To : Those interested
From : R. Covell
Date : July 21, 1970
Subject : LM Deorbit Program

Attached is a procedure that could be used to give a guided LM RCS burn for ~~Deot~~ deorbit or whatever. More details will be written later if there is sufficient demand.

This method uses a "WHICH" Table in erasable memory, enabled by implementation of ACB L25. There are no conflicting displays ~~or~~ or real time commands required.

LM De Orbit - Erasable program

① Perform P30, V49

② Hardware Configuration
PGNCS Control - Auto Mode
APS Engine Arm - Off - engine on bit is set

③ Uplink:

Ⓐ V71E 24E 3400E
1450E 12324E 5527E 161E
15272E 12150E 5656E 3675E
74066E 12409E 12433E 1402E
5322E 143E 6042E 77634E
10607E 56246E V33E

Ⓑ V71E 12E 3734E
307E 11040E
151E 5214E
0E 0E
57000E 0E V33E

④ V72E 13E

3455E 1400E

1250E 0 E

3515E 4 E

3422E 77650E

3423E 75210E V33E

④ Call Program

V25 N26E

13000E

.1414E

67 E

V30E

⑤ P99 in MODE light

Flashing V50N18 - V33E for trim

ENTER - No Trim

V06N40 R1 Countdown

at TIG, ullage begins

at Cutoff, ullage stops

Flashing V16N40 - V33E to

Flashing V16N85 - V33E to

Flashing V37 00E to P00.

MODIFICATION REPORT ______

SUNDANCE COLOSSUS LUMINARY . . . . REASON: ______

REV: ______ ______ ______ ______

SUBROUTINE: ______ REV: ______

LOG SECTION: ______

WORDS ADDED ______ ERASABLE ______

F BANK ______ E BANK ______ SUBMITTED BY: ______

1	2–7	8	9–16	17	18–23	24	25–40	41–42
			EWHICH		VN		0640	0
					TCF		WAITAPS	1
			+2		TC		DOWNFLAG	2
					ADRES		IDLEFLAG	3
					TC		TASKOVER	4
					TCF		P40SPOT	5
					DEC		2990	6
					ADRES		STEERING	7
					BBCON		STEERING	10
					TCF		COMMON	11
					TCF		IGNITION [illegible]	12
					TC		EWHICH +2	13
			P99		TC		NEWMODEX	14
					OCT		143	15
					~~[illegible]~~		~~[illegible]~~	
					~~[illegible]~~		~~[illegible]~~	
					TC		INTPRET	16
					RTB			17
							V/CALL	20
					CADR		S40.1	21
					E010			22
							P40IN +3	23

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MODIFICATION REPORT _____

SUNDANCE COLOSSUS LUMINARY . . . . . REASON: _____

REV: _____ _____ _____ _____ _____

SUBROUTINE: _____ REV: _____ _____

LOG SECTION: _____ _____

WORDS ADDED _____ ERASABLE _____ _____

F BANK _____ E BANK _____ SUBMITTED BY: _____

E7, 1400	ØCT	01450	
1	ØCT	12324	
2	ØCT	05527	
3	ØCT	00161	
4	ØCT	15272	
5	ØCT	12150	
6	0CT	05656	
7	0CT	03675	
10	0CT	74066	
1	0CT	12404	
2	0CT	12433	
3	0CT	01402	
4	0CT	05322	
5	0CT	00103	
6	0CT	06042	
7	0CT	77634	
20	0CT	10607	
1	0CT	56216	
2	0CT	77650	
3	0CT	75210	

MODIFICATION REPORT ____________

SUNDANCE COLOSSUS LUMINARY . . . .

REV: ________ ________ ________ ________

SUBROUTINE: ____________________ REV: ________

LOG SECTION: ______________________________

WORDS ADDED ________ ERASABLE ____________

F BANK ____________ E BANK ____________

REASON: ______________________________

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____

____

SUBMITTED BY: ____________

1	2–7	8	9–16	17	18–23	24	25–49
	3355		WHICH		OCT		1400
	1255		DVTHRSH		OCT		0
	~~3 [illegible] 5~~		~~DVCNTR~~		~~OCT~~		~~[illegible]~~
	3734		F		OCT		00307
	35		+1		OCT		11040
	36		MDOT		OCT		00151
	37		+1		OCT		05214
	40		TDECAY		OCT		77777
	41		+1		OCT		77777
	42		VEX		OCT		57000
	43				OCT		00000

TP# 21055 Rev. 1