLESS	9.999389648D-01 UNITLESS
*	HBN21/2	+ 0	3033 60465	1	-9.621582031D-01 UNITLESS	-9.621582031D-01 UNITLESS
*	HBN22	+ 0	3034 00000	0	0.0 UNITLESS	0.0 UNITLESS
*	HBD21/2	+ 0	3035 54360	1	-1.220581055D 00 UNITLESS	-1.220581055D 00 UNITLESS
*	HBD22	+ 0	3036 21075	0	5.349731445D-01 UNITLESS	5.349731445D-01 UNITLESS
*	HBN30	+ 0	3037 37777	0	9.999389648D-01 UNITLESS	9.999389648D-01 UNITLESS
*	HBN31/2	+ 0	3040 57142	1	-1.050415039D 00 UNITLESS	-1.050415039D 00 UNITLESS
*	HBN32	+ 0	3041 33106	0	8.480224609D-01 UNITLESS	8.480224609D-01 UNITLESS
*	HBD31/2	+ 0	3042 50741	1	-1.441162109D 00 UNITLESS	-1.441162109D 00 UNITLESS
*	HBD32	+ 0	3043 31162	0	7.882080078D-01 UNITLESS	7.882080078D-01 UNITLESS
**	DAPDATR1	+ 0	3065 31102	0		
**	DAPDATR2	+ 0	3066 01111	0		
1**	LEMMASS	+ 0	3072 10017	16	3.625540000D 04 LBS	1.644517281D 04 KG

CMC FINAL E-LOAD ARTEMIS 72(REV1) APOLLO 17

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
1**	CSMMASS + 0	3073	16642	16	6.689340000D 04 LBS	3.034233584D 04 KG
	POLYNUM + 0	3261	00005	14	5.000000000D 00 UNITLESS	5.000000000D 00 UNITLESS
	POLYNUM + 1	3262	77777	5	-3.735261700D-01 DEG	-1.037572695D-03 REV
		3263	56777			
	POLYNUM + 3	3264	00070	-9	2.443614500D-01 DEG/SEC	6.787818056D-06 REV/CS
		3265	36057			
	POLYNUM + 5	3266	00356	-23	6.237301700D-03 DEG/SEC2	1.732583806D-09 REV/CS2
		3267	03770			
	POLYNUM + 7	3270	76711	-37	-9.058746400D-05 DEG/SEC3	-2.516318445D-13 REV/CS3
		3271	54007			
	POLYNUM + 9	3272	03276	-51	1.685017000D-06 DEG/SEC4	4.680602778D-17 REV/CS4
		3273	32634			
	POLYNUM +11	3274	72561	-65	-1.609503400D-08 DEG/SEC5	-4.470842778D-21 REV/CS5
		3275	61245			

CMC FINAL E-LOAD ARTEMIS 72(REV1) APOLLO 17

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
	POLYNUM +13	3276	02532	-79	4.9817897000-11 DEG/SEC6	1.3838304720-25 REV/CS6
		3277	17255			
	SATRLRT + 0	3300	00000	0	1.0000000000 00 DEG/SEC	2.7777777780-05 REV/CS
		3301	16441			
	RPSTART + 0	3302	02311	14	1.2250000000 01 SEC	1.2250000000 03 CS
	POLYSTOP+ 0	3303	43110	14	-1.4775000000 02 SEC	-1.4775000000 04 CS
	SATRATE + 0	3310	00000	12	0.0	0.0
					OUTPTPUL	OUTPTPUL
	SATRATE + 1	3311	00344	12	5.7000000000 01 OUTPTPUL	5.7000000000 01 OUTPTPUL
2.5 DEGREE ATTITUDE ERROR, 0.75 VOLTS						
	SATRATE + 2	3312	77433	12	-5.7000000000 01 OUTPTPUL	-5.7000000000 01 OUTPTPUL
	SATRATE + 3	3313	00000	12	0.0	0.0
					OUTPTPUL	OUTPTPUL
	SATSCALE+ 0	3320	10000	2	1.0000000000 00 UNITLESS	1.0000000000 00 UNITLESS

0.3 VOLTS/DEG

CMC FINAL E-LOAD ARTEMIS 72(REV1) APOLLO 17

REV	MNEMONIC	ADDR	OCTAL	SF	ENGINEERING VALUE	VALUE IN AGC UNITS
*	HORISLP +	0 3375	00000	0	0.0	UNITLESS 0.0
			3376			UNITLESS
	LAT(SPL)+	0 3400	02257	0	2.635000000D 01 DEG	7.319444445D-02 R-V
			3401			
	LNG(SPL)+	0 3402	76365	0	-1.710000000D 01 DEG	-4.750000000D-02 REV
			3403			
			70243			

CMC FINAL E-LOAD ARTEMIS 72 (REV 1) APOLLO 17

A	B	C	D	E	F	G	H	I	J	K	L	ID			
ID V71	V71	V71	V71	ID V71	V71	V71	V71	ID 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	77252	00020	00005	01547	03	00137	00001	77761	00154	03	75450	00062	00436	37777	03
04	63554	33550	06510	02101	04	00763	03120	75274	20031	04	41034	14227	02732	00000	04
05	77602	04000	07025	01606	05	00023	00001	77724	00707	05	66556	75441	00000	00000	05
06	74435	00001	00620	12160	06	00001	03120	43114	31360	06	73330	73230	00000	54360	06
07	02371	36744	00000	03363	07	00000	00252	77736	00405	07	01450	60335	77777	21075	07
10	62564	00000	33260	00235	10	00000	31721	64434	06145	10	31006	45160	77777	37777	10
11	00115	06172	37723	00502	11	00471	00145	77754	00245	11	77654	71177	42757	60465	11
12	77762	37777	01147		12	00364	23640	43672	15746	12	47420	64536	10510	00000	12
13	00231	37776			13	04400	00110	77614	02240	13	00672	22557	06477	54360	13
14	00205				14	00004	37410	53645	06176	14	02471	26735	74500	21075	14
15	00367				15	24336	00021	00127	76573	15	11210	75422	01457	37777	15
16	77615				16	00005	03536	02262	47135	16	32470	71103	00100	57142	16
17	77615				17	32552	30642	00036	77506	17	04315	76735	00123	33106	17
20	00162				20	77776	00010	32472	62104	20	22743	47631	00175	50741	20
21	77663				21	52362	32351	77777	76405	21	05453	00547	17433	31162	21
22					22	00002	77741	60706	40367	22	25657	21622	04500		22
23					23	26244	62537	00350	73075	23	77031		00334		23
24					24			30013	42203	24	53003				24

ENCLOSURE 2

CMC FINAL E-LOAD ARTEMIS 72(REV1) APOLLO 17

ID	M V72	N V72	O 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