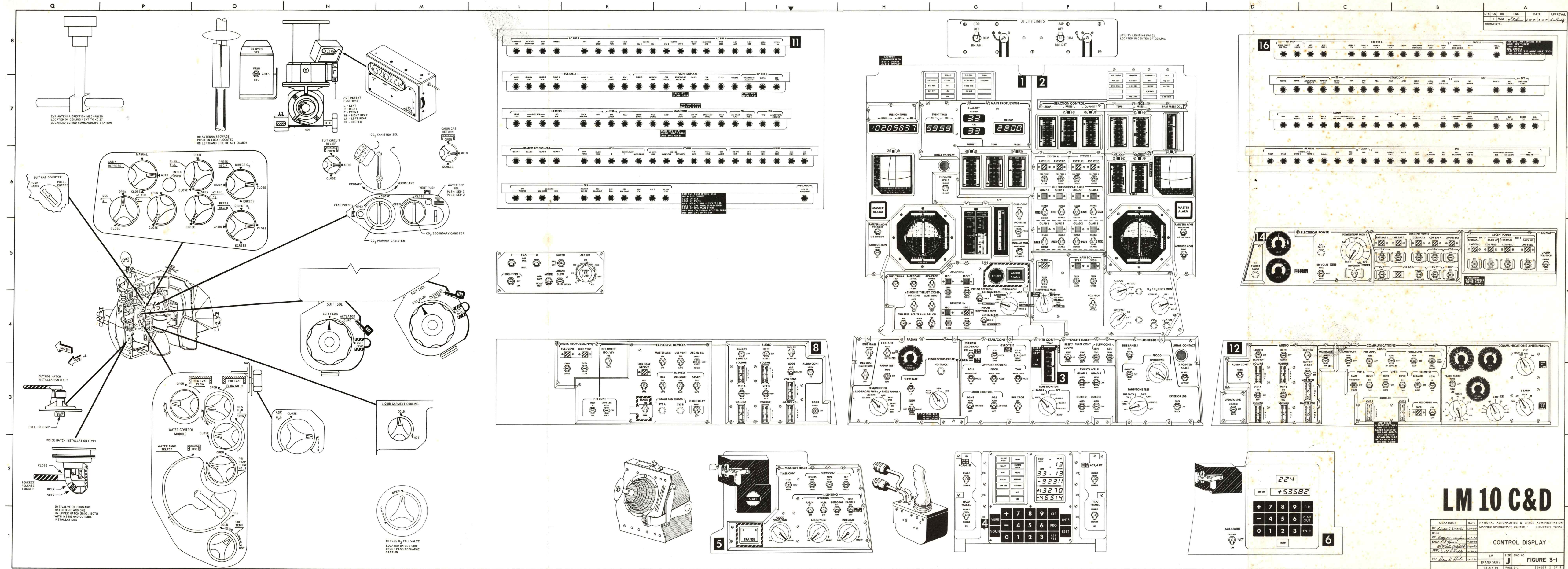
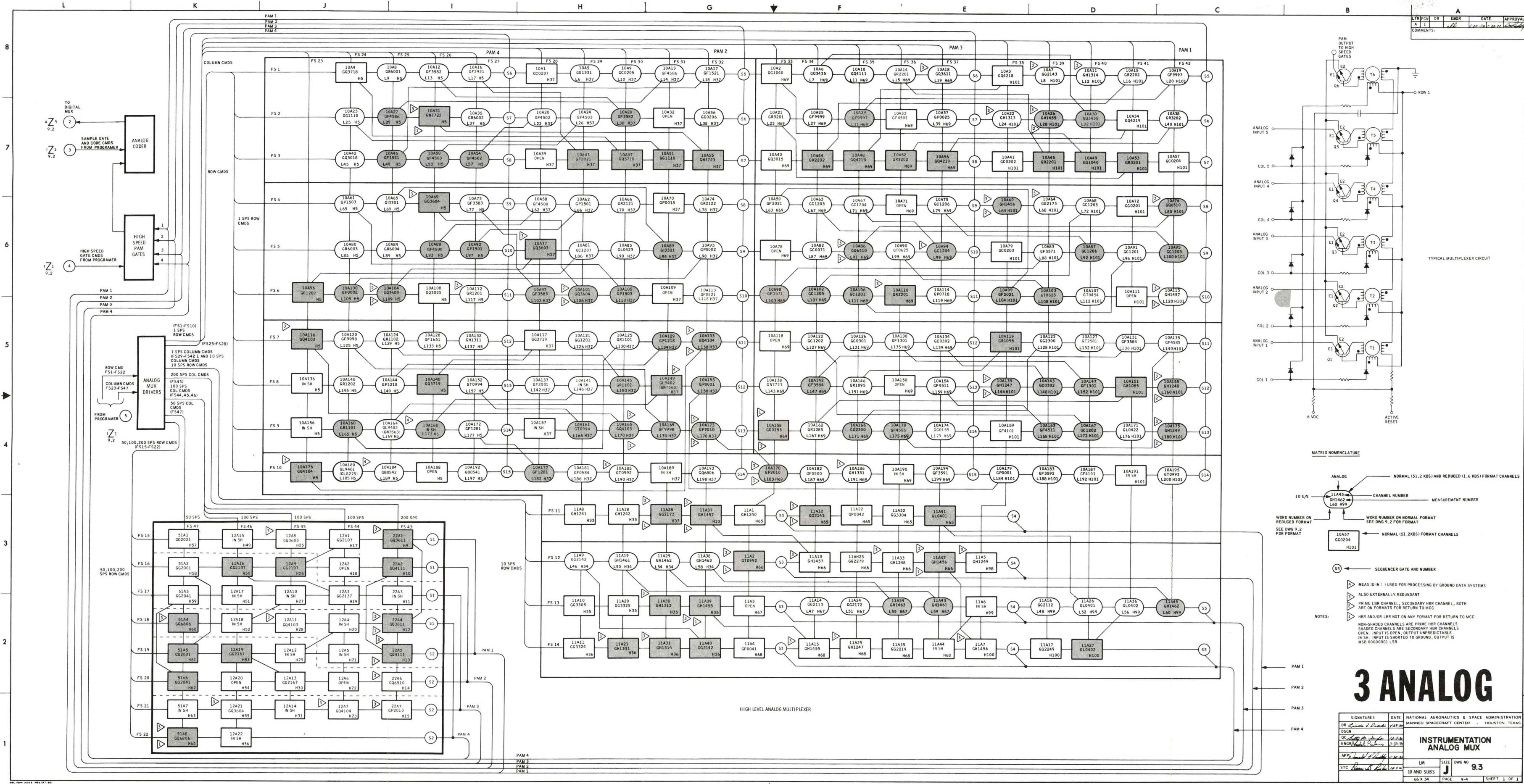




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2 DIGITAL



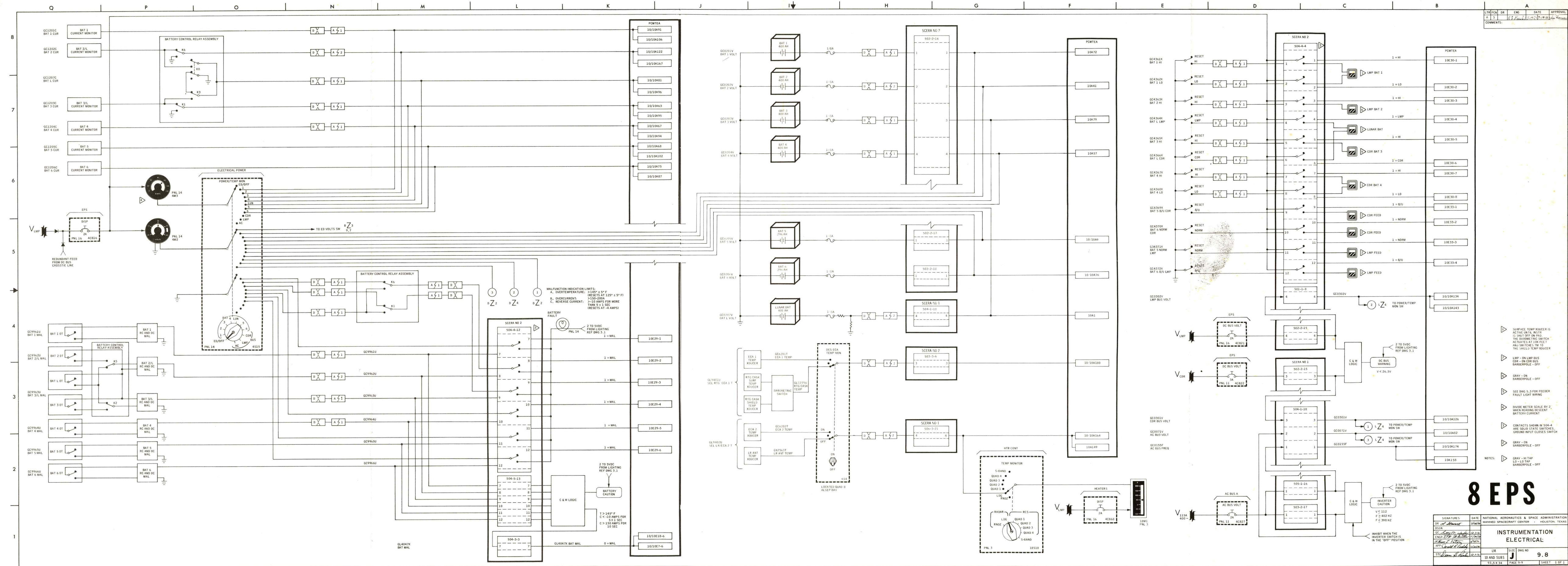


TABLE 9-III.- TELEMETRED AND DISPLAYED PARAMETERS

MEAS ID	MEASUREMENT DESCRIPTION	S/S AND LBR ^a	PAM AND SEQ/GT AND DIODE ^b	SCERA AND LOC	TM RANGE	TM ACC EU	1 PCM CNT ^c	C&W	ONBOARD RANGE	O/B ACC EU	REFERENCE	
											DWG/FIG	ZONE
GB0541T	MESA TEMP 1	1L	4-15	2-6	20 200 DEG F	3.9	.710				13-1	B-6
GB0542T	MESA TEMP 2	1L	4-15	2-6	20 200 DEG F	3.9	.710				13-1	B-6
GC0071V	AC BUS VOLTS	1L	3-10	1-18/1-17	0 125 VRMS	1.59	.494	C	63 126 VAC	2.9	5.4	C-3
GC0155F	AC BUS FREQ	1-1L	3-14	1-18/1-16	380 420 HZ	.68	.158	C			5.2	C-3
GC0201V	BAT 1 VOLTS	1	1-8	2-16	0 40 VDC	.45	.158		20 40 VDC	.9	5.2	S-5
GC0202V	BAT 2 VOLTS	1	1-7	2-16	0 40 VDC	.45	.158		20 40 VDC	.9	5.2	G-4
GC0203V	BAT 3 VOLTS	1	1-9	2-16	0 40 VDC	.45	.158		20 40 VDC	.9	5.2	G-4
GC0204V	BAT 4 VOLTS	1	1-7	2-16	0 40 VDC	.45	.158		20 40 VDC	.9	5.2	S-4
GC0205V	BAT 5 VOLTS	1L	2-5	2-17	0 40 VDC	.45	.158		20 40 VDC	.9	5.3	H-4
GC0206V	BAT 6 VOLTS	1L	2-6	2-18	0 40 VDC	.45	.158		20 40 VDC	.9	5.3	R-4
GC0207V	BAT L VOLTS	1	2-5	1-18	0 40 VDC	.51	.158		20 40 VDC	.9	5.2	G-4
GC0301V	CUR BUS V	1L	3-12	1-18/1-15	0 40 VDC	.51	.158	W	20 40 VDC	.9	5.3	G-3
GC0302V	LMP BUS V	1L-1L	3-12/1-12	2-8/2-15	0 40 VDC	.60	.158	W	20 40 VDC	1.0	5.3	G-3
GC1201C	BAT 1 CUR	1L-1L	1-9/3-11		0 60 AMPS	.95	.237		0 60 AMP	1.5	5.2	S-5
GC1202C	BAT 2 CUR	1L-1L	3-12/1-13		0 60 AMPS	.95	.237		0 60 AMP	1.5	5.2	F-4
GC1203C	BAT 3 CUR	1L-1L	3-9/1-9		0 60 AMPS	.95	.237		0 60 AMP	1.5	5.2	F-4
GC1204C	BAT 4 CUR	1L-1L	3-9/3-10		0 60 AMPS	.95	.237		0 60 AMP	1.5	5.2	S-5
GC1205C	BAT 5 CUR	1L-1L	1-8/3-11		0 120 AMPS	1.9	.474		0 120 AMP	3.0	5.3	N-5
GC1206C	BAT 6 CUR	1L-1L	3-9/1-9		0 120 AMPS	1.9	.474		0 120 AMP	3.0	5.3	R-4
GC1207C	BAT L CR	1-1L	2-9/4-11		0 60 AMPS	.95	.237		0 60 AMP	1.5	5.2	F-4
GC4361X	BAT 1 HI	1	10E30-2A1	2-4			HI		FLAG		5.2	S-5
GC4362X	BAT 1 LO	1	10E30-2A1	2-4			LO		FLAG		5.2	S-5
GC4363X	BAT 2 HI	1	10E30-2A1	2-4			HI		FLAG		5.2	F-7
GC4364X	BAT L LMP	1	10E30-2A1	2-4			LMP		FLAG		5.2	G-6
GC4365X	BAT 3 HI	1	10E30-2A1	2-4			HI		FLAG		5.2	F-5
GC4366X	BAT L CDR	1	10E30-2A1	2-4			CDR		FLAG		5.2	F-6
GC4367X	BAT 4 HI	1	10E30-2A1	2-4			HI		FLAG		5.2	S-5
GC4368X	BAT 4 LO	1	10E30-2A1	2-4			LO		FLAG		5.2	S-5
GC4369X	BAT 5 CDR B	1	10E33-3A1	2-4			B/U		FLAG		5.3	P-4
GC4370X	BAT 6 CDR H	1	10E33-3A1	2-4			NORM		FLAG		5.3	Q-4
GC4371X	BAT 5 LMP N	1	10E33-3A1	2-4			NORM		FLAG		5.3	Q-4
GC4372X	BAT 6 LMP B	1	10E33-3A1	2-4			B/U		FLAG		5.3	Q-4
GC4391X	DEADFACE OPEN								FLAG			
GC4411X	BUS FAULT								COMP CAUT			
GC9961U	BAT 1 MAL	1	10E29-2A1	2-12/2-13			MAL	C			5.2	S-5
GC9962U	BAT 2/L MAL	1	10E29-2A1	2-12/2-13			MAL	C			5.2	F-5
GC9963U	BAT 3/L MAL	1	10E29-2A1	2-12/2-13			MAL	C			5.2	F-4
GC9964U	BAT 4 MAL	1	10E29-2A1	2-12/2-13			MAL	C			5.2	S-5
GC9965U	BAT 5 MAL	1	10E29-2A1	2-12/2-13			MAL	C			5.3	G-4
GC9966U	BAT 6 MAL	1	10E29-2A1	2-12/2-13			MAL	C			5.3	G-5

^aS/S AND LBR (SAMPLES/SECOND AND LOW BIT RATE)

Example: 1L, ONE S/S AND ON LBR

1-1L, REDUNDANT ONE S/S WITH ONE LOCATION ON LBR

1L-1L, REDUNDANT ONE S/S WITH BOTH LOCATIONS ON LBR

^bPAM AND SEQ/GT AND DIODE (PAM AND SEQUENCE GATE FOR ANALOG PARAMETERS/GATE AND DIODE FOR BILEVEL PARAMETERS)^c1 PCM CNT (ENGINEERING WEIGHT OF ONE PCM COUNT)

LETTER	ENG	DATE	APPROVAL
A	Herschel Perkins	9-30-71 9-30-71	Donald K. Paddy

TABLE 9-III.- TELEMETRED AND DISPLAYED PARAMETERS - Continued

MEAS ID	MEASUREMENT DESCRIPTION	S/S AND LBR ^a	PAM AND SEQ/ GT AND DIODE ^b	SCERA AND LOC	TM RANGE	TM ACC EU	1 PCM CNT ^c	C&W	ONBOARD RANGE	O/B ACC EU	REFERENCE	
											DWG	ZONE
GF0500P	DES 2 H ₂ O P	1L	3-15		0 60 PSIA	1.18	.237		0 100 PCT	2.8	6.2	Q-9
GF0521T	DES 2 H ₂ O T	1L	2-10	2-21	20 200 DEG F	1.5	.710				6.2	S-9
GF0584P	DES 2 O ₂ P	1L	2-14		0 3000 PSIA	63.6	11.9		0 100 PCT	2.9	6.1	S-4
GF1083X	SUIT FAN 1 MAL	1L-1L	10E5-5A1	2-3			FAIL	C			6.1	F-4
GF1084X	SUIT FAN 2 MAL	1L-1L	10E5-5A1	2-3			FAIL	W			6.1	F-4
GF1087X	SEL FAN FAIL								COMP CAUT		6.1	F-3
GF1201X	CDR SUIT DISC	1L-1L	10E3-3A1	2-5			DISC				6.1	J-7
GF1202X	LMP SUIT DISC	1L-1L	10E3-3A1	2-5			DISC				6.1	J-4
GF1211X	SUIT RLF CLSD	1L-1L	10E5-5A1	2-5			CLSD				6.1	H-7
GF1212X	SUIT RLF OPEN	1L-1L	10E5-5A1	2-5			OPEN				6.1	H-7
GF1221X	SUIT DIV EGR	1L-1L	10E5-5A1	2-5			EGR				6.1	G-6
GF1231X	CABIN RET EGR	1L-1L	10E4-4A1	2-5			CLSD				6.1	E-7
GF1232X	CABIN RET OPEN	1L-1L	10E4-4A1	2-5			OPEN				6.1	E-7
GF1241X	SEC CO ₂ SEL	1L-1L	10E5-5A1	2-5			SEC				6.1	D-4
GF1281T	SUIT TEMP	1L-1L	4-14/2-14	1-21	20 120 DEG F	1.75	.395		40 100 DEG	1.6	6.1	M-7
GF1301P	SUIT PRESS	1L-1L	3-12/1-12	1-5	0 10 PPSIA	.26	.040	W	0 10 PSI	.33	6.1	G-8
GF1521P	CO ₂ PP	1L-1L	2-5/4-8	1-5	0 30 MMHg	3.00	.118	C			6.1	K-5
GF1522P	CO ₂ PP								0 30 MMHg		6.1	K-6
GF1651T	CABIN TEMP	1L	4-12	1-21	20 120 DEG F	2.77	.395		40 100 DEG	2.0	6.1	L-7
GF2021P	PRI GLY PMP ΔP	1L-1L	3-9/1-10		0 50 PSID	1.28	.198				6.2	J-8
GF2531T	W/B GLY IN T	1L	2-12	2-20	20 120 DEG F	2.77	.395				6.2	M-1
GF2581T	W/B GLY OUT T	1L	1-11	2-20	20 120 DEG F	2.77	.395				6.2	O-1
GF2681T	PRI GLY PUMP IN T								20 120 DEG		6.2	M-3
GF2921P	SEC GLY PRESS	1-1L	4-6/2-7		0 60 PSIA	1.12	.237		0 60 PSI	1.9	6.2	H-4
GF2935X	GLY PUMP FAIL			2-13			FAIL	C			6.2	L-7
GF2936X	GLY PUMP SW/O	1L-1L	10E4-4A1	2-12			FAIL		COMP CAUT		6.2	H-6
GF3071X	DMD REG A CLSD	1L-1L	10E4-4A1	2-5			CLSD				6.1	M-4
GF3073X	DMD REG B CLSD	1L-1L	10E4-4A1	2-5			CLSD				6.1	N-4
GF3571P	CABIN PRESS	1L-1L	1-9/3-11		0 10 PSIA	.26	.040		0 10 PSI	.32	6.1	F-8
GF3572X	REPR ELEC OPEN	1L-1L	10E3-3A1	2-3			OPEN	W			6.1	N-4
GF3582P	ASC 1 O ₂ P	1L-1L	4-6/2-6	1-7	0 1000 PSIA	19.6	3.95	C	0 100 PCT	2.8	6.1	Q-6
GF3583P	ASC 2 O ₂ P	1L-1L	4-9/2-10	1-7	0 1000 PSIA	19.6	3.95	C	0 100 PCT	2.8	6.1	R-4
GF3584P	DES 1 O ₂ P	1L-1L	1-11/3-13	2-8	0 3000 PSIA	63.6	11.9	C	0 100 PCT	2.9	6.1	R-4
GF3591P	U/H RLF PRESS	1L	3-15		0 25 PSIA	.47	.099				6.1	C-3
GF3592P	F/H RLF PRESS	1L	1-14		0 25 PSIA	.47	.099				6.1	D-2
GF4101P	PRI H ₂ O REG ΔP	1-1L	1-14/1-13		0 2 PSID	.06	.008				6.2	P-6
GF4500P	DES 1 H ₂ O P	1L-1L	2-8/4-10	1-7	0 60 PSIA	1.18	.237		0 100 PCT	2.8	6.2	Q-9
GF4501P	DES H ₂ O PRESS	1	3-7		0 25 PSIA		.099				6.2	R-7
GF4502P	ASC 1 H ₂ O P	1L-1L	2-6/4-8	1-8	0 60 PSIA	1.18	.237		0 100 PCT	2.8	6.2	P-9
GF4503P	ASC 2 H ₂ O P	1L-1L	2-6/4-8	1-8	0 60 PSIA	1.18	.237		0 100 PCT	2.8	6.2	Q-9
GF4511T	PRI W/B H ₂ O T	1L-1L	3-13/1-13	2-6	20 160 DEG F	3.32	.554				6.2	N-2
GF4585T	ASC 1 H ₂ O T	1L-1L	1-11/3-14	2-21	-200 200 DEG F	6.86	1.59				6.2	Q-8
GF4586T	ASC 2 H ₂ O T	1L-1L	2-5/4-7	2-21	-200 200 DEG F	6.86	1.59				6.2	Q-8
GF9986U	SEL GLY LO LVL	1L-1L	10E3-3A1	2-3				C			6.2	M-5
GF9993U	CO ₂ COMP CAUT								COMP CAUT		6.3	L-2

TABLE 9-III.- TELEMETRED AND DISPLAYED PARAMETERS - Continued

MEAS ID	MEASUREMENT DESCRIPTION	S/S AND LBR ^a	PAM AND SEQ/ GT AND DIODE ^b	SCERA AND LOC	TM RANGE	TM ACC EU	1 PCM CNT ^c	C&W	ONBOARD RANGE	O/B ACC EU	REFERENCE DWG	ZONE
GF9997U	SEL GLY PMP P	1L-1L	1-5/3-7		0 60 PSIA	1.12	.237		0 60 PSI	1.9	6.2	K-5
GF9998U	SEL GLYCOL T	1L-1L	4-12/2-13	1-10	20 120 DEG F	2.77	.395		20 80 DEG	3.2	6.2	L-5
GF9999U	SEL H ₂ O SEP RT	1L	3-7	1-5	0 3600 RPM	77.4	14.2	C	COMP CAUT		6.1	K-4
GG0001X	PGNS DOWNLINK	50									9.11	K-8
GG0117H	ALT POS								0 60500 FT			
GG0118L	ALT RATE VEL								-700 700 F/S			
GG0119L	FORWARD VEL								-200 200 F/S			
GG0120L	LATERAL VEL								-200 200 F/S			
GG1040V	PLS TORQ REF	1-1	3-6/1-7	PB8-III	85 135 VDC		.198				10.7	D-4
GG1110V	2.5VDC TM BIAS	1-1L	4-7/2-7	PU-I	0 5 VDC		.020				10.12	F-4
GG1201V	28VAC 800HZ	1L	2-11	PU-I	0 31 VRMS		.125				10.7	E-8
GG1331V	20VAC 3.2KHZ	1L	2-5	PU-II	0 31 VRMS		.125				10.7	E-9
GG1513X	IMU STBY	1L-1L	10E6-1A1	PD-I			STBY				10.7	K-6
GG1523X	LGC OPERATE	1L-1L	10E6-1A1	PD-I			OPR				10.7	S-8
GG2001V	X PIPA OUT INØ	50-50	2-1/1-2	PB3.2-II	-2.5/2.5 VRMS		.020				10.11.1	O-9
GG2021V	Y PIPA OUT INØ	50	1-1	PB3.2-II	-2.5/2.5 VRMS		.020				10.11.1	M-7
GG2041V	Z PIPA OUT INØ	50-50	3-1/2-2	PB3.2-II	-2.5/2.5 VRMS		.020				10.11.1	N-7
GG2107V	1G SVO ERR INØ	100-100	1-1/2-1	PB3.2-II	-3 3 VRMS		.024				10.11.1	J-1
GG2112V	1G RSV OUT SIN	10L	3-5	PB8-IV	-20 20 VRMS		.158				10.11.1	D-7
GG2113V	1G RSV OUT COS	10L	3-4	PB8-IV	-20 20 VRMS		.158				10.11.1	D-7
GG2122V	1G RSV OUT SIN								-90 90 DEG PITCH			
GG2123V	1G RSV OUT COS								-90 90 DEG PITCH			
GG2137V	MG SVO ERR INØ	100-100	3-1/2-1	PB3.2-II	-3 3 VRMS		.024				10.11.1	J-1
GG2142V	MG RSV OUT SIN	10L-10	2-3/4-3	PB8-IV	-20 20 VRMS		.158				10.11.1	D-6
GG2143V	MG RSV OUT COS	10-1L	1-5/1-4	PB8-IV	-20 20 VRMS		.158				10.11.1	D-6
GG2152V	MG RSV OUT SIN								-180 180 DEG ROLL			
GG2153V	MG RSV OUT COS								-180 180 DEG ROLL			
GG2167V	OG SVO ERR INØ	100-100	2-2/1-2	PB3.2-II	-3 3 VRMS		.024				10.11.1	I-1
GG2172V	OG RSV OUT SIN	10L	3-4	PB8-IV	-20 20 VRMS		.158				10.11.1	D-4
GG2173V	OG RSV OUT COS	10-1L	1-8/1-3	PB8-IV	-20 20 VRMS		.158				10.11.1	D-4
GG2182V	OG RSV OUT SIN								0 360 DDEG YAW			
GG2183V	OG RSV OUT COS								0 360 DEG YAW			
GG2217V	PITCH ATT ERR											
GG2219V	PITCH DAC OUT	10	4-4	PB8-I	-5 5 VRMS		.040				10.11.2	F-5
GG2247V	ROLL ATT ERR											
GG2249V	YAW DAC OUT	10	4-5	PB8-I	-5 5 VRMS		.040				10.11.2	F-5
GG2277V	YAW ATT ERR											
GG2279V	ROLL DAC OUT	10	2-4	PB8-I	-5 5 VRMS		.040				10.11.2	G-5
GG2300T	PIPA TEMP	1L-1L	1-11/3-14	PU-I	120 140 DEG F		.080				10.11.1	I-7
GG3304V	RR SHFT SIN	10	1-4	PB8-III	-20 20 VRMS		.158				10.14	B-3
GG3305V	RR SHFT COS	10	3-3	PB8-III	-20 20 VRMS		.158				10.14	B-3
GG3324V	RR TRUN SIN	10	4-3	PB8-III	-20 20 VRMS		.158				10.14	C-3
GG3325V	RR TRUN COS	10	3-3	PB8-III	-20 20 VRMS		.158				10.1	C-3

TABLE 9-III.- TELEMETRED AND DISPLAYED PARAMETERS - Continued

MEAS ID	MEASUREMENT DESCRIPTION	S/S AND LBR ^a	PAM AND SEQ/ GT AND DIODE ^b	SCERA AND LOC	TM RANGE	TM ACC EU	1 PCM CNT ^c	C&W	ONBOARD RANGE	O/B ACC EU	REFERENCE	
											DWG	ZONE
GG9001X	LGC WARNING	1L-1L	10E2-2A1	2-3			WARN	W			10.13.2	B-6
GG9002X	ISS WARNING	1L-1L	10E2-2A1	2-3			WARN	W			10.13.2	C-8
GH1204X	OUT OF DETENT	1	10E31-3A1	2-14			OUT				10.20	R-7
GH1214X	AUTO ON	1L	10E23-1A1	2-14			ON				10.21	S-9
GH1217X	AUTO OFF	1	10E31-3A1	2-14			OFF				10.21	S-7
GH1230X	APS ARM	1	10E41-1A2	1-3			ARM				10.24	K-5
GH1240V	X TRANS CMD	10	1-3	2-17	-10 10 VDC		.080				10.20	K-4
GH1241V	Y TRANS CMD	10	1-3	2-17	-10 10 VDC		.080				10.20	K-5
GH1242V	Z TRANS CMD	10	1-3	2-17	-10 10 VDC		.080				10.20	K-6
GH1247V	YAW ERR CMD	10-1L	4-4/1-12	2-18	-13 13 VDC		.103				10.20	K-7
GH1248V	PITCH ERR CMD	10-1L	2-4/1-12	2-18	-13 13 VDC		.103				10.20	M-7
GH1249V	ROLL ERR CMD	10-1L	2-4/1-13	2-18	-13 13 VDC		.103				10.20	M-3
GH1260X	APS ON	50L-50L	51E1-1A2	2-2			ON				10.24	E-6
GH1283X	ABORT STG CMD	50L-50L	51E1-1A2	2-14			STG				10.24	S-4
GH1286X	ENG FIRE OVRD	1	10E31-3A1	2-14			ON				10.21	N-3
GH1301X	DPS ON	1L	10E23-1A1	2-3			ON				10.21	E-6
GH1311V	MAN THRUST CMD	1L	4-12	1-15	0 92.5 PCT		.471		0 100 PCT		10.23	I-4
GH1313V	PITCH GDA POS	10-1L	1-6/3-3	2-9	-6 6 DEG		.047				10.22	I-3
GH1314V	ROLL GDA POS	10-1L	4-3/1-5	2-9	-6 6 DEG		.047				10.22	I-5
GH1323X	P TRIM FAIL	1L	10E23-1A1	2-3			FAIL	C			10.22	B-2
GH1330X	R TRIM FAIL	1L	10E23-1A1	2-3			FAIL	C			10.22	B-6
GH1331V	AUTO THRUST CMD	10-1L	4-3/3-5	1-15	0 82.5 PCT		.387		0 100 PCT		10.23	I-4
GH1348X	DPS ARM	1	10E41-1A2	1-3			ARM				10.21	L-6
GH1401V	RGA A-B 800 HZ			2-7				W				
GH1402V	RGA B-C 800 HZ			2-7				W				
GH1403V	RGA C-A 800 HZ			2-7				W				
GH1405V	RGA XCIT 800 HZ			1-17				W				
GH1406V	+15 VDC			2-19				W				
GH1407V	-15 VDC			2-19				W				
GH1408V	+4.3 VDC			2-8				W				
GH1418V	JD B4U OUTPUT	100-100	12E1-4A2	1-4			ON	W			10.20	F-8
GH1419V	JD A4D OUTPUT	100-100	12E1-4A2	1-4			ON	W			10.20	F-8
GH1420	JD B4F OUTPUT	100	12E4-3A2	1-4			ON	W			10.20	F-8
GH1421V	JD A4R OUTPUT	100	12E4-3A2	1-4			ON	W			10.20	F-8
GH1422V	JD A3U OUTPUT	100-100	12E1-4A2	1-4			ON	W			10.20	F-8
GH1423V	JD B3D OUTPUT	100-100	12E1-4A2	1-4			ON	W			10.20	F-8
GH1424V	JD B3A OUTPUT	100	12E4-3A2	1-4			ON	W			10.20	F-8
GH1425V	JD A3R OUTPUT	100	12E4-3A2	1-4			ON	W			10.20	F-8
GH1426V	JD B2U OUTPUT	100-100	12E1-4A2	1-2			ON	W			10.20	F-8
GH1427V	JD A2D OUTPUT	100-100	12E1-4A2	1-2			ON	W			10.20	F-8
GH1428V	JD A2A OUTPUT	100	12E4-3A2	1-2			ON	W			10.20	F-8
GH1429V	JD B2L OUTPUT	100	12E4-3A2	1-2			ON	W			10.20	F-8
GH1430V	JD A1U OUTPUT	100-100	12E1-4A2	1-2			ON	W			10.20	F-8

TABLE 9-III.- TELEMETRED AND DISPLAYED PARAMETERS - Continued

MEAS ID	MEASUREMENT DESCRIPTION	S/S AND LBR ^a	PAM AND SEQ/ GT AND DIODE ^b	SCERA AND LOC	TM RANGE	TM ACC EU	1 PCM CNT ^c	C&W	ONBOARD RANGE	O/B ACC EU	REFERENCE	
											DWG	ZONE
GH1431V	JD BID OUTPUT	100-100	12E1-4A2	1-2			ON	W			10.20	F-8
GH1432V	JD A1F OUTPUT	100	12E4-3A2	1-2			ON	W			10.20	F-8
GH1433V	JD B1L OUTPUT	100	12E4-3A2	1-2			ON	W			10.20	F-8
GH1455V	YAW ATT ERR	10-10-1L	4-4/3-3/1-6	2-9	-3.5 3.5 VRMS		.028				10.20	S-6
GH1456V	PITCH ATT ERR	10-10-1L	4-4/2-4/1-8	2-9	-3.5 3.5 VRMS		.028				10.20	S-4
GH1457V	ROLL ATT ERR	10-10-1L	2-4/1-10/1-3	2-10	-3.5 3.5 VRMS		.028				10.20	S-2
GH1461V	RGA YAW RATE	10L-10L	2-3/3-4	2-10	-25 25 DEG/SEC		.198				10.20	T-5
GH1462V	RGA PITCH RATE	10L-10L	2-3/3-5	2-10	-25 25 DEG/SEC		.198				10.20	T-4
GH1463V	RGA ROLL RATE	10L-10L	2-3/3-4	2-10	-25 25 DEG/SEC		.198				10.20	T-2
GH1488V	PRIME -4.7 VDC			2-15				C				
GH1489V	B/U -4.7 VDC			2-15				C				
GH1493V	+6 VDC SUPPLY			2-19				W				
GH1494V	-6 VDC SUPPLY			2-19				W				
GH1497V	YAW RGA SIG								-25 25 DEG/SEC		10.20	S-5
GH1498V	PITCH RGA SIG								-25 25 DEG/SEC		10.20	S-3
GH1499V	ROLL RGA SIG								-25 25 DEG/SEC		10.20	S-1
GH1603X	MIN DEADBAND	1	10E41-1A2	1-3			WIDE				10.20	Q-1
GH1621X	AGS SELECT	1L	10E23-1A1	2-3			AGS				10.20	T-1
GH1628X	ROLL PLS/DIR	1	10E27-2A1	2-13			ON				10.20	O-3
GH1629X	PITCH PLS/DIR	1	10E27-2A1	2-13			ON				10.20	O-5
GH1630X	YAW PLS/DIR	1	10E27-2A1	2-13			ON				10.20	L-8
GH1641X	AGS AUTO	1	10E31-3A1	2-12			ON				10.20	S-9
GH1642X	AGS ATT HOLD	1	10E31-3A1	2-12			ON				10.20	R-9
GH1643X	PGNS AUTO	1	10E31-3A1	2-14			ON				10.20	J-8
GH1644X	PGNS ATT HOLD	1	10E31-3A1	2-14			ON				10.20	J-8
GH1893X	+X TRANS OVRD	1	10E41-1A2	1-3			OFF				10.20	Q-9
GH1896X	UNBAL COUPLES	1	10E31-3A1	2-14			ON				10.20	F-9
GI0001X	AGS DOWNLINK	50									10.19	D-5
GI3151V	ALPHA SIN								-180 180 DEG		10.19	C-2
GI3152V	ALPHA COS								-180 180 DEG		10.19	C-2
GI3153V	BETA SIN								0 360 DEG		10.19	C-2
GI3154V	BETA COS								0 360 DEG		10.19	C-2
GI3155V	GAMMA SIN								-90 90 DEG		10.19	C-2
GI3156V	GAMMA COS								-90 90 DEG		10.19	C-2
GI3166V	YAW ATT ERR								-15 15 DEG		10.18	F-5
GI3167V	PITCH ATT ERR								-15 15 DEG		10.18	F-5
GI3168V	ROLL ATT ERR								-15 15 DEG		10.18	F-5
GI3203H	ALT POS								0 50,000 FT		10.18	F-2
GI3204L	ALT VEL RATE								-700 700 FFT/SEC		10.18	F-2
GI3205L	LAT VEL								-200 200 FT/SEC		10.18	G-4

TABLE 9-III.- TELEMETRED AND DISPLAYED PARAMETERS - Continued

MEAS ID	MEASUREMENT DESCRIPTION	S/S AND LBR ^a	PAM AND SEQ/ GT AND DIODE ^b	SCERA AND LOC	TM RANGE	TM ACC EU	1 PCM CNT ^c	C&W	ONBOARD RANGE	O/B ACC EU	REFERENCE	
											DWG	ZONE
GI3214V	ASA +28 VDC			2-15				W			10.17	J-6
GI3215V	ASA +12 VDC			1-15				W			10.17	J-6
GI3232X	TEST MODE FAIL			1-4				W			10.17	J-6
GI3233F	ASA 400 HZ			1-16				W			10.17	J-6
GI3301T	ASA TEMP	1L-1L	4-9/2-9	1-10	20 200 DEG F						10.17	J-6
GI3305X	AGS WARMUP	1	10E27-2A1	2-2			WMUP				10.17	O-6
GI3306X	AGS STANDBY	1	10E27-2A1	2-13			STBY				10.17	O-7
GL0300X	FRAME SYNC & ID	50L									9.1	E-4
GL0302X	FORMAT ID	1L									9.1	E-4
GL0400X	PCM OSC FAIL 1	1L-1L	10E7-2A1				FAIL				9.1	H-6
GL0401V	CAL 85 PCT	10L-10	3-5/1-4		0 5 VDC		.020				9.1	H-2
GL0402V	CAL 15 PCT	10L-10	3-5/4-5		0 5 VDC		.020				9.1	H-2
GL0422V	PCM OSC FAIL 2	1L	1-13		0 5 VDC		.020				9.1	H-6
GL0423V	PCM OSC FAIL 3	1L	2-9		0 5 VDC		.020				9.1	H-6
GL0501W	MET	10L			0 40 DAYS						9.1	E-6
GL4022X	ASC PRESS WARN							W				
GL4023X	DES REG WARN							W				
GL4024X	DES QTY WARN							W				
GL4026X	CES AC PWR FAIL	1L-1L	10E7-2A1	2-2			GOOD	W			10.17	G-4
GL4027X	CES DC PWR FAIL	1L-1L	10E7-2A1	2-2			GOOD	W			10.17	G-4
GL4028X	AGS PWR FAIL	1L-1L	10E7-2A1	2-2			GOOD	W			10.17	O-7
GL4029X	LGC WARNING							W				
GL4030X	ISS WARNING							W				
GL4031X	RCS TCA WARN							W				
GL4032X	RCS REG A WARN							W				
GL4033X	RCS REG B WARN							W				
GL4034X	DC BUS WARN							W				
GL4036X	CABIN WARN							W				
GL4037X	SUIT/FAN WARN							W				
GL4041X	ASC REG CAUT							C				
GL4042X	ASC QTY CAUT							C				
GL4043X	ENG GMBL CAUT							C				
GL4046X	INVERTER CAUT							C				
GL4047X	BAT MAL	1L-1L	10E7-2A1	2-3			GOOD	C			9.6	I-4
GL4048X	RNDZ RDR CAUT							C				
GL4050X	PRE AMPS CAUT							C				
GL4051X	ED RELAYS CAUT							C				
GL4052X	RCS CAUT							C				
GL4053X	HEATER CAUT							C				
GL4054X	C/W PWR FAIL	1L-1L	10E7-2A1	2-12			GOOD	C			9.4	E-4
GL4056X	ECS CAUT							C				
GL4057X	O ₂ QTY CAUT							C				
GL4058X	GLYCOL CAUT							C				

TABLE 9-III.- TELEMETRED AND DISPLAYED PARAMETERS - Continued

MEAS ID	MEASUREMENT DESCRIPTION	S/S AND LBR ^a	PAM AND SEQ/ GT AND DIODE ^b	SCERA AND LOC	TM RANGE	TM ACC EU	1 PCM CNT ^c	C&W	ONBOARD RANGE	O/B ACC EU	REFERENCE	
											DWG	ZONE
GL4059X	WATER QTY CAUT							C				
GL4060X	S-BD RCVR CAUT							C				
GL4069X	MASTER ALARM	1L-1L	10E7-2A1	2-2			OFF				9.4	C-8
GL4070X	RECORDER ON								FLAG			
GL8275U	USED FOR PROCESSING BY GROUND DATA SYSTEMS. REF. GL9401U FOR VEHICLE DATA											
GL9001U	BATTERY FAULT								COMP CAUT			
GL9011W	MISSION TIME								0 1000 HRS			
GL9012W	EVENT TIME								0 60 MIN			
GL9013A	THRUST/WEIGHT								FLAG			
GL9401U	SEL RTG/ECA 1T	1L	4-15	2-6	-200 500 DEG F		2.77					
GL9402U	SEL LR/ECA 2T	1-1L	4-14/2-12	1-21	-200 200 DEG F		1.58		-100 200 DEG F			
GL9501U	TCA PR 4A FAIL								FLAG			
GL9502U	TCA PR 4B FAIL								FLAG			
GL9503U	TCA PR 3A FAIL								FLAG			
GL9504U	TCA PR 3B FAIL								FLAG			
GL9505U	TCA PR 2A FAIL								FLAG			
GL9506U	TCA PR 2B FAIL								FLAG			
GL9507U	TCA PR 1A FAIL								FLAG			
GL9508U	TCA PR 1B FAIL								FLAG			
GM2435U	LUNAR CONTACT								LUNAR CONT			
GM5000U	LAND GEAR DPLY	1	10E40-1A2	1-13			DPLY		FLAG		4.1	D-6
GN7521X	LR RNG BAD	1L-1L	10E1-1A1	2-2			BAD				10.16.2	C-6
GN7523L	LR VXA								-700 700 FT/SEC			
GN7524L	LR VYA								-200 200 FT/SEC			
GN7525L	LR VZA								-200 200 FT/SEC			
GN7527H	LR RANGE								0 60500 FT			
GN7545E	VEL XMTR PWR								0 500 MW			
GN7546E	ALT XMTR PWR								0 500 MW			
GN7557X	LR VEL BAD	1L-1L	10E1-1A1	2-2			BAD				10.16.1	F-3
GN7563T	USED FOR PROCESSING BY GROUND DATA SYSTEMS. REF. GL9402U FOR VEHICLE DATA											
GN7609H	RR SHFT ANGLE								-70 155 DEG			
GN7610R	RR SHFT RATE								-10 10 DEG/SEC			
GN7611H	RR TRUN ANGLE								-70 70 DEG			
GN7612R	RR TRUN RATE								-10 10 DEG/SEC			
GN7613H	RR RANGE								0 400 N.MI			
GN7614L	RR RANGE RATE								-700 700 FT/SEC			
GN7621X	RR NO TRACK	1L-1L	10E1-1A1	2-2			NO TRACK	C	COMP CAUT		10.14	K-2
GN7642E	RR PWR OUT								0 500 MW			
GN7644V	ATM TRUN OUT								0 5 VDC			
GN7646V	ATM SHAFT OUT								0 5 VDC			
GN7648V	ATM AGC								0 5 VDC			
GN7723T	RR ANT TEMP	1-1-1L	2-7/3-13/4-7	1-21	-200 200 DEG F		1.58	C	-100 200 DEG		10.14	T-3
GP0001P	APS He 1 PRESS	1L-1L	1-14/2-12	1-8	0 4000 PSIA		15.8	W	0 4000 PSI		11.2	P-2
GP0002P	APS He 2 PRESS	1L-1L	2-9/4-11	1-19	0 4000 PSIA		15.8	W	0 4000 PSI		11.2	O-6
GP0018P	APS He REG P	1	2-8		0 300 PSIA		1.19				11.2	K-7

LETTER	ENG	DATE	APPROVAL
A, PCN-1	all	1-24-72 1-24-72	Dr. J. J. J.

TABLE 9-III.- TELEMETRED AND DISPLAYED PARAMETERS - Continued

MEAS ID	MEASUREMENT DESCRIPTION	S/S AND LBR ^a	PAM AND SEQ/ GT AND DIODE ^b	SCERA AND LOC	TM RANGE	TM ACC EU	1 PCM CNT ^c	C&W	ONBOARD RANGE	O/B ACC EU	REFERENCE	
											DWG	ZONE
GP0025P	APS He REG P	1L	3-7	1-8	0 300 PSIA		1.19	C			11.2	K-2
GP0041P	APS He 1R P	10	4-3		0 4000 PSIA		15.8		0 4000 PSI		11.2	O-3
GP0042P	APS He 2R P	10	1-4		0 4000 PSIA		15.8		0 4000 PSI		11.2	O-6
GP0318X	APS He 1 CLSD	1	10E43-2A2	1-12			CLSD		FLAG		11.2	M-3
GP0320X	APS He 2 CLSD	1	10E43-2A2	1-12			CLSD		FLAG		11.2	M-6
GP0501P	FU ULLAGE P								0 300 PSI		11.2	I-7
GP0718T	APS FUEL TEMP	1L	3-11	1-9	20 120 DEG F		.395		40 100 DEG		11.2	I-6
GP0908X	APS FUEL LO	1L	10E24-1A1	2-2			LO				11.2	H-6
GP1001P	OX ULLAGE P								0 300 PSI		11.2	I-2
GP1218T	APS OX TEMP	1L-1L	4-13/2-11	1-9	20 120 DEG F		.395		40 100 DEG		11.2	I-2
GP1408X	APS OX LO	1L	10E24-1A1	2-2			LO				11.2	H-2
GP1501P	APS FU PRESS	1L-1L	2-8/4-10	1-19	0 250 PSIA		.990				11.2	G-7
GP1503P	APS OX PRESS	1L-1L	4-9/2-10	1-19	0 250 PSIA		.990				11.2	G-2
GP2010P	APS TCP	200-1L-1L	2-2/3-13/3-15		0 150 PSIA		.592				11.2	B-5
GP2997U	APS VLV A ΔPOS	1	10E32-3A1	2-14			ΔPOS				11.2	B-3
GP2998U	APS VLV B ΔPOS	1	10E32-3A1	2-14			ΔPOS				11.2	B-3
GQ3015P	DPS STRT TNK P	1	3-8		0 1750 PSIA		6.92		0 1750 PSI		11.1	T-7
GQ3018P	DPS REG P	1L	4-8	1-19	0 300 PSIA		1.19	W			11.1	Q-3
GQ3025P	DPS He REG P	1	4-11		0 300 PSIA		1.19				11.1	Q-6
GQ3309X	DES He REG 1								FLAG			
GQ3310X	DES He REG 2								FLAG			
GQ3435P	DPS He PRESS	1L-1L	3-6/1-6		0 2000 PSIA		7.90				11.1	H-7
GQ3436P	DPS He PRESS								0 1750 PSI		11.1	H-7
GQ3500X	FU VENT OPEN								FLAG		11.1	K-6
GQ3501P	DPS FU ULL P											
GQ3603Q	DPS FU 1 QTY	100-1-1L	1-1/4-11/2-9		0 95 PCT		.375				11.1	L-6
GQ3604Q	DPS FU 2 QTY	100-1-1L	3-2/2-10/4-9		0 95 PCT		.375				11.	L-6
GQ3605Q	DPS FU QTY SEL								0 95 PCT		11.1	L-5
GQ3611P	DPS FU PRESS	200-200-1L	3-6/1-1/4-1		0 300 PSIA		1.19				11.1	G-2
GQ3718T	DPS 1 FU T	1-1	4-6/2-7	1-9	20 120 DEG F		.395		40 100 DEG		11.1	J-3
GQ3719T	DPS 2 FU T	1-1	2-11/4-13	1-9	20 120 DEG F		.395		40 100 DEG		11.1	J-1
GQ4000X	DPS OX VENT								FLAG			
GQ4001P	DPS OX ULL P								0 300 PSI		11.1	K-3
GQ4103Q	DPS OX 1 QTY	100-1-1L	4-1/2-13/4-12		0 95 PCT		.375				11.1	K6
GQ4104Q	DPS OX 2 QTY	100-1-1L	3-2/2-11/4-15		0 95 PCT		.375				11.1	K-6
GQ4105Q	DPS OX QTY SEL								0 95 PCT		11.1	L-5
GQ4111P	DPS OX PRESS	200-200-1L	3-6/2-1/1-2		0 300 PSI		1.19				11.1	G-2
GQ4218T	DPS 1 OX T	1-1	1-5/3-8	1-10	20 120 DEG F		.395		40 100 DEG		11.1	J-3
GQ4219T	DPS 2 OX T	1-1	1-6/3-8	1-10	20 120 DEG F		.395		40 100 DEG		11.1	J-1
GQ4455X	DPS PROP LO	1	10E32-3A1	2-12			LOW	W			11.1	L-5
GQ6510P	DPS TCP	200-1L-1L	2-2/1-8/3-10		0 200 PSIA		.790		0 100 PCT		11.1	C-3

TABLE 9-III.- TELEMETRED AND DISPLAYED PARAMETERS - Continued

MEAS ID	MEASUREMENT DESCRIPTION	S/S AND LBR ^a	PAM AND SEQ/ GT AND DIODE ^b	SCERA AND LOC	TM RANGE	TM ACC EU	1 PCM CNT ^c	C&W	ONBOARD RANGE	O/B ACC EU	REFERENCE	
											DWG	ZONE
GQ6806H	DPS VAR ACT	50-50-1L	2-14/4-1/4-2		0 100 PCT		.395				11.1	E-3
GR1085Q	RCS PROP A QTY	1-1L	3-14/1-12		0 108 PCT		.425		0 100 PCT		12.1	H-9
GR1095Q	RCS PROP B QTY	1-1L	3-13/1-11		0 108 PCT		.425		0 100 PCT		12.1	H-9
GR1101P	RCS A He PRESS	1L-1L	2-11/4-14	1-6	0 3500 PSIA		13.8	C	0 3500 PSI		12.1	J-8
GR1102P	RCS B He PRESS	1L-1L	4-12/2-12	1-6	0 3500 PSIA		13.8	C	0 3500 PSI		12.1	G-8
GR1201P	RCS A REG PRESS	1-1L	4-11/3-11	1-6	0 350 PSIA		1.38	W	0 350 PSI		12.1	I-6
GR1202P	RCS B REG PRESS	1L	4-13	1-6	0 350 PSIA		1.38	W	0 350 PSI		12.1	G-6
GR2121T	RCS A FU TEMP	1L	2-8	2-20	20 120 DEG F		.395		20 120 DEG		12.1	J-5
GF2122T	RCS B FU TEMP	1L	2-8	2-20	20 120 DEG F		.395		20 120 DEG		12.1	G-5
GR2201P	A FU MFLD PRESS	1-1L	3-6/1-7		0 350 PSIA		1.38		0 350 PSI		12.1	I-3
GR2202P	B FU MFLD PRESS	1-1L	1-5/3-8		0 350 PSIA		1.38		0 350 PSI		12.1	G-4
GR3201P	A OX MFLD PRESS	1-1L	3-7/1-7		0 350 PSIA		1.38		0 350 PSI		12.1	I-4
GR3202P	B OX MFLD PRESS	1-1L	1-6/3-8		0 350 PSIA		1.38		0 350 PSI		12.1	H-4
GR5031X	RCS TCP B4U	200	22E1a-3A2	1-11			ON	W			12.1	C-2
GR5032X	RCS TCP A4D	200	22E1a-3A2	1-11			ON	W			12.1	N-1
GR5033X	RCS TCP B4F	200	22E1a-3A2	1-11			ON	W			12.1	B-1
GR5034X	RCS TCP A4R	200	22E1a-3A2	1-11			ON	W			12.1	N-2
GR5035X	RCS TCP A3U	200	22E1a-3A2	1-11			ON	W			12.1	N-4
GR5036X	RCS TCP B3D	200	22E1a-3A2	1-11			ON	W			12.1	C-3
GR5037X	RCS TCP B3A	200	22E1a-3A2	1-11			ON	W			12.1	C-4
GR5038X	RCS TCP A3R	200	22E1a-3A2	1-11			ON	W			12.1	N-3
GR5039X	RCS TCP B2U	200	22E1b-3A2	1-11			ON	W			12.1	C-7
GR5040X	RCS TCP A2D	200	22E1b-3A2	1-11			ON	W			12.1	N-5
GR5041X	RCS TCP A2A	200	22E1b-3A2	1-3			ON	W			12.1	N-6
GR5042X	RCS TCP B2L	200	22E1b-3A2	1-3			ON	W			12.1	C-5
GR5043X	RCS TCP A1U	200	22E1b-3A2	1-3			ON	W			12.1	N-9
GR5044X	RCS TCP B1D	200	22E1b-3A2	1-3			ON	W			12.1	C-8
GR5045X	RCS TCP A1F	200	22E1b-3A2	1-3			ON	W			12.1	N-7
GR5046X	RCS TCP B1L	200	22E1b-3A2	1-3			ON	W			12.1	C-9
GR6001T	QUAD 4 TEMP	1L	4-6	1-20	-60 260 DEG F		1.26		-60 260 DEG		12.1	C-2
GR6002T	QUAD 3 TEMP	1L	4-7	1-20	-60 260 DEG F		1.26		-60 260 DEG		12.1	D-4
GR6003T	QUAD 2 TEMP	1L	4-10	1-20	-60 260 DEG F		1.26		-60 260 DEG		12.1	D-6
GR6004T	QUAD 1 TEMP	1L	4-10	1-20	-60 260 DEG F		1.26		-60 260 DEG		12.1	D-8
GR9609U	RCS MAIN A CLSD	1L-1L	10E10-1A2	1-12			CLSD		FLAG		12.1	F-5
GR9610U	RCS MAIN B CLSD	1L-1L	10E10-1A2	1-12			CLSD		FLAG		12.1	K-5
GR9613U	A/B X FEED OPN	1L-1L	10E10-1A2	1-13			OPEN		FLAG		12.1	I-2
GR9631U	ASC FD A FU	1L-1L	10E10-1A2	1-13			OPEN		FLAG		12.1	H-2
GR9632U	ASC FD B FU	1L-1L	10E10-1A2	1-13			OPEN		FLAG		12.1	K-2
GR9641U	ASC FD A OX	1L-1L	10E10-1A2	1-12			OPEN		FLAG		12.1	F-2
GR9642U	ASC FD B OX	1L-1L	10E10-1A2	1-12			OPEN		FLAG		12.1	G-2
GR9661X	THR PR 4A CMD	1	10E42-1A2	1-13/1-14			CMD		FLAG		12.1	M-2
GR9662X	THR PR 4B CMD	1	10E42-1A2	1-13/1-14			CMD		FLAG		12.1	D-2
GR9663X	THR PR 3A CMD	1	10E42-1A2	1-13/1-14			CMD		FLAG		12.1	M-4
GR9664X	THR PR 3B CMD	1	10E42-1A2	1-13/1-14			CMD		FLAG		12.1	D-2
GR9665X	THR PR 2A CMD	1	10E42-1A2	1-13/1-14			CMD		FLAG		12.1	M-6

TABLE 9-III.- TELEMETERED AND DISPLAYED PARAMETERS - Concluded

MEAS ID	MEASUREMENT DESCRIPTION	S/S AND LBR ^a	PAM AND SEQ/ GT AND DIODE ^b	SCERA AND LOC	TM RANGE	TM ACC EU	1 PCM CNT ^c	C&W	ONBOARD RANGE	O/B ACC EU	REFERENCE	
											DWG	ZONE
GR9666X	THR PR 2B CMD	1	10E42-1A2	1-13/1-14			CMD		FLAG		12.1	D-6
GR9667X	THR PR 1A CMD	1	10E42-1A2	1-13/1-14			CMD		FLAG		12.1	M-8
GR9668X	THR PR 1B CMD	1	10E42-1A2	1-13/1-14			CMD		FLAG		12.1	D-8
GT0441X	DUA STATUS	50	51D2-4A1								8.4	K-7
GT0451H	Y POS GIMB OUT								-75 255 DEG		8.3	B-7
GT0452H	X POS GIMB OUT								-75 75 DEG		8.3	B-7
GT0454T	S-BND ANT TEMP	1L	1-10	2-21	-200 200 DEG F		1.59		-100 200 DEG		8.3	B-5
GT0504V	S-BND RCVR AGC								0 5 VDC		8.3	I-7
GT0625V	VHF B AGC	1L-1L	3-10/1-10		-97 -27 DBM		.276				8.3	P-1
GT0992B	S-BND ST Ø ERR	10-1L	2-14/2-3		-200 +200 KHZ		1.59				8.3	J-6
GT0993E	S-BND XMTR P0	1L	1-14		0 1.2 W		.020				8.3	H-5
GT0994V	S-BND RCVR AGC	1L-1L	4-13/2-13	1-5	-135 -50 DBM		.020	C			8.3	J-7
GT9999J	EKG 1/2											
GY0050X	ABORT CMD	1L-1L	10E11-2A2	1-2			ON				10.21	S-4
GY0201X	ED RLY A K1-6	1L-1L	10E11-2A2	1-12/1-14			ARM	C	COMP CAUT		4.1	D-5
GY0202X	ED RLY B K1-6	1L-1L	10E11-2A2	1-12/1-14			ARM	C	COMP CAUT		4.1	C-5
GY0231X	ED RLY A K7-15	1L-1L	10E11-2A2	1-14			SAFE				4.1	D-3
GY0232X	ED RLY B K7-15	1L-1L	10E11-2A2	1-14			SAFE				4.1	C-3
GY0703U	SEL ED BAT V			1-7					20 40 VDC		4.1	R-2
PLSS DATA												
GT8100Y	EVC 1 SYNC	1.5										
GT8101V	EVC 1 CAL 0	1.5			0 5 VDC							
GT8102V	EVC 1 CAL 100	1.5			0 5 VDC							
GT8110P	PLSS 1 H ₂ O P	1.5			0 5 PSIA	.18			FLG/TONE		7.1	Q-2
GT8124J	PLSS EKG 1	FM 5.4 kHz			0 5 VDC						7.1	I-6
GT8140C	PLSS 1 BAT CUR	1.5			0 10 AMPS	.243					7.1	S-9
GT8141V	PLSS 1 BAT V	1.5			12 20.5 VDC	.316					7.1	P-5
GT8154T	LCG 1 H ₂ O IN T	1.5			-4 90 DEG F	4.51					7.1	L-3
GT8168P	PGA 1 O ₂ PRESS	1.5			2.5 5 PSID	.11			F/T2.5/6 PSI	0.1	7.1	N-4
GT8170T	PLSS 1 O ₂ SUBL T	1.5			-4 90 DEG F	4.51					7.1	P-2
GT8175P	PLSS 1 CO ₂ PP	1.5			.1 30 MMHg	1.0					7.1	N-3
GT8182P	PLSS 1 O ₂ P	1.5			0 1500 PSIA	47			0/FULL	70	7.1	T-4
GT8196T	LCG 1 H ₂ O ΔT	1.5			0 15 DEG F	.57					7.1	L-2
GT8200X	EVC 2 SYNC	1.5										
GT8201V	EVC 2 CAL 0	1.5			0 5 VDC							
GT8202V	EVC 2 CAL 100	1.5			0 5 VDC							
GT8210P	PLSS 2 H ₂ O P	1.5			0 5 PSIA	.18			FLG/TONE		7.1	R-2
GT8224J	PLSS EKG 2	FM 3.9 kHz			0 5 VDC						7.1	I-7
GT8240C	PLSS 2 BAT CUR	1.5			0 10 AMPS	.243					7.1	S-9
GT8241V	PLSS 2 BAT V	1.5			12 20.5 VDC	.316					7.1	O-5
GT8254T	LCG 2 H ₂ O IN T	1.5			-4 90 DEG F	4.51					7.1	L-3
GT8268P	PGA 2 O ₂ PRESS	1.5			2.5 5 PSID	.11			F/T2.5/6 PSI	0.1	7.1	M-4
GT8270T	PLSS 2 O ₂ SUBL T	1.5			-4 90 DEG F	4.51					7.1	P-2
GT8275P	PLSS 2 CO ₂ PP	1.5			.1 30 MMHg	1.0					7.1	M-3
GT8282P	PLSS 2 O ₂ P	1.5			0 1500 PSIA	47			0/FULL	70	7.1	T-4
GT8296T	LCG 2 H ₂ O ΔT	1.5			0 15 DEG F	.57					7.1	L-2

TABLE 9-IV. - SIGNAL CONDITIONING MEASUREMENT ASSIGNMENTS

LETTER	ENG	DATE		APPROVAL
A, PCN-1	<i>slh</i>	1-24-72	1-24-72	<i>Ph. Budds</i>

TABLE 9-V. - TELEMETRY VERSUS PAM AND SEQUENCER GATES

PAM 1						PAM 2						PAM 3						PAM 4					
SEQ	CHANNEL (S)	ELEC/ COMM	ECS	GNC	PROP	SEQ	CHANNEL (S)	ELEC/ COMM	ECS	GNC	PROP	SEQ	CHANNEL(S)	ELEC/ COMM	ECS	GNC	PROP	SEQ	CHANNEL (S)	ELEC/ COMM	ECS	GNC	PROP
1	22A1 (22A4) (EX) 12A1 (12A9) 12A5 (EX) 12A15 51A1			GG2107 GG2021	GQ3611 GQ3603	1	22A2 (22A5) (EX) 12A2 12A9 (12A1) 12A16 (12A3) 51A2 (51A5)	-- -- -- --	-- -- -- --	-- GG2107 GG2137 GG2001	GQ4111	1	22A3 12A3 (12A16) 12A10 (12A18) 12A17 51A3 (51A6)			GG2137 GG2041		1	22A4 (22A1) (EX) 12A4 (12A12) 12A11 12A18 (12A10) 51A4 (EX)				GQ3611 GQ4103 GQ6806
2	22A5 (22A2) (EX) 12A5 12A12 (12A4) 12A19 (12A13) 51A5 (51A2)				GQ4111	2	22A6 (EX) 12A6 12A13 (12A19) 12A20 51A6 (51A3)	-- -- -- --	-- -- -- --	-- GG2167 -- GG2041	GQ6510	2	22A7 (EX) 12A7 12A14 12A21 51A7			GP2010 GQ4104 GQ3604		2	17A22 51A8 (EX)				GQ6806
3	11A1 11A8 11A18 11A28 (EX) 11A37 (11A13) (EX)			GH1240 GH1241 GH1242 GG2173 GH1457		3	11A2 (EX) 11A9 (11A40) 11A19 (11A43) 11A29 (11A45) 11A38 (11A34)	GT0992		*GG2142 *GH1461 *GH1462 *GH1463		3	11A3 11A10 11A20 11A30 (EX) 11A39 (11A15) (EX)	-- -- -- -- --	-- -- -- -- --	GG3305 GG3325 GH1313 GH1455		3	11A4 11A11 11A21 (EX) 11A31 (EX) 11A40 (11A9)			GG3324 GH1331 GH1314 *GG2142	GT0041
4	11A12 (EX) 11A22 11A32 11A41 (11A26)	GL0401		GG2143 GG3304	GP0042	4	11A5 (EX) 11A13 (11A37) (EX) 11A23 11A33 (EX) 11A42 (11A7) (EX)			GH1249 GH1457 GG2279 GH1248 GH1456		4	11A6 (11A44) 11A14 11A24 11A34 (11A38) 11A43 (11A19)			*GG2113 *GG2172 *GH1463 *GH1461		4	11A7 (11A42) (EX) 11A15 (11A39) (EX) 11A25 (EX) 11A35 11A44 (11A6)			GH1456 GH1455 GH1247 GG2219	
5	10A3 (10A48) 10A7 (EX) 10A11 (EX) 10A15 (10A44) 10A19 (10A29)			*GG2143 *GH1314 *GF9997	GQ4218	5	10A1 10A5 10A9 10A13 (10A27) 10A17 (10A46)	GC0207 *GC0205	-- -- -- -- --	-- *GG1331 *GF4586 *GF1521		5	11A16 11A26 (11A41) 11A36 (11A27) 11A45 (10A29)	GL0401 GL0402		*GG2112 *GH1462		5	11A17 11A27 (11A36)	GL0402		GG2249	
6	10A22 (EX) 10A26 (EX) 10A30 (10A6) 10A34 (10A56) 10A38 (10A52)			*GH1313 *GH1455 *GQ3435 *GQ4219 *GR3202		6	10A20 (10A54) 10A24 (10A50) 10A28 (10A12) 10A32 10A36	-- *GF4502 *GF4503 *GF3582 -- *GC0206	-- -- -- -- --	-- *GF4502 *GF4503 *GF3582 -- --		6	10A2 (10A49) 10A6 (10A30) 10A10 (EX) 10A14 (10A45) 10A18 (EX)			GG1040		6	10A4 (10A47) 10A8 10A12 (10A28) 10A16 (10A43)			*GF3582 *GF2921	GQ3718 *GR6001
7	10A41 10A45 (10A14) 10A49 (10A2) 10A53 (10A21) 10A57	GC0202 GC0204		GG1040 GR3201	GR2201 GR3201	7	10A39 10A43 (10A16) 10A47 (10A4) 10A51 (10A23) 10A55 (10A31) (EX)	-- -- -- -- --	-- GF2921	-- -- GG1110 GN7723		7	10A21 (10A53) 10A25 10A29 (10A19) 10A33 10A37			*GF9999 *GF9997 GF4501		7	10A23 (10A51) 10A27 (10A13) 10A31 (10A55) (EX) 10A35			*GF4586 GN7723	*GG1110 *GR6002
8	10A60 (EX) 10A64 (EX) 10A68 (10A102) 10A72 10A76 (10A86) (EX)			*GH1456 *GG2173 GC0201		8	10A58 (10A88) 10A62 (10A92) 10A66 10A70 10A74	-- *GF4500	-- -- -- -- --	-- *GF4500		8	10A40 10A44 (10A15) 10A48 (10A3) 10A52 (10A38) 10A56 (10A34)			GQ3015 GR2202 GQ4218 GR3202 GQ4219		8	10A42 10A46 (10A17) 10A50 (10A24) 10A54 (10A20)			*GF1521 *GF4503 *GF4502	*GQ3018
9	10A79 10A83 (10A98) 10A87 (10A75) 10A91 (10A106) 10A95 (10A63)	GC0203		*GF3571 *GC1206 *GC1201 *GC1203		9	10A77 (10A104) (EX) 10A81 (10A96) 10A85 10A89 (10A65) 10A93 (10A100)	*GC1207 GL0423		-- *G13301	GQ3603	9	10A59 (10A99) 10A63 (10A95) 10A67 (10A94) 10A71 10A75 (10A87)			*GC1203 *GC1204 -- *GC1206	*GF2021 -- -- --	9	10A61 (10A105) 10A65 (10A89) 10A69 (10A101) (EX) 10A73 (10A97)			*GF3583	*G13301 GQ3604
10	10A99 (10A59) 10A103 (10A90) 10A107 10A111 10A115 (EX)			*GF2021 *GF0454 -- -- *GH1457		10	10A97 (10A73) 10A101 (10A69) (EX) 10A105 (10A61) 10A109 10A113	-- *GF3583 -- -- *GF0521	-- -- -- -- --	-- *GF3583 -- -- -- --		10	10A78 10A82 10A86 (10A76) (EX) 10A90 (10A103) 10A94 (10A67)	*GC0071 *GC1204 *GC1204		-- -- -- -- --	*GQ6510	10	10A80 10A84 10A88 (10A58) 10A92 (10A62)			*GF4500	*GR6003 *GR6004 *GP1501
11	10A119 (10A146) 10A123 (10A166) 10A127 10A131 (10A142) 10A135 (10A170)			*GF2581 *GF3584 *GF4585	GR1095	11	10A117 (10A148) 10A121 10A125 (10A160) 10A129 (10A144) 10A133 (10A176) (EX)	-- *GG1201	-- -- -- -- --	-- *GG1201 *GR1101 *GP1218 *GQ4104	GQ3719	11	10A98 (10A83) 10A102 (10A68) 10A106 (10A91) 10A110 10A114	*GC1205 *GC1201		*GF3571		11	10A96 (10A81) 10A100 (10A93) 10A104 (10A77) (EX) 10A108 10A112 (EX)	GC1207		*GF0002 *GQ3603 GQ3025 *GR1201	
12	10A139 (EX) 10A143 (10A134) 10A147 (10A130) 10A151 (10A162) 10A155 (EX)			*GC0302 *GF1301		12	10A137 10A141 (10A168) 10A145 (10A124) 10A149 (10A164) 10A153 (10A179)	*GF2531 *GF4101 -- -- --	-- -- -- -- --	-- *GF2531 *GF4101 -- -- --		12	10A118 10A122 (10A167) 10A126 (EX) 10A130 (10A147) 10A134 (10A143)	-- *GC1202 *GC0301 *GC0302		-- -- *GF1301		12	10A116 (10A165) (EX) 10A120 (10A169) 10A124 (10A145) 10A128 10A132			*GF9998 *GF1651 *GH1311	GQ4103 *GR1102
13	10A159 (EX) 10A163 (10A154) 10A167 (10A122) 10A171 10A175 (EX)			GF4101 *GF4511 *GC1202 *GL0422		13	10A157 10A161 (10A152) 10A165 (10A116) (EX) 10A169 (10A120) 10A173 (10A178) (EX)	-- *GT0994 -- -- --	-- -- -- -- --	-- *GT0994 *GF9998 *GP2010		13	10A138 (EX) 10A142 (10A131) 10A146 (10A119) 10A150 10A154 (10A163)	-- *GF3584 -- -- --	-- -- -- -- --	*GF4511		13	10A136 10A140 10A144 (10A129) 10A148 (10A171) 10A152 (10A161)			*GT0994	*GR1202 *GP1218 GQ3719
14	10A179 (10A153) 10A183 10A187 (EX) 10A191 10A195			*GF3592 *GF4101 *GT0993		14	10A177 (10A172) 10A181 10A185 (EX) 10A189 10A193 (EX)	-- *GT0992 -- -- --	-- *GF1281 *GF0584 -- -- --	-- *GT0992 *GF0584 *GQ6806		14	10A158 10A162 (10A151) 10A166 (10A123) 10A170 (10A135) 10A174 (EX)	GC0155 *GC0155		-- -- -- -- --	*GF4585	14	10A156 10A160 (10A125) 10A164 (10A149) 10A168 (10A141) 10A172 (10A177)			*GL9402 *GF4101 *GF1281	*GN7563 *GR1101
												15	10A178 (10A173) (EX) 10A182 10A186 (EX) 10A190 10A194	-- -- -- -- --	-- -- -- -- --	*GF0500 *GH1331 -- -- *GF3591		15	10A176 (10A133) (EX) 10A180 10A184 10A188 10A192			*GL9401 *GL8275 *GB0542 -- *GB0541	GQ4104 -- -- -- --

* LBR
() INTERNAL REDUNDANT CHANNEL
(EX) EXTERNAL REDUNDANT CHANNEL

1. MEAS ID IN () USED FOR PROCESSING BY
GROUND DATA SYSTEMS

TABLE 9-VI.- LM VEHICLE TM CONVERSION

BINARY	DEC	VOLTS	MILLI-	% FS	OCTAL
EQV			VOLTS		
00000000	0	*	*	*	0
00000001	1	0.000	0.00	0.00	1
00000010	2	0.020	0.08	0.40	2
00000011	3	0.040	0.16	0.79	3
00000100	4	0.059	0.24	1.19	4
00000101	5	0.079	0.32	1.58	5
00000110	6	0.099	0.40	1.98	6
00000111	7	0.119	0.47	2.38	7
00001000	8	0.138	0.55	2.77	10
00001001	9	0.158	0.63	3.16	11
00001010	10	0.178	0.71	3.56	12
00001011	11	0.198	0.79	3.96	13
00001100	12	0.217	0.87	4.34	14
00001101	13	0.237	0.95	4.74	15
00001110	14	0.257	1.03	5.14	16
00001111	15	0.277	1.11	5.54	17
00010000	16	0.296	1.19	5.92	20
00010001	17	0.316	1.27	6.32	21
00010010	18	0.336	1.34	6.72	22
00010011	19	0.356	1.42	7.12	23
00010100	20	0.376	1.50	7.52	24
00010101	21	0.396	1.58	7.90	25
00010110	22	0.415	1.66	8.30	26
00010111	23	0.435	1.74	8.70	27
00011000	24	0.455	1.82	9.10	30
00011001	25	0.474	1.90	9.48	31
00011010	26	0.494	1.98	9.88	32
00011011	27	0.514	2.06	10.28	33
00011100	28	0.534	2.13	10.68	34
00011101	29	0.553	2.21	11.06	35
00011110	30	0.573	2.29	11.46	36
00011111	31	0.593	2.37	11.86	37
00100000	32	0.613	2.45	12.16	40
00100001	33	0.632	2.53	12.64	41
00100010	34	0.652	2.61	13.04	42
00100011	35	0.672	2.69	13.44	43
00100100	36	0.692	2.77	13.84	44
00100101	37	0.711	2.85	14.22	45
00100110	38	0.731	2.93	14.62	46
00100111	39	0.751	3.00	15.02	47
00101000	40	0.771	3.08	15.42	50
00101001	41	0.791	3.16	15.82	51
00101010	42	0.810	3.24	16.20	52
00101011	43	0.830	3.32	16.60	53
00101100	44	0.850	3.40	17.00	54
00101101	45	0.870	3.48	17.40	55
00101110	46	0.890	3.56	17.80	56
00101111	47	0.909	3.64	18.18	57
00110000	48	0.929	3.72	18.58	60
00110001	49	0.949	3.79	18.98	61
00110010	50	0.968	3.87	19.36	62
00110011	51	0.988	3.95	19.76	63
00110100	52	1.008	4.03	20.16	64
00110101	53	1.028	4.11	20.56	65
00110110	54	1.047	4.19	20.94	66
00110111	55	1.067	4.27	21.34	67
00111000	56	1.087	4.35	21.74	70
00111001	57	1.107	4.43	22.14	71
00111010	58	1.127	4.51	22.54	72
00111011	59	1.146	4.59	22.92	73
00111100	60	1.166	4.66	23.32	74
00111101	61	1.186	4.74	23.72	75
00111110	62	1.206	4.82	24.12	76
00111111	63	1.225	4.90	24.50	77

*LESS THAN 0.00 VOLTS (0.00 MILLIVOLTS) UNDERSCALE.

BINARY	DEC	VOLTS	MILLI-	% FS	OCTAL
EQV			VOLTS		
01000000	64	1.245	4.98	24.90	100
01000001	65	1.265	5.06	25.30	101
01000010	66	1.285	5.14	25.70	102
01000011	67	1.304	5.22	26.08	103
01000100	68	1.324	5.30	26.48	104
01000101	69	1.344	5.38	26.88	105
01000110	70	1.364	5.45	27.28	106
01000111	71	1.383	5.53	27.70	107
01001000	72	1.403	5.61	28.06	110
01001001	73	1.423	5.69	28.46	111
01001010	74	1.443	5.77	28.86	112
01001011	75	1.463	5.85	29.26	113
01001100	76	1.482	5.93	29.64	114
01001101	77	1.502	6.01	30.04	115
01001110	78	1.522	6.09	30.44	116
01001111	79	1.542	6.17	30.84	117
01010000	80	1.561	6.25	31.22	120
01010001	81	1.581	6.32	31.62	121
01010010	82	1.601	6.40	32.02	122
01010011	83	1.621	6.48	32.42	123
01010100	84	1.640	6.56	32.80	124
01010101	85	1.660	6.64	33.20	125
01010110	86	1.680	6.72	33.60	126
01010111	87	1.700	6.80	34.00	127
01011000	88	1.719	6.88	34.38	130
01011001	89	1.739	6.96	34.78	131
01011010	90	1.759	7.04	35.18	132
01011011	91	1.779	7.12	35.58	133
01011100	92	1.798	7.19	35.96	134
01011101	93	1.818	7.27	36.36	135
01011110	94	1.838	7.35	36.76	136
01011111	95	1.858	7.43	37.16	137
01100000	96	1.878	7.51	37.56	140
01100001	97	1.897	7.59	37.94	141
01100010	98	1.917	7.66	38.34	142
01100011	99	1.937	7.75	38.74	143
01100100	100	1.957	7.83	39.14	144
01100101	101	1.976	7.91	39.52	145
01100110	102	1.996	7.98	39.92	146
01100111	103	2.016	8.06	40.32	147
01101000	104	2.036	8.14	40.72	150
01101001	105	2.055	8.22	41.10	151
01101010	106	2.075	8.30	41.50	152
01101011	107	2.095	8.38	41.90	153
01101100	108	2.115	8.46	42.30	154
01101101	109	2.134	8.54	42.68	155
01101110	110	2.154	8.62	43.08	156
01101111	111	2.174	8.70	43.48	157
01110000	112	2.194	8.78	43.88	160
01110001	113	2.214	8.85	44.28	161
01110010	114	2.233	8.93	44.66	162
01110011	115	2.253	9.01	45.06	163
01110100	116	2.273	9.09	45.46	164
01110101	117	2.293	9.17	45.86	165
01110110	118	2.312	9.25	46.24	166
01110111	119	2.332	9.33	46.64	167
01111000	120	2.352	9.41	47.04	170
01111001	121	2.372	9.49	47.44	171
01111010	122	2.391	9.57	47.82	172
01111011	123	2.411	9.64	48.22	173
01111100	124	2.431	9.72	48.62	174
01111101	125	2.451	9.80	49.02	175
01111110	126	2.470	9.88	49.40	176
01111111	127	2.490	9.96	49.80	177

BINARY	DEC	VOLTS	MILLI-	% FS	OCTAL
EQV			VOLTS		
10000000	128	2.510	10.04	50.20	200
10000001	129	2.530	10.12	50.60	201
10000010	130	2.549	10.20	50.98	202
10000011	131	2.569	10.28	51.38	203
10000100	132	2.589	10.36	51.78	204
10000101	133	2.609	10.44	52.18	205
10000110	134	2.628	10.51	52.56	206
10000111	135	2.648	10.59	52.96	207
10001000	136	2.668	10.67	53.36	210
10001001	137	2.688	10.75	53.76	211
10001010	138	2.708	10.83	54.16	212
10001011	139	2.727	10.91	54.54	213
10001100	140	2.747	10.99	54.94	214
10001101	141	2.767	11.07	55.34	215
10001110	142	2.787	11.15	55.74	216
10001111	143	2.806	11.23	56.12	217
10010000	144	2.826	11.30	56.52	220
10010001	145	2.846	11.38	56.92	221
10010010	146	2.866	11.46	57.32	222
10010011	147	2.885	11.54	57.70	223
10010100	148	2.905	11.62	58.10	224
10010101	149	2.925	11.70	58.50	225
10010110	150	2.945	11.78	58.90	226
10010111	151	2.965	11.86	59.30	227
10011000	152	2.984	11.94	59.68	230
10011001	153	3.004	12.02	60.08	231
10011010	154	3.024	12.10	60.48	232
10011011	155	3.044	12.17	60.88	233
10011100	156	3.063	12.25	61.26	234
10011101	157	3.083	12.33	61.66	235
10011110	158	3.103	12.41	62.06	236
10011111	159	3.123	12.49	62.46	237
10100000	160	3.142	12.57	62.84	240
10100001	161	3.162	12.65	63.24	241
10100010	162	3.182	12.73	63.64	242
10100011	163	3.202	12.81	64.04	243
10100100	164	3.221	12.89	64.42	244
10100101	165	3.241	12.96	64.82	245
10100110	166	3.261	13.04	65.22	246
10100111	167	3.281	13.12	65.62	247
10101000	168	3.300	13.20	66.00	250
10101001	169	3.320	13.28	66.40	251
10101010	170	3.340	13.36	66.80	252
10101011	171	3.360	13.44	67.20	253
10101100	172	3.380	13.52	67.60	254
10101101	173	3.399	13.60	67.98	255
10101110	174	3.419	13.68	68.38	256
10101111	175	3.439	13.76	68.78	257
10110000	176	3.459	13.83	69.18	260
10110001	177	3.478	13.91	69.56	261
10110010	178	3.498	13.99	69.96	262
10110011	179	3.518	14.07	70.36	263
10110100	180	3.538	14.15	70.76	264
10110101	181	3.557	14.23	71.14	265
10110110	182	3.577	14.31	71.54	266
10110111	183	3.597	14.39	71.94	267
10111000	184	3.617	14.47	72.34	270
10111001	185	3.636	14.55	72.72	271
10111010	186	3.656	14.62	73.12	272
10111011	187	3.676	14.70	73.52	273
10111100	188	3.696	14.78	73.92	274
10111101	189	3.715	14.86	74.30	275
10111110	190	3.735	14.94	74.70	276
10111111	191	3.755	15.02	75.10	277

TABLE IV.- LUNAR MODULE TELEMETRY DATA SUMMARY

Measurement					Loading number	MSFN format										Summary TWX number	PCM analog tabs and plots		Strip chart record setup number	Primary MSK number
Number	Title	Unit	Range			Sample rates, S/S														
			Low	High		1	2	3	4	5	6	7	8	9	10		STD	SP		
GC0071V	AC BUS VOLT	VRMS	0	120	1022069	1			.2	.2	.2					70	21B		LP-1	1001, 1002, 1071, 1091, 1127
GC0155F	AC BUS FREQ	HZ	380	420	1041069	1			.2	.2	.2					70	21B		LP-1	1001, 1002, 1091, 1127
GC0201V	BAT 1 VOLT	VDC	0	40	1019101	1			.2	.2	.2					70	21A		LP-1	1001, 1002, 1061
GC0202V	BAT 2 VOLT	VDC	0	40	1011101	1			.2	.2	.2					70	21A		LP-1	1001, 1002, 1061
GC0203V	BAT 3 VOLT	VDC	0	40	1021101	1			.2	.2	.2					70	21A		LP-1	1001, 1002, 1061
GC0204V	BAT 4 VOLT	VDC	0	40	1015101	1			.2	.2	.2					70	21A		LP-2	1001, 1002, 1061
GC0205V	BAT 5 VOLT	VDC	0	40	1003037	1			.2	.2	.2					70	21B		LP-2	1001, 1002, 1061
GC0206V	BAT 6 VOLT	VDC	0	40	1010037	1			.2	.2	.2					70	21B		LP-2	1001, 1002, 1061
GC0301V	CDR BUS VOLT	VDC	0	40	1033069	1			1	1	1					70	21B		LP-2	1001, 1002, 1061, 1091
GC0302V	SE BUS VOLT	VDC	0	40	1035069	1			1	1	1					70	21A		LP-2	1001, 1002, 1061, 1091
GC1201C	BAT 1 CUR	AMP	0	60	1024101	1			1	1	1					70	21A		LP-1	1001, 1002, 1071
GC1202C	BAT 2 CUR	AMP	0	60	1032069	1			1	1	1					70	21A		LP-1	1001, 1002, 1071
GC1203C	BAT 3 CUR	AMP	0	60	1017069	1			1	1	1					70	21A		LP-1	1001, 1002, 1071
GC1204C	BAT 4 CUR	AMP	0	60	1018069	1			1	1	1					70	21A		LP-2	1001, 1002, 1071
GC1205C	BAT 5 CUR	AMP	0	120	1018101	1			1	1	1					70	21B		LP-2	1001, 1002, 1071
GC1206C	BAT 6 CUR	AMP	0	120	1020069	1			1	1	1					70	21B		LP-2	1001, 1002, 1071
GC4361X	BAT 1 HI TAP	OFF	ON	ON	1035098H												41			
GC4362X	BAT 1 LOW TAP	OFF	ON	ON	1005098G												41			
GC4363X	BAT 2 HI TAP	OFF	ON	ON	1035098F												41			
GC4364X	BAT 2 LOW TAP	OFF	ON	ON	1035098E	1			.2	.2	.2						41			
GC4365X	BAT 3 HI TAP	OFF	ON	ON	1035098D	1			.2	.2	.2						41			
GC4366X	BAT 3 LOW TAP	OFF	ON	ON	1035098C	1			.2	.2	.2						41			
GC4367X	BAT 4 HI TAP	OFF	ON	ON	1035098B	1			.2	.2	.2						41			
GC4368X	BAT 4 LOW TAP	OFF	ON	ON	1035098A	1			.2	.2	.2						41			
GC4369X	BAT 5 B/U CDR	OFF	ON	ON	1039098H	1			1	1	5						41			
GC4370X	BAT 6 NORM CDR	OFF	ON	ON	1039098G	1			1	1	5						41			
GC4371X	BAT 5 NORM SE	OFF	ON	ON	1039098F	1			1	1	5						41			
GC4372X	BAT 6 B/U SE	OFF	ON	ON	1039098E	1			1	1	5						41			
GC9961U	BAT 1 MAL	ABS	PRS	PRS	1034100H	1			.2	.2	.2						41			1001, 1002, 1081
GC9962U	BAT 2 MAL	ABS	PRS	PRS	1034100G	1			.2	.2	.2						41			1001, 1002, 1081
GC9963U	BAT 3 MAL	ABS	PRS	PRS	1034100F	1			.2	.2	.2						41			1001, 1002, 1083
GC9964U	BAT 4 MAL	ABS	PRS	PRS	1034100E	1			.2	.2	.2						41			1001, 1002, 1081
GC9965U	BAT 5 MAL	ABS	PRS	PRS	1034100D	1			.2	.2	.2						41			1001, 1002, 1081
GC9966U	BAT 6 MAL	ABS	PRS	PRS	1034100C	1			.2	.2	.2						41			1001, 1002, 1081
GF1083X	SUIT FAN 1 MAL		NO	YES	1007098H	1			.2	.2	.2						42			1001, 1002, 1021, 1051, 1310
GF1084X	SUIT FAN 2 MAL		NO	YES	1007098G	1			.2	.2	.2						42			1001, 1002, 1021, 1051, 1310
GF1201X	CDR SUIT DISC		FLOW	DISC	1004098H	1			1	1	5						42			1001, 1002, 1021, 1051, 1310
GF1202X	SE SUIT DISC		FLOW	DISC	1004098G	1			1	1	5						42			1001, 1002, 1021, 1051, 1310
GF1211X	SUIT RLF CLSD		NOT CLOSED	CLOSED	1007098F	1			.2	.2	.2						42			1021, 1051
GF1212X	SUIT RLF OPEN		NOT OPEN	OPEN	1007098E	1			.2	.2	.2						42			1021, 1051
GF1221X	SUIT DIV EGRESS		CAB	EGR	1007098D	1			.2	.2	.2						42			1021, 1051, 1310
GF1231X	CABIN RET CLSD		NOT CLOSED	CLOSED	1005098H	1			.2	.2	.2						42			1021, 1051
GF1232X	CABIN RET OPEN		NOT OPEN	OPEN	1005098G	1			.2	.2	.2						42			1021, 1051
GF1241X	SEC CO2 SEL		PRI	SEC	1007098C	1			.2	.2	.2						42			1001, 1002, 1021, 1051, 1310
GF1281T	SUIT TEMP	°F	20	120	1045005	1			.1	1	1					70	22A		LP-4	1001, 1002, 1011, 1051
GF1301P	SUIT PRESS	PSIA	0	10	1034069	1			1	1	1					70	22A		LP-4	1001, 1002, 1011, 1051, 1310
GF1521P	CO2 PART PRESS	MMHG	0	30	1005037	1			.1	1	1					70	22A		LP-4	1001, 1002, 1011, 1051, 1310
GF1651T	CABIN TEMP	°F	20	120	1034005	1			.1	1	1					70	22A		LP-3	1001, 1002, 1011, 1051
GF2021P	PRI GLY PMP DEL P	PSID	0	50	1016069	1			.1	1	1					70	22C		LP-5	1001, 1002, 1011, 1051, 1310
GF2531T	MAIN W/B GLY IN	°F	20	120	1036037	1			.2	.2	.2					70	22B		LP-5	1001, 1002, 1021, 1051, 1310
GF2581T	MAIN W/B GLY OUT	°F	20	120	1033101	1			.2	.2	.2					70	22B		LP-5	1021, 1051, 1310
GF2921P	REDUN PMP PRESS	PSIA	0	60	1005005	1			.1	1	1						22B		LP-3	1001, 1002, 1011, 1051, 1310
GF2936X	SEL GLY PMP FAIL		NO	YES	1005098B	1			.2	.2	.2						42			1001, 1002, 1011, 1051, 1310
GF3070X	DMD REG A EGR/CLSD		NO	YES	1005098E	1			.2	.2	.2						42			1051
GF3071X	DMD REG A CLSD		NO	YES	1005098F	1			.2	.2	.2						42			1051
GF3073X	DMD REG B CLSD		NO	YES	1005098D	1			.2	.2	.2						42			1021, 1051
GF3075X	DMD REG B EGR/CLSD		NO	YES	1005098C	1			.2	.2	.2						42			1021, 1051
GF3571P	CABIN PRESS	PSIA	0	10	1022101	1			1	1	1					70	22A		LP-3	1001, 1002, 1011, 1051
GF3572X	REPR ELEC OPEN		NO	YES	1004098	1			1	1	5						42			1001, 1002, 1021, 1052, 1310
GF3582P	ASC 1 O2 PRESS	PSIA	0	1000	1004005	1			.2	.2	.2					70	22B		LP-4	1001, 1002, 1011, 1031, 1051, 1310
GF3583P	ASC 2 O2 PRESS	PSIA	0	1000	1020005	1			.2	.2	.2					70	22B		LP-4	1001, 1002, 1011, 1031, 1051
GF3584P	DES O2 PRESS	PSIA	0	3000	1034101	1			.2	.2	.2					70	22B		LP-4	1001, 1002, 1011, 1031, 1051
GF3589P	O2 MANIFOLD PRESS	PSIA	0	1400	1024069	1			.2	.2	.2					70	22A		LP-4	1001, 1002, 1011, 1051
GF3591P	U/H PLF PRESS	PSIA	0	25	1050069	1			.2	.2	.2					70	22B		LP-3	1001, 1002, 1021, 1051

TABLE IV.- LUNAR MODULE TELEMETRY DATA SUMMARY - Continued

Measurement					Loading number	MSFN format Sample rates, S/S										Summary TWX number	PCM analog tabs and plots		Strip chart record setup number	Primary MSK number	
Number	Title	Unit	Range			1	2	3	4	5	6	7	8	9	10		STD	SP			
			Low	High																	
GF3592P	F/H RLF PRESS	PSIA	0	25	1047101	1			.2	.2	.2					70	22B		LP-3	1001, 1002, 1021, 1051, 1310	
GF4101P	PRI H2O REG DEL P	PSID	0	2	1037037	1			.2	.2	.2					70	22C		LP-3	1001, 1002, 1011	
GF4501P	DESCENT H2O PRESS	PSID	0	60	1009065												22A		LP-3	1001	
GF4511T	PRI W/B H2O TEMP	°F	20	260	1040069	1			.1	.1	.1					70	22C		LP-3	1001, 1002, 1011, 1351	
GF4581Q	DES H2O QTY	PCT	0	100	1016037	1			.2	.2	.2					70	22C		LP-5	1001, 1002, 1011, 1031, 1310	
GF4582Q	ASC 1 H2O QTY	PCT	0	100	1006037	1			.2	.2	.2					70	22C		LP-5	1001, 1002, 1011, 1031, 1310	
GF4583Q	ASC 2 H2O QTY	PCT	0	100	1007037	1			.2	.2	.2					70	22C		LP-5	1001, 1002, 1011, 1031, 1310	
GF9986U	GLY ACCUM LL		NORM	LOW	1004098	1			1	1	.5						42			1001, 1002, 1011, 1051	
GF9997U	GLY PUMP PRESS	PSIA	0	60	1005101	1			.2	.2	.2					70	22C		LP-5	1001, 1002, 1011, 1051	
GF9998U	GLY TEMP	°F	20	120	1032005	1			.2	.2	.2					70	22C		LP-5	1001, 1002, 1011, 1051, 1310	
GF9999U	H2O SEP RATE	RPM	0	3600	1007069	1			.1	.1	.1					70	22C		LP-4	1001, 1002, 1011, 1051, 1310	
GG0001X	PGNS DOWN LINK	DIG		CODE	5101121	1	.2				.1	.1								1125	
GG1040V	PLS TORQ REF	VDC	84.3	134.5	1001069	1			.2	.1	.2						23A		LP-6	1133, 1137, 1142	
GG1110V	2.5 VDC TM BIAS	VDC	0	5	1007005	1			.2	.1	.2						23A		LP-6	1137, 1142	
GG1201V	IMU 28 VAC 800	VRMS	0	30.75	1032037	1			.2	1	.2						23A		LP-6	1133, 1135, 1137, 1142	
GG1331V	IRIG SUSP 3.2 KC	VRMS	0	31.34	1002037	1			.2	1	.2						23A		LP-6	1133, 1135, 1137, 1142	
GG1513X	IMU STBY	OFF		ON	1008098	1			1	1	.5						45			1133, 1139	
GG1523X	LGC OPR	OFF		ON	1008098	1			1	1	.5						45			1133, 1139	
GG2001V	X PIPA OUT IN PH	VRMS	-2.69	2.65	5101058	1			.2	.2	.2							30D	LO-3	1133, 1151	
GG2021V	Y PIPA OUT IN PH	VRMS	-2.68	2.63	5101057	1			.2	.2	.2							30D	LO-3	1133, 1151	
GG2041V	Z PIPA OUT IN PH	VRMS	02.7	2.65	5101059	1			.2	.2	.2							30D	LO-3	1133, 1151	
GG2107V	IG SVO ERR IN PH	VRMS	-2.93	2.88	1201017	10			1	5	1							30D	LO-3	1133, 1135, 1151	
GG2112V	IG RSVR OUT SIN	VRMS	-21.11	20.69	1102099	1			1	1	1							30E	LO-3	1133, 1148, 1475	
GG2113V	IG RSVR OUT COS	VRMS	-21.15	20.91	1102067	1			1	1	1							30E	LO-3	1133, 1148	
GG2137V	MG SVO ERR IN PH	VRMS	-2.92	2.96	1201019	10			1	5	1							30D	LO-3	1133, 1135, 1151	
GG2142V	MG RSVR OUT SIN	VRMS	-21.91	20.70	1102034	1			1	1	1							30E	LO-3	1133, 1135, 1475	
GG2143V	MG RSVR OUT COS	VRMS	-20.94	20.71	1002101	1			1	1	1							30E	LO-3	1133, 1135	
GG2167V	OG SVO ERR IN PH	VRMS	-2.97	2.92	1201030	10			1	5	1							30D	LO-3	1133, 1135, 1151	
GG2172V	OG RSVR OUT SIN	VRMS	-20.74	20.60	1103067	1			1	1	1							30E	LO-3	1133, 1148, 1475	
GG2173V	OG RSVR OUT COS	VRMS	-21.35	21.02	1017101	1			1	1	1							30E	LO-3	1133, 1148	
GG2219V	PITCH ATT ERR	VRMS	-20.00	19.70	1104068	4			3	3	1							30B	LO-1	1123, 1127, 1137, 1145	
GG2249V	YAW ATT ERR	VRMS	-20.5	20.10	1102100	4			3	3	1							30B	LO-1	1123, 1127, 1137, 1145	
GG2279V	ROLL ATT ERR	VRMS	-20.10	19.70	1103066	4			3	3	1							30B	LO-1	1123, 1127, 1137, 1145	
GG2300T	PIPA TEMP	°F	119.0	139.7	1032101	1			1	1	1					71	23A		LP-7	1133, 1137, 1145	
GG3304V	RR SHFT SIN	VRMS	-23.05	22.63	1104065	1			1	1	.5							30D	LP-7	1131	
GG3305V	RR SHFT COS	VRMS	-22.39	21.95	1102035	1			1	1	.5							30D	LP-7	1131	
GG3324V	RR TRUN SIN	VRMS	-22.39	22.03	1102036	1			1	1	.5							30E	LP-7	1131	
GG3325V	RR TRUN COS	VRMS	-22.63	22.22	1103035	1			1	1	.5							30E	LP-7	1131	
GG9001X	LGC WARNING	ABS		PRS	1003098H	1			1	1	.5						45		30E	LP-7	1135, 1139
GG9002X	ISS WARNING	ABS		PRS	1003098G	1			1	1	.5						45				1135, 1139
GH1204X	OUT DET	NO		YES	1037098H	1			1	1	.5							44		LO-1	1127, 1157
GH1214X	AUTO ON	NO		YES	1020908	1			1	1	.5							44			1154
GH1217X	AUTO OFF	NO		YES	1037098G	1			1	1	.5							44			1123, 1125, 1154
GH1230X	APS ARM	NO		YES	1047098H	1			1	1	.5							44			1154
GH1240V	X TRANS CMD	VDC	-10	10	1101065	1			1	1	.5							43	30C	LP-8	1127, 1157
GH1241V	Y TRANS CMD	VDC	-10	10	1102033	1			1	1	.5							43	30C	LP-8	1127, 1157
GH1242V	Z TRANS CMD	VDC	-10	10	1103033	1			1	1	.5							43	30C	LP-8	1127, 1157
GH1247V	YAW LC INPUT ERR	VDC	-12	12	1036101	4			1	1	1							71	30A	LO-1	1123, 1127, 1160
GH1248V	PITCH LC INPUT ERR	VDC	-12	12	1040101	4			1	1	1							71	30A	LO-1	1123, 1127, 1160
GH1249V	ROLL LC INPUT ERR	VDC	-12	12	1045101	4			1	1	1							71	30A	LO-1	1123, 1127, 1160
GH1260X	APS ON	OFF		ON	5101024H	1			1	1	.5							44		LO-2	1125, 1127, 1154
GH1283X	ABORT STAGE	NO		YES	5101024	1			1	1	.5							44			1001, 1002, 1081, 1091, 1127, 1157
GH1286X	ENG FIR OVERRIDE	NO		YES	1037098	1			1	1	.5							44			1123, 1127, 1154
GH1301X	DPS ON	OFF		NO	1029098	1			1	1	.5							44		LO-2	1125, 1127, 1154
GH1311V	MAN THRUST CMD	PCT	0	9.25	1035005	1			1	1	1							71	30C	LO-2	1123, 1127, 1137, 1154
GH1313V	PITCH GDA POS	VRMS	-15	15	1006101	1			1	1	1							71	30C	LO-2	1001, 1002, 1071, 1091, 1123, 1127, 1160
GH1314V	ROLL GDA POS	VRMS	-15	15	1003101	1			1	1	1							71	30C	LO-2	1001, 1002, 1071, 1091, 1123, 1124, 1160
GH1323X	R TRM FAIL	NO		YES	1029098F	1			1	1	.5							44			1001, 1002, 1021, 1123, 1127, 1160
GH1330X	R TRM FAIL	NO		YES	1029098E	1			1	1	.5							44			1001, 1002, 1021, 1123, 1330, 1160
GH1331V	AUTO THRUST CMD	PCT	0	0.25	1048069	1			1	1	1							71	30C	LO-2	1071, 1123, 1127, 1137, 1154
GH1348X	DPS ARM	OFF		ON	1047098	1			1	1	.5							44			1001, 1002, 1091, 1123, 1125, 1154
GH1418V	JDB4U OUTPUT	OFF		ON	1201008A													43		LO-1,2 LO-5	

TABLE IV.- LUNAR MODULE TELEMETRY DATA SUMMARY - Continued

Measurement					Loading number	MSFN format Sample rates, S/S										Summary TWX number	PCM analog tabs and plots		Strip chart record setup number	Primary MSK number				
Number	Title	Unit	Range			1	2	3	4	5	6	7	8	9	10		STD	SP						
			Low	High																				
GH1419V	JDA4D OUTPUT		OFF	ON	1201008												43		LO-1,2 LO-4					
GH1420V	JDB4F OUTPUT		OFF	ON	1201048A												43		LO-1,2 LO-5					
GH1421V	JDA4R OUTPUT		OFF	ON	1201048B												43		LO-1,2 LO-4					
GH1422V	JDA3U OUTPUT		OFF	ON	1201008C												43		LO-1,2 LO-4					
GH1423V	JDB3D OUTPUT		OFF	ON	1201008D												43		LO-1,2 LO-5					
GH1424V	JDB3A OUTPUT		OFF	ON	1201048C												43		LO-1,2 LO-5					
GH1425V	JDA3B OUTPUT		OFF	ON	1201048D												43		LO-1,2 LO-4					
GH1426V	JDB2U OUTPUT		OFF	ON	1201008E												43		LO-1,2 LO-5					
GH1427V	JDA2D OUTPUT		OFF	ON	1201008F												43		LO-1,2 LO-4					
GH1428V	JDA2A OUTPUT		OFF	ON	1201048E												43		LO-1,2 LO-4					
GH1429V	JDB2L OUTPUT		OFF	ON	1201048F												43		LO-1,2 LO-5					
GH1430V	JDA1U OUTPUT		OFF	ON	1201008G												43		LO-1,2 LO-4					
GH1431V	JDB1D OUTPUT		OFF	ON	1201008H												43		LO-1,2 LO-5					
GH1432V	JDA1F OUTPUT		OFF	ON	1201048G												43		LO-1,2					
GH1433V	JDB1L OUTPUT		OFF	ON	1201048H												43		LO-1,2 LO-5					
GH1455V	YAW ATT ERR	DEG	-11.67	11.67	1007101	4			2	3	5					71	30B	LO-1	1123, 1127, 1137, 1145					
GH1456V	PITCH ATT ERR	DEG	-11.56	11.67	1016101	4			2	3	5					71	30B	LO-1	1123, 1127, 1137, 1145					
GH1457V	ROLL ATT ERR	DEG	-11.67	11.67	1030101	4			2	3	5					71	30B	LO-1	1123, 1127, 1137, 1145					
GH1461V	RGA YAW RATE	DEG/SEC	-25.00	25.00	1103034	10			3	5	1					71	30A	LO-1,2 LO-4,5	1123, 1127, 1137, 1145					
GH1462V	RGA PITCH RATE	DEG/SEC	-25.00	25.00	1104034	10			3	5	1					71	30A	LO-1,2 LO-4,5	1123, 1127, 1137, 1145					
GH1463V	RGA ROLL RATE	DEG/SEC	-25.00	25.00	1105034	10			3	5	1					71	30A	LO-1,2 LO-4,5	1123, 1127, 1137, 1145					
GH1603X	WIDE DBND SEL	NAR	WIDE	1047098F	1			1	1	1	5						44		LO-1	1137, 1145				
GH1621X	AGS SEL	PGNS	AGS	1029098D	1			1	1	1	5						44		LO-1,2	1127, 1137				
GH1628X	ROLL FLSD/DIR	OUT	IN	1033098H	1			1	1	1	5						44			1123, 1127, 1157				
GH1629X	PITCH FLSD/DIR	OUT	IN	1033098G	1			1	1	1	5						44			1123, 1127, 1157				
GH1630X	YAW FLSD/DIR	OUT	IN	1033098F	1			1	1	1	5						44			1123, 1127, 1157				
GH1641X	AGS MODE AUTO	OFF	ON	1037098A	1			1	1	1	5						44			1123, 1157				
GH1642X	AGS MODE ATT HOLD	OFF	ON	1037098B	1			1	1	1	5						44			1123, 1157				
GH1643X	PGNS MODE AUTO	OFF	ON	1037098E	1			1	1	1	5						44			1123, 1137, 1157				
GH1644X	PGNS MODE ATT HLD	OFF	ON	1037098D	1			1	1	1	5						44			1123, 1137, 1157				
GH1893X	X TRANS OVERRIDE	ON	OFF	1047098E	1			1	1	1	5						44			1127, 1157				
GH1896X	UNBAL CPLS	NO	YES	1037098C	1			1	1	1	5						44			1127, 1157				
CI0001X	AGS COMPUTER WORDS	DIG	CODE	5101126	1			5	1	1	1					64				1123				
CI3301T	ASA TEMP	°F	20	200	1018005	1			2	2	2					71	23A		LP-8	1127, 1160				
CI3305X	AGS WARMUP	OFF	ON	1033098E	1			1	1	1	5						45			1127, 1160				
CI3306X	AGS STBY	OFF	ON	1033098D	1			1	1	1	5						45			1127, 1160				
GL0400X	OSC FAIL DETCT	NO	YES	1009098A	1			2	2	2	2						46			1081, 1091				
GL0401V	CAL 85 PCT	VDC	0	5.0	1103099	1			1	1	1	1				70	24A		LP-9	1081, 1091				
GL0402V	CAL 15 PCT	VDC	0	5.0	1104099	1			1	1	1	1				70	24A		LP-9	1001, 1081, 1091				
GL0422V	OSC FAIL DETCT 2	VDC	0	5.0	1044101	1			2	2	2	2					24A		LP-9	1081, 1091				
GL0423V	OSC FAIL DETCT 3	VDC	0	5.0	1023037	1			2	2	2	2					24A		LP-9	1081, 1091				
GL0426X	CES AC POWER FAIL	NO	YES	1001098H	1			1	1	1	5						46			1127, 1160				
GL0427X	CES DC PWR FAIL	NO	YES	1009098G	1			1	1	1	5						46			1127, 1160				
GL0428X	AGS PWR FAIL	YES	NO	1009098F	1			1	1	1	5						46			1127, 1160				
GL0407X	EPS BATTERY CAUT	YES	NO	1009098C	1			2	2	2	2						46			1001, 1081, 1091				
GL04054X	C W PWR FAIL	YES	NO	1009098E	1			1	1	1	5						46			1001, 1081, 1091				
GL04069X	MASTER ALARM ON	YES	NO	1009098D	1			1	1	1	5					70	46			1001, 1081, 1091, 1468				
GL0275T	RTG CASK SHLD TEMP	°F	-200	500	1047005	1			1	1	1	1				70	24A		LP-9	1021, 1310				
225000X	LAND GEAR DEPLOY	NO	YES	1045098H	1			1	1	1	5						46			1001, 1002, 1021				
GH7521X	LR RANGE BAD	NO	YES	1002098H	1			1	1	1	5						46			1031, 1135, 1142				
GH7557X	LR VEL BAD	NO	YES	1002098G	1			1	1	1	5						46			1131, 1135, 1142				
GH7563T	LR ANT TEMP	°F	-200	200	1043005	1			1	1	1	1					25A		LP-10	1131, 1137, 1151				
GH7621X	RR NO TRACK	TRK	NTRK	1002098	1			1	1	1	5						46			1137, 1145				
GH7723T	RR ANT TEMP	°F	-200	200	1009005	1			1	1	1	1				71	25A		LP-10	1131, 1137, 1151				
GP0001F	APS HE 1 PRESS	PSIA	0	4000	1040037	1			2	2	2	2				71	26A	31A	LP-11	1123, 1125, 1169				
GP0002F	APS HE 2 PRESS	PSIA	0	4000	1025037	1			2	2	2	2				71	26A	31A	LP-11	1123, 1169				
GP0018P	APS HE REG PRESS	PSIA	0	300	1019037	1			2	2	2	2				71	26A	31A	LP-11	1125, 1169				
GP0025P	APS HE REG PRESS	PSIA	0	300	1010069	1			2	2	2	2				71	26A	31A	LP-11	1123, 1125, 1169				
GP0201T	APS HE 1 TEMP	°F	-200	200	1035101	1			1	1	1	1				71	26B		LP-11	1169				
GP0318X	APS HE 1 CLSD	OPEN	CLSD	1049098H	1			1	1	1	1						47			1123, 1125, 1172				
GP0320X	APS HE 2 CLSD	OPEN	CLSD	1049098G	1			1	1	1	1						47			1123, 1125, 1172				
GP0718T	APS FUEL TEMP	°F	20	120	1030069	1			1	1	1	1				71	26B		LP-12	1125, 1169				
GP0908X	APS FUEL LOW	NORM	LOW	1029100	1			1	1	1	1						47			1123, 1125, 1172				
CP1218T	APS OX TEMP	°F	20	120	1034037	1			1	1	1	1				71	26B		LP-12	1125, 1169				
CP1408X	APS OX LOW	NORM	LOW	1029100	1			1	1	1	5						47			1123, 1125, 1172				
GP1501F	APS FUEL PRESS	PSIA	0	250	1017037	1			1	1	1	1				71	26A	31A	LP-12	1123, 1125, 1169				

TABLE IV.- LUNAR MODULE TELEMETRY DATA SUMMARY - Continued

Measurement					Loading number	MSFN format Sample rates, S/S										Summary TWX number	PCM analog tabs and plots		Strip chart record setup number	Primary MSG number
Number	Title	Unit	Range			1	2	3	4	5	6	7	8	9	10		STD	SP		
			Low	High																
GF1503P GF2010P	APS OX PRESS APS TCP	PSIA	0	250 150	1017005 1045037	1			1	1	1				71	26A	31A 31B	LP-12 LP-12	1123, 1125, 1169 1001, 1002, 1091, 1123, 1125, 1127, 1169	
GF2997U	APS DELTA POS A		CLD/ OPN	MID	1038098F	1			.1	.1	.1					48			1071, 1154, 1172	
GF2998U	APS DELTA POS B		CLD/ OPN	MID	1038098E	1			.1	.1	.1				71	48 27A	32A	LP-13	1172	
Q23015P Q23018P Q23025P Q23435P Q23603Q Q23604Q Q23611P Q23718T Q23719T Q24103Q Q24104Q Q24111P Q24218T Q24219T Q24455X Q26510P	DPS START TANK P DPS HE REG PRESS DPS HE REG PRESS DPS HE PRESS DPS FUEL 1 QTY DPS FUEL 2 QTY DPS FUEL PRESS DPS FUEL 1 TEMP DPS FUEL 2 TEMP DPS OX 1 QTY DPS OX 2 QTY DPS OX PRESS DPS OX 1 TEMP DPS OX 2 TEMP DPS PROP LOW DPS TCP	PSIA PSIA PSIA PSIA PCT PCT PSIA °F °F PCT PCT PSIA °F °F °F PSIA	0 0 0 0 0 0 0 20 20 0 0 0 20 20 20 LOW 0	1750 300 300 200 95 95 300 120 120 95 95 300 120 120 LOW 200	1011069 1012005 1029005 1002069 1028005 1027027 1005069 1002005 1031037 1043037 1035037 1003069 1001101 1009101 1038098G 1020101	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			.2 .2 .2 .2 .2 .2 .2 .1 .1 .1 .2 .2 .1 .1 .1 .1 .1	.2 .2 .2 .2 .2 .2 .2 .1 .1 .1 .2 .2 .1 .1 .1 .1 .1	.2 .2 .2 .2 .2 .2 .2 .1 .1 .1 .2 .2 .1 .1 .1 .1 .1				71 71 71 71 71 71 71 71 71 71 71 71 71 71 71 71	27A 27A 27A 27C 27C 27C 27B 27B 27C 27C 32A 27B 27B 27C 47	32A 32A 32A 32A 32A 32A 32A 32A 32A 32A 32A 32A 32A 32A 32A 32B	LP-13 LP-13 LP-13 LP-14 LP-14 LP-13 LP-13 LP-14 LP-14 LP-13 LP-13 LP-14 LP-14 LP-14 LP-13	1123, 1125, 1169 1123, 1125, 1169 1123, 1125, 1169 1123, 1125, 1169 1123, 1125, 1169 1123, 1125, 1169 1123, 1125, 1169 1125, 1172 1125, 1172 1123, 1125, 1169 1123, 1125, 1169 1123, 1125, 1172 1125, 1172 1125, 1172 1123, 1125, 1172 1071, 1091, 1123, 1125, 1172	
Q26806H	VAR INJT ACT POS	PCT	0	100	1050037	1			1	1	1				71		32B	LP-13	1123, 1125, 1127, 1137, 1154	
GR1085Q GR1095Q GR1101P GR1102P GR1201P GR2121T GR2122T GR2201P	RCS PROP A QTY RCS PROP B QTY RCS A HE PRESS RCS B HE PRESS RCS A REG PRESS RCS A FUEL TEMP RCS B FUEL TEMP A FUEL MFLD PRESS	PCT PCT PSIA PSIA PSIA °F °F PSIA	0 0 0 0 0 20 20 0	103.5 103.5 3500 3500 350 120 120 350	1042069 1038069 1033037 1033005 1030005 1018037 1020037 1004069	1 1 1 1 1 1 1 1			.2 .2 .2 .2 .2 .1 .1 1	.2 .2 .2 .2 .2 .1 .1 1	.2 .2 .2 .2 .2 .1 .1 1				48 48 28A 28A 28A 28A 28A 28C	48 48 28A 28A 28A 28A 28A 28C	LP-15 LP-15 LP-15 LP-15 LP-15 LP-15 LP-15 LP-15	1123, 1125, 1166 1166 1123, 1125, 1166 1123, 1125, 1166 1123, 1125, 1166 1125, 1166 1125, 1166 1123, 1166		
GR2202P	B FUEL MFLD PRESS	PSIA	0	350	1004101	1			1	1	1				71	28C		LO-5 LO-6	1123, 1166	
GR3201P	A OX MFLD PRESS	PSIA	0	350	1006069	1			1	1	1				71	28C		LO-4 LO-6	1123, 1125, 1166	
GR3202P	B OX MFLD PRESS	PSIA	0	350	1010101	1			1	1	1				71	28C		LO-5 LO-6	1123, 1125, 1169	
GR5031X GR5032X GR5033X GR5034X GR5035X GR5036X GR5037X GR5038X GR5039X GR5040X GR5041X GR5042X GR5043X GR5044X GR5045X GR5046X	RCS TCP B4U RCS TCP A4D RCS TCP B4F RCS TCP A4R RCS TCP A3U RCS TCP B3D RCS TCP B3A RCS TCP A3R RCS TCP B2U RCS TCP A2D RCS TCP A2A RCS TCP B2L RCS TCP A1D RCS TCP B1D RCS TCP A1F RCS TCP B1L	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	CN CN CN CN CN CN CN CN CN CN CN CN CN CN CN CN	2201006A 2201006B 2201006C 2201006D 2201006E 2201006F 2201006G 2201006H 2201007A 2201007B 2201007C 2201007D 2201007E 2201007F 2201007G 2201007H				SPECIAL PROCESSING SPECIAL PROCESSING SPECIAL PROCESSING SPECIAL PROCESSING SPECIAL PROCESSING SPECIAL PROCESSING SPECIAL PROCESSING SPECIAL PROCESSING SPECIAL PROCESSING SPECIAL PROCESSING SPECIAL PROCESSING SPECIAL PROCESSING SPECIAL PROCESSING SPECIAL PROCESSING SPECIAL PROCESSING										43 43 43 43 43 43 43 43 43 43 41 43 43 43 43 43	LO-5 LO-4 LO-5 LO-4 LO-5 LO-5 LO-4 LO-5 LO-4 LO-4 LO-4 LO-4 LO-4 LO-5 LO-4 LO-5	1091 1091 1091 1091 1091 1091 1091 1091 1091 1091 1091 1091 1091 1091 1091 1091
GR6001T GR6002T GR6003T GR6004T	QUAD 4 TEMP QUAD 3 TEMP QUAD 2 TEMP QUAD 1 TEMP	°F °F °F °F	20 20 20 20	200 200 200 200	1003005 1010005 1022005 1023005	1 1 1 1			.1 .1 .1 .1	.1 .1 .1 .1	.1 .1 .1 .1				71 71 71 71	28B 28B 28B 28B		LP-16 LP-16 LP-16 LP-16	1091, 1123, 1125, 1169 1123, 1125, 1169 1123, 1125, 1169 1123, 1125, 1169	
GR6009U GR6010U GR6013U GR6031U GR6032U GR6041U GR6042U	RCS MAIN A CLSD RCS MAIN B CLSD A/B XFEEED OPEN FUEL INCONT A OPN FUEL INCONT B OPN OXID INCONT A OPN OXID INCONT B OPN	OPEN OPEN CLSD CLSD CLSD CLSD CLSD			1013098F 1013098E 1013098B 1013098D 1013098C 1013098H 1013098G	1 1 1 1 1 1 1			.1 .1 .1 .1 .1 .1 .1	.1 .1 .1 .1 .1 .1 .1	.1 .1 .1 .1 .1 .1 .1				49 49 49 49 49 49 49				1123, 1125, 1172 1123, 1125, 1172 1123, 1125, 1172 1123, 1125, 1172 1123, 1125, 1172 1123, 1125, 1172 1123, 1125, 1172	
GR6061U GR6062U GR6063U GR6064U GR6065U GR6066U GR6067R GR6068U	4A ISO CLSD 4B ISO CLSD 3A ISO CLSD 3B ISO CLSD 2A ISO CLSD 2B ISO CLSD 1A ISO CLSD 1B ISO CLSD	OPEN OPEN OPEN OPEN OPEN OPEN OPEN OPEN			1048098H 1048098C 1048098F 1048098E 1048098D 1048098C 1048098B 1048098A	1 1 1 1 1 1 1 1			.1 .1 .1 .1 .1 .1 .1 .1	.1 .1 .1 .1 .1 .1 .1 .1	.1 .1 .1 .1 .1 .1 .1 .1				49 49 49 49 49 49 49 49				1127, 1163 1127, 1163 1127, 1163 1127, 1163 1127, 1163 1127, 1163 1127, 1163 1127, 1163	
GT0441X GT0454T	DUA STATUS ST ANT ELEC ASSY				5101097 1028101	60 1						.1 .1	.1 .1			50 29A			1091 LP-17	1001, 1002, 1071, 1091, 1468
GT0992B	S-BND ST PH ERROR	DEG	-90	90	1048037	1			.1	.1	.1				70	29A		LP-17	1001, 1002, 1081, 1091, 1468	
GT0993B	S-BND XMTR PO	KHZ	1130	1250	1050101	1			.1	.1	.1				70	29A		LP-17	1001, 1002, 1081, 1091, 1468	

TABLE IV.- LUNAR MODULE TELEMETRY DATA SUMMARY - Concluded

Measurement					Loading number	MSFN format Sample rates, S/S										Summary TWX number	PCM analog tabs and plots		Strip chart record setup number	Primary MSK number
Number	Title	Unit	Range			1	2	3	4	5	6	7	8	9	10		STD	SP		
			Low	High																
GT0994V	S-BND RCVR SIG	VDC	0	5	1040005					1						70	29A		LP-17	1001, 1002, 1081, 1091, 1468
GY0050X	ABORT CMD		NO	YES	1014098H	1				1	1	5					50			1001, 1002, 1081, 1091, 1127, 1157
GY0201X	ED SYS A REL XFER		NO	YES	1014098C	1				1	1	5					50			1001, 1002, 1081, 1091
GY0202X	ED SYS B REL XFER		NO	YES	1014098B	1				1	1	5					50			1001, 1002, 1081, 1091
GY0231X	SYS A FED REL CLSD		OPEN	CLSD	1014098E	1				1	1	5					50			1001, 1002, 1081, 1091
GY0232X	SYS B FED REL CLSD		OPEN	CLSD	1014098D	1				1	1	5					50			1001, 1002, 1081, 1091
GT8101V	EVCS 1 CAL 0 PCT	VDC	0	5						.1	.1	.1								1310
GT8102V	EVCS 1 CAL 100 PCT	VDC	0	5						.1	.1	.1								1310
GT8110P	PLSS FEED NO 1 H2O	PSIA	0	5						.5	1	5					34A		LP-18	1302, 1310
GT8124J	EKG NO 1	VDC	0	5															LP-20	1310
GT8140C	PLSS BATTERY CUR- RENT NO 1	AMP	0	10						1	1	1					34A		LP-18	1310, 1316
GT8141V	PLSS NO 1 BATTERY	VDC	12	20.5						.2	.5	.2					34A		LP-18	1310, 1316
GT8154T	LCG H2O INLET NO 1	°F	40	90						.5	1	.2					34B		LP-18	1310
GT8168P	PGA 02 NO 1	PSIA	2.5	5.0						1	1	1					34B		LP-18	1310
GT8170T	FLSS 1 SUB 02 OUT	°F	40	90						.2	.5	.1					34B		LP-18	1310
GT8182T	PLSS 02 SUPPLY NO 1	PSIA	0	1110						.2	.5	.2					34A		LP-18	1301, 1310
GT8196T	LCG H2O DELTA T	°F	0	15						.5	1	5					34B		LP-18	1310
GT8201V	EVCS 2 CAL 0 PCT	VDC	0	5						.1	.1	.1								1310
GT8202V	EVCS 2 CAL 100 PCT	VDC	0	5						.1	.1	.1								1310
GT8210P	PLSS NO 2 FEED H2O	PSIA	0	5						.5	1	5					34A		LP-19	1302, 1310
GT8224J	EKG NO 2	VDC	0	5															LP-20	1310
GT8240C	FLSS-BATTERY CUR- RENT NO 2	AMP	0	10						1	1	1					34A		LP-19	1310, 1326
GT8241V	PLSS NO 2 BATTERY	VDC	12	20.5						.2	.5	.2					34A		LP-19	1310, 1326
GT8254T	LCG H2O INLET NO 2	°F	40	90						.5	1	.2					34B		LP-19	1310
GT8268P	PGA 02 NO 2	PSIA	2.5	5.0						1	1	1					34B		LP-19	1310
GT8270T	FLSS 2 SUB 02 OUT	°F	40	90						.2	.5	.1					34B		LP-19	1310
GT8282P	FLSS 02 SUPPLY NO 2	PSIA	0	1110						.2	.5	.2					34A		LP-19	1301, 1310
GT8296T	LCG H2O DELTA T	°F	0	15						.5	1	5					34B		LP-19	1310

TABLE V.- COMMAND AND SERVICE MODULE TELEMETRY DATA SUMMARY

Measurement					Loading number	MSFN format Sample rates, S/S										Summary TWX number	PCM analog tabs and plots		Strip chart record setup number	Primary MSK number
Number	Title	Unit	Range			1	2	3	4	5	6	7	8	9	10		STD	SP		
			Low	High																
CA1820T	TEMP CREW HS ABL SUR LOC 1A	°F	-300.0	+850.0	1022084	1	.2	-	-	.1	.1	-	.1	.1	.1	3	1A	CP-1	404	
CA1821T	TEMP CREW HS ABL SUR LOC 4A	°F	-300.0	+850.0	1024052	1	.1	-	-	.1	.1	-	.1	.1	.1	3	1A	CP-1	404	
CA1822T	TEMP CREW HS ABL SUR LOC 7A	°F	-300.0	+850.0	1025084	1	.1	-	-	.1	.1	-	.1	.1	.1	3	1A	CP-1	404	
CA1823T	TEMP CREW HS ABL SUR LOC 10A	°F	-300.0	+850.0	1027052	1	.1	-	-	.1	.1	-	.1	.1	.1	3	1A	CP-1	404	
SA1830T	TEMP SM SKIN SURF LOC 1A	°F	-109.0	+264.0	1014052	1	-	-	-	.5	.1	-	.1	.1	.5	3	2A	CP-2		
SA1831T	TEMP SM SKIN SURF LOC 4A	°F	-109.0	+264.0	1048084	1	-	-	-	.5	.1	-	.1	.1	.5	3	2A	CP-2		
SA1832T	TEMP SM SKIN SURF LOC 7A	°F	-109.0	+264.0	1014084	1	-	-	-	.5	.1	-	.1	.1	.5	3	2A	CP-2		
SA1833T	TEMP SM SKIN SURF LOC 10A	°F	-109.0	+264.0	1049052	1	.1	-	-	.1	.1	-	.1	.1	.1	3	2A	CP-2		
SA2377T	TEMP BAY 2 OX TANK SURFACE	°F	-100.0	+200.0	1048052	1	.1	-	-	.1	.1	-	.1	.1	.1	3,5	2A	CP-2	674, 884	
SA2378T	TEMP BAY 3 OX TANK SURFACE	°F	-100.0	+200.0	1046084	1	.1	-	-	.1	.1	-	.1	.1	.1	3,5	2A	CP-2	674, 884	
SA2379T	TEMP BAY 5 FUEL TANK SURFACE	°F	-100.0	+200.0	1047052	1	.1	-	-	.1	.1	-	.1	.1	.1	3,5	2A	CP-2	674, 884	
SA2380T	TEMP BAY 6 FUEL TANK SURFACE	°F	-100.0	+200.0	1047084	1	.1	-	-	.1	.1	-	.1	.1	.1	3,5	2A	CP-2	674, 884	
SC0030Q	QUANTITY H2 TANK 1	PCT	.0000	100.0	1047116	1	.1	-	-	.1	.1	-	.1	.5	.1	4	4B	CP-6	554, 613	
SC0031Q	QUANTITY H2 TANK 2	PCT	.0000	100.0	1048116	1	.1	-	-	.1	.1	-	.1	.5	.1	4	4B	CP-6	554, 613	
SC0032Q	QUANTITY O2 TANK 1	PCT	.0000	100.0	1049116	1	.1	-	-	.1	.1	-	.1	.5	.1	4	4B	CP-6	554, 613	
SC0033Q	QUANTITY O2 TANK 2	PCT	.0000	100.0	1014116	1	.1	-	-	.1	.1	-	.1	.5	.1	4	4B	CP-6	554, 613	
SC0037P	PRESS O2 TANK 1	PSIA	0	1100	1050116	1	.2	-	-	.2	.2	-	.5	.5	.2	4	4B	CP-6	554, 613	
SC0038P	PRESS O2 TANK 2	PSIA	0	1100	1022116	1	.2	-	-	.2	.2	-	.5	1.0	.2	4	4B	CP-6	554, 613	
SC0039P	PRESS H2 TANK 1	PSIA	0	350	1012116	1	.2	-	-	.2	.2	-	.5	1.0	.2	4	4B	CP-6	554, 613	
SC0040P	PRESS H2 TANK 2	PSIA	0	350	1013116	1	.2	-	-	.2	.2	-	.5	1.0	.2	4	4B	CP-6	554, 613	
SC0041T	TEMP O2 TANK 1	°F	-325.0	+80.00	1018116	1	.1	-	-	.1	.2	-	.1	.5	.1	4	4E	CP-9	554, 613	
SC0042T	TEMP O2 TANK 2	°F	-325.0	+80.00	1019116	1	.1	-	-	.1	.1	-	.1	.5	.1	4	4E	CP-9	554, 613	
SC0043T	TEMP H2 TANK 1	°F	-425.0	-200.0	1020116	1	.1	-	-	.1	.1	-	.1	.5	.1	4	4E 22AA	CP-9	554, 613	
SC0044T	TEMP H2 TANK 2	°F	-425.0	-200.0	1021116	1	.1	-	-	.1	.1	-	.1	.5	.1	4	4E	CP-9	554, 613	
CC0175T	TEMP STATIC INVERTER 1	°F	+32.00	+248.0	1029084	1	.1	-	-	.1	.1	-	.1	.5	.1	3	3A	CP-3	443, 524	
CC0176T	TEMP STATIC INVERTER 2	°F	+32.00	+248.0	1030052	1	.1	-	-	.1	.1	-	.1	.5	.1	3	3A	CP-3	443, 524	
CC0177T	TEMP STATIC INVERTER 3	°F	+32.00	+248.0	1030084	1	.1	-	-	.1	.1	-	.1	.5	.1	3	3A	CP-3	443, 524	
CC0200V	AC VOLTAGE MAIN BUS 1 PHASE A	VAC	0.0	+150.0	1105011	5	.2	-	-	.2	.5	-	.2	1.0	.2	3	3B 22AA	CP-4	443, 518, 524	
CC0203V	AC VOLTAGE MAIN BUS 2 PHASE A	VAC	0.0	+150.0	1102074	5	.2	-	-	.2	.5	-	.2	1.0	.2	3	3B	CP-4	443, 518, 524	
CC0206V	DC VOLTAGE MAIN BUS A	VDC	0.0	+45.00	1102075	5	.2	-	-	.2	.5	-	.2	1.0	.2	3	3B	CP-4	443, 518, 524, 544, 574, 584, 594	
CC0207V	DC VOLTAGE MAIN BUS B	VDC	0.0	+45.00	1102076	5	.2	-	-	.2	.5	-	.2	1.0	.2	3	3B	CP-4	443, 518, 524, 544, 574, 584, 594	
CC0210V	DC VOLTAGE BATTERY BUS A	VDC	0.0	+45.00	1103073	5	.2	-	-	.2	.5	-	.2	1.0	.2	3	3B	CP-4	443, 518, 524	
CC0211V	DC VOLTAGE BATTERY BUS B	VDC	0.0	+45.00	1103075	5	.2	-	-	.2	.5	-	.2	1.0	.2	3	3B	CP-4	443, 518, 524	
CC0215C	DC CURRENT BATT CHARGER OUT	AMP	0.0	+5.000	1103009	5	.1	-	-	.2	.1	-	.2	1.0	.2	3	3A	CP-3	518, 524	
CC0222C	DC CURRENT BATTERY A	AMP	0.0	+100.0	1103010	5	.1	-	-	.2	.1	-	.2	1.0	.2	3	3A	CP-3	443, 518, 524	
CC0223C	DC CURRENT BATTERY B	AMP	0.0	+100.0	1104009	5	.1	-	-	.2	.1	-	.2	1.0	.2	3	3A	CP-3	443, 518, 524	
CC0224C	DC CURRENT BATTERY C	AMP	0.0	+100.0	1104010	5	.2	-	-	.2	.2	-	.2	1.0	.2	3	3A	CP-3	443, 518, 524	
CC0232V	DC VOLTAGE BATTERY RELAY BUS	VDC	0.0	+45.00	1103011	5	.2	-	-	.2	.2	-	.2	1.0	.2	3	3B	CP-4	443, 518, 524	
SC2060P	N2 PRESSURE FC 1 REGULATED	PSIA	0.0	75.00	1101106	1	.2	-	-	.2	.1	-	.2	1.0	.2	3	4C	CP-7	443, 518, 544, 574	
SC2061P	N2 PRESSURE FC 2 REGULATED	PSIA	0.0	75.00	1101107	1	.2	-	-	.2	.1	-	.2	1.0	.2	3	4C	CP-7	443, 518, 544, 584	
SC2062P	N2 PRESSURE FC 3 REGULATED	PSIA	0.0	75.00	1101123	1	.2	-	-	.2	.1	-	.2	1.0	.2	3	4C	CP-7	443, 518, 544, 594	
SC2066P	O2 PRESSURE FC 1 REGULATED	PSIA	0.0	75.00	1102108	1	.2	-	-	.2	.1	-	.2	1.0	.2	3	4C	CP-7	518, 574	
SC2067P	O2 PRESSURE FC 2 REGULATED	PSIA	0.0	75.00	1102113	1	.2	-	-	.2	.1	-	.2	1.0	.2	3	4C	CP-7	518, 584	
SC2068P	O2 PRESSURE FC 3 REGULATED	PSIA	0.0	75.00	1102121	1	.2	-	-	.2	.1	-	.2	1.0	.2	3	4C	CP-7	518, 594	
SC2069P	H2 PRESSURE FC 1 REGULATED	PSIA	0.0	75.00	1102122	1	.2	-	-	.2	.1	-	.2	1.0	.2	3	4C	CP-7	518, 574	
SC2070P	H2 PRESSURE FC 2 REGULATED	PSIA	0.0	75.00	1102123	1	.2	-	-	.2	.1	-	.2	1.0	.2	3	4C	CP-7	518, 584	
SC2071P	H2 PRESSURE FC 3 REGULATED	PSIA	0.0	75.00	1102124	1	.2	-	-	.2	.1	-	.2	1.0	.2	3	4D	CP-8	518, 594	