

UNITED STATES GOVERNMENT

Memorandum

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FROM : Chief, NASA/KSC Data Office, IN-DAT-1

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SUBJECT: SA-204/LM-1 Data Evaluation Guide, Revision No. 2

Insert the following pages in the SA-204/LM-1 Data Evaluation Guide, Document No. GP-337.

Appendix

Page No.

C
D
G
Y

ii
3
17-18, 21-24, 27-32, 43-44
3-4, 7-8, 11-14, 19-20, 23-24
7-8
*1-31

* These pages replace the entire appendix.

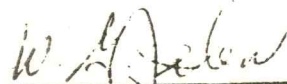
W. G. Jelen
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GP-337

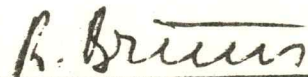
APPROVAL
SA-204/LM-1
DATA EVALUATION GUIDE

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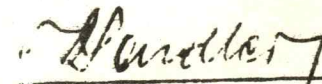


W. G. Jelen, Chief
NASA/KSC Data Office

APPROVED BY:



Dr. R. H. Bruns, Chief
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KARL SENDLER
Director, Information Systems

LIST OF EFFECTIVE PAGES

The total number of pages in this publication is 158, consisting of the following:

<u>Issue</u>	<u>Appendix</u>	<u>Page Number</u>	<u>Update Level</u>
Original		i	
Revision 2		ii	
Original		1-2	
Revision 2		3	
Original		4-17	
Revision 1	C	1-16, 19-20, 25-26, 33-42, 45-46	EOAS
Revision 2	C	17-18, 21-24, 27-32, 43-44	EOAS
Revision 1	D	1-2, 5-6, 9-10, 15-18, 21-22, 25-26	EO74
Revision 2	D	3-4, 7-8, 11-14, 19-20, 23-24	EO74
Original	G	9-10, 23-28, 33-35	EO96
Revision 1	G	1-6, 11-22, 29-32	EO96
Revision 2	G	7-8	EO96
Revision 2	Y	1-31	Rev. B

SA-204/LM-1 MEASUREMENTS SUMMARY

DESIGNATION	S-IB	S-IVB	S-IU	LM
ACCELERATION	3	1	4	6
ACOUSTICS	1	6	1	0
ANGULAR VELOCITY	3	0	32	0
FLOW	0	4	12	0
GUIDANCE & CONTROL	0	0	46	0
LIQUID LEVEL	18	6	0	0
MISCELLANEOUS	0	30	0	31
POSITION	0	8	13	5
PRESSURE	101	130	9	106
QUANTITY	0	0	0	6
RF & TELEMETERING	2	0	20	0
RPM	8	2	0	0
SIGNALS	60	76	64	57
STRAIN	26	32	0	17
TEMPERATURE	86	145	66	136
VELOCITY & RATES	0	0	0	0
VIBRATION	62	30	23	26
VOLTS, AMPS & FREQ	26	45	24	82
TOTALS	396	515	314	472

DATA EVALUATION GUIDE FORMAT

HEADING DESCRIPTION

MEASUREMENT ID NUMBER BASED ON MEASUREMENT TYPE, LOCATION AND SEQUENCE. SEE PAGES 5 AND 6.
NUMBER

DISPLAY REQUEST CALL UP NUMBER FOR MISSION SUPPORT ROOM (CIF-ROOM 307). THE FIRST 4 DIGITS REPRESENT OCTAL DATA CORE
NUMBER ADDRESS. THE 5TH DIGIT REPRESENTS THE BIT NUMBER (FOR RI-LEVELS ONLY).

PC PROCESSING CODE WILL APPEAR IF MEASUREMENT IS TO BE PROCESSED BY THE GF635 COMPUTER.

CODE	TYPE PROCESSING	OUTPUT
B	RI-LEVEL	TAB
E	ENGINEERING UNITS	SC4020 PLOT + TAB
P	PER CENT OF FULL SCALE	SC4020 PLOT + TAB
G	GUIDANCE	SC4020 PLOT + TAB

TELEMETRY ID NUMBER BASED ON TELEMETRY ASSIGNMENT. SEE PAGES 7 THRU 13.
CHANNEL

MEASUREMENT BRIEF SUMMARY OF MEASUREMENT TYPE AND LOCATION.
DESCRIPTION

RECORD NUMBER KSC RECORD NUMBER OF STRIP CHART ON WHICH MEASUREMENT WILL APPEAR.

TC-XX	S-IVB TELEMETRY RECORD (XX-SEQUENCE NUMBER)
TD-XX	IU TELEMETRY RECORD
TG-XX	S-IB TELEMETRY RECORD
TY-XX	LM TELEMETRY RECORD

TR NO TRACE NUMBER

RANGE/REMARKS TRANSDUCER OPERATING RANGE IN ENGINEERING UNITS AND REMARKS.

DATE 28 JUL 67

DATA EVALUATION GUIDE
SA-204/LM-1

S-IVB

* MEASUREMENT * NUMBER	* DISPLAY* P * REQUEST* C * NUMBER *	* TELEMETRY * CHANNEL	* MEASUREMENT * DESCRIPTION	* RECORD* TR * NUMBER* NO	* RANGE/REMARKS
* D0054-410*	* 1520	* E * CF1A1-17-08 * CP1A1-17-08-00	* PRESS-FUEL TANK INLET	* TC-006* 05 * TC-058* 05	* 0/100 PSIA
* D0055-424*	* 1700	* E * CF2A2-15-10 * CP1A2-15-10-00	* PRESS-OXIDIZER TANK INLET	* TC-005* 06 * TC-057* 06	* 0/300 PSIA
* D0057-401*	* 2403	* E * CF3B0-16-09 * DP1B0-16-09-00	* PRESS-PU VALVE OUTLET	* TC-018* 02 * TC-070* 02	* 0/500 PSIA
* D0058-401*	* 2404	* E * CF3B0-16-10 * DP1B0-16-10-00	* PRESS-PU VALVE INLET	* TC-018* 01 * TC-070* 01	* 0/1000 PSIA
* D0061-424*	* 2265	* E * CF3B0-08-01 * DP1B0-08-01-00	* PRES-LOX CIRC RET LINE TK INLT	* TC-016* 04 * TC-068* 04	* 0/100 PSIA
* D0062-424*	* 2266	* E * CF3B0-08-02 * DP1B0-08-02-00	* PRES-LH2 CIRC RET LINE TK INLT	* TC-016* 08 * TC-068* 08	* 0/50 PSIA
* D0063-414*	* 1002	* E * CF2A2-01-00 * CP1A2-01-00-00	* PRESS-FUEL SUP MANF MOD 1 (APS)	* TC-029* 05 * TC-081* 05	* 0/400 PSIA
* D0064-414*	* 2354	* E * CF3B0-14-06 * DP1B0-14-06-00	* PRESS-HE REG INLET MOD 1 (APS)	* TC-028* 01 * TC-080* 01	* 0/3500 PSIA
* D0065-414*	* 2146	* E * CF3B0-01-00 * DP1B0-01-00-00	* PRESS-HE REG OUTLET MOD 1 (APS)	* TC-031* 05 * TC-083* 05	* 0/400 PSIA
* D0066-415*	* 1005	* E * CF2A2-06-00 * CP1A2-06-00-00	* PRESS-OXID SUP MANF MOD 2 (APS)	* TC-030* 04 * TC-082* 04	* 0/400 PSIA
* D0067-415*	* 1006	* E * CF2A2-07-00 * CP1A2-07-00-00	* PRESS-FUEL SUP MANF MOD 2 (APS)	* TC-031* 03 * TC-083* 03	* 0/400 PSIA
* D0068-415*	* 2416	* E * CF3B0-21-10 * DP1B0-21-10-00	* PRESS-HE REG INLET MOD 2 (APS)	* TC-029* 07 * TC-081* 07	* 0/3500 PSIA
* D0069-415*	* 2147	* E * CF3B0-02-00 * DP1B0-02-00-00	* PRESS-HE REG OUTLET MOD 2 (APS)	* TC-031* 06 * TC-083* 06	* 0/400 PSIA

DATA EVALUATION GUIDE
SA-204/LM-1

S-IVB

MEASUREMENT NUMBER	DISPLAY REQUEST NUMBER	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
D0078-414	1036	E	CF3-12	PRESS-ATT CONTROL CHAMBER 1-1	TC-004	11	0/200 PSIA
	2022		CP1A3-20-00-00		TC-110	03	
			CP1A3V02-02-00		TC-111	01	
D0079-414	1037	E	CF1-12	PRESS-ATT CONTROL CHAMBER 1-2	TC-002	11	0/200 PSIA
	2022		CP1A3-21-00-00		TC-110	04	
			CP1A3V02-02-00		TC-111	01	
D0080-414	1040	E	CF2-11	PRESS-ATT CONTROL CHAMBER 1-3	TC-003	10	0/200 PSIA
	2021		CP1A3-22-00-00		TC-110	05	
			CP1A3V02-01-00		TC-111	02	
D0081-415	1041	E	CF3-11	PRESS-ATT CONTROL CHAMBER 2-1	TC-004	10	0/200 PSIA
	2021		CP1A3-23-00-00		TC-110	06	
			CP1A3V02-01-00		TC-111	02	
D0082-415	1042	E	CF2-12	PRESS-ATT CONTROL CHAMBER 2-2	TC-003	11	0/200 PSIA
	2022		CP1A3-24-00-00		TC-110	07	
			CP1A3V02-02-00		TC-111	01	
D0083-415	1043	E	CF3-15	PRESS-ATT CONTROL CHAMBER 2-3	TC-004	14	0/200 PSIA
	2025		CP1A3-25-00-00		TC-110	08	
			CP1A3V02-05-00		TC-111	03	
D0084-414	1004	E	CF2A2-04-00	PRESS-OXID SUP MANF MOD 1 (APS)	TC-028	06	0/400 PSIA
			CP1A2-04-00-00		TC-080	06	
D0085-401	2317	E	CF3B0-10-07	PRESS-OXID PUMP PRIM SEAL CAV	TC-017	08	0/50 PSIA
			DP1B0-10-07-00		TC-069	08	
D0086-401	2320	E	CF3B0-10-08	PRESS-OXIDIZER TURBINE OUTLET	TC-017	04	0/100 PSIA
			DP1B0-10-08-00		TC-069	04	
D0089-414	1547	E	CF2A2-02-01	PRESS-FUEL TK ULLAGE MOD 1 APS	TC-028	08	0/400 PSIA
			CP1A2-02-01-00		TC-080	08	
D0090-414	1550	E	CF2A2-02-02	PRESS-OXID TK ULLAGE MOD 1 APS	TC-028	03	0/400 PSIA
			CP1A2-02-02-00		TC-080	03	

DATA EVALUATION GUIDE
SA-204/LM-1

S-IVB

MEASUREMENT NUMBER	DISPLAY REQUEST NUMBER	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
D0125-419	2411	E	CF3B0-21-05 DP1B0-21-05-00	PRESS-EXTERNAL-AFT INTERSTG 5	TC-036	04	0/15 PSIA
D0126-419	2412	E	CF3B0-21-06 DP1B0-21-06-00	PRESS-EXTERNAL-AFT INTERSTG 6	TC-036	05	0/15 PSIA
D0127-414	1725	E	CF2A2-18-01 CP1A2-18-01-00	PRESS-EXTERNAL-APS 1	TC-037	04	0/15 PSIA
D0128-414	1726	E	CF2A2-18-02 CP1A2-18-02-00	PRESS-EXTERNAL-APS 2	TC-037	05	0/15 PSIA
D0129-414	1727	E	CF2A2-18-03 CP1A2-18-03-00	PRESS-EXTERNAL-APS 3	TC-037	06	0/15 PSIA
D0130-414	1730	E	CF2A2-18-04 CP1A2-18-04-00	PRESS-EXTERNAL-APS 4	TC-037	07	0/15 PSIA
D0131-414	1733	E	CF2A2-18-07 CP1A2-18-07-00	PRESS-EXTERNAL-APS 5	TC-037	08	0/15 PSIA
D0132-427	1734	E	CF2A2-18-08 CP1A2-18-08-00	PRESS-EXTERNAL-APS 6	TC-038	01	0/15 PSIA
D0133-414	1735	E	CF2A2-18-09 CP1A2-18-09-00	PRESS-EXTERNAL-APS 7	TC-038	02	0/15 PSIA
D0134-427	1736	E	CF2A2-18-10 CP1A2-18-10-00	PRESS-EXTERNAL-APS 8	TC-038	03	0/15 PSIA
D0135-427	1763	E	CF2A2-21-01 CP1A2-21-01-00	PRESS-EXT-LH2 LINE FAIRING 1	TC-039	01	0/15 PSIA
D0136-427	1764	E	CF2A2-21-02 CP1A2-21-02-00	PRESS-EXT-LH2 LINE FAIRING 2	TC-039	02	0/15 PSIA
D0137-427	1765	E	CF2A2-21-03 CP1A2-21-03-00	PRESS-EXT-LH2 LINE FAIRING 3	TC-039	03	0/15 PSIA

DATA EVALUATION GUIDE
SA-204/LM-1

S-IVB

* MEASUREMENT * NUMBER	* DISPLAY* P * REQUEST* C * NUMBER * *	* TELEMETRY * CHANNEL	* MEASUREMENT * DESCRIPTION	* RECORD* TR * * NUMBER* NO * * RANGE/REMARKS
D0138-427*	1766	E	CF2A2-21-04 CP1A2-21-04-00	TC-039* 04 * 0/15 PSIA TC-091* 04 *
D0139-427*	1767	E	CF2A2-21-05 CP1A2-21-05-00	TC-039* 05 * 0/15 PSIA TC-091* 05 *
D0140-427*	1770	E	CF2A2-21-06 CP1A2-21-06-00	TC-039* 06 * 0/15 PSIA TC-091* 06 *
D0141-427*	1771	E	CF2A2-21-07 CP1A2-21-07-00	TC-039* 07 * 0/15 PSIA TC-091* 07 *
D0142-427*	1772	E	CF2A2-21-08 CP1A2-21-08-00	TC-039* 08 * 0/15 PSIA TC-091* 08 *
D0143-403*	2302	E	CF3B0-09-04 DP1B0-09-04-00	TC-035* 06 * 0/.3 PSIA TC-087* 06 *
D0144-403*	2303	E	CF3B0-09-05 DP1B0-09-05-00	TC-035* 07 * 0/.3 PSIA TC-087* 07 *
D0145-414*	1556	E	CF2A2-02-08 CP1A2-02-08-00	TC-038* 04 * 0/15 PSIA TC-090* 04 *
D0146-427*	1557	E	CF2A2-02-09 CP1A2-02-09-00	TC-038* 05 * 0/15 PSIA TC-090* 05 *
D0147-414*	1560	E	CF2A2-02-10 CP1A2-02-10-00	TC-038* 06 * 0/15 PSIA TC-090* 06 *
D0148-414*	1651	E	CF2A2-13-07 CP1A2-13-07-00	TC-038* 07 * 0/15 PSIA TC-090* 07 *
D0149-427*	1652	E	CF2A2-13-08 CP1A2-13-08-00	TC-038* 08 * 0/15 PSIA TC-090* 08 *
D0150-426*	1402	E	CF1A1-07-10 CP1A1-07-10-00	TC-035* 03 * 0/15 PSIA TC-087* 03 *

DATE 16 JAN 68

APPENDIX C

PAGE 022

DATA EVALUATION GUIDE
SA-204/LM-1

S-IVB

* MEASUREMENT * NUMBER	* DISPLAY* * REQUEST* * NUMBER	* P * C	* TELEMETRY * CHANNEL	* MEASUREMENT * DESCRIPTION	* RECORD* * NUMBER	* TR * NO	* RANGE/REMARKS
D0151-426*	1333	E	CF1A1-03-01 CP1A1-03-01-00	PRESS-EXTERNAL-FWD SKIRT 11	TC-035*	04	0/15 PSIA
D0152-426*	1334	E	CF1A1-03-02 CP1A1-03-02-00	PRESS-EXTERNAL-FWD SKIRT 12	TC-087*	04	
D0157-402*	2413	E	CF3B0-21-07 DP1B0-21-07-00	PRESS-INTERSTAGE INTERNAL 1	TC-035*	05	0/15 PSIA
D0158-402*	2414	E	CF3B0-21-08 DP1B0-21-08-00	PRESS-INTERSTAGE INTERNAL 2	TC-087*	05	
D0159-402*	2415	E	CF3B0-21-09 DP1B0-21-09-00	PRESS-INTERSTAGE INTERNAL 3	TC-036*	06	0/15 PSIA
D0160-403*	2401	E	CF3B0-16-07 DP1B0-16-07-00	PRESS-INTERSTAGE INTERNAL 3	TC-088*	06	
D0161-403*	1654	E	CF3B0-16-07 DP1B0-16-07-00	PRESS-HELIUM (AMBIENT) SPHERE	TC-036*	07	0/15 PSIA
D0177-410*	1413	E	CF2A2-13-10 CP1A2-13-10-00	PRESS-HEAT EXCHANGER OUTLET	TC-088*	07	
D0178-410*	1414	E	CF1A1-08-09 CP1A1-08-09-00	PRESS-FUEL TANK ULLAGE EDS 1	TC-007*	08	0/15 PSIA
D0179-424*	2276	E	CF1A1-08-10 CP1A1-08-10-00	PRESS-FUEL TANK ULLAGE EDS 2	TC-088*	08	
D0180-424*	2350	E	CF3B0-08-10 DP1B0-08-10-00	PRESS-OXID TANK ULLAGE EDS 1	TC-036*	08	0/15 PSIA
D0183-409*	1477	E	CF3B0-08-10 DP1B0-08-10-00	PRESS-OXID TANK ULLAGE EDS 2	TC-007*	01	0/3500 PSIA
D0184-409*	1500	E	CF1A1-16-01 CP1A1-16-01-00	PRESS-FUEL TK NON-PROP VENT 1	TC-059*	01	
			CF1A1-16-02 CP1A1-16-02-00	PRESS-FUEL TK NON-PROP VENT 2	TC-005*	05	0/650 PSIA
					TC-057*	05	
					TC-041*	07	0/50 PSIA
					TC-093*	07	
					TC-041*	08	0/50 PSIA
					TC-093*	08	
					TC-046*	06	0/50 PSIA
					TC-098*	06	
					TC-046*	07	0/50 PSIA
					TC-098*	07	
					TC-053*	02	0/50 PSIA
					TC-105*	02	
					TC-053*	04	0/50 PSIA
					TC-105*	04	

S-IVB

DATE 16 JAN 68

DATA EVALUATION GUIDE
SA-204/LM-1

S-IVB

MEASUREMENT NUMBER	DISPLAY REQUEST NUMBER	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
F0001-401	2025	*	CF2-15 CP1A3V02-05-00	FLOWMETER-OXIDIZER	TC-003	14	0/3000 GPM
F0002-401	2025	*	CF1-15 CP1A3V02-05-00	FLOWMETER-FUEL	TC-002	14	0/9000 GPM
F0004-424	2365	E	CF380-15-05 DP180-15-05-00	FLOW RATE-OXID CIRCULATION PUMP	TC-015	07	0/50 GPM
F0005-404	2366	E	CF380-15-06 DP180-15-06-00	FLOW RATE-FUEL CIRCULATION PUMP	TC-014	07	0/160 GPM

DATA EVALUATION GUIDE
SA-204/LM-1

S-IVB

MEASUREMENT NUMBER	DISPLAY REQUEST NUMBER	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
60001-403	1003	E	CF2A2-03-00 CP1A2-03-00-00	POS-ACTUATOR PISTON POT PITCH	TC-011	03	+7.5 DEG
60002-403	1007	E	CF2A2-09-00 CP1A2-09-00-00	POSIT-ACTUATOR PISTON POT YAW	TC-011	02	+7.5 DEG
60003-401	2417	E	CF3B0-22-01 DP1B0-22-01-00	POSIT-MAIN OXIDIZER VALVE	TC-018	05	0/100 PERCENT
60004-401	2420	E	CF3B0-22-02 DP1B0-22-02-00	POSIT-MAIN FUEL VALVE	TC-018	03	0/100 PERCENT
60005-401	2421	E	CF3B0-22-03 DP1B0-22-03-00	POSIT-GAS GENERATOR VALVE	TC-010	01	0/100 PERCENT
60008-401	2424	E	CF3B0-22-06 DP1B0-22-06-00	POS-OXID TURBINE BYPASS VALVE	TC-017	01	0/100 PERCENT
60009-401	2427	E	CF3B0-22-09 DP1B0-22-09-00	POSIT-GH2 START VALVE	TC-010	04	0/100 PERCENT
60010-401	2430	E	CF3B0-22-10 DP1B0-22-10-00	POSIT-PU SYSTEM RATIO VALVE	TC-013	08	+40 DEG

DATA EVALUATION GUIDE
SA-204/LM-1

S-IVB

* MEASUREMENT * NUMBER	* DISPLAY* * REQUEST* * NUMBER	* P * C	* TELEMETRY * CHANNEL	* MEASUREMENT * DESCRIPTION	* RECORD* * NUMBER	* TR * NO	* RANGE/REMARKS
K0001-410*	1366	E	CF1A1-05-08 CP1A1-05U08-03	EVENT-FUEL TANK VENT VALVE-CL	TC-008*	05	EVENT-CHAN-C
K0002-424*	1625	E	CF2A2-11-07 CP1A2-11U07-01	EVENT-OXID TANK VENT VALVE-CL	TC-006*	07	EVENT-CHAN-A
K0003-427*	1625	E	CF2A2-11-07 CP1A2-11U07-02	EVENT-FUEL FILL VALVE-CLOSED	TC-006*	07	EVENT-CHAN-B
K0004-404*	1625	E	CF2A2-11-07 CP1A2-11U07-03	EVENT-OXID FILL VALVE-CLOSED	TC-006*	07	EVENT-CHAN-C
K0005-401*	2163 1020	E B	CF3B0-25-00 DP1B0-25U00-01 CP1A3-04600-01	EVENT-MAINSTAGE CONTROL SOL-EN	TC-008*	08	EVENT-CHAN-A
K0006-401*	1020 2162	B E	CF3B0-24-00 CP1A3-04600-02 DP1B0-24U00-01	EVENT-IGN PHASE CONTROL SOL-EN	TC-019*	01	EVENT-CHAN-A
K0007-401*	2017		CF2-09 CP1A3V01U09-03	EVENT-HELIUM CONTROL SOL-EN	TC-003*	08	EVENT-CHAN-C
K0008-401*	2163 1020	E B	CF3B0-25-00 DP1B0-25U00-03 CP1A3-04600-03	EVENT-IGNITION DETECTED	TC-008*	08	EVENT-CHAN-C
K0010-401*	1034 2162	B E	CF3B0-24-00 CP1A3-18600-06 DP1B0-24U00-02	EVENT-THRUST CHAMB SPARK SYS-ON	TC-019*	01	EVENT-CHAN-B
K0011-401*	2162 1034	E B	CF3B0-24-00 DP1B0-24U00-03 CP1A3-18600-07	EVENT-G G SPARK SYSTEM-ON	TC-019*	01	EVENT-CHAN-C
K0012-401*	2422	E	CF3B0-22-04 DP1B0-22U04-01	EVENT-ENGINE READY SIGNAL	TC-019*	08	EVENT-CHAN-A
K0013-401*	2017		CF2-09 CP1A3V01U09-01	EVENT-CUTOFF SIGNAL	TC-003*	08	EVENT-CHAN-A

S-IVB

DATE 16 JAN 68

DATA EVALUATION GUIDE
SA-204/LM-1

S-IVB

MEASUREMENT NUMBER	DISPLAY REQUEST NUMBER	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
K0105-404	2271	E	CF3B0-08-05	EVENT-PUMP PURGE REG BKUP DE-EN	TC-053	08	EVENT-CHAN B
	1034	B	DP1B0-08U05-02		TC-105	08	
			CP1A3-18G00-01				
K0109-403	1624	E	CF2A2-11-06	EVENT-OXIDIZER PRE-VALVE-OPEN	TC-015	08	EVENT-CHAN B
			CP1A2-11U06-02		TC-067	08	
K0110-403	1630	E	CF2A2-11-10	EVENT-OXID PRE-VALVE-CLOSED	TC-014	08	EVENT-CHAN B
			CP1A2-11U10-02		TC-066	08	
K0111-404	1624	E	CF2A2-11-06	EVENT-FUEL PRE-VALVE-OPEN	TC-015	08	EVENT-CHAN C
			CP1A2-11U06-03		TC-067	08	
K0112-404	1630	E	CF2A2-11-10	EVENT-FUEL PRE-VALVE-CLOSED	TC-014	08	EVENT-CHAN C
			CP1A2-11U10-03		TC-066	08	
K0113-411	1521	E	CF1A1-17-09	EVENT-LH2 TANK VENT VLV C-CL	TC-053	07	EVENT-CHAN C
			CP1A1-17U09-03		TC-105	07	
K0114-411	1521	E	CF1A1-17-09	EVENT-LH2 TANK VENT VLV D-CL	TC-053	07	EVENT-CHAN B
			CP1A1-17U09-02		TC-105	07	
K0116-401	2156	E	CF3B0-17-00	EVENT-GAS GENERATOR VALVE-CL	TC-019	03	EVENT-CHAN B
			DP1B0V17U00-02		TC-071	03	
K0117-401	2157	E	CF3B0-18-00	EVENT-GAS GENERATOR VALVE-OPEN	TC-019	02	EVENT-CHAN C
	1033	B	DP1B0-18U00-03		TC-071	02	
			CP1A3-17G00-01				
K0118-401	2156	E	CF3B0-17-00	EVENT-MAIN FUEL VALVE-OPEN	TC-019	03	EVENT-CHAN A
	1033	B	DP1B0-17U00-01		TC-071	03	
			CP1A3-17G00-10				
K0119-401	2157	E	CF3B0-18-00	EVENT-MAIN FUEL VALVE-CLOSED	TC-019	02	EVENT-CHAN B
			DP1B0V18U00-02		TC-071	02	
K0120-401	2157	E	CF3B0-18-00	EVENT-MAIN OXIDIZER VALVE-OPEN	TC-019	02	EVENT-CHAN A
	1034	B	DP1B0-18U00-01		TC-071	02	
			CP1A3-18G00-03				

DATA EVALUATION GUIDE
SA-204/LM-1

S-IVB

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* MEASUREMENT * DISPLAY * P * TELEMETRY * MEASUREMENT * RECORD * TR *
* NUMBER * REQUEST * C * CHANNEL * DESCRIPTION * NUMBER * NO * RANGE/REMARKS *
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* * * * *
* K0121-401* * * CF3B0-19-00 * EVENT-MAIN OXIDIZER VALVE-CL * TC-019* 04 * EVENT-CHAN C *
* * 2160 * E * DP1B0V19U00-03 * * TC-071* 04 * *
* * * * *
* K0122-401* * * CF3B0-19-00 * EVENT-START TANK DISCH VALVE-OP * TC-019* 04 * EVENT-CHAN B *
* * 2160 * E * DP1B0-19U00-02 * * TC-071* 04 * *
* * 1033 * B * CP1A3-17G00-02 * * * *
* * * * *
* K0123-401* * * CF3B0-20-00 * EVENT-START TANK DISCH VLV-CL * TC-019* 06 * EVENT-CHAN C *
* * 2161 * E * DP1B0V20U00-03 * * TC-071* 06 * *
* * * * *
* K0124-401* * * CF3B0-19-00 * EVENT-OXID TURB BYPASS VALVE-OP * TC-019* 04 * EVENT-CHAN A *
* * 2160 * E * DP1B0-19U00-01 * * TC-071* 04 * *
* * 1033 * B * CP1A3-17G00-04 * * * *
* * * * *
* K0125-401* * * CF3B0-20-00 * EVENT-OXID TURB BYPASS VALVE-CL * TC-019* 06 * EVENT-CHAN B *
* * 2161 * E * DP1B0-20U00-02 * * TC-071* 06 * *
* * 1033 * B * CP1A3-17G00-03 * * * *
* * * * *
* K0126-401* * * CF2A2-11-08 * EVENT-OXIDIZER BLEED VALVE-CL * TC-019* 07 * EVENT-CHAN C *
* * 1626 * E * CP1A2V11U08-03 * * TC-071* 07 * *
* * * * *
* K0127-401* * * CF2A2-11-08 * EVENT-FUEL BLEED VALVE-CLOSED * TC-019* 07 * EVENT-CHAN B *
* * 1626 * E * CP1A2V11U08-02 * * TC-071* 07 * *
* * * * *
* K0128-404* * * CF3-06 * EVENT-SWITCH SEL OUTPUT MONITOR * TC-004* 05 * 0/5 VOLTS *
* * 2014 * * CP1A3V01-06-00 * * TC-112* 03 * *
* * 1017 * E * CP1A3-03-00-00 * * TC-110* 02 * *
* * 1045 * E * CP1A3-27-00-00 * * TC-110* 02 * *
* * * * *
* K0131-403* * * CF3B0-08-05 * EVENT-LOX CHLDWN PURGE SW DE-EN * TC-053* 08 * EVENT-CHAN C *
* * 2271 * E * DP1B0-08U05-03 * * TC-105* 08 * *
* * 1034 * B * CP1A3-18G00-02 * * * *
* * * * *
* K0132-404* * * CF3B0-03-00 * EVENT-APS ENG 1-1/1-3 F0VLV-OP * TC-030* 07 * 0/5 VOLTS *
* * 2150 * E * DP1B0-03-00-00 * * TC-082* 07 * *
* * * * *
* K0133-404* * * CF3B0-11-00 * EVENT-APS ENGINE 1-2 F0VLV-OPEN * TC-029* 01 * 0/5 VOLTS *
* * 2155 * E * DP1B0-11-00-00 * * TC-081* 01 * *
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DATE 16 JAN 68

APPENDIX C

PAGE 032

DATA EVALUATION GUIDE
SA-204/LM-1

S-IVB

MEASUREMENT NUMBER	DISPLAY REQUEST NUMBER	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
S0038-427*	1776	E	CF2A2-22-02 CP1A2-22-02-00	STRAIN-AXIAL, AFT SKIRT LOC 10A	TC-050*	02	.0003/- .0045 IN/IN
S0039-427*	1775	E	CF2A2-22-01 CP1A2-22-01-00	STRAIN-AXIAL, AFT SKIRT LOC 10B	TC-102*	02	
S0040-427*	2000	E	CF2A2-22-04 CP1A2-22-04-00	STRAIN-AXIAL, AFT SKIRT LOC 11A	TC-050*	01	.0003/- .0045 IN/IN
S0041-427*	1777	E	CF2A2-22-03 CP1A2-22-03-00	STRAIN-AXIAL, AFT SKIRT LOC 11B	TC-102*	01	
S0042-427*	2002	E	CF2A2-22-06 CP1A2-22-06-00	STRAIN-AXIAL, AFT SKIRT LOC 12A	TC-050*	04	.0003/- .0045 IN/IN
S0043-427*	2001	E	CF2A2-22-05 CP1A2-22-05-00	STRAIN-AXIAL, AFT SKIRT LOC 12B	TC-102*	04	
S0044-427*	2004	E	CF2A2-22-08 CP1A2-22-08-00	STRAIN-AXIAL, AFT SKIRT LOC 13A	TC-050*	03	.0003/- .0045 IN/IN
S0045-427*	2003	E	CF2A2-22-07 CP1A2-22-07-00	STRAIN-AXIAL, AFT SKIRT LOC 13B	TC-102*	03	
S0046-427*	2006	E	CF2A2-22-10 CP1A2-22-10-00	STRAIN-AXIAL, AFT SKIRT LOC 14A	TC-050*	06	.0003/- .0045 IN/IN
S0047-427*	2005	E	CF2A2-22-09 CP1A2-22-09-00	STRAIN-AXIAL, AFT SKIRT LOC 14B	TC-102*	06	
S0048-427*	1646	E	CF2A2-13-04 CP1A2-13-04-00	STRAIN-AXIAL, AFT SKIRT LOC 15A	TC-050*	05	.0003/- .0045 IN/IN
S0049-427*	1645	E	CF2A2-13-03 CP1A2-13-03-00	STRAIN-AXIAL, AFT SKIRT LOC 15B	TC-102*	05	
S0050-427*	1650	E	CF2A2-13-06 CP1A2-13-06-00	STRAIN-AXIAL, AFT SKIRT LOC 16A	TC-050*	08	.0003/- .0045 IN/IN
					TC-102*	08	
					TC-050*	07	.0003/- .0045 IN/IN
					TC-102*	07	
					TC-051*	02	.0003/- .0045 IN/IN
					TC-103*	02	
					TC-051*	01	.0003/- .0045 IN/IN
					TC-103*	01	
					TC-051*	04	.0003/- .0045 IN/IN
					TC-103*	04	
					TC-051*	03	.0003/- .0045 IN/IN
					TC-103*	03	
					TC-051*	06	.0003/- .0045 IN/IN
					TC-103*	06	

DATA EVALUATION GUIDE
SA-204/LM-1

S-IVB

MEASUREMENT NUMBER	DISPLAY REQUEST NUMBER	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
S0051-427*	1647	E	CF2A2-13-05 CP1A2-13-05-00	STRAIN-AXIAL, AFT SKIRT LOC 16B	TC-051*	05	.0003/- .0045 IN/IN
S0052-427*	1747	E	CF2A2-19-09 CP1A2-19-09-00	STRAIN-AXIAL, AFT SKIRT LOC 17A	TC-103*	05	
S0053-427*	1745	E	CF2A2-19-07 CP1A2-19-07-00	STRAIN-AXIAL, AFT SKIRT LOC 17B	TC-051*	08	.0003/.0045 IN/IN
S0086-426*			CS1-02	STRAIN-DYNAMIC, FWD SKIRT PNL 13	TC-103*	08	
S0087-426*			CS1-05W1-05D3	STRAIN-DYNAMIC, FWD SKIRT PNL 17	TC-051*	07	.0003/.0045 IN/IN
S0088-426*			CS1-06W1-06D2	STRAIN-DYNAMIC, FWD SKIRT PNL 26	TC-103*	07	
S0089-426*			CS1-09W1-09D1	STRAIN-DYNAMIC, FWD SKIRT PNL 33	TC-001*	02	-.004/.003 IN/IN
S0090-426*	2024		CF1-14 CP1A3V02-04-00	STRAIN-DYNAMIC, FWD SKIRT PNL 40	TC-001*	05	-.004/.003 IN/IN
S0091-426*			CS1-05W1-05D4	STRAIN-DYNAMIC, FWD SKIRT PNL 46	TC-001*	06	-.004/.003 IN/IN
S0092-426*			CS1-06W1-06D3	STRAIN-DYNAMIC, FWD SKIRT PNL 55	TC-001*	06	-.004/.003 IN/IN
S0093-426*			CS1-12W1-12D2	STRAIN-DYNAMIC, FWD SKIRT PNL 61	TC-001*	09	-.004/.003 IN/IN
S0094-426*	2024		CF2-14 CP1A3V02-04-00	STRAIN-DYNAMIC, FWD SKIRT PNL 69	TC-001*	09	-.004/.003 IN/IN
S0095-426*			CS1-05W1-05D1	STRAIN-DYNAMIC, FWD SKIRT PNL 76	TC-002*	13	-.004/.003 IN/IN
S0096-426*			CS1-06W1-06D4	STRAIN-DYNAMIC, FWD SKIRT PNL 80	TC-111*	06	
S0097-426*			CS1-09W1-09D3	STRAIN-DYNAMIC, FWD SKIRT PNL 87	TC-001*	05	.003/- .004 IN/IN
S0098-426*	2024		CF3-14 CP1A3V02-04-00	STRAIN-DYNAMIC, FWD SKIRT PNL 94	TC-001*	06	-.004/.003 IN/IN
S0099-426*			CS1-05W1-05D2	STRAIN-DYNAMIC, FWD SKIRT PNL 101	TC-001*	12	.003/- .004 IN/IN
					TC-003*	13	.003/- .004 IN/IN
					TC-111*	06	
					TC-001*	05	.003/- .004 IN/IN

DATE 16 JAN 68

APPENDIX C

PAGE 044

DATA EVALUATION GUIDE
SA-204/LM-1 S-IU

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* MEASUREMENT * DISPLAY* P * TELEMETRY * MEASUREMENT * RECORD* TR *
* NUMBER * REQUEST* C * CHANNEL * DESCRIPTION * NUMBER* NO * RANGE/REMARKS *
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* * * * *
* C0006-601* * * DF2B0V01-01 * TEMP, SUBLIMATOR INLET WATER * TD-005* 01 * 0 TO 30 DEG C. *
* * 1073 * E * CP1B0V01-01-00 * * TD 021* 01 * *
* * * * *
* C0009-601* * * DF2B0V01-04 * TEMP, IU INLET METHANOL-WATER * TD-005* 04 * -10 TO 20 DEG C. *
* * 1076 * E * CP1B0V01-04-00 * * TD 021* 04 * *
* * * * *
* C0010-601* * * DF2B0V01-05 * TEMP, IU EXIT METHANOL-WATER * TD-005* 05 * -10 TO 20 DEG C. *
* * 1077 * E * CP1B0V01-05-00 * * TD 021* 05 * *
* * * * *
* C0011-601* 2205 * E * DP1A0V02-03-00 * TEMP, SUBLIMATOR INLET METH-WATER * TD 013* 13 * 10 TO 25 DEG C. *
* * * * *
* C0012-601* * * DF2B0V01-07 * TEMP, SUBLIMATOR EXIT METH-WATER * TD-005* 07 * 0 TO 20 DEG C. *
* * 1101 * E * CP1B0V01-07-00 * * TD 021* 07 * *
* * * * *
* C0013-601* * * DF2B0-01-08 * TEMP, ACCUMULATOR INLET COOLANT * TD-005* 08 * 10 TO 20 DEG C. *
* * 1102 * E * CP1B0-01-08-00 * * TD 021* 08 * *
* * * * *
* VXC0015-601* 2223 * E * DP1A0-04-07-00 * TEMP, METHANOL-WATER CONTROL * TD 014* 12 * 10 TO 20 DEG C. *
* * * * *
* C0016-603* * * DF2B0-01-10 * TEMP, ST-124M SHROUD INLET COOLANT * TD-005* 10 * 0 TO 30 DEG C. *
* * 1104 * E * CP1B0-01-10-00 * * TD 021* 10 * *
* * * * *
* C0017-603* * * DF2B0-02-09 * TEMP, ST-124M SHROUD EXIT COOLANT * TD-006* 03 * 0 TO 30 DEG C. *
* * 1115 * E * CP1B0-02-09-00 * * TD 022* 03 * *
* * * * *
* C0018-602* 2172 * E * DP1A0V01-02-00 * TEMP, COLD PLATE INLET COOLANT * TD 013* 02 * 0 TO 30 DEG C. *
* * * * *
* C0019-601* * * DF2B0-04-02 * TEMP, COLD PLATE EXIT COOLANT * TD-006* 16 * 0 TO 30 DEG C. *
* * 1132 * E * CP1B0-04-02-00 * * TD 022* 16 * *
* * * * *
* C0020-601* * * DF2B0-04-03 * TEMP, COLD PLATE EXIT COOLANT * TD-007* 01 * 0 TO 30 DEG C. *
* * 1133 * E * CP1B0-04-03-00 * * TD 023* 01 * *
* * * * *
* C0021-603* * * DF2B0-04-01 * TEMP, ST-124 METHANOL-WATER EXIT * TD-006* 15 * 0 TO 30 DEG C. *
* * 1131 * E * CP1B0-04-01-00 * * TD-022* 15 * *
* * * * *
* C0022-602* * * DF2B0-04-05 * TEMP FLT CONTROL COMP EXIT COOLANT * TD-007* 03 * 0 TO 30 DEG C. *
* * 1135 * E * CP1B0-04-05-00 * * TD 023* 03 * *
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DATE 16 JAN 68

APPENDIX D. PAGE 003

DATA EVALUATION GUIDE
SA-204/LM-1 S-IU

MEASUREMENT NUMBER	DISPLAY NUMBER	P REQUEST	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
C0023-603	1136	E	DF2B0-04-06 CP1B0-04-06-00	TEMP COLD PLATE EXIT COOLANT	TD-007	04	0 TO 30 DEG C.
C0024-603	1137	E	DF2B0-04-07 CP1B0-04-07-00	TEMP ADAPT/COMP METH/WATER EXIT	TD-007	05	0 TO 30 DEG C.
C0025-602	2201	E	DP1A0-01-09-00	TEMP, IU EXIT COOLANT	TD 013	09	0 TO 30 DEG C.
C0026-601	2202	E	DP1A0-01-10-00	TEMP, IU/S-IVR EXIT COOLANT	TD 013	10	0 TO 30 DEG C.
C0027-603	1105	E	DF2B0-02-01 CP1B0-02-01-00	TEMP, GN2 REGULATOR INLET	TD-005	11	-90 TO 50 DEG C.
C0028-603	1106	E	DF2B0-02-02 CP1B0-02-02-00	TEMP HEAT EXCHANGER NITROGEN INLET	TD-005	12	-90 TO 50 DEG C.
C0029-603	1107	E	DF2B0-02-03 CP1B0-02-03-00	TEMP, HEAT EXCHANGER NITROGEN EXIT	TD-005	13	0 TO 30 DEG C.
C0030-603	1110	E	DF2B0-02-04 CP1B0-02-04-00	TEMP HEAT EXCHANGER METHANOL/WATER INLET	TD-005	14	10 TO 20 DEG C.
XC0031-603	2225	E	DP1A0-04-09-00	TEMP, ST-124M AIR BEARING INLET	TD 014	14	0 TO 30 DEG C.
C0033-603	1111	E	DF2B0-02-05 CP1B0-02-05-00	TEMP. ST-124M MTG FRAME	TD-005	15	-25 TO +25 DEG C.
VC0034-603	2226	E	DP1A0-04-10-00	TEMP, ST-124M INTERNAL GIMBAL	TD 014	15	35 TO 60 DEG C.
C0035-601	1112	E	DF2B0-02-06 CP1B0-02-06-00	TEMP, IU INLET AIR/GN2	TD-005	16	0 TO 60 DEG C
XC0036-601	1113	E	DF2B0-02-07 CP1B0-02-07-00	TEMP, IU AMBIENT	TD-006	01	-20 TO 45 DEG C.
C0037-601	1114	E	DF2B0-02-08 CP1B0-02-08-00	TEMP IU, INNER SKIN #1 (LOC 4)	TD-006	02	-50 TO +125 DEG C.
C0038-601	1117	E	DF2B0-03-01 CP1B0-03-01-00	TEMP IU, INNER SKIN #2 (LOC 2)	TD-006	05	-50 TO +125 DEG C.

DATA EVALUATION GUIDE
SA-204/LM-1 S-IU

MEASUREMENT NUMBER	DISPLAY REQUEST NUMBER	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
C0112-900	1140	E	DF2B0-04-08 CP1B0-04-08-00	SLA SKIN TEMP 3	TD-007	06	-73 TO +316 DEG C
C0113-900	1142	E	DF2B0-04-10 CP1B0-04-10-00	SLA SKIN TEMP 4	TD-007	08	-73 TO +316 DEG C
C0114-900	1152	E	DF2B0-05-08 CP1B0-05-08-00	SLA SKIN TEMP 5	TD-007	16	-73 TO +316 DEG C
C0115-900	1153	E	DF2B0-05-09 CP1B0-05-09-00	SLA SKIN TEMP 6	TD-008	01	-73 TO +316 DEG C
C0116-900	1164	E	DF2B0-06-08 CP1B0-06-08-00	SLA SKIN TEMP 7	TD-008	10	-73 TO +316 DEG C
C0117-900	1165	E	DF2B0-06-09 CP1B0-06-09-00	SLA SKIN TEMP 8	TD-008	11	-73 TO +316 DEG C
C0118-900	1166	E	DF2B0-06-10 CP1B0-06-10-00	SLA SKIN TEMP 9	TD-008	12	-73 TO +316 DEG C
C0119-900	1171	E	DF2B0-10-03 CP1B0-10-03-00	SLA SKIN TEMP 10	TD-009	02	-73 TO +316 DEG C
C0120-900	1173	E	DF2B0-10-05 CP1B0-10-05-00	SLA SKIN TEMP 11	TD-009	04	-73 TO +316 DEG C
C0121-900	1174	E	DF2B0-10-06 CP1B0-10-06-00	SLA SKIN TEMP 12	TD-009	05	-73 TO +316 DEG C

DATA EVALUATION GUIDE
SA-204/LM-1 S-IU

MEASUREMENT NUMBER	DISPLAY REQUEST NUMBER	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/RMARKS
XD0010-603	2235	E	DP1A0-14-07-00	PRESSURE GN2 REGULATOR INLET (A.B.)	TD 015	10	0 TO 3500 PSIA
XD0011-603	2236	E	DP1A0-14-08-00	PRESSURE ST-124M AIR BEARING INLET	TD 015	11	0 TO 35 PSID
VD0012-603	2237	E	DP1A0-14-09-00	PRESS. INTERNAL AMBIENT ST124-M	TD 015	12	0 TO 35 PSIA
XD0017-601	2240	E	DP1A0-14-10-00	PRESSURE COOLANT MANIFOLD INLET	TD 015	13	0 TO 60 PSIA
D0018-601	1141	E	DF2B0-04-09 CP1B0-04-09-00	PRESSURE S-IVB EXIT COOLANT	TD-007 TD 023	07 07	0 TO 45 PSIA
D0019-602	1223	E	DF2B0-17-09 CP1B0-17-09-00	PRESS. CONTROL COMPUTER	TD-011 TD 027	01 01	0 TO 50 PSIA
D0020-602	1224	P	DF2B0-17-10 CP1B0-17-10-00	PRESS CONTROL SIG PROC	TD-011 TD 027	02 02	0 TO 50 PSIA
VXD0024-601	2234	E	DP1A0-14-06-00	INLET PRESSURE COOLANT PUMP (W/M)	TD 015	09	0 TO 35 PSIA
XD0025-601	2206	E	DP1A0-02-04-00	PRESS GN2 REG INLET	TD 013	14	0 TO 3500 PSIA
D0043-601	1215	E	CP1B0-17-03-00	PRESS., WATER SUBLIMATOR INLET	TD-026	11	0 TO 5 PSID

DATA EVALUATION GUIDE
SA-204/LM-1 S-IU

* MEASUREMENT * NUMBER	* DISPLAY * REQUEST * NUMBER	* P * C	* TELEMETRY * CHANNEL	* MEASUREMENT * DESCRIPTION	* RECORD * NUMBER	* TR * NO	* RANGE/REMARKS
F0001-601	1077	P	DF1-04 CP180V01-05-00	FLOW RATE SUBLIMATOR INLET WATER	TD-001	03	.01 TO .08 GPM
F0002-601	1143	E	DF2B0-05-01 CP180-05-01-00	FLOW RATE SUBLIMATOR BYPASS M/W	TD-007	09	1.5 TO 25 GPM
F0003-601	1144	E	DF2B0-05-02 CP180-05-02-00	FLOW RATE COLD PLATE INLET COOLANT	TD-007	10	0.25 TO 1.0 GPM
F0004-603	1145	E	DF2B0-05-03 CP180-05-03-00	FLOW RATE COLD PLATE INLET COOLANT	TD-007	11	0.25 TO 1.0 GPM
F0005-603	1146	E	DF2B0-05-04 CP180-05-04-00	FLOW RATE ST124 SHROUD INLET COOLANT	TD-007	12	.1 TO .5 GPM
F0006-602	1147	E	DF2B0-05-05 CP180-05-05-00	FLOW RATE FLT. CONT. COMP. INLET COOLANT	TD-007	13	0.25 TO 1.0 GPM
F0007-601	1150	E	DF2B0-05-06 CP180-05-06-00	FLOW RATE IU EXIT COOLANT	TD-007	14	0.25 TO 1.0 GPM
F0008-603	1151	E	DF2B0-05-07 CP180-05-07-00	FLOW RATE ADAPT/COMP METH/WATER INL	TD-007	15	0.25 TO 1.0 GPM
VF0009-602	2215	E	DP1A0-04-01-00	FLOW RATE IU EXIT COOLANT	TD 014	06	1.5 TO 25 GPM
VF0010-601	2216	E	DP1A0-04-02-00	FLOW RATE S-IVB INLET COOLANT	TD-014	07	1.5 TO 9 GPM
F0011-603	1154	E	DF2B0-05-10 CP180-05-10-00	FLOW RATE ST124M SHROUD INL COOLANT	TD-008	02	.1 TO .5 GPM

DATA EVALUATION GUIDE
SA-204/LM-1 S-IU

MEASUREMENT NUMBER	DISPLAY NUMBER	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
VG0001-001	1060	P	DF2B0V18-00 CP1B0V18-00-00	POSITION PITCH ACTUATOR	TD-011	03	+8 DEG
VG0001-002	1050	E	DF2B0V07-00 CP1B0V07-00-00	POSITION PITCH ACTUATOR	TD-008	13	+8 DEG
VG0001-003	1051	E	DF2B0V08-00 CP1B0V08-00-00	POSITION PITCH ACTUATOR	TD-008	14	+8 DEG
VG0001-004	1052	E	DF2B0V09-00 CP1B0V09-00-00	POSITION PITCH ACTUATOR	TD-008	15	+8 DEG
VG0001-403	1060	P	DF2B0V18-00 CP1B0V18-00-00	POSITION PITCH ACTUATOR	TD-011	03	+7.5 DEG
VG0002-001	1062	P	DF2B0V21-00 CP1B0V21-00-00	POSITION YAW ACTUATOR	TD-011	15	+8 DEG
VG0002-002	1063	P	DF2B0V23-00 CP1B0V23-00-00	POSITION YAW ACTUATOR	TD-012	10	+8 DEG
VG0002-003	1064	P	DF2B0V24-00 CP1B0V24-00-00	POSITION YAW ACTUATOR	TD-012	11	+8 DEG
VG0002-004	1065	P	DF2B0V25-00 CP1B0V25-00-00	POSITION YAW ACTUATOR	TD-012	12	+8 DEG
VG0002-403	1062	P	DF2B0V21-00 CP1B0V21-00-00	POSITION YAW ACTUATOR	TD-011	15	+7.5 DEG
VG0003-601	2232	P	DP1A0-14-04-00	POSITION METH-WATER CONT VALVE	TD-015	07	0 TO 100 PERCENT
VG0005-601	2251	B	DP1A0-17R09-10	CLOSED POSITION-WATER CONTROL VALVE	TD-019	20	0 OR 28 VDC
G0006-601	2252	B	DP1A0-17R10-10	OPEN POSITION WATER CONTROL VALVE	TD-019	30	0 OR 28 VDC

DATA EVALUATION GUIDE
SA-204/LM-1 S-IU

MEASUREMENT NUMBER	DISPLAY REQUEST NUMBER	P C *	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
VH0001-001	1055	P	DF2B0V13-00 CP1B0V13-00-00	DELTA I PITCH ACTUATOR	TD-009	12	+14 MA
VH0001-002	2204	P	DF1-14M04 DP1A0V02-02-00	DELTA I PITCH ACTUATOR	TD-004	03	+14 MA
VH0001-003	2205	P	DF2-14M05 DP1A0V02-03-00	DELTA I PITCH ACTUATOR	TD-003	04	+14 MA
VH0001-004	2210	P	DF1-17M04 DP1A0V02-06-00	DELTA I PITCH ACTUATOR	TD-004	08	+14 MA
VH0001-403	1055	P	DF2B0V13-00 CP1B0V13-00-00	VALVE CURRENT, PITCH ACTUATOR	TD-009	12	+50 MA
VH0002-001	1057	P	DF2B0V16-00 CP1B0V16-00-00	DELTA I YAW ACTUATOR	TD-010	08	+14 MA
VH0002-002	2212	P	DF1-14M06 DP1A0V02-08-00	DELTA I YAW ACTUATOR	TD-004	05	+14 MA
VH0002-003	2213	P	DF2-14M06 DP1A0V02-09-00	DELTA I YAW ACTUATOR	TD-003	05	+14 MA
VH0002-004	2214	P	DF1-17M07 DP1A0V02-10-00	DELTA I YAW ACTUATOR	TD-004	11	+14 MA
VH0002-403	1057	P	DF2B0V16-00 CP1B0V16-00-00	VALVE CURRENT, YAW ACTUATOR	TD-010	08	+50 MA
VH0003-404	1063	P	DF2B0V23-00 CP1B0V23-00-00	ATT CON ENG PITCH ENG RELAY IP-IIIP	TD-012	10	+2.5 VDC
VH0004-404	1064	P	DF2B0V24-00 CP1B0V24-00-00	ATT CNTRL ENG,ENG RELAY I II-I IV	TD-012	11	+2.5 VDC
VH0005-404	1065	P	DF2B0V25-00 CP1B0V25-00-00	ATT CTL ENG,ENG RELY III II-III IV	TD-012	12	+2.5 VDC

DATA EVALUATION GUIDE
SA-204/LM-1 S-IU

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* MEASUREMENT * DISPLAY * P * TELEMETRY * MEASUREMENT * RECORD * TR *
* NUMBER * REQUEST * C * CHANNEL * DESCRIPTION * NUMBER * NO * RANGE/REMARKS *
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* * * * *
* VH0010-603* * * DF2B0-11-00 * Z ACCELEROMETER PICKUP ST-124M * * *
* * 1053 * E * CP1B0-11-00-00 * * * * TD-009* 10 * +-6 DEG
* * * * * * * * TD 025* 10 *
* * * * * * * *
* VH0011-603* * * DF2B0-12-00 * X ACCELEROMETER PICKUP ST-124M * * *
* * 1054 * E * CP1B0-12-00-00 * * * * TD-009* 11 * +-6 DEG
* * * * * * * * TD 025* 11 *
* * * * * * * *
* VH0012-603* * * DF2B0-14-00 * Y ACCELEROMETER PICKUP ST-124M * * *
* * 1056 * E * CP1B0-14-00-00 * * * * TD-009* 13 * +-6 DEG
* * * * * * * * TD 025* 13 *
* * * * * * * *
* H0013-603* * * DF2-12 * Z ACCELEROMETER SERVO ST-124M * * *
* * 2253 * E * DP1A0V18-01-00 * * * * TD-002* 11 * +-5 VDC
* * * * * * * * TD 015* 15 *
* * * * * * * *
* H0014-603* * * DF1-12 * X ACCELEROMETER SERVO ST-124M * * *
* * 2256 * E * DP1A0V18-04-00 * * * * TD-001* 11 * +-5 VDC
* * * * * * * * TD 016* 02 *
* * * * * * * *
* H0015-603* * * DF1-11 * Y ACCELEROMETER SERVO ST-124M * * *
* * * * * * * * TD-001* 10 * +-5 VDC
* * * * * * * *
* H0016-603* * * DF1-13 * Z ACCELEROMETER, A1 * * *
* * * * * * * * TD-001* 12 * 0.05 M/SEC/PULSE
* * * * * * * *
* H0017-603* * * DF1-18W1-13D2 * Z ACCELEROMETER, B1 * * *
* * * * * * * * TD-001* 16 * 0.05 M/SEC/PULSE
* * * * * * * *
* H0018-603* * * DF1-18W1-13D3 * Z ACCELEROMETER, A2 * * *
* * * * * * * * TD-001* 16 * 0.05 M/SEC/PULSE
* * * * * * * *
* H0019-603* * * DF1-18W1-13D4 * Z ACCELEROMETER, B2 * * *
* * * * * * * * TD-001* 16 * 0.05 M/SEC/PULSE
* * * * * * * *
* H0020-603* * * DF2-13 * X ACCELEROMETER, A1 * * *
* * * * * * * * TD-002* 12 * 0.05 M/SEC/PULSE
* * * * * * * *
* H0021-603* * * DF1-16W1-14D2 * X ACCELEROMETER, B1 * * *
* * * * * * * * TD-001* 15 * 0.05 M/SEC/PULSE
* * * * * * * *
* H0022-603* * * DF1-16W1-14D3 * X ACCELEROMETER, A2 * * *
* * * * * * * * TD-001* 15 * 0.05 M/SEC/PULSE
* * * * * * * *
* H0023-603* * * DF1-16W1-14D4 * X ACCELEROMETER, B2 * * *
* * * * * * * * TD-001* 15 * 0.05 M/SEC/PULSE
* * * * * * * *
* H0024-603* * * DF1-17M06 * Y ACCELEROMETER, A1 * * *
* * * * * * * * TD-004* 10 * 0.05 M/SEC/PULSE
* * * * * * * *
* H0025-603* * * DF1-17M05 * Y ACCELEROMETER, B1 * * *
* * * * * * * * TD-004* 09 * 0.05 M/SEC/PULSE
* * * * * * * *
* H0026-603* * * DF1-18W1-13D1 * Y ACCELEROMETER, A2 * * *
* * * * * * * * TD-001* 16 * 0.05 M/SEC/PULSE
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DATE 16 JAN 68

APPENDIX D. PAGE 014

DATA EVALUATION GUIDE
SA-204/LM-1 S-IU

* MEASUREMENT * NUMBER	* DISPLAY * REQUEST	* P * C	* TELEMETRY * CHANNEL	* MEASUREMENT * DESCRIPTION	* RECORD* TP * NUMBER* NO	* RANGE/REMARKS
* K0003-603*	2577	* B *	DP1A0-16G00-05	* SW SEL ZERO INDICATE	* TD-017* 15	* 0 OR 28 VDC
* VK0004-603*	2130	* P *	DP1A0-06-00-00	* SW SEL OUTPUT	* TD 015* 01	* 0 TO 5 VDC
* VK0005-603*	2565	* B *	DP1A0-13G00-01	* SW SEL STAGE SELECT	* TD-017* 01	* 0 OR 28 VDC
	2565	* B *	DP1A0-13G00-03		* TD-017* 03	
	2565	* B *	DP1A0-13G00-04		* TD-017* 04	
* VK0006-603*	2565	* B *	DP1A0-13G00-06	* SW SEL READ COMMAND	* TD-017* 06	* 0 OR 28 VDC
* K0007-603*	2565	* B *	DP1A0-13G00-07	* SW SEL RESET	* TD-017* 07	* 0 OR 28 VDC
* VK0008-603*	2611	* B *	DP1A0-19G00-01	* SW SEL REGISTER VERIFICATION	* TD-017* 21	* 0 OR 28 VDC
	2611	* B *	DP1A0-19G00-02		* TD-017* 22	
	2611	* B *	DP1A0-19G00-03		* TD-017* 23	
	2611	* B *	DP1A0-19G00-04		* TD-017* 24	
	2611	* B *	DP1A0-19G00-05		* TD-017* 25	
	2611	* B *	DP1A0-19G00-06		* TD-017* 26	
	2611	* B *	DP1A0-19G00-07		* TD-017* 27	
	2611	* B *	DP1A0-19G00-08		* TD-017* 28	
* VK0009-602*	2250	* B *	DP1A0-17R08-01	* EDS S-1B ONE ENGINE OUT (ENGINES 1-8)	* TD-019* 01	* 0 OR 28 VDC
* VK0010-602*	2250	* B *	DP1A0-17R08-02	* EDS S-1B ONE ENGINE OUT (ENGINES 2-8)	* TD-019* 02	* 0 OR 28 VDC
* VK0011-602*	2250	* B *	DP1A0-17R08-03	* EDS S-1B TWO ENGINES OUT SIGNAL A	* TD-019* 03	* 0 OR 28 VDC
* VK0012-602*	2250	* B *	DP1A0-17R08-04	* EDS S-1B TWO ENGINE OUT SIGNAL B	* TD-019* 04	* 0 OR 28 VDC
* VK0013-602*	2250	* B *	DP1A0-17R08-05	* EDS +6095 BUS ENERGIZED	* TD-019* 05	* 0 OR 28 VDC
* VK0015-602*	2250	* B *	DP1A0-17R08-07	* EDS OR MANUAL CUTOFF OF S-1B OR S-IVB	* TD-019* 07	* 0 OR 28 VDC
* VK0016-602*	2250	* B *	DP1A0-17R08-08	* EDS OR MANUAL CUTOFF OF S-1B OR S-IVB	* TD-019* 08	* 0 OR 28 VDC
* VK0017-602*	2250	* B *	DP1A0-17R08-09	* EDS-MANUAL CUTOFF OF S-1B OR S-IVB ENGINE ARMED	* TD-019* 09	* 0 OR 28 VDC
* VK0018-602*	2250	* B *	DP1A0-17R08-10	* EDS MANUAL CUTOFF OF S-1B OR S-IVB ENGINE ARMED	* TD-019* 10	* 0 OR 28 VDC

DATA EVALUATION GUIDE
SA-204/LM-1 S-IU

MEASUREMENT NUMBER	DISPLAY REQUEST NUMBER	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
VK0020-602	2247	B	DP1A0-17R07-02	S-IVB BURN	TD-018	42	0 OR 28 VDC
VK0021-602	2247	B	DP1A0-17R07-03	S-1B BURN	TD-018	43	0 OR 28 VDC
VK0022-602	2247	B	DP1A0-17R07-04	SERVO AMPLIFIER COMPARATOR PITCH	TD-018	44	0 OR 28 VDC
VK0023-602	2247	B	DP1A0-17R07-05	SERVO AMPLIFIER COMPARATOR YAW	TD-018	45	0 OR 28 VDC
VK0024-602	2247	B	DP1A0-17R07-06	SPATIAL AMPLIFIER COMPARATOR ROLL-YAW I	TD-018	46	0 OR 28 VDC
VK0025-602	2247	B	DP1A0-17R07-07	SPATIAL AMPLIFIER COMPARATOR PITCH	TD-018	47	0 OR 28 VDC
VK0026-602	2247	B	DP1A0-17R07-08	SPATIAL AMPLIFIER COMPARATOR ROLL-YAW II	TD-018	48	0 OR 28 VDC
VK0032-601	2241	B	DP1A0-17R01-01	CONTROL ACCELEROMETERS ON INDICATION	TD-017	31	0 OR 28 VDC
VK0033-603	2241	B	DP1A0-17R01-02	CONTROL COMPUTER ON INDICATION BUS +6D11	TD-017	32	0 OR 28 VDC
VK0034-603	2241	B	DP1A0-17R01-03	CONTROL COMPUTER ON INDICATION BUS +6D31	TD-017	33	0 OR 28 VDC
VK0035-603	2241	B	DP1A0-17R01-04	CONTROL COMPUTER ON INDICATION BUS +6D41	TD-017	34	0 OR 28 VDC
VK0036-602	2241	B	DP1A0-17R01-05	CONTROL SIGNAL PROCESSOR ON INDICATION	TD-017	35	0 OR 28 VDC
VK0037-603	2241	B	DP1A0-17R01-06	SWITCH SELECTOR REGISTER TEST	TD-017	36	0 OR 28 VDC
VK0038-601	2241	B	DP1A0-17R01-07	RADAR TRANSPONDER POWER ON (603A653)	TD-017	37	0 OR 28 VDC
VK0039-601	2241	B	DP1A0-17R01-08	AZUSA TRANSPONDER POWER ON	TD-017	38	0 OR 28 VDC
VK0042-602	2242	B	DP1A0-17R02-01	F1 RF ASSEMBLY ON INDICATION	TD-017	41	0 OR 28 VDC
VK0043-602	2242	B	DP1A0-17R02-02	F1 TM ASSY ON INDICATION	TD-017	42	0 OR 28 VDC
VK0044-602	2242	B	DP1A0-17R02-03	F2 RF ASSY ON INDICATION	TD-017	43	0 OR 28 VDC
VK0045-602	2242	B	DP1A0-17R02-04	F2 TM ASSY ON INDICATION	TD-017	44	0 OR 28 VDC
VK0047-602	2242	B	DP1A0-17R02-06	PCM/DDAS TM ASSY ON INDICATION	TD-017	46	0 OR 28 VDC

DATE 16 JAN 68

APPENDIX D. PAGE 020

DATA EVALUATION GUIDE
SA-204/LM-1 S-IU

* MEASUREMENT * * NUMBER	* DISPLAY * * REQUEST * * NUMBER	* P * * C *	* TELEMETRY * * CHANNEL	* MEASUREMENT * * DESCRIPTION	* RECORD * * NUMBER	* TP * * NO *	* RANGE/REMARKS
*****	*****	*****	*****	*****	*****	*****	*****
* VM0001-602 *	* 2230 *	* P *	* DP1A0-14-02-00 *	* MEASURING VOLTAGE	* TD 015 *	* 05 *	* 0 TO 5 VDC
* VM0002-602 *	* 1167 *	* E *	* DF2B0-10-01 *	* BETA COMMAND VOLTAGE	* TD-008 *	* 16 *	* 0 TO 9 VDC
			* CP1B0-10-01-00 *		* TD 024 *	* 16 *	
* VM0003-601 *	* 1170 *	* E *	* DF2B0-10-02 *	* VOLTAGE 56 VDC SUPPLY	* TD-009 *	* 01 *	* 50 TO 60 VDC
			* CP1B0-10-02-00 *		* TD 025 *	* 01 *	
* M0004-603 *	* 1101 *	* P *	* DF1-08 *	* FREQUENCY 250 VA INVERTER	* TD-001 *	* 07 *	* 400+- .10 CPS
			* CP1B0V01-07-00 *		* TD 021 *	* 07 *	
* M0006-603 *	* 2253 *	* E *	* DP1A0V18-01-00 *	* VOLTAGE 250 VA INVERTER PHASE AB	* TD 015 *	* 15 *	* 22 TO 30 VAC
* M0007-603 *	* 1172 *	* E *	* DF2B0-10-04 *	* VOLTAGE 250 VA INVERTER PHASE BC	* TD-009 *	* 03 *	* 22 TO 30 VAC
			* CP1B0-10-04-00 *		* TD 025 *	* 03 *	
* M0008-603 *	* 2204 *	* E *	* DP1A0V02-02-00 *	* VOLTAGE 250 VA INVERTER PHASE CA	* TD 013 *	* 12 *	* 22 TO 30 VAC
* M0012-601 *	* 2254 *	* E *	* DP1A0V18-02-00 *	* 6D11 BUS VOLTAGE	* TD 015 *	* 16 *	* 24 TO 32 VDC
* M0013-601 *	* 2255 *	* E *	* DP1A0V18-03-00 *	* 6D21 BUS VOLTAGE	* TD 016 *	* 01 *	* 24 TO 32 VDC
* M0014-601 *	* 2256 *	* E *	* DP1A0V18-04-00 *	* 6D31 BUS VOLTAGE	* TD 016 *	* 02 *	* 24 TO 32 VDC
* XM0016-601 *	* 2257 *	* E *	* DP1A0-18-05-00 *	* 6D10 BATTERY CURRENT	* TD 016 *	* 03 *	* 0 TO 100 A
* XM0017-601 *	* 2260 *	* E *	* DP1A0-18-06-00 *	* 6D20 BATTERY CURRENT	* TD 016 *	* 04 *	* 0 TO 100 A
* XM0018-601 *	* 2261 *	* E *	* DP1A0-18-07-00 *	* 6D30 BATTERY CURRENT	* TD 016 *	* 05 *	* 0 TO 100 A
* M0019-601 *	* 2262 *	* E *	* DP1A0-18-08-00 *	* 6D41 BUS VOLTAGE	* TD 016 *	* 06 *	* 24 TO 32 VAC
* XM0020-601 *	* 2263 *	* E *	* DP1A0-18-09-00 *	* 6D40 BATTERY CURRENT	* TD 016 *	* 07 *	* 0 TO 100 A
* VM0021-602 *	* 2252 *	* B *	* DP1A0-17R10-07 *	* EDS BUS VOLTAGE +6D91	* TD-019 *	* 27 *	* 0 OR 28 VDC
* VM0022-602 *	* 2252 *	* B *	* DP1A0-17R10-08 *	* EDS BUS VOLTAGE +6D92	* TD-019 *	* 28 *	* 0 OR 28 VDC
* VM0023-602 *	* 2252 *	* B *	* DP1A0-17R10-09 *	* EDS BUS VOLTAGE +6D93	* TD-019 *	* 29 *	* 0 OR 28 VDC
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S-IU

MEASUREMENT NUMBER	DISPLAY REQUEST NUMBER	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
VM0024-603	1237	P	DF2B0-22-01 CP1B0-22-01-00	DATA ADAPTOR +20 VOLT SUPPLY	TD-011	16	0 TO +20 VDC
VM0025-603	1240	P	DF2B0-22-02 CP1B0-22-02-00	DATA ADAPTOR +12V SUPPLY	TD-012	01	0 TO +12 VDC
VM0026-603	1241	P	DF2B0-22-03 CP1B0-22-03-00	DATA ADAPTOR +6VOLT SUPPLY	TD-012	02	0 TO +6 VDC
VM0027-603	1242	P	DF2B0-22-04 CP1B0-22-04-00	DATA ADAPTOR -3V SUPPLY	TD-012	03	0 TO -3 VDC
VM0028-603	1243	P	DF2B0-22-05 CP1B0-22-05-00	DATA ADAPTOR -20V SUPPLY	TD-012	04	0 TO -20 VDC
VM0029-603	1245	P	DF2B0-22-07 CP1B0-22-07-00	DATA ADAPTOR +6V SUPPLY	TD-012	06	0 TO +6 VDC

DATA EVALUATION GUIDE
SA-204/LM-1 S-1B

* MEASUREMENT * NUMBER	* DISPLAY* * REQUEST* * NUMBER	* P * C	* TELEMETRY * CHANNEL	* MEASUREMENT * DESCRIPTION	* RECORD* * NUMBER*	* TR * NO	* RANGE/REMARKS
C0502-004*	612	E	GF2A2-14-04 GP1A2-14-04-00	TEMP HEAT SHIELD	TG-015*	08	+0/+300 DEG C
C0503-004*	624	E	GF2A2-15-04 GP1A2-15-04-00	TEMP HEAT SHIELD	TG-040*	08	
C0504-001*	607	E	GF2A2-14-01 GP1A2-14-01-00	TEMP HEAT SHIELD	TG-016*	02	+0/+600 DEG C
C0505-001*	621	E	GF2A2-15-01 GP1A2-15-01-00	TEMP HEAT SHIELD	TG-041*	02	
C0506-004*	636	E	GF2A2-16-04 GP1A2-16-04-00	TEMP HEAT SHIELD R CAL	TG-015*	05	+0/+300 DEG C
C0506-007*	600	E	GF2A2-13-04 GP1A2-13-04-00	TEMP HEAT SHIELD R CAL	TG-040*	05	
C0508-003*	647	E	GF2A2-17-03 GP1A2-17-03-00	TEMP HEAT SHIELD T CAL	TG-015*	14	+0/+600 DEG C
C0515-003*	611	E	GF2A2-14-03 GP1A2-14-03-00	TEMP ASPIRATOR SURFACE	TG-040*	14	
C0516-003*	623	E	GF2A2-15-03 GP1A2-15-03-00	TEMP ASPIRATOR SURFACE	TG-016*	10	+0/+45 W/CM2
C0517-005*	517	E	GF2A2-08-05 GP1A2-08-05-00	TEMP EXTERNAL NOZZLE SURFACE	TG-041*	10	
C0528-012*	336	E	GF1A1-03-02 GP1A1-03-02-00	D20 BATTERY TEMP	TG-014*	13	+0/+45 W/CM2
C0600-007*	507	E	GF2A2-07-07 GP1A2-07-07-00	TEMP FLAME SHIELD	TG-039*	13	
C0601-008*	464	E	GF2A2-05-08 GP1A2-05-08-00	TEMP FLAME SHIELD T CAL	TG-017*	03	+0/+45 W/CM2
					TG-042*	03	
					TG-015*	07	+0/+50 W/CM2
					TG-040*	07	
					TG-016*	01	+0/+75 W/CM2
					TG-041*	01	
					TG-012*	06	+0/+50 W/CM2
					TG-037*	06	
					TG-002*	14	+20/+30 DEG C
					TG-028*	14	
					TG-012*	02	+0/+1750 DEG C
					TG-037*	02	
					TG-011*	01	+0/+115 W/CM2
					TG-036*	01	

DATA EVALUATION GUIDE
SA-204/LM-1 S-IB

MEASUREMENT NUMBER	DISPLAY REQUEST NUMBER	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
C0602-005	505	E	GF2A2-07-05 GP1A2-07-05-00	TEMP FLAME SHIELD	TG-011	14	+0/+150 DEG C
C0603-006	631	E	GF2A2-15-09 GP1A2-15-09-00	TEMP FLAME SHIELD R CAL	TG-016	05	+0/+115 W/CM2
C0604-005	632	E	GF2A2-15-10 GP1A2-15-10-00	TEMP FLAME SHIELD SUPPORT	TG-016	06	+0/+600 DEG C
C0604-007	633	E	GF2A2-16-01 GP1A2-16-01-00	TEMP FLAME SHIELD SUPPORT	TG-016	07	+0/+600 DEG C
C0605-006	634	E	GF2A2-16-02 GP1A2-16-02-00	TEMP ASPIRATOR INLET	TG-016	08	+0/+600 DEG C
C0605-008	637	E	GF2A2-16-05 GP1A2-16-05-00	TEMP ASPIRATOR INLET	TG-016	11	+0/+600 DEG C
C0606-005	640	E	GF2A2-16-06 GP1A2-16-06-00	TEMP TURBINE EXHAUST DUCT T CAL	TG-016	12	+0/+50 W/CM2
C0606-007	641	E	GF2A2-16-07 GP1A2-16-07-00	TEMP TURBINE EXHAUST DUCT T CAL	TG-016	13	+0/+50 W/CM2
C0609-003	642	E	GF2A2-16-08 GP1A2-16-08-00	TEMP HEAT SHIELD R CAL	TG-016	14	+0/+45 W/CM2
C0610-003	565	E	GF2A2-12-03 GP1A2-12-03-00	GAS TEMP HEAT SHIELD	TG-014	05	+0/+1500 DEG C
C0611-003	577	E	GF2A2-13-03 GP1A2-13-03-00	TEMP HEAT SHIELD T CAL	TG-014	12	+0/+45 W/CM2
C0632-003	635	E	GF2A2-16-03 GP1A2-16-03-00	TEMP GAS ASPIRATOR SURFACE	TG-016	09	+0/+1500 DEG C

DATA EVALUATION GUIDE
CA-204/LM-1 LM-1

* MEASUREMENT * * NUMBER *	* DISPLAY * * REQUEST * * NUMBER *	* P * * C *	* TELEMETRY * * CHANNEL *	* MEASUREMENT * * DESCRIPTION *	* RECORD * * NUMBER *	* TP * * NO *	* RANGE/REMARKS *
* GA0083T *	* E *	* B *	* E-5 *	* TEMP N01 +Z LND LEG OUTRG N01 *	* *	* *	* 0/500 DEG F *
* GA0084T *	* E *	* A *	* 14-17 *	* TEMP N01 +Z LND LEG OUTRG N02 *	* *	* *	* 0/500 DEG F *
* GA0085T *	* E *	* A *	* 14-14 *	* TEMP N01 +Z LND LEG APEX FIT *	* *	* *	* 0/500 DEG F *
* GA0201T *	* E *	* A *	* 14-20 *	* TEMP N01 DESC ENG CAVITY *	* *	* *	* 0/500 DEG F *
* GA0202T *	* E *	* A *	* 14-21 *	* TEMP N02 DESC ENG CAVITY *	* *	* *	* 0/500 DEG F *
* GA0203T *	* E *	* A *	* 14-23 *	* TEMP N03 DESC ENG CAVITY *	* *	* *	* 0/500 DEG F *
* GA0204T *	* E *	* A *	* 14-24 *	* TEMP N04 DESC ENG CAVITY *	* *	* *	* 0/500 DEG F *
* GA0601S *	* E *	* A *	* 05/1 *	* LOAD +Z BEAM BOOSTER STRT N01 *	* *	* *	* 0/18500 LBS *
* GA0602S *	* E *	* A *	* 06/1 *	* LOAD +Z BEAM BOOSTER STRT N02 *	* *	* *	* 0/23220 LBS *
* GA0603S *	* E *	* A *	* 09/1 *	* LOAD +Z BEAM BOOSTER STRT N03 *	* *	* *	* 0/23220 LBS *
* GA0604S *	* E *	* A *	* 07/1 *	* LOAD +Z BEAM BOOSTER STRT N04 *	* *	* *	* 0/18500 LBS *
* GA0605S *	* E *	* B *	* 05/1 *	* LOAD -Z BEAM BOOSTER STRT N01 *	* *	* *	* 0/18500 LBS *
* GA0606S *	* E *	* B *	* 06/1 *	* LOAD -Z BEAM BOOSTER STRT N02 *	* *	* *	* 0/23220 LBS *
* GA0607S *	* E *	* B *	* 07/1 *	* LOAD -Z BEAM BOOSTER STRT N03 *	* *	* *	* 0/23220 LBS *
* GA0608S *	* E *	* B *	* 08/1 *	* LOAD -Z BEAM BOOSTER STRT N04 *	* *	* *	* 0/18500 LBS *
* GA0609S *	* E *	* B *	* 09/1 *	* LOAD +Y BEAM BOOSTER STRT N01 *	* *	* *	* 0/18500 LBS *
* GA0610S *	* E *	* B *	* 10/1 *	* LOAD +Y BEAM BOOSTER STRT N02 *	* *	* *	* 0/23220 LBS *
* GA0611S *	* E *	* C *	* 05 *	* LOAD +Y BEAM BOOSTER STRT N03 *	* *	* *	* 0/23220 LBS *
* GA0612S *	* E *	* C *	* 06/1 *	* LOAD +Y BEAM BOOSTER STRT N04 *	* *	* *	* 0/18500 LBS *
* GA0613S *	* E *	* C *	* 07/1 *	* LOAD -Y BEAM BOOSTER STRT N01 *	* *	* *	* 0/18500 LBS *

DATA EVALUATION GUIDE
SA-204/LM-1 LM-1

* MEASUREMENT * NUMBER	* DISPLAY * REQUEST * NUMBER	* P * C	* TELEMETRY * CHANNEL	* MEASUREMENT * DESCRIPTION	* RECORD * NUMBER	* TR * NO	* RANGE/REMARKS
GA0614S	E	*	C-08/1	LOAD -Y BEAM BOOSTER STRT N02	*	*	0/23220 LBS
GA0615S	E	*	C-09/1	LOAD -Y BEAM BOOSTER STRT N03	*	*	0/23220 LBS
GA0616S	E	*	A-08/1	LOAD -Y BEAM BOOSTER STRT N04	*	*	0/18500 LBS
GA1113T	E	*	A-14-26	TEMP TOP SURF ASC STG HEAT SH	*	*	-30/250 DEG F
GA1133P	E	*	C- E-27	PRESS TOP SURF ASC STG HT SH	*	*	0/2 PSIA
GA1501D	E	*	D-10C-G1/1	VIR ASC ENG SUP STRCT SDE N01	*	*	+ 30 G
GA1502D	E	*	D-10C-G1/2	VIR ASC ENG SUP STRCT SDE N02	*	*	+ 30 G
GA1503D	E	*	D-10C-G1/3	VIR ASC ENG SUP STRCT SDE N03	*	*	+ 30 G
GA1571D	E	*	C-12	VIR ASC ST OXID TANK X AXIS	*	*	+ 10 G
GA1572D	E	*	A-11-I-1/2	VIR ASC ST OXID TANK Y AXIS	*	*	+ 10 G
GA1573D	E	*	B-11-I-2/2	VIR ASC ST OXID TANK Z AXIS	*	*	+ 10 G
GA2001T	E	*	A-14-40	TEMP N01 HEAT SHIELD DFSC STG	*	*	0/2500 DEG F
GA2002T	E	*	B- E-18	TEMP N02 HEAT SHIELD DFSC STG	*	*	0/2500 DEG F
GA2003T	E	*	A-14-30	TEMP N03 HEAT SHIELD DFSC STG	*	*	-100/2000 DEG F
GA2004T	E	*	R- E-79	TEMP N04 HEAT SHIELD DFSC STG	*	*	0/2500 DEG F
GA2005T	E	*	A-14-27	TEMP N05 HEAT SHIELD DFSC STG	*	*	0/2500 DEG F
GA2006T	E	*	A-14-32	TEMP N06 HEAT SHIELD DFSC STG	*	*	-100/2000 DEG F
GA2007T	E	*	A-14-33	TEMP N07 HEAT SHIELD DFSC STG	*	*	-100/2000 DEG F
GA2008T	E	*	A-14-35	TEMP N08 HEAT SHIELD DFSC STG	*	*	-100/2000 DEG F
GA2009T	E	*	A-14-36	TEMP N09 HEAT SHIELD DFSC STG	*	*	-100/2000 DEG F

DATA EVALUATION GUIDE
SA-204/LM-1 LM-1

* MEASUREMENT * NUMBER	* DISPLAY * REQUEST * NUMBER	* P * C	* TELEMETRY * CHANNEL	* MEASUREMENT * DESCRIPTION	* RECORD * NUMBER	* TR * NO	* RANGE/REMARKS
* GA2010T	* E	*	* A-14-38	* TEMP NO10 HEAT SHIELD DESC STG	*	*	* -250/500 DEG F
* GA2201T	* E	*	* A-14-39	* TEMP NO1 WINDOW	*	*	* -30/200 DEG F
* GA2202T	* E	*	* A-14-41	* TEMP NO2 WINDOW	*	*	* -30/200 DEG F
* GA2203T	* E	*	* A-14-42	* TEMP NO3 WINDOW	*	*	* -30/200 DEG F
* GA2524S	* E	*	* C-15/1	* LOAD +Y DESC ENG SHIP STRT NO4	*	*	* -4410/1370 LBS
* GA2681D	* E	*	* C-11	* VIR DESC STG ON TK NO1 X AXIS	*	*	* +- 10 G
* GA2682D	* E	*	* A-11-I-1/3	* VIR DESC STG ON TK NO1 Y AXIS	*	*	* +- 10 G
* GA2683D	* E	*	* B-11-I-2/3	* VIR DESC STG ON TK NO1 Z AXIS	*	*	* +- 10 G
* GA3001A	* E	*	* A-10	* ACCEL X AXIS NO1	*	*	* +- 10 G
* GA3002A	* E	*	* A-15/1	* ACCEL X AXIS NO2	*	*	* +- 20 RAD/S2
* GA3003A	* E	*	* B-10/2	* ACCEL Y AXIS NO1	*	*	* +- 2 G
* GA3004A	* E	*	* B-15/1	* ACCEL Y AXIS NO2	*	*	* +- 20 RAD/S2
* GA3005A	* E	*	* B-08/2	* ACCEL Z AXIS NO1	*	*	* +- 2 G
* GA3006A	* E	*	* C-1401	* ACCEL Z AXIS NO2	*	*	* +- 20 RAD/S2
* GA3601D	* E	*	* D-02C-H2/1	* VIR ASC STG EQUIP RACK X AXIS	*	*	* +- 20 G
* GA3602D	* E	*	* D-02C-H2/2	* VIR ASC STG EQUIP RACK Y AXIS	*	*	* +- 20 G
* GA3603D	* E	*	* D-02C-H2/3	* VIR ASC STG EQUIP RACK Z AXIS	*	*	* +- 20 G
* GA3661D	* E	*	* D-03C-G2/1	* VIR NO1 TUNNEL EQUIP AREA	*	*	* +- 30 G
* GA3662D	* E	*	* D-03C-G2/2	* VIR NO2 TUNNEL EQUIP AREA	*	*	* +- 30 G
* GA3663D	* E	*	* D-03C-G2/3	* VIR NO3 TUNNEL EQUIP AREA	*	*	* +- 30 G

DATA EVALUATION GUIDE
SA-204/LM-1 LM-1

MEASUREMENT NUMBER	DISPLAY REQUEST NUMBER	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
*	*	*	*	*	*	*	*
GB0201T	*	E	A-14-44	TEMP N01 ASCENT ENG COVER CAB	*	*	-30/250 DEG F
GB0203T	*	E	A-14-47	TEMP CABIN TUNNEL	*	*	-30/250 DEG F
GB0204T	*	E	B- E-69	TEMP N01 CABIN SKIN	*	*	-30/250 DEG F
GB0205T	*	E	A-14-50	TEMP N02 CABIN SKIN	*	*	-30/250 DEG F
GB0301T	*	E	B- E-19	TEMP N01 BOT SURF ASCENT STG	*	*	-250/500 DEG F
GB0302T	*	E	B-E-21	TEMP N02 BOT SURF ASCENT STG	*	*	-250/500 DEG F
GB0303T	*	E	B- E-23	TEMP N03 BOT SURF ASCENT STG	*	*	-250/500 DEG F
GB0304T	*	E	B- E-25	TEMP N04 BOT SURF ASCENT STG	*	*	-250/500 DEG F
GB0305T	*	E	B- E-26	TEMP N05 BOT SURF ASCENT STG	*	*	-250/500 DEG F
GB0306T	*	E	B- E-28	TEMP N06 BOT SURF ASCENT STG	*	*	-250/500 DEG F
GB0307T	*	E	B- E-30	TEMP N07 BOT SURF ASCENT STG	*	*	-250/500 DEG F
GB0401T	*	E	B- E-36	TEMP N01 TOP SURF DESCENT STG	*	*	-250/500 DEG F
GB0402T	*	E	B- E-34	TEMP N02 TOP SURF DESCENT STG	*	*	-250/500 DEG F
GB0403T	*	E	B- E-32	TEMP N03 TOP SURF DESCENT STG	*	*	-250/500 DEG F
GB0521T	*	E	B- E-40	TEMP N01 DFSC ENG RLAST DEFL	*	*	-250/500 DEG F
GB0522T	*	E	B- E-42	TEMP N02 DFSC ENG RLAST DEFL	*	*	-250/500 DEG F
GB0601T	*	E	B- E-46	TEMP N01 ASC ENG COMPT	*	*	-250/500 DEG F
GB0602T	*	E	B- E-48	TEMP N02 ASC ENG COMPT	*	*	-250/500 DEG F
GB0603T	*	E	B- E-50	TEMP N03 ASC ENG COMPT	*	*	-250/500 DEG F
GB0621P	*	E	A-08/2	PRESS N01 ASC ENG COMPT	*	*	0/2 PSIA
*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*

DATA EVALUATION GUIDE
SA-204/LM-1 LM-1

* MEASUREMENT * NUMBER	* DISPLAY* P * REQUEST* C	* TELEMETRY * CHANNEL	* MEASUREMENT * DESCRIPTION	* RECORD* TR * NUMBER* NO	* RANGE/REMARKS
GB0622P	E	A-04	PRESS N02 ASC ENG COMPT		0/2 PSIA
GB0623P	E	A-03	PRESS N03 ASC ENG COMPT		0/2 PSIA
GB0801P	E	C-08/2	PRESS N01 BOT SURF ASCENT STG		0/2 PSIA
GB0802P	E	B-07/2	PRESS N02 BOT SURF ASC STAGE		0/2 PSIA
GB0803P	E	B-02	PRESS N03 BOT SURF ASC STAGE		0/2 PSIA
GB0804P	E	B-03	PRESS N04 BOT SURF ASC STAGE		0/2 PSIA
GB0805P	E	C-03	PRESS N05 BOT SURF ASCENT STG		0/2 PSIA
GB0806P	E	A-02	PRESS N06 BOT SURF ASCENT STG		0/2 PSIA
GB0807P	E	A-05/2	PRESS N07 BOT SURF ASCENT STG		0/2 PSIA
GB0808P	E	A-06/2	PRESS N08 BOT SURF ASCENT STG		0/2 PSIA
GB0809P	E	A-07/2	PRESS N09 BOT SURF ASCENT STG		0/2 PSIA
GB0811P	E	B-04	PRESS N011 BOT SURF ASC STAGE		0/2 PSIA
GB0812P	E	B-05/2	PRESS N012 BOT SURF ASC STAGE		0/2 PSIA
GB0813P	E	A- E-13	PRESS N013 BOT SURF ASC STAGE		0/2 PSIA
GB0814P	E	A- E-14	PRESS N014 BOT SURF ASC STAGE		0/2 PSIA
GB0815P	E	A- E-15	PRESS N015 BOT SURF ASC STAGE		0/2 PSIA
GB0816P	E	A- E-16	PRESS N016 BOT SURF ASC STAGE		0/2 PSIA
GB0817P	E	A- E-17	PRESS N017 BOT SURF ASC STAGE		0/2 PSIA
GB0818P	E	A- E-18	PRESS N018 BOT SURF ASC STAGE		0/2 PSIA
GB0901P	E	A- E-19	PRESS N01 TOP SURF DESC STAGE		0/2 PSIA

DATA EVALUATION GUIDE
SA-204/LM-1 LM-1

MEASUREMENT NUMBER	DISPLAY REQUEST NUMBER	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
*	*	*	*	*	*	*	*
6B0902P	E	*	A- E-20	PRESS N02 TOP SURF DESC STAGE	*	*	0/2 PSIA
6B0903P	E	*	A- E-21	PRESS N03 TOP SURF DESC STAGE	*	*	0/2 PSIA
6B0904P	E	*	A- E-22	PRESS N04 TOP SURF DESC STAGE	*	*	0/2 PSIA
6B0905P	E	*	A- E-23	PRESS N05 TOP SURF DESC STAGE	*	*	0/2 PSIA
6B0906P	E	*	A- E-24	PRESS N06 TOP SURF DESC STAGE	*	*	0/2 PSIA
6B0907P	E	*	A- E-25	PRESS N07 TOP SURF DESC STAGE	*	*	0/2 PSIA
6B3021T	E	*	R- E-72	TEMP N01 INT DESC INS BLANKT	*	*	0/500 DEG F
6B3023T	E	*	A-14-51	TEMP N01 SURF DESC INS BLANKT	*	*	0/2500 DEG F
6B3025T	E	*	R- E-44	TEMP N02 INT DESC INS BLANKT	*	*	-250/500 DEG F
6B3027T	E	*	R- E-38	TEMP N02 SURF DESC INS BLANKT	*	*	-250/500 DEG F
6B3029T	E	*	R- E-66	TEMP N03 INT DESC INS BLANKT	*	*	0/500 DEG F
6B3031T	E	*	A-14-54	TEMP N03 SURF DESC INS BLANKT	*	*	-100/1250 DEG F
6B3033T	E	*	A-14-29	TEMP N04 SURF DESC INS BLANKT	*	*	-100/1250 DEG F
6B3035T	E	*	A-14-25	TEMP LM ASC OUTER SKIN AFT EB	*	*	0/500 DEG F
6B3036T	E	*	A-14-66	TEMP LM DSC OUTER SKIN -Z PNL	*	*	0/500 DEG F
6B3102H	E	*	A- F-09	SEP DIST MON INTERSTAGE N01	*	*	0/4 FEET
6B3103H	E	*	A- E-10	SEP DIST MON INTERSTAGE N02	*	*	0/4 FEET
6B3104H	E	*	A- E-11	SEP DIST MON INTERSTAGE N03	*	*	0/4 FEET
6B3105H	E	*	A- E-12	SEP DIST MON INTERSTAGE N04	*	*	0/4 FEET
6B3727T	E	*	A-14-57	TEMP N01 STEERABLE SB ANTENNA	*	*	-100/1250 DEG F
*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*

DATA EVALUATION GUIDE
SA-204/LM-1 LM-1

MEASUREMENT NUMBER	DISPLAY REQUEST NUMBER	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
GB3728T	E	*	B- F-87	TEMP N02 STEERABLE SR ANTENNA	*	*	-100/250 DEG F
GB3729T	E	*	B- E-80	TEMP N03 STEERABLE SR ANTENNA	*	*	-100/250 DEG F
GB3730T	E	*	A-14-60	TEMP N01 SR OMNI ANTENNA	*	*	-100/1250 DEG F
GB3733T	E	*	B- F-76	TEMP VHF IN-FLIGHT ANTENNA	*	*	-100/1250 DEG F
GB6001T	E	*	A-14-63	TEMP ELCT PKG COLD PLATE N01	*	*	0/150 DEG F
GB6002T	E	*	B- E-82	TEMP ELCT PKG COLD PLATE N01	*	*	0/150 DEG F

DATA EVALUATION GUIDE
SA-204/LM-1 LM-1

* MEASUREMENT * NUMBER	* DISPLAY* * REQUEST* * NUMBER	* P * * C *	* TELEMETRY * CHANNEL	* MEASUREMENT * DESCRIPTION	* RECORD* * NUMBER	* TR * * NO *	* RANGE/REMARKS
*****	*****	*****	*****	*****	*****	*****	*****
* GC0071V	* 5746	* E *	* 1022069 15	* VOLT, INVERTER BUS	*	*	* 0/125VRMS
* GC0155F	* 5771	* E *	* 1041069 15	* FREQ, INVERTER BUS	*	*	* 0/420 CPS
* GC0201V	* 6107	* E *	* 1019101 15	* VOLT, BATTERY NO1	*	*	* 0/40 VDC
* GC0202V	* 6077	* E *	* 1011101 15	* VOLT, BATTERY NO2	*	*	* 0/40 VDC
* GC0203V	* 6111	* E *	* 1021101 15	* VOLT, BATTERY NO3	*	*	* 0/40 VDC
* GC0204V	* 6103	* E *	* 1015101 15	* VOLT, BATTERY NO4	*	*	* 0/40 VDC
* GC0205V	* 5665	* E *	* 1003037 15	* VOLT, BATTERY NO5	*	*	* 0/40 VDC
* GC0206V	* 5674	* E *	* 1010037 15	* VOLT, BATTERY NO6	*	*	* 0/40 VDC
* GC0301V	* 5761	* E *	* 1033069 15	* VOLT, COMMANDER'S BUS	*	*	* 0/40 VDC
* GC0302V	* 6125	* E *	* 1033101 15	* VOLT, SYSTEM ENGR'S BUS	*	*	* 0/40 VDC
* GC1201C	* 6114	* E *	* 1024101 15	* CURR, BATTERY NO1	*	*	* 0/60 AMP
* GC1202C	* 5760	* E *	* 1032069 15	* CURR, BATTERY NO2	*	*	* 0/60 AMP
* GC1203C	* 5741	* E *	* 1017069 15	* CURR, BATTERY NO3	*	*	* 0/60 AMP
* GC1204C	* 5742	* E *	* 1018069 15	* CURR, BATTERY NO4	*	*	* 0/60 AMP
* GC1205C	* 5106	* E *	* 1018101 15	* CURR, BATTERY NO5	*	*	* 0/120 AMP
* GC1206C	* 5744	* E *	* 1020069 15	* CURR, BATTERY NO6	*	*	* 0/120 AMP
* GC3501T	*	* E *	* A-14-03	* TEMP BATT NO1CHAMB NO 2F	*	*	* 0/200 DEG F
* GC3502T	*	* E *	* A-14-04	* TEMP BATT NO2CHAMB NO 2F	*	*	* 0/200 DEG F
* GC3503T	*	* E *	* A-14-07	* TEMP BATT NO3	*	*	* 0/200 DEG F
* GC3504T	*	* E *	* A-14-10	* TEMP BATT NO4	*	*	* 0/200 DEG F
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DATE 16 JAN 68

APPENDIX Y PAGE 008

DATA EVALUATION GUIDE
SA-204/LM-1 LM-1

* MEASUREMENT * NUMBER	* DISPLAY * REQUEST * NUMBER	* P * C	* TELEMETRY * CHANNEL	* MEASUREMENT * DESCRIPTION	* RECORD * NUMBER	* TR * NO	* RANGE/REMARKS
*****	*****	*****	*****	*****	*****	*****	*****
* GC3505T	*	* E	* A-14-13	* TEMP BATT N05	*	*	* 0/200 DEG F
* GC3506T	*	* E	* A-14-16	* TEMP BATT N06	*	*	* 0/200 DEG F
* GC4361X	* 60368	* B	* 1035098H15	* HIGH VOLTAGE TAP BATTERY N01	*	*	* BI-LEVEL
* GC4362X	* 60367	* B	* 1035098G15	* LOW VOLTAGE TAP BATTERY N01	*	*	* BI-LEVEL
* GC4363X	* 60366	* B	* 1035098F15	* HIGH VOLTAGE TAP BATTERY N02	*	*	* BI-LEVEL
* GC4364X	* 60365	* B	* 1035098F15	* LOW VOLTAGE TAP BATTERY N02	*	*	* BI-LEVEL
* GC4365X	* 60364	* B	* 1035098D15	* HIGH VOLTAGE TAP BATTERY N03	*	*	* BI-LEVEL
* GC4366X	* 60363	* B	* 1035098C15	* LOW VOLTAGE TAP BATTERY N03	*	*	* BI-LEVEL
* GC4367X	* 60362	* B	* 1035098B15	* HIGH VOLTAGE TAP BATTERY N04	*	*	* BI-LEVEL
* GC4368X	* 60361	* B	* 1035098A15	* LOW VOLTAGE TAP BATTERY N04	*	*	* BI-LEVEL
* GC4369X	* 60418	* B	* 1039098H15	* BATTERY N05 ON COMMANDER'S BUS	*	*	* BI-LEVEL
* GC4370X	* 60417	* B	* 1039098G15	* BATTERY N06 ON COMMANDER'S BUS	*	*	* BI-LEVEL
* GC4371X	* 60416	* B	* 1039098F15	* BATTERY N05 ON SYS ENGR'S BUS	*	*	* BI-LEVEL
* GC4372X	* 60415	* B	* 1039098E15	* BATTERY N06 ON SYS ENGR'S BUS	*	*	* BI-LEVEL
* GC9961U	* 60618	* B	* 1034100H15	* BATTERY N01 MALFUNCTION	*	*	* BI-LEVEL
* GC9962U	* 60617	* B	* 1034100G15	* BATTERY N02 MALFUNCTION	*	*	* BI-LEVEL
* GC9963U	* 60616	* B	* 1034100F15	* BATTERY N03 MALFUNCTION	*	*	* BI-LEVEL
* GC9964U	* 60615	* B	* 1034100E15	* BATTERY N04 MALFUNCTION	*	*	* BI-LEVEL
* GC9965U	* 60614	* B	* 1034100D15	* BATTERY N05 MALFUNCTION	*	*	* BI-LEVEL
* GC9966U	* 60613	* B	* 1034100C15	* BATTERY N06 MALFUNCTION	*	*	* BI-LEVEL
*****	*****	*****	*****	*****	*****	*****	*****

DATE 16 JAN 68

APPENDIX Y PAGE 009

DATA EVALUATION GUIDE
SA-204/LM-1 LM-1

MEASUREMENT NUMBER	DISPLAY REQUEST NUMBER	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
GF2021P	5740	E	1016069 15	DEL P, PRIM COOLANT PUMP			0/50 PSID
GF2041X		B	1004098F15	COOL ACCUM FLUID LVL LOW			BI-LEVEL
GF2521T		E	B- E-85	TEMP MAIN W/B COOLANT INLET			0/200 DEG F
GF2621T		E	A-14-69	TEMP CABIN HX COOLANT INLET			20/120 DEG F
GF2781T		E	A-14-73	TEMP REGEN HX COOLANT OUT (HOT)			0/200 DEG F
GF2841T		E	A-14-82	TEMP REGAN HX COOLANT IN (HOT)			0/200 DEG F
GF2871T		E	B- E-52	TEMP CABIN HX COOLANT OUT			20/120 DEG F
GF3071X	60066 60216	B	1005098F15 1019098F15	OX REG VLV 306A LOCKED CLOSED			BI-LEVEL
GF3072X	60065 60215	B	1005098E15 1019098E15	OX REG VLV 306A OPEN POSITION			BI-LEVEL
GF3073X	60064 60214	B	1005098D15 1019098D15	OX REG VLV 306B LOCKED CLOSED			BI-LEVEL
GF3074X	60063 60213	B	1005098C15 1019098C15	OX REG VLV 306B OPEN POSITION			BI-LEVEL
GF3571P	6112		1022101 15	PRESS, CABIN			
GF3582P	6145	E	1049101 15	PRESS, ASCENT 02 TK 1			0/25 PSIA
GF3583P	6243	E	1041037 15	PRESS, ASCENT 02 TK 2			0/25 PSIA
GF3591P	6002	E	1050069 15	PRESS, SAFETY VLV NO1 SERVO			0/25 PSIA
GF3592P	6143	E	1047101 15	PRESS, SAFETY VLV NO2 SERVO			0/25 PSIA
GF4101P		E	1022037 15	DEL P, MAIN H2O REG/ARS			0/2 PSID
GF4102P		E	C- E-71	DEL P REDUND H2O REG/ARS			0/2 PSID

DATA EVALUATION GUIDE
SA-204/LM-1 LM-1

MEASUREMENT NUMBER	DISPLAY REQUEST NUMBER	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
GF4511T	5662	E	1050005 15	TEMP,MAIN W/R INLET WATER			0/160 DEG F
GF4541T	5660	E	1048005 15	TEMP,SUIT W/R INLET WATER			0/160 DEG F
GF4561T		E	A-14-75	TEMP DESCENT TANK OUTLET H2O			0/200 DEG F
GF4562T		E	B- E-54	TEMP ASC TANK NO1 OUTLET H2O			0/200 DEG F
GF4563T		E	A-14-80	TEMP ASCENT TK NO2 OUTLET H2O			0/200 DEG F
GF45820	5670	E	1006037 15	QUANTITY, ASC TK 1 WATER			0/100 PCT
GF45830	5671	E	1007037 15	QUANTITY, ASC TK 2 WATER			0/100 PCT
GF9996U		E	C- E-10	RATE SELECTED COOLANT PUMP			2000/6000 RPM
GF9997U	5723	E	1003069 15	PRESS,SLCTD PUMP DISCHARGE			DISCRETE
GF9998U	5756	E	1030069 15	TEMP,SLCTD W/R COOLANT OUT			DISCRETE

DATA EVALUATION GUIDE
SA-204/LM-1 LM-1

MEASUREMENT NUMBER	DISPLAY REQUEST NUMBER	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
GG0001X	5514	E	5101121 15	PGNS DOWNLINK DATA(TO TLM)			DISCRETE
GG1040V	5721	E	1001069 15	VOLT,120 VDC PULSE TORQUE REF			85/135 VDC
GG1110V	5607	E	1007005 15	VOLT,2.5 VDC TM BIAS,PCM			0/5 VDC
GG1201V	6232	E	1032037 15	VOLT,IMU 28V,800C 1P-00 SUPPLY			0/31.1 VRMS
GG1331V	5664	E	1002037 15	VOLT,3.2KC,28V SUPPLY			0/31.1 VRMS
GG1513X		B	1008098H15	IMU STANDBY/OFF			BI-LEVEL
GG1523X		B	1008098G15	LGC OPERATE			BI-LEVEL
GG2001V	5420	E	5101058 15	VOLT,X PIPA SG OUTPUT IN PHASE			+2.5 VRMS
GG2021V	5417	E	5101057 15	VOLT,Y PIPA SG OUTPUT IN PHASE			+2.5 VRMS
GG2041V	5421	E	5101059 15	VOLT,Z PIPA SG OUTPUT IN PHASE			+2.5 VRMS
GG2107V	5361	E	1201017 15	VOLT,IG SERVO ERROR IN-PHASE			+3 VRMS
GG2110C	5407	E	1201055 15	CURR,IG TORQUE MOTOR INPUT			+0.5 AMP
GG2112V	5504	E	1102099 15	VOLT,IG 1X RES OUTPUT,SIN			+20.25 VRMS
GG2113V	5471	E	1102067 15	VOLT,IG 1X RES OUTPUT,COS			+20.25 VRMS
GG2121V	5366	E	1201022 15	VOLT,IG 1X RES SIN (EXPANDED)			+5 VRMS
GG2137V	5403		1201051 15	VOLT,MG SERVO ERROR IN-PHASE			
GG2140C	5376	E	1201031 15	CURR,MG TORQUE MOTOR INPUT			+0.5 AMP
GG2142V	5442	E	1102034 15	VOLT,MG 1X RES OUTPUT,SIN			+20.25 VRMS
GG2143V	5457	E	1102065 15	VOLT,MG 1X RES OUTPUT,COS			+20.25 VRMS
GG2151V	5362	E	1201018 15	VOLT,MG 1X RES SIN (EXPANDED)			+5 VRMS

DATA EVALUATION GUIDE
SA-204/LM-1 LM-1

MEASUREMENT NUMBER	DISPLAY REQUEST NUMBER	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
GF4511T	5662	E	1050005 15	TEMP,MAIN W/R INLET WATER			0/160 DEG F
GF4541T	5660	E	1048005 15	TEMP,SUIT W/R INLET WATER			0/160 DEG F
GF4561T		E	A-14-75	TEMP DESCENT TANK OUTLET H2O			0/200 DEG F
GF4562T		E	B- E-54	TEMP ASC TANK NO1 OUTLET H2O			0/200 DEG F
GF4563T		E	A-14-80	TEMP ASCENT TK NO2 OUTLET H2O			0/200 DEG F
GF45820	5670	E	1006037 15	QUANTITY, ASC TK 1 WATER			0/100 PCT
GF45830	5671	E	1007037 15	QUANTITY, ASC TK 2 WATER			0/100 PCT
GF9996U		E	C- E-10	RATE SELECTED COOLANT PUMP			2000/6000 RPM
GF9997U	5723	E	1003069 15	PRESS,SLCTD PUMP DISCHARGE			DISCRETE
GF9998U	5756	E	1030069 15	TEMP,SLCTD W/R COOLANT OUT			DISCRETE

LM-1

DATA EVALUATION GUIDE
SA-204/LM-1 LM-1

* MEASUREMENT * NUMBER	* DISPLAY* P * REQUEST* C * NUMBER *	* TELEMETRY * CHANNEL	* MEASUREMENT * DESCRIPTION	* RECORD* TR * NUMBER* NO	* RANGE/REMARKS
*****	*****	*****	*****	*****	*****
* 6G2167V	* 5365	* E * 1201021 15	* VOLT,06 SERVO ERROR IN-PHASE	* *	* +-3 VRMS
* 6G2170C	* 5367	* E * 1201023 15	* CURR,06 TORQUE MOTOR INPUT	* *	* +-0.9 AMP
* 6G2172V	* 5472	* E * 1103067 15	* VOLT,06 1X RES OUTPUT,SIN	* *	* +-20.25 VRMS
* 6G2173V	* 5440	* * 1104033 15	* VOLT,06 1X RES OUTPUT,COS	* *	* -
* 6G2181V	* 5406	* E * 1201054 15	* VOLT,06 1X RES SIN (EXPANDED)	* *	* +-5 VRMS
* 6G2219V	* 5500	* E * 1104068 15	* VOLT,PITCH CDU DAC OUT	* *	* +-5 VRMS
* 6G2220V	*	* E * A- E-27	* VOLT IG CDU FINE ERROR	* *	* +-1.2 VRMS
* 6G2249V	* 5511	* E * 1102100 15	* VOLT,YAW CDU DAC OUT	* *	* +-5 VRMS
* 6G2250V	*	* E * A- E-29	* VOLT MG CDU FINE ERROR	* *	* +-1.2 VRMS
* 6G2279V	* 5465	* E * 1103066 15	* VOLT,ROLL CDU DAC OUT	* *	* +-5 VRMS
* 6G2280V	*	* E * C- E-09	* VOLT 06 CDU FINE ERROR	* *	* +-1.2 VRMS
* 6G2300T	* 6124	* E * 1032101 15	* TEMP,PIPA	* *	* 120/140 DEG F
* 6G2301T	* 5757	* E * 1031069 15	* TEMP,IRIG	* *	* 123/143 DEG F
* 6G3311V	*	* E * C- E-28	* VOLT RDR SHAFT CDU FINE ERROR	* *	* +-1.2 VRMS
* 6G3321V	*	* E * C- E-87	* VOLT RDR TRUN CDV FINE ERROR	* *	* +-1.2 VRMS
* 6G6001D	*	* E * D-5C-H-1/1	* VIR NAV BASE (ROLL)	* *	* +-2 G
* 6G6002D	*	* E * D-5C-H-1/2	* VIR NAV BASE (PITCH)	* *	* +-2 G
* 6G6003D	*	* E * D-5C-H-1/3	* VIR NAV BASE (YAW)	* *	* +-2 G
* 6G6020T	* 6121	* E * 1029101 15	* TEMP,PIPA CAL MOD	* *	* 0/150 DEG F
* 6G9001Y	*	* B * 1032098H15	* LGC (WARNING)	* *	* BI-LEVEL
* *	* *	* *	* *	* *	* *
* *	* *	* *	* *	* *	* *
* *	* *	* *	* *	* *	* *
* *	* *	* *	* *	* *	* *
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DATA EVALUATION GUIDE
SA-204/LM-1 LM-1

MEASUREMENT NUMBER	DISPLAY REQUEST NUMBER	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
GG9002X		B	1032098G15	ISS (WARNING)			BI-LEVEL
GG9003X		B	1032098F15	PGNS (CAUTION)			BI-LEVEL
GP0908X		B	1029100H15	FUEL TANK LEVEL LOW			BI-LEVEL

DATA EVALUATION GUIDE
SA-204/LM-1 LM-1

* MEASUREMENT * NUMBER	* DISPLAY* P * REQUEST* C	* TELEMETRY * CHANNEL	* MEASUREMENT * DESCRIPTION	* RECORD* TR * NUMBER* NO	* RANGE/REMARKS
* GH1204X	* 60378 * B *	* 1037098H15	* ACA OUT OF DETENT	* *	* BI-LEVEL
* GH1214X	* 60318 * R *	* 1029098H15	* AUTO ENG 'ON' CMD	* *	* BI-LEVEL
* GH1217X	* 60377 * B *	* 1037098G15	* AUTO ENG 'OFF' CMD	* *	* BI-LEVEL
* GH1230X	* 60478 * B *	* 1047098H15	* ASC ENG ARM(FROM PNL)	* *	* BI-LEVEL
* GH1240V	* 5456 * E *	* 1101065 15	* VOLT, 'X' TRANS CMD	* *	* +-10 VDC
* GH1241T	* 5436 * E *	* 1102033 15	* VOLT, Y TRANS CMD	* *	* +-10 VDC
* GH1242T	* 5437 * E *	* 1103033 15	* VOLT, Z TRANS CMD	* *	* +-10 VDC
* GH1247V	* 5477 * *	* 1103068 15	* VOLT, YAW LOGIC INPUT ERROR	* *	
* GH1248V	* 5466 * *	* 1104066 15	* VOLT PITCH LOGIC INPUT ERROR	* *	
* GH1249V	* 5502 * *	* 1101098 15	* VOLT, ROLL LOGIC INPUT ERROR	* *	
* GH1260X	* 54158 * B *	* 5101024H15	* A.F. ON/OFF TO PROP	* *	* BI-LEVEL
	* 54168 * *	* 5101032H15		* *	
* GH1283X	* 54157 * B *	* 5101024G15	* ABORT STAGE COMMANDED	* *	* BI-LEVEL
	* 54167 * *	* 5101032G15		* *	
* GH1286X	* 60376 * B *	* 1037098F15	* ENG FIRE OVERRIDE	* *	* BI-LEVEL
* GH1301X	* 60317 * R *	* 1029098G15	* DESC ENG -ON- TO PROP	* *	* BI-LEVEL
* GH1311V	* 5643 * E *	* 1035005 15	* VOLT, MANUAL THRUST CMD	* *	* 2.6/14.6 VDC
* GH1313V	* 5450 * *	* 1104035 15	* VOLT, PITCH GDA POS (RET/EXT)	* *	
* GH1314V	* 5454 * *	* 1104036 15	* VOLT, ROLL GDA POS (RET/EXT)	* *	
* GH1323X	* 60316 * B *	* 1029098F15	* PITCH TRIM FAIL	* *	* BI-LEVEL
* GH1330X	* 60315 * B *	* 1029098E15	* ROLL TRIM FAIL	* *	* BI-LEVEL

DATA EVALUATION GUIDE
SA-204/LM-1 LM-1

* MEASUREMENT * NUMBER	* DISPLAY* P * REQUEST* C	* TELEMETRY * CHANNEL	* MEASUREMENT * DESCRIPTION	* RECORD* TR * NUMBER* NO	* RANGE/REMARKS
* GH1331V	* 5453	* 1103036 15	* VOLT,AUTO THRUST CMD	*	*
* GH1348X	* 60477	* B * 1047098615	* DESC ENG ARM (DECA OUT)	*	* BI-LEVEL
* GH1418V	* 53461	* B * 2201006A15	* VOLT,JET N04U DRVR OUT	*	* BI-LEVEL
* GH1419V	* 53462	* B * 2201006B15	* VOLT,JET N04D DRVR OUT	*	* BI-LEVEL
* GH1420V	* 53463	* B * 2201006C15	* VOLT,JET N04F DRVR OUT	*	* BI-LEVEL
* GH1421V	* 53464	* B * 2201006D15	* VOLT,JET N04S DRVR OUT	*	* BI-LEVEL
* GH1422V	* 53465	* B * 2201006E15	* VOLT,JET N03U DRVR OUT	*	* BI-LEVEL
* GH1423V	* 53466	* B * 2201006F15	* VOLT,JET N03D DRVR OUT	*	* BI-LEVEL
* GH1424V	* 53467	* B * 2201006G15	* VOLT,JET N03F DRVR OUT	*	* BI-LEVEL
* GH1425V	* 53468	* B * 2201006H15	* VOLT,JET N03S DRVR OUT	*	* BI-LEVEL
* GH1426V	* 53471	* B * 2201007A15	* VOLT,JET N02U DRVR OUT	*	* BI-LEVEL
* GH1427V	* 53472	* B * 2201007B15	* VOLT,JET N02D DRVR OUT	*	* BI-LEVEL
* GH1428V	* 53473	* B * 2201007C15	* VOLT,JET N02F DRVR OUT	*	* BI-LEVEL
* GH1429V	* 53474	* B * 2201007D15	* VOLT,JET N02S DRVR OUT	*	* BI-LEVEL
* GH1430V	* 53475	* B * 2201007E15	* VOLT,JET N01U DRVR OUT	*	* BI-LEVEL
* GH1431V	* 53476	* B * 2201007F15	* VOLT,JET N01D DRVR OUT	*	* BI-LEVEL
* GH1432V	* 53477	* B * 2201007G15	* VOLT,JET N01F DRVR OUT	*	* BI-LEVEL
* GH1433V	* 53478	* B * 2201007H15	* VOLT,JET N01S DRVR OUT	*	* BI-LEVEL
* GH1450V	* E	* B- E-70	* VOLT PITCH TRIM ERROR	*	* +-14 VDC
* GH1452V	* E	* B- E-71	* VOLT ROLL TRIM ERROR	*	* +-14 VDC

DATA EVALUATION GUIDE
SA-204/LM-1 LM-1

MEASUREMENT NUMBER	DISPLAY REQUEST NUMBER	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
GH1461V	5443	E	1103034 15	VOLT,YAW RG SIG (.8KC)			+3.5 VRMS
GH1462V	5444	E	1104034 15	VOLT,PITCH RG SIG (.8KC)			+3.5 VRMS
GH1463V	5473	E	1104067 15	VOLT,ROLL RG SIG (.8KC)			+3.5 VRMS
GH1603X	60476	B	1047098F15	DEADBAND SELECT (WIDE)			BI-LEVEL
GH1608X	60375	B	1037098E15	SCS MODE SELECT (AUTO)			BI-LEVEL
GH1609X	60374	B	1037098D15	SCS MODE SELECT (ATT HOLD)			BI-LEVEL
GH1621X	60314	B	1029098D15	GUIDANCE SELECT SWITCH (AGS)			BI-LEVEL
GH1896X	60373	B	1037098C15	UNBALANCED COUPLES			BI-LEVEL

1 M-1

MEASUREMENT NUMBER	DISPLAY REQUEST NUMBER	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
GL0401V	5505	*	1103099 15	VOLT,CALIB 85 PCT HL			
GL0402V	5506	E	1104099 15	VOLT,CALIB 15 PCT HL			0/5 VDC
GL4026X	60118 60248	B	1009098H15 1023098H15	(6DS6) CES AC PWR SUPP FAIL W			BI-LEVEL
GL4027X	60117 60247	B	1009098G15 1023098G15	(6DS7) CES DC PWR SUPP FAIL W			BI-LEVEL
GL4054X	60115 60245	B	1009098E15 1023098E15	(6DS34)C+WE POWER CAUTION			BI-LEVEL
GL4069X	60114 60244	B	1009098D15 1023098D15	C+WE MASTER ALARM ID			BI-LEVEL
GL4221X	60636	B	1044100F15	DET T/M CAL.			BI-LEVEL
GL4222X	60635	B	1044100E15	DET SWITCHOVER			BI-LEVEL

1 M-1

MEASUREMENT NUMBER	DISPLAY REQUEST NUMBER	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
GN7559D	E	*	R-11-I-2/1	V1R LR ANTENNA			+20 G
GN7564T	E	*	A-14-55	TEMP N01 LR ANTENNA			-250/500 DEG F
GN7565T	E	*	A-14-56	TEMP N02 LR ANTENNA			-250/500 DEG F
GN7691D	E	*	A-11-I-1/1	V1R RR ANT DISH			+10 G
GN7721T	E	*	R- F-75	TEMP N01 RR ANTENNA			-100/1250 DEG F
GN7722T	E	*	A-14-52	TEMP N02 RR ANTENNA			-100/2000 DEG F

DATA EVALUATION GUIDE
SA-204/LM-1 LM-1

* MEASUREMENT * NUMBER	* DISPLAY* P * REQUEST* C * NUMBER *	* TELEMETRY * CHANNEL	* MEASUREMENT * DESCRIPTION	* RECORD* TR * NUMBER* NO	* RANGE/REMARKS
*****	*****	*****	*****	*****	*****
* GP0001P	* 6242	* E * 1040037 15	* PRESS,HE SUPPLY TANK N01	* *	* 0/4000 PSIA
* GP0002P	* 6223	* E * 1025037 15	* PRESS,HE SUPPLY TANK N02	* *	* 0/4000 PSIA
* GP0019P	*	* E * C-10/2	* PRESS HE PRI UPSTREAM REG IN	* *	* 0/4000 PSIA
* GP0020P	*	* E * C-04/2	* PRESS HE SEC UPSTREAM REG IN	* *	* 0/4000 PSIA
* GP0025P	*	* E * A-12/2	* PRESS REG OUT MANIF	* *	* 0/300 PSIA
* 5732	*	* * 1010069 15	*	* *	*
* GP0201T	* 6127	* E * 1035101 15	* TEMP,HE SUPPLY TANK N01	* *	* +-200 DEG F
* GP0202T	* 5666	* E * 1004037 15	* TEMP,HE SUPPLY TANK N02	* *	* +-200 DEG F
* GP0318X	* 60518	* B * 1049098H15	* HE PRI LINE SOL VLV CLOSED	* *	* BI-LEVEL
* GP0320X	* 60517	* B * 1049098615	* HE SEC LINE SOL VLV CLOSED	* *	* BI-LEVEL
* GP0501P	*	* E * C- E-72	* PRESS FUEL TANK ULLAGE	* *	* 0/350 PSIA
* GP0504P	*	* E * C-E-23	* PRESS FUEL TK VENT RLF VLV IN	* *	* 0/350 PSIA
* GP0616P	*	* E * C- E-24	* DEL P FUEL TK BOT TO INTERFCE	* *	* 0/35 PSID
* GP0718T	* 5640	* E * 1032005 15	* TEMP,FUEL TANK FUEL BULK	* *	* 20/120 DEG F
* GP1001P	*	* E * C- E-12	* PRESS OX TANK ULLAGE	* *	* 0/350 PSIA
* GP0908X	*	* B * 1029100H15	* FUEL TANK LEVEL LOW	* *	* BI-LEVEL
* GP1004P	*	* E * C- E-25	* PRESS OX TK VENT RLF VLV IN	* *	* 0/350 PSIA
* GP1116P	*	* E * C- E-26	* DEL P OX TK BOT TO INTERFACE	* *	* 0/35 PSID
* GP1218T	* 6234	* E * 1034037 15	* TEMP,OX TANK OX BULK	* *	* 20/120 DEG F
* GP1408X	* 60607	* B * 1029100G15	* OX TANK LEVEL LOW	* *	* BI-LEVEL
* GP1501P	*	* E * A-13/2	* PRESS FUEL ISOL VALVE INLET	* *	* 0/250 PSIA
*	*	* E * 1017037 15	*	* *	*
*	*	*	*	* *	*
*	*	*	*	* *	*
*	*	*	*	* *	*
*	*	*	*	* *	*
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DATE 16 JAN 68

APPENDIX Y PAGE 020

DATA EVALUATION SHEET
SA-204/LM-1 LM-1

MEASUREMENT NUMBER	DISPLAY* NUMBER	P * REQUEST C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD* NUMBER	TR NO	RANGE/REMARKS
GP1503P	5621	E	B-13/2	PRESS OX ISOL VALVE INLET			0/250 PSIA
GP2001P		E	C-13/2	PRESS FUEL INJECTOR INLET			0/250 PSIA
GP2006P		E	B-14/2	PRESS OX INJECTOR INLET			0/250 PSIA
GP2010P	6247	E	C-16/2	PRESS THRUST CHAMBER			0/150 PSIA
GP2701T		E	B- E-51	TEMP THR CHM EXTERNL WALL N01			0/500 DEG F
GP2702T		E	B- E-53	TEMP THR CHM EXTERNL WALL N02			0/500 DEG F
GP2703T		E	B- E-55	TEMP THR CHM EXTERNL WALL N03			0/500 DEG F
GP2704T		E	B- E-57	TEMP THR CHM EXTERNL WALL N04			0/500 DEG F
GP2706T		E	B- E-59	TEMP INJECTOR SURFACE			0/500 DEG F
GP2801D		E	D-4C/2	VIB THRUST CHAMBER XX AXIS			0/25 G
GP2802D		E	D-8C/2	VIB THRUST CHAMBER YY AXIS			0/25 G
GP2803D		E	D-9C/2	VIB THRUST CHAMBER ZZ AXIS			0/25 G
GP2997U	53778	B	1201040H15	ISOL/BIPROP VLVS A MISMATCH			BI-LEVEL
	60406		1038098F15				
GP2998U	53777	B	1201040G15	ISOL/BIPROP VLVS B MISMATCH			BI-LEVEL
	60405		1038098E15				
GP7615T		E	A-14-83	TEMP FUEL TANK OUTLET			0/200 DEG F
GP7625T		E	A-14-85	TEMP OXID TANK OUTLET			0/200 DEG F

DATA EVALUATION GUIDE
SA-204/LM-1 LM-1

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* MEASUREMENT * DISPLAY* P * TELEMETRY * MEASUREMENT * RECORD* TP *
* NUMBER * REQUEST* C * CHANNEL * DESCRIPTION * NUMBER* NO * RANGE/REMARKS *
* * NUMBER * * * * *
*****
* * * * *
* GQ3009P * * E * C-10/1 * PRESS HE PRI UPSTREAM REG IN * * * 0/2000 PSIA *
* * * * *
* GQ3010P * * E * C-04/1 * PRESS HE SEC UPSTREAM REG IN * * * 0/2000 PSIA *
* * * * *
* GQ3018P * * E * A-12/1 * PRESS HE REG OUT MANIF * * * 0/300 PSIA *
* * 5614 * * 1012005 15 * * * *
* * * * *
* GQ3309X * 60456 * B * 1044098F15 * HE PRI SOL VLV CLOSED * * * BI-LEVEL *
* * * * *
* GQ3310X * 60455 * B * 1044098E15 * HE SEC SOL VLV CLOSED * * * BI-LEVEL *
* * * * *
* GQ3435P * 5722 * E * 1002069 15 * PRESS, SUPER/CRIT HE SUPP TANK * * * 0/2000 PSIA *
* * * * *
* GQ3451T * * E * B- E-60 * TEMP SUPER/CRIT HE SUPPLY OUTL * * * -425/-300 DEG R *
* * * * *
* GQ3455T * * E * B- E-03 * TEMP SUPER/CRIT HE/HE HX INLT * * * -210/-75 DEG R *
* * * * *
* GQ3459T * * E * B- E-04 * TEMP SUPR/CRIT HE/HE HX OUTLT * * * -360/-50 DEG R *
* * * * *
* GQ3463T * * E * B- E-06 * TEMP SUPER/CRT FUEL/HE HX OUT * * * -210/-75 DEG R *
* * * * *
* GQ3476T * * E * B- E-08 * TEMP SUPER/CRIT HE TK AMB NO1 * * * 0/200 DEG F *
* * * * *
* GQ3501P * * E * C- E-33 * PRESS ULLAGE FUEL TANK NO1 * * * 0/350 PSIA *
* * * * *
* GQ3505P * * E * C- E-34 * PRESS FUEL TK VENT RLF VLV IN * * * 0/350 PSIA *
* * * * *
* GQ3603C * 5634 * * 1028005 15 * QUANTITY, FUEL TANK NO 1 * * * *
* * * * *
* GQ3604C * 6225 * * 1027037 15 * QUANTITY, FUEL TANK NO 2 * * * *
* * * * *
* GQ3611P * * E * A-13/1 * PRESS ENG INTERFACE FUEL * * * 0/300 PSIA *
* * 5750 * E * 1024069 15 * * * *
* * * * *
* GQ3666P * * E * C- E-35 * DEL P FL TK NO2 BOT ENG INTFC * * * 0/35 PSID *
* * * * *
* GQ3718T * 5602 * E * 1002005 15 * TEMP, FUEL TANK NO1 FUEL BULK * * * 20/120 DEG F *
* * * * *
* GQ3719T * 6231 * E * 1031037 15 * TEMP, FUEL TANK NO2 FUEL BULK * * * 20/120 DEG F *
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DATE 16 JAN 68

APPENDIX Y PAGE 022

DATA EVALUATION GUIDE
SA-204/LM-1 LM-1

* MEASUREMENT * NUMBER	* DISPLAY* P * REQUEST* C * NUMBER *	* TELEMETRY * CHANNEL	* MEASUREMENT * DESCRIPTION	* RECORD* TP * NUMBER* NO	* RANGE/REMARKS
*****	*****	*****	*****	*****	*****
* GQ3811T	* *	* E * B- E-67	* TEMP ENGINE INTERFACE FUEL	* *	* 0/200 DEG F
* GQ4001P	* *	* E * C- E-14	* PRESS OX TANK NO1 ULLAGE	* *	* 0/350 PSIA
* GQ4005P	* *	* E * C- E-41	* PRESS OX TK VENT RLF VLV IN	* *	* 0/350 PSIA
* GQ4103Q	* 6245	* E * 1043037 15	* QUANTITY,OXID TANK NO 1	* *	* 0/95 PCT
* GQ4104Q	* 6235	* E * 1035037 15	* QUANTITY,OXID TANK NO 2	* *	* 0/95 PCT
* GQ4111P	* 6071	* E * B-13/1	* PRESS ENGINE INTERFACE OXID	* *	* 0/300 PSIA
* GQ4116P	* *	* E * C- E-36	* DEL P OX TK NO1 ROT ENG INTEC	* *	* 0/35 PSID
* GQ4218T	* 6065	* E * 1001101 15	* TEMP,OX TANK NO1 OX BULK	* *	* 20/120 DEG F
* GQ4219T	* 6075	* E * 1009101 15	* TEMP,OX TANK NO2 OX BULK	* *	* 20/120 DEG F
* GQ4311T	* *	* E * B- E-68	* TEMP ENGINE INTERFACE OXID	* *	* 0/200 DEG F
* GQ4455X	* *	* B * 1038098615	* PROPELLANT TANKS LOD LOW	* *	* RI-LEVEL
* GQ6501P	* *	* E * C-13/1	* PRESS FUEL INJECTOR INLET	* *	* 0/300 PSIA
* GQ6506P	* *	* E * B-14/1	* PRESS OX INJECTOR INLET	* *	* 0/300 PSIA
* GQ6510P	* 6110	* E * C-16/1	* PRESS THRUST CHAMBER	* *	* 0/200 PSIA
* GQ6806H	* 5422	* E * 5101060 15	* POS,VARIABLE INJ ACTUATOR	* *	* 0/100 PCT
* GQ7206T	* *	* E * B- E-15	* TEMP INJECTOR SURFACE	* *	* 0/500 DEG F
* GQ7211T	* *	* E * B- E-63	* TEMP NO 1 DESC ENG THROAT	* *	* 0/500 DEG F
* GQ7212T	* *	* E * B- E-64	* TEMP NO 2 DESC ENG THROAT	* *	* 0/500 DEG F
* GQ7213T	* *	* E * B- E-65	* TEMP NO 3 DESC ENG THROAT	* *	* 0/500 DEG F
*****	*****	*****	*****	*****	*****

DATA EVALUATION GUIDE
SA-204/LM-1 LM-1

MEASUREMENT NUMBER	DISPLAY REQUEST NUMBER	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
607214T		E	B- E-73	TEMP NO 4 DESC ENG THROAT			0/500 DEG F
607301D		E	D-4C/1	VIP THRUST CHAMBER XX AXIS			0/30 G
607302D		E	D-8C/1	VIP THRUST CHAMBER YY AXIS			0/30 G
607303D		E	D-9C/1	VIP THRUST CHAMBER ZZ AXIS			0/30 G
607498U	53776 60404	B	1201040E15 1038098D15	SHUTOFF VLVS A/R MID POS			BI-LEVEL
607499U	53775 60404	B	1201040E15 1038098C15	SHUTOFF VLVS C/D MID POS			BI-LEVEL

DATA EVALUATION GUIDE
SA-204/LM-1 LM-1

* MEASUREMENT * NUMBER	* DISPLAY* P * REQUEST* C * NUMBER *	* TELEMETRY * CHANNEL	* MEASUREMENT * DESCRIPTION	* RECORD* TR * NUMBER* NO	* RANGE/REMARKS
GR10850	* 5772	* E *	1042069 15	* QTY, PROPELLANT SYSTEM B	* 0/100 PCT
GR1089T	* 5763	* E *	1035069 15	* TEMP, SURFACE HE TANK SYS A	* 20/120 DEG F
GR10950	* 5766	* E *	1038069 15	* QTY, PROPELLANT SYSTEM B	* 0/100 PCT
GR1099T	* 5770	* E *	1040069 15	* TEMP, SURFACE HE TANK SYS B	* 20/120 DEG F
GR1101P	* 6233	* E *	1033037 15	* PRESS, HELIUM TANK A	* 0/3500 PSIA
GR1102P	* 5641	* E *	1033005 15	* PRESS, HELIUM TANK B	* 0/3500 PSIA
GR1201P	* 5636	* E *	1030005 15	* PRESS, HE REGULATOR A OUTPUT	* 0/3500 PSIA
GR1202P	* 5645	* E *	1037005 15	* PRESS, HE REGULATOR B OUTPUT	* 0/3500 PSIA
GR2121T	* 5704	* E *	1018037 15	* TEMP, FUEL TANK A	* 20/120 DEG F
GR2122T	* 5706	* E *	1020037 15	* TEMP, FUEL TANK B	* 20/120 DEG F
GR2201P	* 5350	* E *	2201009 15	* PRESS, A FUEL MNFLD	* 0/350 PSIA
GR2202P	* 5352	* E *	2201011 15	* PRESS, B FUEL MNFLD	* 0/350 PSIA
GR3201P	* 5355	* E *	2201014 15	* PRESS, A OXID MNFLD	* 0/350 PSIA
GR3202P	* 5351	* E *	2201010 15	* PRESS, B OXID MNFLD	* 0/350 PSIA
GR4322T	*	* E *	A-14-79	* TEMP TCA FUEL INLT PR 4B SURF	* 20/120 DEG F
GR4323T	*	* E *	B- E-61	* TEMP TCA FUEL INLT PR 3A SURF	* 20/120 DEG F
GR4326T	*	* E *	B- E-17	* TEMP TCA FUEL INLT PR 2B SURF	* 20/120 DEG F
GR4327T	*	* E *	B- E-62	* TEMP TCA FUEL INLT PR 1A SURF	* 20/120 DEG F
GR4424T	*	* E *	A-14-72	* TEMP TCA OXID INLT PR 3B SURF	* 20/120 DEG F
GR4435T	*	* E *	A-14-87	* TEMP TCA OXID VLV NO.35 SURF	* 0/200 DEG F

DATA EVALUATION GUIDE
SA-204/LM-1 LM-1

MEASUREMENT NUMBER	DISPLAY REQUEST NUMBER	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
*	*	*	*	*	*	*	*
GR4441T	*	E	A-14-70	TEMP TCA OXID VLV NO.40 SURF	*	*	0/200 DEG F
GR4448T	*	E	A-14-88	TEMP TCA OXID VLV NO.10 SURF	*	*	0/200 DEG F
GR4570T	*	E	B- E-56	TEMP TCA INJECTOR HEAD NO40	*	*	0/500 DEG F
GR4571T	*	E	B- E-58	TEMP TCA INJECTOR HEAD NO4F	*	*	0/500 DEG F
GR4573T	*	E	B- E-83	TEMP TCA INJECTOR HEAD NO3U	*	*	0/500 DEG F
GR4574T	*	E	A-14-86	TEMP TCA INJECTOR HEAD NO2U	*	*	-25/525 DEG F
GR4577T	*	E	B- E-77	TEMP TCA INJECTOR HEAD NO2U	*	*	0/500 DEG F
GR4578T	*	E	B- E-81	TEMP TCA INJECTOR HEAD NO2D	*	*	0/500 DEG F
GR4582T	*	E	B- E-78	TEMP TCA INJECTOR HEAD NO1D	*	*	0/500 DEG F
GR4583T	*	E	B- E-74	TEMP TCA INJECTOR HEAD NO1F	*	*	0/500 DEG F
GR5011P	*	E	C-2	PRESS TCA FUEL INLET PR 4A	*	*	0/500 PSIA
GR5012P	*	E	A- E-06	PRESS TCA FUEL INLET PR 4B	*	*	0/500 PSIA
GR5013P	*	E	A- E-08	PRESS TCA FUEL INLET PR 3A	*	*	0/500 PSIA
GR5014P	*	E	C- E-29	PRESS TCA FUEL INLET PR 3B	*	*	0/500 PSIA
GR5015P	*	E	C-9/2	PRESS FUEL INLET PR 2A	*	*	0/500 PSIA
GR5016P	*	E	A- E-26	PRESS TCA FUEL INLET PR 2A	*	*	0/500 PSIA
GR5017P	*	E	A- E-28	PRESS TCA FUEL INLET PR 1A	*	*	0/500 PSIA
GR5018P	*	E	B-9/2	PRESS TCA FUEL INLET PR 1B	*	*	0/500 PSIA
GR5019P	*	E	C- E-30	PRESS TCA OXID INLET PR 4A	*	*	0/500 PSIA
GR5020P	*	E	C- E-31	PRESS TCA OXID INLET PR 4B	*	*	0/500 PSIA
*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*

DATE 16 JAN 68

APPENDIX Y

PAGE 026

DATA EVALUATION GUIDE
SA-204/LM-1 LM-1

* MEASUREMENT * NUMBER	* DISPLAY* P * REQUEST* C * NUMBER *	* TELEMETRY * CHANNEL	* MEASUREMENT * DESCRIPTION	* RECORD* TR * NUMBER* NO	* RANGE/REMARKS
GR5021P	E	C- E-32	PRESS TCA OXID INLET PR 3A		0/500 PSIA
GR5022P	E	A- E-48	PRESS TCA OXID INLET PR 3B		0/500 PSIA
GR5023P	E	C-15/2	PRESS TCA OXID INLET PR 2A		0/500 PSIA
GR5024P	E	C- E-51	PRESS TCA OXID INLET PR 2B		0/500 PSIA
GR5025P	E	C- E-52	PRESS TCA OXID INLET PR 1A		0/500 PSIA
GR5026P	E	A-9/2	PRESS TCA OXID INLET PR1B		0/500 PSIA
GR5031P	E	D-6C	PRESS THRUST CHAMBER NO 4U		0/125 PSIA
GR5032P	E	D-6C	PRESS THRUST CHAMBER NO 4D		0/125 PSIA
GR5033P	E	B-16/2	PRESS THRUST CHAMBER NO 4F		0/125 PSIA
GR5034P	E	C-06/2	PRESS THRUST CHAMB NO 4S		0/125 PSIA
GR5035P	E	D-1C	PRESS THRUST CHAMBER NO 3U		0/125 PSIA
GR5036P	E	D-1C	PRESS THRUST CHAMBER NO 3D		0/125 PSIA
GR5037P	E	B-16/2	PRESS THRUST CHAMBER NO 3F		0/125 PSIA
GR5038P	E	C-07/2	PRESS THRUST CHAMB NO 3S		0/125 PSIA
GR5039P	E	B-12	PRESS THRUST CHAMBER NO 2U		0/125 PSIA
GR5040P	E	B-12	PRESS THRUST CHAMBER NO 2D		0/125 PSIA
GR5041P	E	A-16/2	PRESS THRUST CHAMB NO 2F		0/125 PSIA
GR5042P	E	C-07/2	PRESS THRUST CHAMB NO 2S		0/125 PSIA
GR5043P	E	D-7C	PRESS THRUST CHAMBER NO 1U		0/125 PSIA
GR5044P	E	D-7C	PRESS THRUST CHAMBER NO 1D		0/125 PSIA

DATA EVALUATION GUIDE
SA-204/LM-1 LM-1

MEASUREMENT NUMBER	DISPLAY REQUEST NUMBER	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/RMARKS
GR5045P		E	A-16/2	PRESS THRUST CHAMB NO 1F			0/125 PSIA
GR5046P		E	C-06/2	PRESS THRUST CHAMB NO 1S			0/125 PSIA
GR6001T	5603	E	1003005 15	TEMP,QUAD CLUSTER NO 4			20/200 DEG F
GR6002T	5612	E	1010005 15	TEMP,QUAD CLUSTER NO 3			20/200 DEG F
GR6003T	5626	E	1022005 15	TEMP,QUAD CLUSTER NO 2			20/200 DEG F
GR6004T	5627	E	1023005 15	TEMP,QUAD CLUSTER NO 1			20/200 DEG F
GR9609U	60146 60276	B	1013098F15 1027098F15	MAIN PROP VALVES A CLOSED			BI-LEVEL
GR9610U	60145 60275	B	1013098E15 1027098E15	MAIN PROP VALVES B CLOSED			BI-LEVEL
GR9611U	60144 60274	B	1013098D15 1027098D15	MNFLD CONTROL VLV A NOT CLOSED			BI-LEVEL
GR9612U	60143 60273	B	1013098C15 1027098C15	MNFLD CONTROL VLV B NOT CLOSED			BI-LEVEL
GR9613U	60142 60272	B	1013098B15 1027098B15	MNFLD XFEED VLVS NOT CLOSED			BI-LEVEL
GR9661U	60508	B	1048098H15	TCA ISOL VALVES 4A CLOSED			BI-LEVEL
GR9662U	60507	B	1048098G15	TCA ISOL VALVES 4B CLOSED			BI-LEVEL
GR9663U	60506	B	1048098F15	TCA ISOL VALVES 3A CLOSED			BI-LEVEL
GR9664U	60505	B	1048098E15	TCA ISOL VALVES 3B CLOSED			BI-LEVEL
GR9665U	60504	B	1048098D15	TCA ISOL VALVES 2A CLOSED			BI-LEVEL
GR9666U	60503	B	1048098C15	TCA ISOL VALVES 2B CLOSED			BI-LEVEL

LM-1

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DATA EVALUATION GUIDE
SA-204/LM-1 LM-1

MEASUREMENT NUMBER	DISPLAY REQUEST NUMBER	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
GT0201E	6144	E	1048101 15	POWER,SBAND PA RF PWR OUT			0/25 WATT
GT0202E	6135	E	1041101 15	POWER,SBAND PA RF REFLCTD PWR			0/25 WATT
GT0224C		E	C-E-84	CURR SBAND PWR AMP ANODE NO1			20/30 MA
GT0225C		E	C-E-43	CURR SBAND PWR AMP ANODE NO2			20/30 MA
GT0441X	5431	E	5101097 15	DCA UPLINK VERIFY WORD(LMP)			DISCRETE
GT0619V	5663	E	1001037 15	UHF RCVR UPLINK SIG STRENGTH			
GT0992R		P	1101066 15	ST PH ERR SLCTD SBAND XPDR			0/100 PCT
GT0993E	6146	E	1050101 15	POWER,SLCTD SBAND XMTR RF PWR			0.5/1 WATT
GT0994V	5470	E	1101067 15	VOLT,SELECTED SBAND RCVR AGC			0/4.2 VDC

DATA EVALUATION GUIDE
SA-204/LM-1 LM-1

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DATA EVALUATION GUIDE

LM-1

MEASUREMENT NUMBER	DISPLAY REQUEST NUMBER	P C	TELEMETRY CHANNEL	MEASUREMENT DESCRIPTION	RECORD NUMBER	TR NO	RANGE/REMARKS
GY0050X	60158 60308	B	1014098H15 1028098H15	ABORT COMMANDED			BI-LEVEL
GY0111X	60157 60307	B	1014098G15 1028098G15	SYS A BATTERY RELAY OPEN			BI-LEVEL
GY0112X	60156 60306	B	1014098F15 1028098F15	SYS B BATTERY RELAY OPEN			BI-LEVEL
GY0121X	60155 60305	B	1014098E15 1028098E15	SYS A STAGING RELAY OPEN			BI-LEVEL
GY0122X	60154 60304	B	1014098D15 1028098D15	SYS B STAGING RELAY OPEN			BI-LEVEL