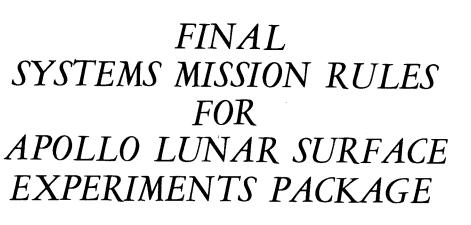
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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION



ALSEP 3

MARCH 23, 1970



APPENDICES

INTRODUCTION AND PURPOSE

GENERAL RULES

ALSEP OPERATIONAL

GUIDELINES

4. SPECIFIC RULES

A ACRONYMS AND SYMBOLS

B DISTRIBUTION

FLIGHT CONTROL DIVISION

PREPARED BY

C CHANGE CONTROL

MANNED SPACECRAFT CENTER

HOUSTON, TEXAS

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			PREFACE
	,		THIS DOCUMENT CONTAINS THE SYSTEMS MISSION RULES FOR ALSEP 3 AS OF MARCH 23, 1970. THIS AND ALL SUBSEQUENT REVISIONS TO THIS DOCUMENT WILL BE PRINTED ON DIFFERENT COLORED PAGES FOR EASY RECOGNITION.
			IT IS REQUESTED THAT ANY ORGANIZATION HAVING COMMENTS, QUESTIONS, OR SUGGESTIONS CONCERNING THESE MISSION RULES CONTACT MR. JOHN H. TEMPLE, FLIGHT CONTROL OPERATIONS BRANCH, BUILDING 45, ROOM 646, PHONE 483-3838.
			ANY REQUESTS FOR ADDITIONAL COPIES OR CHANGES TO THE DISTRIBUTION LIST IN APPENDIX B OF THIS Document must be made in writing to mr. sigurd A. sjoberg, director of flight operations, manned Spacecraft center, houston, texas.
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			SECTION 1 - INTRODUCTION AND PURPOSE
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addillaritan.			
			MISSION RULES ARE PROCEDURAL STATEMENTS WHICH PROVIDE FLIGHT CONTROL PERSONNEL WITH GUIDELINES TO EXPEDITE THE DECISION-MAKING PROCESS. THE RULES ARE BASED ON AN ANALYSIS OF MISSION
			EQUIPMENT CONFIGURATION, SYSTEMS OPERATIONS AND CONSTRAINTS, AND MISSION OBJECTIVES. THE
			DIRECTOR OF FLIGHT OPERATIONS; MANNED SPACECRAFT CENTER; HOUSTON; TEXAS; HAS THE OVERALL Responsibility for the preparation; contents; and control of the systems mission rules for
			ALSEP.
			THE ALSEP MISSION RULES ARE PUBLISHED UNDER SEPARATE COVER FROM THE FLIGHT MISSION RULES BECAUSE
			OF THE DIFFERENCE IN LIFETIME OF THE ALSEP OPERATION AND SPECIFIC MISSION ORIENTATED ACTIVITIES. THE ALSEP MISSION RULES DOCUMENT WILL CONTAIN ALL ALSEP MISSION RULES INCLUDING
			A. ALL MISSION RULES EFFECTING CREW INTERFACE WITH THE ALSEP AND
		1	B. ALL MISSION RULES EFFECTING MCC INTERFACE WITH THE ALSEP, THROUGH ALSEP SYSTEMS LIFETIME.
			THE FLIGHT MISSION RULES, IN ADDITION TO THIS DOCUMENT, WILL CONTAIN ALL ALSEP RULES INVOLVING
			FLIGHT CREW INTERFACE.
			THE FLIGHT MISSION RULES WILL TAKE PRECEDENCE SHOULD ANY CONFLICTS EXIST BETWEEN THIS DOCUMENT AND THE FLIGHT MISSION RULES BECAUSE OF REVISION CYCLES.
		1	MISSION RULES CAN BE CATEGORIZED AS GENERAL AND SPECIFIC. GENERAL MISSION RULES CONTAIN THE BASIC PHILOSOPHIES USED IN THE DEVELOPMENT OF THE ALSEP MISSION RULES. SPECIFIC MISSION RULES
			PROVIDE THE BASIC CRITERIA FROM WHICH REAL-TIME DECISIONS ARE MADE AND WILL BE FORMATTED AS
for the second s			FOLLOWS
	1	1	A. THE CONDITION/MALFUNCTION COLUMN DEFINES THE FAILURE.
all all and the second se			
	1		B. THE PHASE COLUMN IDENTIFIES THE TIME INTERVAL IN WHICH THE CONDITION/MALFUNCTION OCCURS.
			C. THE RULING COLUMN DEFINES FLIGHT CONTROLLER ACTION AND/OR PROCEDURES THAT MUST BE ACCOMPLISHED AS A RESULT OF THE CONDITION.
			D. THE CUES/NOTES/COMMENTS COLUMN PROVIDES THE FLIGHT CONTROLLER WITH ADDITIONAL INFORMATION
			CONCERNING THE CONDITION/MALFUNCTION AND/OR RULING.
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			PURPOSE 1-1

MISSION RULES

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· (SECTION 2 - GENERAL RULES AND SOP'S
Conserver -	REV	ITEM	
and the second			' GENERAL '
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		2-1	THE ALSEP MISSION RULES OUTLINE PREPLANNED DECISIONS DESIGNED TO MINIMIZE THE AMOUNT OF REAL-TIME RATIONALIZATION REQUIRED WHEN NON-NOMINAL SITUATIONS OCCUR AFTER CREW ACTIVATION.
		2-2	WHEN A CONFLICT OF PLANNED ACTIVITIES OCCURS, THE ALSEP SENIOR ENGINEER WILL DETERMINE THE PRIORITY OF ACTIVITIES.
	na - y na mart (friedrich) e na an	2-3	IN SOME INSTANCES, THE SPECIFIC MISSION RULES MAY DEVIATE FROM THE GENERAL GUIDELINES OR FROM THESE GENERAL RULES. THE SPECIFIC MISSION RULE WILL APPLY IN ALL CASES, AND THE DEVIATIONS FROM THE GENERAL GUIDELINES WILL BE NOTED.
		2-4	THE ALSEP SENIOR ENGINEER MAY, AFTER ANALYSIS OF THE OPERATION, CHOOSE TO TAKE ANY NECESSARY ACTION REQUIRED FOR SUCCESSFUL COMPLETION OF ALSEP TEST OBJECTIVES.
Contraction of the second		2=5	MISSION RULE LIMITS THAT ARE CONSIDERED TO BE INTERIM OR UNCONFIRMED NUMBERS WILL BE UNDERLINED IN THIS PUBLICATION AND ALL SUBSEQUENT REVISIONS UNTIL THE NUMBERS ARE CONFIRMED BY THE RESPONSIBLE NASA AGENCY.
		2-6	THE SYSTEMS LIMITS LISTED IN THESE RULES ARE THE ACTUAL VEHICLE LIMITS AS WELL AS THEY ARE KNOWN AND UNDERSTOOD AND ARE NOT BIASED TO COMPENSATE FOR TIME DELAYS OR INSTRUMENTATION ERRORS WITHIN THE ALSEP AND MSFN DATA/DISPLAY SYSTEMS.
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MISSION RULES

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SECTION 3 - ALSEP OPERATIONAL GUIDELINES

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THE OFFICE	REV	ITEM								
were a					-		PERATIONAL GUIDEL			
Manana.		3-1	GENERAL							
			A. THES	E ALSEP GENER	RAL OF	PERATION	L GUIDELINES AF	E BASED ON	DBJECTI	VES IN THE FOLLOWIN
			.(1)							
			(4)	HFE CPLEE CCGE ENGINEERING						
			B. THE	GATHERING OF	SCIEM	NTIFIC D	ATA WILL NOT BE CO	MPROMISED FOR	ENGINEE	RING OR TEST PURPOSES.
			SWIT	CHING TO REDU	JNDANT	I SYSTEMS	ILL NOT BE SELECTE 5 WILL NOT BE ACCO IVES HAVE BEEN CON	OMPLISHED TO SA	ILURE N TISFY EI	WARRANTS SUCH ACTION NGINEERING TESTS UNLES
			PROB SATI A MS	LEMS (FROM TH SFY CERTAIN S	HAT OF SCIENT THE P	PERATION TIFIC OB ALSEP W	AL MSFN SITE) OR U JECTIVES. IF THE E ILL BE CONFIGURE	JNLESS A CHANGE BIT RATE IS CHA	OF BIT	CORRECT CERTAIN SYN RATE IS NECESSARY T DM THE NORM BECAUSE O (1.06 KBPS) PRIOR T
48.60 g.			E- BEFO BE A	RE IMPLEMENTI SCERTAINED TH	ING AN	NY MISSIG	N RULE ACTION BAS	SED ON AN APPAR 18 MSEN SUPPORT	ENT ALSI Ing Siti	EP MALFUNCTION. IT WIL E.
			F. THE ADJU	TIMER INHIBIT	COM	MAND WILL	NOT BE SENT PRIC	OR TO ALL EXPER	IMENTS I	BEING ON AND PROPERL
State of a			TRAN	SMITTER WILL	NEVER	R BE COM	MANDED OFF WHILE	E THE TIMER	IS INH	OFF: AND THE ALSE IBITED. DURING NORMA DT BE COMMANDED OFF.
			H. ALSE BY A	P EXPERIMENTS	5 WILI	NOT BE	COMMANDED TO "SI	TANDBY OFFI' UN	LESS TH	E ACTION IS JUSTIFIE
			NO.		E COMI	MAND WIL				LE TO A FAILURE IN PC F THE +12 VDC BUS I
			1 ''OP	OMMAND FUNCT: ERATE SELECT RIMENT IS IN	() II	N AN EXPI	ERIMENT, BY GROUND	N ''STANDBY OF D COMMAND OR BY	F, I I I	'STANDBY SELECT,'' C RD TIMER, UNLESS TH
				ALSEP TURN-O						
			(1)	ASTRONAUT AC CCGE, AND C		TES SHOR	TING PLUG SWITCH A	ASAP AFTER DEPL	OYMENT	OF THE PSE.
			(2)	NO. 1 ACTIV	ATION	WILL BE	SWITCH NO. 1 PER BASED ON PREDICTE 2, ALSEP SODB).	DIRECTION FROM ED AVAILABILITY	THE GR	OUND. SWITCH 2 WATTS FROM
Rive _{bre}			L. IF T WILL GROU	TURN ON ASTI	UNABI	LE TO CO ITCHES N	MMAND A TRANSMITTE D. 2 AND/OR NO. 3	ER ON AND/OR EX DURING EVA NO.	PERIMEN 1 WHE	TS ON, THE ASTRONAL N REQUESTED FROM TH
myteratur.			THER HIGH	MAL PLATE TE	MPERA	TURE WIT	ND PDR'S WILL BE N H THE LOWEST TEMPI 125 DEG F. UNLES	ERATURE GREATE	R THAN	AN AVERAGE INTERNA 20 DEG F• AND TH LY REQUIRING THE C/
NYM (No			SHOR LEVE	TING SWITCH /	AND A: NED.	STRONAUT	SWITCH NO. 1 SHAN NTENNA IS NOT LEVI	LL BE ACTUATED	BY THE	N TO THE LM, THE RI CREW IF THE ANTENNA I SWITCHES SHALL NOT E
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MISSION RULES SECTION 3 - ALSEP OPERATIONAL GUIDELINES

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						AL	SEP OPER	ATIONAL GUIDELINE	ES (CONT)			
f.								***************				
No.												
		3-2	PSE									
			A.					AFTER THE PSE IS				
			в.					NOT BE ACTIVATED				
			с.	AFTER	PSE LEVELI E LEVEL SEM	ISORS	F THE HOR WILL BE	IZONTAL COMPONENT GROUND COMMANDED	IS (LPX AND L OUT (VIA CMD 1	PY) HAS 02).	BEEN COMPLET	ED. THE
			D.	FOR PR	ROPER OPERA PSE FILTER	TION IN/OL	OF THE P	SE, THE FEEDBACK	FILTER MUST BE	IN THE	FOLLOWING MOD	ES (CMD
				(1) L	EVELING MC	DEF	ILTER OU	т				
				(2) L	ONG PERIOD	CALI	BRATION-	-FILTER IN				
				(3) N	ORMAL OPER	ATION	AL MODE-	-FILTER IN				
			٤.					OF THE PSE SHOULD	BE LEVEL BEFO	RE LEVEI	ING THE THATE	MASE
								INFREQUENTLY AS P			INC 2-8413	MA33.
								IONS, CAUTION SHA				
				MOTOR	OPERATION	TOIN	ISURE THA	T PROPER DIRECTIC	IN AND SPEED HA	VE BEEN	SELECTED.	LEVELING
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MISSION RULES , SECTION 3 - ALSEP OPERATIONAL GUIDELINES

hanner -	REV	17544	
	REV	ITEM	
			ALSEP OPERATIONAL GUIDELINES (CONT)
REPLACE.			
discontraction			
		3-4	HFE
			A. NO COMMANDS WILL BE UPLINKED TO THE HEE AT LESS THAN A 54-SECOND INTERVAL.
			B. A CONDUCTIVITY EXPERIMENT WILL NOT BE INITIATED UNLESS THERE WILL BE SUFFICIENT POWER TO COMPLETE THE EXPERIMENT WITHOUT INTERRUPTION. ONCE A PROBE HEATER IS TURNED ON FOR AN EXPERIMENT IT WILL NOT BE TURNED OFF UNLESS THE EXPERIMENT IS TERMINATED.
			C. THE DRILLING RATE FOR THE HE IMPLACEMENT HOLES WILL BE USED TO DETERMINE THE GO/NO GO POINTS FOR THE TWO HOLES. THE GO/NO GO POINTS ARE AS FOLLOWS
			FIRST AND SECOND HOLE - A MAXIMUM OF 10 MINUTES POWER ON TIME WILL BE EXPENDED ON EACH HOLE.
			(1) DEPTH LESS THAN 2 DRILL STRING SECTIONSRETRACT DRILL AND START NEW HOLE IF RATE IS LESS THAN 1 SECTION PER 5 MINUTES. BASED ON THE RATE OBSERVED OVER 30 SECONDS. MOVE TO A NEW LOCATION ONLY TWICE PER HOLE.
			(2) DEPTH GREATER THAN 2 DRILL STRING SECTIONSPROCEED WITH DRILLING UNTIL 6 DRILL STRING SECTIONS ARE IMPLACED OR UNTIL 10 MINUTES OF POWER ON TIME HAS ELAPSED (TO PREVENT THE POSSIBILITY OF EXCESSIVE DRILL STRING JOINT WEAR).
		3-4	CPLEE
.uniitue			GROUND COMMAND 113 (REMOVE DUST COVER) SHOULD NOT BE SENT TO THE ALSEP PRIOR TO LM LUNAR ASCENT.
With and a local second se		3-5	CCGE
Station and States			A. THE CCGE WILL BE COMMANDED TO OPERATE-SELECT TO VERIFY THAT IT IS OPERABLE AS SOON AFTER DEPLOYMENT AS POSSIBLE.
			B. THE CCGE WILL NOT BE LEFT IN OPERATE-SELECT FOR LONGER THAN 5 MINUTES WITH THE DUST COVER INSTALLED.
			C. GROUND COMMAND 105/107 (REMOVE DUST COVER) WILL NOT BE SENT PRIOR TO OPERATING THE CCGE IN BOTH THE CAL ENABLE MODE AND THE RANGE MODE A (NORMAL MODE).
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SECTION 3 - ALSEP OPERATIONAL GUIDELINES

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WWW.	REV	ITEM	
		3-6	EXPERIMENT PRIORITY
			A. AT DEPLOYMENT EXPERIMENT PRIORITIES ARE COMMENSURATE WITH THE MISSION PRIORITIES. THE
			PRIORITIES ARE AS FOLLOWS (1) PSE
			(1) FSE (2) HFE
Water			(3) CPLEE
			(4) CCGE
			(5) DUST DETECTOR - M515
			B. DURING A NOMINAL ALSEP MISSION THE EXPERIMENTS WILL RETAIN THEIR PRIORITY AS LISTED ABOVE UNLESS THEY ARE CHANGED BY THE SCIENCE AND APPLICATIONS DIRECTORATE. HOWEVER, DURING CERTAIN PERIODS OF TIME DURING THE LUNAR CYCLE AN INDIVIDUAL EXPERIMENT OF LOWER PRIORIT MAY BE GIVEN AN ELEVATED LEVEL OF ATTERTION. THIS WILL BE BASED ON THE ABILITY OF THE EXPERIMENT TO RESPOND TO THE PHENOMENON OCCURRING.
			(1) THE CPLEE WILL HAVE THE FOCUS OF ATTENTION DURING THE FIRST CROSSING OF THE EARTH'S BOW SHOCK WAVE, FOR SUBSEQUENT CROSSINGS OF THE BOW SHOCK WAVE ANOTHER EXPERIMENT MAY REPLACE THE CPLEE DEPENDING ON THE DATA OBTAINED DURING THE PREVIOUS CROSSINGS.
			(2) DURING PREDICTED PERIODS OF ARRIVAL OF HIGH ENERGY PARTICLE RATES AT THE ALSEP SITE FROM SOLAR FLARES, THE CPLEE WILL HAVE THE FOCUS OF ATTENTION. DURING SUBSEQUENT FLARES ANOTHER EXPERIMENT MAY REPLACE THE CPLEE DEPENDING ON THE DATA OBTAINED FROM PREVIOUS FLARES.
			(3) THE FOCUS OF ATTENTION WILL BE ON THE FOLLOWING EXPERIMENTS DURING THE FIRST TERMINATOR CROSSINGS (SUNSET AND SUNRISE)
et			(A) PSE NO. 1 FROM 15 MINUTES BEFORE CROSSING UNTIL 1 HOUR AFTER CROSSING.
			(B) CPLEE NO. 2 FROM 6 HOURS PRIOR UNTIL 12 HOURS AFTER SUNSET.
your			(C) CCGE NO. 2 FROM 2 HOURS PRIOR UNTIL 18 HOURS AFTER SUNRISE.
			THE LISTED TIMES AND EXPERIMENTS MAY BE CHANGED FOR SUBSEQUENT TERMINATOR CROSSINGS AFTED THE FIRST.
			(4) THE HFE WILL RECEIVE THE FOCUS OF ATTENTION DURING THE TIMES WHEN MODE CHANGES ARE BEING COMMANDED AND DURING THE TIMES WHEN THE PROBE HEATERS ARE ON FOR A CONDUCTIVITY EXPERIMENT.
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	L		GUIDELINES PRIORITY 3-4

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MISSION RULES SECTION 3 - ALSEP OPERATIONAL GUIDELINES

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		3-7	INSUFFICIEN	POWER FOR	R SIMU	LTANEOUS	S SUPPORT OF ALL	EXPERIMENTS			
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.englillillion		3-8	EXPERIMENT	INTERFERES	WITH	ANOTHER	EXPERIMENT OR TH	E CENTRAL STATI			
			IF ANY EXPER	RIMENT IS D	DETERM	INED TO	BE A STEADY SOUR	CE OF INTERFER	ENCE TO		EXPERIMENT.
			THE INTERFE	THE INTER	RFERIN	IG EXPER:	IMENT WILL BE CUR L RETURNING DATA. GURATION FOR MORE	TAILED (BUT NOT	TERMINA	ATED) FOR	AS LONG AS
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MISSION RULES

SECTION 4 - SPECIFIC RULES

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SECTION 4 - SPECIFIC RULES

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	4.	-11	FAILURE OF A Switchover t			SELI	ECT PCU 2	' TO ' OF	2 SELCMD PCU 2 SHOULD LIMITS (LESS N 13 VDC)	OCCUR AT +1	2 VDC OUT
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		-12	RESERVE POWE	 				1			
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						+PRI	INNING WITH THE LA DRITY EXPERIMENT	REFER	FOR PCU 1		
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	4-21	ALSEP FAILS TO Respond to a co			* * *B.	REINITIATE THE CO IF UNSUCCESSFUL, OTHER DECODER (AL	SELECT '	NO FUNCI	IONAL	VERIFICA	TION AND	NO
984			1 0 1 1 1 1		•	OR 38) AND REINIT The command.		VERIFY OPENED.	RECEI AE-	VER CB 14 OR • 12-HR	(CB-01) AE-13	
	4-22	FAILURE OF 12 H TIMER	IOUR		+	• INITIAL 45 DAYS SUPPORT IF ANY TWO OF 1 FOLLOWING TEMPS BETWEEN -20 DEC +155 DEG F. CON REAL TIME SUPPO THRU 45 DAYS	HE SIS SIS SIS SIS SIS SIS SIS SIS SIS SI	AFTER 1 NUMBER (AS A FUI	IOT RI DF CON: ICTION	ILL BE D ECEIVING A SECUTIVE 1 OF ATO7,	A SPECIF 2 HOUR PUL THERMAL PL NUMBER O CONSECUT	IED SES ATE
			, , , ,		•	AT31, CMD DEC E AT32, CMD DEC I AT33, CMD DEC V	NTT I		ATO		MISSED 12 HR Pulses	
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1			4 9 9 9 9		1 1 1 1 1	• AFTER THE INITI DAYS, THE TRANS WILL BE LEFT ON PROVIDING THE A IS	AL 45 MITTER L I LSEP	THE FO	LLOWI ATION FAIL	+155 DEG F NG WILL IN PREJ JRE OF	BE GIV	THE
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		4-23 TO 4-25 RESERVED	, , , , ,		•		•	COMMANDS	TRAN	SMITTED.		
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MISSION RULES SECTION 4 - SPECIFIC RULES

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REV	ITEM	CONDITION/MALFUNCTIC		t RULING	CUES/NOTES/COMMENTS
			•		
	4-26	WEAK TH SIGNAL	1	A. SELECT REDUNDANT XM	TR A. XMTR A SELCMD 012
1			1	•	XMTR B SELCMD 015
			1	B. SELECT LOW BIT RATE	B. LOW BIT RATE SELCMD 007
- 1	4=27	LOSS OF SYNC OR BAD DECOMMED DATA	1	A. SELECT REDUNDANT	A. PROC 'X'' SELCMD 034
		DRD DECOMMED DATA	•	PROCESSOR	PROC ''Y'' SELCMD 035
			1	B. SELECT LOW BIT RATE	, B. LOW BIT RATE SELECTCMD 00
	4-28	LOSS OF TH SIGNAL	i	A. SEND TH ON.	A. TM ONCMD 013
			į	B. SELECT REDUNDANT XM	TR B. XMTR A SELCMD 012
			1	1	XMTR B SELCMD 015
			r r r	C. AFTER NEXT 12 HR	; C. IF RCVR CB (CB-01) OPEN; NI 12 HR PULSE WILL RESET IT;
			1	REPEAT AGB.	1 NOTE
			6	6 6 0	, ' IF PSE LEVELING IS IN PROGRESS, SI ' PSE STBY SEL CMD 043
	4-29	DATA DEMAND SIGNAL	1	' SELECT REDUNDANT PROCES USING THE OTHER DECODER	SSOR CUE
		FROM DATA PROCESSOR Fails High		USING THE OTHER DECODE NOT RETURN TO FAILED PROCESSOR.	
				1	PROC ''X'' SELCMD 034
			1	t t	1
	4-30	LOSS OF ANY TH	;	I SELECT REDUNDANT DROCT	+ PROC + + Y + + SELCMD 035
		PARAMETER IN FIRST 15 CHANNELS OF 90 CHANNEL MULTIPLEXER	1 1	t I	SSOR DO NOT APPLY IF MISSION RULE 31- HAS BEEN INVOKED.
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MISSION RULES

SECTION 4 - SPECIFIC RULES

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RE	V ITEM				RULING		CUES/NG	TES/CO	MMENTS
	4-31			PER BY	FORM FORCED LEVEL Ground commands	4	FORCED	MATIC. MODE.	N PRESETS LEVELING MOD CMD 103 WILL SWITCH T CMD 103 IS A TWO-STAT LING MODE AUTO/FORCED.
1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - Margana - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 199 Margana - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 199	4-32	PSE LEVELING MOTOR FAILS ON	1 1 1 1 1	'STA	ERNATELY GND CMD NDBY SELECT AND T RATE SELECT	0		NG MOTO	R WILL DRAW 3 WATT. Power.
			1 T 1	8 9 8		1			
	4-33	· · · · · · · · · · · · · · · · · · ·	t t	I NO	ACTION TO BE TAKE	in t	CUE		
		FAILS OFF	9 9 9 1 9	8 8 9 8 8 8	•	9 8	MADE 1	WHEN O TUR	SERVE POWER (NORMALLY REPEATED EFFORTS AR N MOTOR ON; AND N SHORT PERIOD Z-DAT.
	4-34	FAILURE OF MECHANICAL LEVEL	: 1 1	I SEL	ECT LOW SPEED AND ED AND DIRECTION	HIGH	CUE		
		DRIVE	t 6 F 1		ERSALS ALTERNATEL	Ý• •	DETECTE	D ON	THE PLATFORM CAN BE THE LP HORIZONTAL OF T TIDAL OUTPUT.
			•	1			X-MTR C	N/OFF-	-CMD 070
prositive and			•	•		1	Y-MTR C	N/OFF-	-CMD 071
			ŧ †	1		*	Z-MTR C	N/OFF-	-CMD 072
Bhijiyawana a shi			•	•		4 1	DIRECTI	ON PLU	S/MINUSCMD 074
			1	1		*	SPEED L	OW/HIG	HCMD 075
	4-35	MISALIGNED COARSE SENSOR	9 9 9 9 9 9	•	COMMAND COARSE-SE OUT WHEN CORRESPO MOTOR IS IN LEVEL OPERATION.	NDING ING	STEPPIN A HIGH WITHOUT	G RATE STEP ACHIE	L LEVELING PHASE (LO)), THE MOTOR REVERTS T PING RATE REPEATEDL' VING CENTERING. COARSI
			6 6 6	* 8 • • •	PERFORM FORCED LE OF THE PSE BY GND	CMD.	ALIGN,	AND TH 'E BEYO	AND GIMBAL WILL NEVE E MOTOR WILL CONTINU ND LEVEL. COARSE SENSO
	4-36	FAILURE OF COARSE LEVEL SENSOR			SELECT FORCED PSE LEVELING MODE.	1	CUE		
					GROUND COMMAND CO LEVEL SENSOR OUT.	ARSE I	NOTICED PHASE A	DURI	D MOTOR OPERATION IN NG INITIAL LEVELING PONENT DOES NOT CENTED
			 	1	PROCEED WITH INIT Forced Leveling F Coarse Leveling.	OR 1	SPEED L	IN EVELIN	TED TIME (35 MINUTE AUTO MODE) USE HIG G FOR COARSE LEVELING.
nteresty.)))	12.	USE AUTO MODE FOR LEVELING.	FINE		RCED.	E LEVELING MODE SE LEVEL SENSOR OUT
)	1		1			
Silvei Anne									
		· · · ·							
					·				
Balance .									
-		MISSION	REV	DATE	SECTION	GROUP	——	PAGE	
		ALSEP 3			SPECIFIC	PSE			
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MISSION RULES

SECTION 4 - SPECIFIC RULES

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No. Contraction of Co	REV	ITEM	CONDITION/MALFUNCTIO	1' PHA	SE '	RULING	1 CUE	S/NOTES/COM	MENTS
and the second		4-37	LONG PERIOD Component sticks	8 8 1 9 8 1 7 8	•	USE HIGH SPEED, FO Leveling in direc Which Pulls MASS / From Stop,	TION FAI AWAY FAI TIM MOD	LURE TO CE E (35 minu E). IF STEP	NTER WITHIN EXPECTED TES MAXIMUM IN AUTO S A AND B FAIL, LP
				1 1 1 1		IF UNSUCCESSFUL, S Low Speed and High Speed and Directic Reversals Alterna	SELECT NOT	NOT EXCEED	5 MIN 30 SEC IN HIGH
				1 7 8	*		•	ITR ON/OFF	
				1	•		•	TR ON/OFF	
				•	*				MINUS-CMD 074
		ł		1 1	*		•	ED HIGH/LOW	
				•	1 1				
		4-38	ELECTRICAL FAILURE OF LONG PERIOD	1		MINATE LEVELING OF Ected axis after (
			COMPONENT	1 1 1 1	SEN	SOR PHASE IS COMPI	ETED 1 TID	AL OUTPUT I AFFECTED TERING DRIV	S WITHIN RANGE, BUT IS BY LEVELING OR E.
primitivaneses -		4-39	AUTOMATIC SWITCHOVER OF PSE TO STANDBY	1 2 1 1 1	CMD	PSE TO OPERATE SE	' FRO ' PER ' SEL	M OVERCURR	AKER CB-07 HAS OPENED ENT (500 MA +/- 10 NDBY MODE WILL BE HE CB WILL BE RESET
				1			PSE	OPER SEL	CMD 042
		4-40	FAILURE OF PSE UNCAGE SEQUENCE	1 1 1 1	+	TO UNCAGE ARM 1. Send uncage Arm	SEN	DING CMD /FIRETWIC	G IS ACCOMPLISHED BY 073 UNCAGE E, ONCE TO ARM AND HE ACTUATOR.
				•		2. IF UNSUCCESSFUL	•		
				• • •	1 1 1	FIRST 12 HR TIN PULSE WILL ARM ACTUATOR.	IER I UNC.	AGING MAY N 5 THERMAL P	OT BE POSSIBLE UNLESS LATE 3 TEMP IS ABOVE
				•	:	3. IF UNSUCCESSFUL 96 HR +2 MIN PL	!	DEG F.	
				•	•	FROM DELAYED CH SEQUENCER WILL ACTUATOR.	AD I ARM I SELI	ECTING PSE	STANDBY WILL RESET ARM TOR IS NOT FIRED.
				•	• .	TO UNCAGE FIRE (AF ACTUATOR HAS BEEN ARMED).	•		IRED BETWEEN ARM AND
				•	•	1. SEND UNCAGE ARM	- FIR	E TO CHARGE	CAPACITOR.
and the second				1 1 1 1	, , ,	2. IF UNSUCCESSFUL SEND CMD 043 PS Standby Sel. Th 042 PSE Operate	IEN CMD		
Maggarane -				* * * *	8 8 8 8	3. IF UNSECCESSFUL NEXT 12-HR TIME PULSE WILL FIRE ACTUATOR.	ir i		
anganana									
Statement -									
			MISSION	REV	DATE	SECTION	GROUP	PAGE	
		•••••••	ALSEP 3	FNL	<u> </u>	SPECIFIC	PSE		
	1				1			4-6	

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MISSION RULES

SECTION 4 - SPECIFIC RULES

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RE	VITEM	CONDITION/MALFUNCTIO		SE 1	RULING	1	CUES/NO			
	4-41	PSE GOES OFF WHILE		DUF	ING NORMAL OPERAT	IONS,				
atternanten		IN STANDBY MODE	8 9 9 8 8 8 8 8		D PSE TO STBY SEL	8 8 8 8 8	EXP 2 AND RES POWER I IF FUSE OVERCUR	ERVE P S REMOV (F-04) Rent (5	DISCRETE EXTINGUISH OWER INCREASES SI (ED FROM THE HEATE HAS BEEN BLOWN DOMA), CAPABLIITY MODE IS LOST.	INCI ERS
1997 (2019 (2019) - 1			1			•			TBY SEL	
			•			4 1	CMD 017	PDR 1	. ON	
	4-42	PSE TEMP LOW AND AUTO THERMAL CONTROL FAILS	8 9 9 8 8		IMAND HEATER TO FO	9 1 8	FAILED. WHICH C	CMD 07 An Sequ Ng Mode	IC THERMOSTAT CONT 6 IS A 4-STATE C ENTIALLY STEP THRU S TO CONTROL THE	CMD TH
			•	*	>	1	1. AU	TO OFF		
			1	1 1		•	2. FO	RCED HT	RON	
			•	*		•	3. FO		F	
			İ	•		•	4. AU			
						•	IS 125	DEG F.	RUMENT TEMP LOW LI MINIMUM OF 5 WA IS REQUIRED.	IMI ATT
	4-43	PSE TEMP HIGH AND AUTO THERMAL			COMMAND HEATER TO		А. СМ	D 076 I	S 4-STATE CMD.	
milinger,		CONTROL FAILS	÷		FORCED OR AUTO OF		1. AU	TO OFF		
			1	1			2. FO	RCED HT	RON	
			•	4		1	3. FO	RCED OF	F	
			4 1	*		• •	4. AU	TO ON	•	
(:	· · ·		•	DL-07 P: IS +127	SE INST DEG. F	RUMENT TEMP HIGH LI	IMI
			4 1 1	•	IF UNSUCCESSFUL, PSE TO STBY, THEN OPERATE	TO 1	B. SI REINITI CONTROL	ALIZE T	G PSE TO STBY W O AUTOMATIC THERMOS	VIL Sta
	4-44	LOSS OF DOWNLINK	1	SEN	D PSE STBY SEL		NOTE			
		DURING LEVELING MOTOR OPERATION				1	PSE STB	Y SEL W	ILL STOP MOTORS.	
				÷		1				
		4-45 TO 4-50 Reserved	1 1 1	1	· .	1				
1999-1995 										
man -										
юм _{ин,}										
9000m ⁻¹¹	<u> </u>			La		r				
		MISSION	REV	DATE	SECTION	GROUP	<u> </u> '	AGE		-
		ALSEP 3	FNL	3/23/70	SPECIFIC	PSE		4-7		

MISSION RULES

SECTION 4 - SPECIFIC RULES

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REV	ITEM	CONDITION/MALFU		*****	*****	RULING	' CL	JES/NOTES/CO		
	4-51	UNABLE TO DRILI NOMINAL HEE EMPLACEMENT HOI A. NEITHER HOLF DEEP ENOUGH EMPLACE HEE PROBES	LES I		-	LAY PROBES ON HORIZO LUNAR SURFACE AND CO PROBES AND FIRST 6 1 OF CABLE WITH DUST 6 MUCH AS POSSIBLE	OVER ' EN Feet ' si	PLACE A HEE	0000E 1E 1	
		B. HOLES NOT NOMINAL DEP			* B + t t	ADD 1 DRILL STRING SUPPORT PROBE IF NECESSARY. PLACE PROBES IN HOLI AS FAR AS THEY WILL	1 ES †			
	4-52	HAVE CHOICE OF DRILLING 2ND HI HOLE OR CORE SAMPLE HOLE.			I DR I EMI	LL 2ND HFE PROBE LACEMENT HOLE.	1 HF 	E HAS PRIOR	ITY OVER CORE	SAMPLE.
		4-53 TO 4-60 RESERVED	8 8 8 8		8 8 8 8 8		1 1 1 1 1 1			
									•	
		MI	5510N	REV	DATE	SECT ION G	ROUP	PAGE		

MISSION RULES SECTION 4 - SPECIFIC RULES

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Communication of the second se

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4-41 CGGE DULT COVER CGGE DULT COVER DDPLOWERT. DD NOT TRY TO REINSTALL. DUST FROM ASTRONAUT GLOVES DOES MORE AMM THAN MAXING COVER DFF. 4-52 ULCARE TO BREAK CGGE EEAL. VAIT FOR DELAYED THER TO INITIATE COMMANDS. 96 HR + 2 MIN SET SEAL BREAK TO HAT TO MORE SELECT AN THE TIME OF THE SA HOW PULSES. 4-53 ULEXPECTED CHANGE IN CCCE HODE OF ANGO: CMD TO STANDBY- ULEXPECTED CHANGE IN CCCE HODE OF ANGO: USE DG-DD AS TEMP. REFERENCE. 4-54 TO ATTE CCMD TO STANDBY- IN CCCE HODE OF ANGO: USE DG-DD AS TEMP. REFERENCE. 4-54 TO ATTE SECTOR THE EXP. IS INCRESSING WAIT UNTIL IT TAS DCREAGED TO I DECESSING WAIT UNTIL IT AS DCREAGED TO I DECESSING WAIT UNTIL IT AS DCREAGED TO I DECESSING AND UNTIL IT AS DCREAGED TO I DECESSING THE EXPERIMENT. 4-54 TO ATTO RESERVED ATTE SECTION BROUP FAGE 415510M AEV DATE SECTION BROUP FAGE 415510M ALSEP 3 FNL 3/23/70 SECIFIC CCCE	REV	ITEM	CONDITION/MALFUNC	TION	PHA	5E 1	RULING		CUES/NOTES/CO		
4-63 UNEXPECTED CHANGE 14-63 UNEXPECTED CHANGE 14 COE MOSE OF MAY SEEL BEEAX 4-64 UNEXPECTED CHANGE 14 COE MOSE OF MAY SEEL BEEAX 15 COE MOSE OF MAY SEEL BEEAX 16 LF COE TEMP. 15 16 LF COE TEMP. 15 17 COE TEMP. 15 17 COE TEMP. 15 18 LF COE TEMP. 15 18 LF COE TEMP. 15 19 BELOW TEMP. 15 19 BELOW TEMP. 15 10 BELOW TEMP. 15 10 BELOW TEMP. 15 10 BELOW TEMP. 15 11 THE EAR WAIT FOR A DECLEASING WAIT		4-61	COMES OFF DURING	1 7 1		•		ALL.	DUST FROM AST	RONAUT GLOVES DO	
4-53 UNEXPECTED CHANGE IN COSE MODE ON NAME 4-54 ID COSE MODE ON ANDE 4-54 ID COSE MODE ON ANDE 4-54 ID COSE MODE ON ACTING OCCURRED, AND RESET THE EXPERIMENT. 4-54 ID COSE TO AND RESERVED MISSION NEV DATE SECTION GROUP PAGE		4-62	UNABLE TO BREAK CCGE SEAL.	+							EAK
MANDE OR MANDE OR MANDE MODE OR MANDE ALL ALL FOR ALL ALL ALL ALL ALL ALL ALL ALL ALL AL				, , ,		•		1	CCGE MUST BE The time of t	IN OPERATE SELI HE 96 HOUR PULSES	ECT AT 5.
MISSION REV DATE SECTION GROUP PAGE		4-63	IN CCGE MODE OR			CMD	TO STANDBY-		USE DG-08 AS	TEMP• REFERENCE•	
4-64 TO 4-70 RESERVED 4-64 TO 4-70 RESERVED MISSION REV DATE SECTION GROUP PAGE				•		•	DECREASING WAIT F DELTA TEMP. OF 1				
RESERVED				1 1 1 1 1 1		18. 1 1	INCREASING WAIT U IT HAS DECREASED DEG BELOW TEMP. A ARCING OCCURRED,	NTIL TO 1 T WHICH! AND			
				1		, , , ,					
				1		ı		1			
		l	MIGG		REV	DATE	SECTION	GROUP			
	 							t	PAGE		

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MISSION RULES SECTION 4 - SPECIFIC RULES

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Second Second	REV	ITEM	CONDITION/MALFUNCTI	ON' PH	HASE 1	RULING	' CUES/N	OTES/COMMENTS
		4-71	CPLEE DUST COVER Comes off During Deployment		DO	NOT REINSTALL	CONTIN	UE DEPLOYMENT
antiness.		4=72	UNABLE TO REMOVE CPLEE DUST COVER	9 1 2 1 9	WAI INI	T FOR DELAYED TIM TIATE CMD.	' REMOVA	+ 2 MINCPLEE DUST COVE L. CPLEE MUST BE IN OPERAT AT THE TIME OF THE 96 HOU
		4-73	UNABLE TO MAINTAIN THERMAL INTEGRITY IN CPLEE	1 1 1 1	' CMD	T LESS THAN - 10 HTR ON IN FORCED ECMD 111	DEG C THERMO	STAT IS SET O DEG C +/- 10 DE
				, , , ,	'IF 'INT	IN FORCED MODE AN T GREATER THAN + MD HTR OFF CM	10 DEG 4	
		4-74	THERMOSTAT FAILED	1	•		9 8	
			A. CLOSED - (HTR ON TEMP GREATER TH +10 DEG C	I) IAN	: ! A . !	REVERT TO FORCED Control as in Mr	HTR USE AC	-6 AS TEMP REFERENCE
			B. OPEN -(HTR OFF) TEMP LESS THAN -10 DEG C		•B•	REVERT TO FORCED Control as in Mr	HTR 4 4-73	
		4=75	UNEXPECTED CHANGE IN CPLEE MODE OR OR SEQUENCE.	8 9 8	CMD	TO STANDBY	1 6	
and the second				* 1 * *	1 1	IF CPLEE TEMP. IS DECREASING WAIT F DELTA TEMP. OF 1 AND RESET THE EXP	OR A I DEG. I	-05 AS TEMP. REFERENCE.
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 8 8 8	IF CPLEE TEMP. IS INCREASING WAIT U HAS DECREASED TO BELOW THE TEMP. A WHICH THE UNEXPLA CHANGES OCCURED A RESET THE EXP.	NTIL IT 1 DEG. 1 T 1 INED 1	
				1	, , ,		•	
		4-76	INT. TEMP GREATER THAN +66 DEG C WITH DUST COVER ON IN OPER SEL.	•	I CMD	TO STBY SEL	CUE	-06 AS TEMP. REFERENCE.
				1			1	
			4-77 TO 4-80 RESERVED	8	8		1	
(ffMfatare).								
denecessan ^{e, .}								
pillionen								
	—	l	MISSIO	N REV	DATE	SECTION	GROUP	PAGE

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MISSION RULES APPENDIX A - ACRONYMS AND SYMBOLS

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REV ITEM								
	AC A/DC ADD ALIGN ALSEP A/F AMPS ANT AUTO AZ	ANALOG AMPERI ADDRES ALIGN APOLLO	G-TO- ES DC SS MENT D LUNA ATIC/F ES NA		T Converter Ce Experiments PJ	ACKAGE		
	BL BAS BER BPS	BOTTOM BASE BIT EF BITS F	ROR F	RATE	STRUCTURE TEMPER	RATURE		
	CAL CB CCGE CCGE/A CCGE/A	CALIBR CIRCUI COLD C EXPERI ANALOC	RATE IT BRE CATHOD IMENT	EAKER De gage i On alser	EXPERIMENT. (PART 3) ID READOUT FROM		SEP 1 AND	4, SEPARATE MSC
	CCIG CCW CH CHAN	COLD C COUNTE CHANNE CHANNE CHANA	ELTRON 1 CHA 2 CHA	KWISE N USED ANNELTROM ANNELTROM	AGE (INSTRUMENT F IN CPE AS I P/S NO. 1 I P/S NO. 2		iE)	
	CMD CNT CNTR CONV	CHAN/ CHAN/ COMMAN COUNT COUNTE CONVER	HI CH LO CH ID R R RTER	IANNEL TRO	DN VOLTAGE INCREA DN VOLTAGE INCREA	SES OFF		
	CPLEE CPE	OR CHARGE EXPERI	D-PAR	RTICLE EX	PERIMENT (FULL N	AME IS CHARGE	D-PARTICLE	LUNAR ENVIRONMENT
	CPS C S CTL CVR CVW	CENTRA CONTRO COVER	L STA	SECOND TION	N WORD			
	DB DBM DC DEC DIG DIR/V DISSIP DLAY D/P DPLY DRT DSS	DECIBE DECIBE DIRECT DIGITA DIGITA DIGITA DIRECT DISSIP DELAY DATA POY DOME R DATA S DSS/D	LS WI CURR CURR OR ION A ATION ROCES EMOVA UBSYS	ITH RESPE RENT SSOR L TOOL TEM CO NALOG DA	(USED ON PSE) (USED ON PSE) MPONENTS INCLUDE TA PROCESSOR ATA PROCESSOR DATA PROCESSOR			
	EP S EXP		ICAL	POWER SY				
	F FET FLD FREQ FTT	FIELD FREQUE	EFFEC NCY	T TRANSI	STOR			
	GDT GEO GMBL GND GT	GEOPHO GIMBAL GROUND	NE NT SE	NSOR AMB	TA TEMPERATURE (IENT TEMPERATURE			
	HBR	HIGH B		TE				
	HBR	HIGH B	REV	DATE	SECTION	GROUP	PAGE	

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MISSION RULES APPENDIX A - ACRONYMS AND SYMBOLS

Adding the second	REV	ITEM								
			HFE HTR	HEATEI HTR/I HTR/I	(-K HI(-K LO)	GH CONDU	NT HERE ARE TWO CASE STIVITY HEATER IVITY HEATER	S		
Contraining to a			HT/S HV HZ	HEAT : HIGH HERTZ		GE				
and a second			INST Insul Int	INSTRI INSULI INTERI	TION					
			К КС КНZ КV	KELVII KILOC KILOHI KILOVI	CLES					
			LAT LBR LONO LOS LSB LSB LVL	LOSS (Long F Least Least	IT RA MODUI UDE OSCII DF SIC PERIOI SIGN SIGN	LE	DATA			
			MA MADC MAP MCC MDE MEV MOCR MODE	MEGACY MISSIC MODE MILLIC MEGAHE MISSIC MODULE	APERES SE ACO YCLE DN CON DN ELE ERTZ DN OPE	S DC CEPTABLE NTROL CEM ECTRON VC ERATIONS	ITER	045		
			MS MSB MSFN MTR MUX MV MW/CM2	MODE, MODE, MODE, MILLIS MOST S MOST S MANNEL MOTOR MULTIF MILLIN	G GF HK HI LK LC GECONI GIGNIF GIGNIF SPAC ON LEX OLTS	RADIENT N IGH CONDUC DW CONDUC TICANT BI TICANT DA CE FLIGHT PSE, THE	NODE ICTIVITY MODE ITIVITY MODE		AND MTRZ	
			NA	NANOAM	PERS					
			osc	OSCILL	ATOR					
			PA PA PCM	POWER PICOAM PULSE	CODE	MODULATI	ON			• •
ingelineses.			PCU PDR PDU PET PHYS PLT	POWER POWER PACKAG PHYSIC PHYS/ PLATE	DISSI DISTR E ELA AL	PHYSICAL	ESISTOR	R ASSEMBLY)		
Waggenger ^{an d}			PM PRE/LI P/S PSE	POWER PASSIV PSE/L PSE/S PSE/L LONG	MITIN SUPPL E SEI P L P S P/SP PERIO	IG SMIC EXP ONG PERI SHORT PER LONG AN DD SENSOR	ERIMENT ALSO OD SENSORS IOD SENSORS D SHORT PERIOD S S ARE FURTHER DE RIZONTAL LONG PE	ENSORS FINED AS PSE/X	• PSE/Y•	AND PSE/Z WHILE PSE/XY
Hanner,			R RCVR RDT	RESIST RECEIV	OR (U ER	ISED AS R	1 AND R2) EMPERATURE (HFE)			
		A		MISSION	REV	DATE	SECTION	GROUP	PAGE	· · ·
				ALSEP 3	FNL	12 (22 (22	ACRONYMS AND	+		

MISSION RULES

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	REV	ITEM					A - ACRONYMS AND					<u></u>
			RF RST RT RTC RTG	REAL-T	ENSOR	AMBIENT	TEMPERATURE (HF					
			SCI SEQ	SCIENT SEQUEN SEQ/F SEQ/P SEQ/P	CE + SI UL FU 1 PI 2 PI US	ULL SEQU Robe 1 S Robe 2 S Sed on A	EQUENCE EQUENCE SE AS	AS				
			SEQ SNSR SP SPST S/S SWS SYNC	SENSOR SHORT SINGLE SAMPLE	IFIC PERIO POLE S PER WIND :	EQUIPMEN D (PSE S SINGLE SECOND. SPECTROM	ENSOR) THROW SIGNAL STRENGTH	4				
			TC TM	THERMO TELEME	COUPLI TRY	E (ON HF	E. FOUR CABLE AN	BIENT TEMPE	ERATURE	ES ARE F	READ ON EAC	H PROBE)
			USB	UNIFIE								
			V VCO V/FILT	VOLTAG	E CON	TROLLED	INDICATE ''SPEED OSCILLATOR COMPONENT OF SID	•	IN ''LN	L DIR/	/**)	
			W W1• W2 W3	WATTS Wall L	OCATIO	DNS OF S	TRUCTURE TEMPER	TURE SENSOR	RS			
			XMTR XTAL XYZ XYO	TRANSM CRYSTA AXES O X, OR	L F LSM	• WHERE NEITHER	XYO INDICATES					
			8									
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Vanne												
and the second sec	 			MISSION	REV	DATE	SECTION	GROUP		PAGE		<u></u>
	\vdash	<u></u>		ALSEP 3	FNL	3/23/70	ACRONYMS AND					
							SYMBOLS			A-3		

MISSION RULES APPENDIX B - DISTRIBUTION LIST

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			,		APPENDIX	MISSION RULES	N LIST			
REV	ITEM							· · · · ·	······	
		DIRECTOR AB/KRAFT, J	R. C.C.							
	DIRECTO	R OF FLIGHT	OPERATIONS							
		FA/SJOBERG:								
		CONTROL DIV FC/KRANZ, E								
		FC/ROACH+ J FC2/HARLAN+	•₩• C•Se (6)							
		FC8/SAULTZ . FC6/SHELLEY FC9/BRADFOR	• C.B. (2)	(4)						
	Е ГОНТ	SUPPORT DIV	TSTON							
		FS5/ROUNDTR	EE, J.R.							
		PLANNING A			- 101					
	M13510	FM/MAYER + -	I+P+		SION					
	DIRECT	R OF FLIGHT		TION						
	DIRECT	AC/SLAYTON	D.K.		•					
		CREW SUPPOR	TDIVICION							
		CF/NORTH W CF3/ALLEN #	le Je							
		CF5/RICHARD CF6/0'NEILL CFK/MCCAFFE	JaWa							
	APOLLO	SPACECRAFT PA/COL. MCI PA/MORRIS;	TTIVI	ICE						
		PA/JOHNSTON PA/KUBICKI	l, R.S.							
•		PA2/ASPO F1 PD4/SEVIER PD7/KOHRS;) J. (2)							
		PD9/CRAIG. PE (2)								
		PG PP7/STEWART PP12/TASH,								
		PT/ARABIAN PT3/DATA LI	• D•							
	DIRECT	DR OF ENGINE	ERING AND	DEVEL	OPMENT					
		EA2/GARDINE EH/WISEMAN	ER+ R+A+							
	FLIGHT	SAFETY OFF	CE							
		SA/FRENCH.	J.C.							
	DIRECT	OR OF SCIEN								
		TM5/STEPHE	150N . B. (1	5)						
	OFFICE	MANNED SPAC MAO/LAND, E								
	ATOMIC	ENERGY COM	HISSION							
		ZS5/REMINI								
· · · · ·			MISSION	REV	DATE	SECTION	GROUP	PAGE		-
			ALSEP 3	FNL	3/23/70	APPENDIX B - DISTR. LIST		8-1		<u> </u>

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MISSION RULES

REV	ITEM							······································		
							CHANGE CONTROL			
		1.0	INTRO	DUCTION						
		1.1	PURPO							
			CH MA	ANGES PE	ROVIDE	E A RECOL	ENDIX IS TO DELIN • THIS WILL I RD OF PROPOSED CH. PROVIDE A MEANS NS (INTERIM CHANGI	ANGES (INCLUD	ROPER CO	ORDINATION OF
		1.2		TIVITY						
			MA	RCH 23.	970.					
		2.0	CHANG	E PROCEDU	JRES					
		2.1	SUBMI	SSION OF	CHANG	ES				
							LICITED FROM ANY : ES WILL BE SUBMITT CH (FCOB); FCD:	NDIVIDUAL OR	ORGANIZA TO THE	TION HAVING A CHIEF, FLIGHT
		2.1.1	FORMA	т						
			PR		ANGES	WILL BE	AIT & PROPOSED CHA RULE: USING THE S SUPPORTED BY RAT			
		2.2	APPRO	VAL						
		2.2.1	COORD	INATION						
				E ORIGINA TAIN FORM IGHT CONT		NCURRENC	HANGE MAY OBTAIN P LES FROM THE CHIEF	RELIMINARY C EXPERIMENTS	ONCURRENG	ES• FCOB WILL BRANCH• CHIEF
ŀ		2.2.3	DISAP	PROVED CH	ANGES					
		-	IF CO	A CHANGE PY OF THE	IS D Requ	ISAPPROV ESTED CH	ED FCOB WILL RETU ANGE WILL BE RETA	RN THE COPY	TO THE ORI	IGINATOR. A
		2.3	PUBLI	CATION AN	D DIS	TRIBUTIO	N OF INTERIM CHAN	GES		
				TERIM CHA NSISTING E APPROPR	U 1 1 11		DISTRIBUTED VIA N CONTROL TEAM: P OR(S).	AN ABBREVIA ERTINENT NAS	TED DISTR SA ORGANI	RIBUTION LIST
		3.0	REVIS	IONS						
		3.1	DEVEL	OPMENT						
				PEN AND	INK	CHANGES	FECTIVE INTERIM C O COMPLETE PAGE MAY BE USED TO ES ON THE PAGE CO	CHANGES TO	T	
		3.2	APPROV							
			ALL	REVISIO	NS WI	LL BE AP SPACECRA	PROVED BY THE DIR FT PROGRAM.	ECTOR OF FLIG	GHT OPERAT	IONS AND THE
		3.3	PUBLIC	CATION						
		3.3.1	SCHEDU	JLE						
			REV	ISIONS W	ILL BI	E MADE O	N AN L'AS REQUIRE	BASIS.		
		3 • 3 • 2		-						
			RE	VISIONS W	ILL B	E PRINTE	D AND DISTRIBUTED	ACCORDING TO	O APPENDI)	6.
				ISSION	REV	DATE	SECTION	GROUP	PAGE	
				LSEP 3	FNL		APPENDIX C -	t		<u>+</u>

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