

Tower Electronics Module Stray Voltage Test

COVER SHEET

Program: GLAST

Procedure Number: LAT-DS-04097

Procedure Title: TEM SVT

Paragraph Number: 5.2

Paragraph Title: Test Procedure Instructions/Information

Controlling Document Number: CAA
LAT-DS-01646


Controlling Document Step Number: STEP 17

Unit S/N: 612

Descriptive Comment: _____

TEST READINESS REVIEW COMPLETED AND APPROVED BY THE FOLLOWING:

Test Director: [Signature] Date: 12/15/04

Quality Assurance: [Signature]  Date: 12/15/04

Test Conductor: [Signature] Date: 12/15/04

POST TEST REVIEW COMPLETED AND APPROVED BY THE FOLLOWING:

Test Director: [Signature] Date: 12/15/04

Quality Assurance: [Signature]  Date: 12/15/04


Test Conductor: [Signature] Date: 12/15/04

Tower Electronics Module Stray Voltage Test

TEST DATA SHEET		Unit S/N: 612	Date/Temperature: 12/15/04 <i>CLM/BW</i>	
Title: 5.2 Test Procedure Instructions/Information		Operator: C.S.	QA:	LAT 10 QA
Para	Test Equipment Description, Manufacturer	Model/LAT Number	Serial/Rev. Number	*Cal./Val. Date
5.2.3.1 - 1	Record Model/LAT number, Serial/Revision number, Calibration due dates and Validation date for all equipment used in this procedure:			
	VME Crate, Dawn VME Products	11-1011777-2119	6CAT1133	N/A
	VME, TST-STP Trans card, SLAC	LAT-DS-00999	6CAT006	N/A
	VME SBC MVME2304 card, Motorola	MVME2304-0123	6CAT0305	N/A
	VME LCB Mezzanine card, SLAC	LAT-TD-00860	6CAT0822	N/A
	DC Power supply #1, BK Precision	1697	6CAT1485	8/05
	28 Volt supply cable, SLAC	LAT-DS-03246	N/A	
	PS Control cable, SLAC	LAT-DS-04831	6CAT1420	9/5
	TEM to GASU cable, SLAC	LAT-DS-02106	6CAT1471	9/5
	LCB Transition board cable, SLAC	LAT-DS-03247	6CAT1314	N/A
	CAT5 Ethernet cable	TRD855PL-50	N/A	
	RS-232 Cable	TDC003-7 (RECO98M conn)	N/A	
	Breakout Box Assembly, 78-Pin Conn, SLAC	LAT-DS-03580	6CAT1390	9/5
	Connector Saver (51 pin), Glenair	MWDM2L-51- USP1	N/A	
	Connector Saver (69 pin), SLAC	LAT-DS-04724	N/A	
	Connector Saver (78 pin), L Com	DGBH78MF	N/A	
	** Digital Multimeter, Fluke/Meterman	87-III/38XR	SLAC00004	11/05
	Automatic tester cable, 51 pin Y, SLAC	LAT-DS-04627	6CAT1422	9/5
	Automatic tester cable, 69 pin Y, SLAC	LAT-DS-04628	6CAT1412	9/5
	Automatic tester cable, 78 pin Y, SLAC	LAT-DS-04613	6CAT1417	9/5
	Automatic 78 to 78 cable, SLAC	LAT-DS-04629	6CAT1397	9/5
	HP Data Logger, HP	34970A	6CAT1522	6/5
	BOC JC Cable, SLAC	LAT-DS-04275	6CAT1441	9/5
	BOC JI Cable, SLAC	LAT-DS-04302	6CAT1460	9/5
	BOC JT Cable, SLAC	LAT-DS-04273	6CAT1433	9/5

Hard copies of this document are for REFERENCE ONLY and should not be considered the latest revision.

Tower Electronics Module Stray Voltage Test



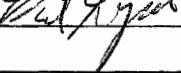
TEST DATA SHEET		Unit S/N: 612	Date/Temperature: 12/15/04 <i>particular</i>	
Title: 5.2 Test Procedure Instructions/Information		Operator: L.S.	QA: 	
Para	Test Equipment Description, Manufacturer	Model/LAT Number	Serial/Rev. Number	*Cal./Val. Date
5.2.3.1 - 1	Record Model/LAT number, Serial/Revision number, Calibration due dates and Validation date for all equipment used in this procedure:			
	Pomona Jumper, Pomona	P-12-0	N/A	
	TEM - TPS 78 pin Cable, SLAC	LAT-DS-04629		
	DATA LOGGER voltage plugin	LAT-DS-0612	6LATB41	4/5
	————— / —————	— / —	6LATB40	4/5

* This column is for recording the calibration due date for a given piece of equipment or the date that EGSE was validated.

** Do not substitute other DMM's

CAUTION: Fluke 87-III and Fluke 87-V are not the same, Fluke 87-V is not allowed.

Tower Electronics Module Stray Voltage Test

TEST DATA SHEET		Unit S/N: 612	Date/Temperature: 12/15/04/ambient
Title: 5.2 Test Procedure Instructions/Information		Operator: L.S	QA: 
Para	Title	Print Name	Signature
5.2.4 - 1	Record names of all personnel that take part in the test/operation:		
	elect. eng.	L. S. APOTHANICOU	
	QE	PAT LUSAN	

Tower Electronics Module Stray Voltage Test

COVER SHEET

Program: GLAST

Procedure Number: LAT-TD-04097

Procedure Title: TEM SVT

Paragraph Number: 5.4

Paragraph Title: Automated SVT Testing


Controlling Document Number: CAA LAT-DS-01696

Controlling Document Step Number: STEP 17

Unit S/N: 612

Descriptive Comment: _____


TEST READINESS REVIEW COMPLETED AND APPROVED BY THE FOLLOWING:

Test Director: [Signature]  Date: 12/15/04

Quality Assurance: _____ Date: 12/15/04

Test Conductor: [Signature] Date: 12/15/04

POST TEST REVIEW COMPLETED AND APPROVED BY THE FOLLOWING:


Test Director: [Signature]  Date: 12/15/04

Quality Assurance: _____ Date: 12/15/04

Test Conductor: [Signature] Date: 12/15/04


Hard copies of this document are for REFERENCE ONLY and should not be considered the latest revision.

Tower Electronics Module Stray Voltage Test

TEST DATA SHEET		Unit S/N:	Date:	
Title: 5.4 Automated SVT Testing		612	12/15/04	
		Operator: C.S.	QA: 	
Step	Description	Limits	Unit	Data
5.4.1	Automated Pre-Operation Verifications			
-1	Notify QAE.	OK	OK/NG	OK
-2	Test Readiness Review is done.	OK	OK/NG	OK
-3	Record the EUT equipment:			
	TEM Part number	NA	NA	LAT-DS-01681-58
	TEM LAT Bay location	NA	NA	N/A
	TEM Serial number	NA	NA	612
	GASU Serial number	NA	NA	N/A
	GASU Part number	NA	NA	N/A
	GASU LAT Bay location	NA	NA	N/A
-4	LAT or EGSE power is off.	OFF	OFF/ON	OFF
-6	Data Logger checks are complete.	OK	OK/NG	OK
-7	Measure EUT to ground.	< 2.0	Ohms	0.2
-8	Measure equipment to ground.	< 2.0	Ohms	1.1
-9	All connector savers are installed on the flight connections.	OK	OK/NG	OK
-10	The Test Equipment and participant lists have been completed.	OK	OK/NG	OK

Hard copies of this document are for REFERENCE ONLY and should not be considered the latest revision.

Tower Electronics Module Stray Voltage Test

TEST DATA SHEET		Unit S/N: <i>612</i>	Date: <i>12/15/04</i>	
Title: 5.4 Automated SVT Testing		Operator: <i>C.S</i>	QA: 	
Para.	Description	Limits	Unit	Data
5.4.2	Test Setup (JS1)			
5.4.2-2	Connect J1 per the interconnect diagram.	OK	OK/NG	<i>OK</i>
5.4.2-3	Connect Data Logger per the test configuration.	OK	OK/NG	<i>OK</i>
5.4.3	JS1 GASU Connector Checks			
5.4.3-13	Verify that the data all passed.	OK	OK/NG	<i>OK</i>
5.4.4	Test Setup (JC0-3 and JT0-7)			
5.4.4-1	Connect JS1 per the interconnect diagram.	OK	OK/NG	<i>OK</i>
5.4.5	JC0-JC3 CAL Connector Checks			
5.4.5.1-16	Verify that the data all passed.	OK	OK/NG	<i>OK</i>
5.4.5.2-16	Verify that the data all passed.	OK	OK/NG	<i>OK</i>
5.4.5.3-16	Verify that the data all passed.	OK	OK/NG	<i>OK</i>
5.4.5.4-16	Verify that the data all passed.	OK	OK/NG	<i>OK</i>
5.4.6	JT0-JT7 TKR Connector Checks			
5.4.6.1-17	Verify that the data all passed.	OK	OK/NG	<i>OK</i>
5.4.6.2-17	Verify that the data all passed.	OK	OK/NG	<i>OK</i>
5.4.6.3-17	Verify that the data all passed.	OK	OK/NG	<i>OK</i>
5.4.6.4-17	Verify that the data all passed.	OK	OK/NG	<i>OK</i>
5.4.6.5-17	Verify that the data all passed.	OK	OK/NG	<i>OK</i>
5.4.6.6-17	Verify that the data all passed.	OK	OK/NG	<i>OK</i>
5.4.6.7-17	Verify that the data all passed.	OK	OK/NG	<i>OK</i>
5.4.6.8-17	Verify that the data all passed.	OK	OK/NG	<i>OK</i>

Hard copies of this document are for REFERENCE ONLY and should not be considered the latest revision.

Channel ID	Value	Units	Alarm
101	-1.98E-01	OHM	0
102	-1.98E-01	OHM	0
103	-1.99E-01	OHM	0
104	-1.98E-01	OHM	0
105	-1.99E-01	OHM	0
106	-1.99E-01	OHM	0
107	-1.99E-01	OHM	0
108	-2.00E-01	OHM	0
109	-2.00E-01	OHM	0
110	-1.99E-01	OHM	0
111	-2.00E-01	OHM	0
112	-1.99E-01	OHM	0
113	-1.99E-01	OHM	0
114	-1.99E-01	OHM	0
115	-1.99E-01	OHM	0
116	-1.98E-01	OHM	0
117	-1.98E-01	OHM	0
118	-1.98E-01	OHM	0
119	-1.98E-01	OHM	0
120	-1.98E-01	OHM	0
121	-1.96E-01	OHM	0
122	-1.95E-01	OHM	0
123	-1.96E-01	OHM	0
124	-1.96E-01	OHM	0
125	-1.97E-01	OHM	0
126	-1.97E-01	OHM	0
127	-1.97E-01	OHM	0
128	-1.98E-01	OHM	0
129	-1.99E-01	OHM	0
130	-1.99E-01	OHM	0
131	-1.99E-01	OHM	0
132	-1.99E-01	OHM	0
133	-1.98E-01	OHM	0
134	-1.98E-01	OHM	0
135	-1.97E-01	OHM	0
136	-1.96E-01	OHM	0
137	-1.96E-01	OHM	0
138	-1.96E-01	OHM	0
139	-1.95E-01	OHM	0
140	-1.95E-01	OHM	0
201	-2.05E-01	OHM	0
202	-2.05E-01	OHM	0
203	-2.05E-01	OHM	0
204	-2.06E-01	OHM	0
205	-2.05E-01	OHM	0
206	-2.05E-01	OHM	0
207	-2.05E-01	OHM	0
208	-2.06E-01	OHM	0
209	-2.06E-01	OHM	0
210	-2.06E-01	OHM	0
211	-2.06E-01	OHM	0

212	-2.06E-01	OHM	0
213	-2.05E-01	OHM	0
214	-2.06E-01	OHM	0
215	-2.06E-01	OHM	0
216	-2.05E-01	OHM	0
217	-2.05E-01	OHM	0
218	-2.05E-01	OHM	0
219	-2.04E-01	OHM	0
220	-2.04E-01	OHM	0
221	-2.02E-01	OHM	0
222	-2.03E-01	OHM	0
223	-2.03E-01	OHM	0
224	-2.03E-01	OHM	0
225	-2.03E-01	OHM	0
226	-2.04E-01	OHM	0
227	-2.05E-01	OHM	0
228	-2.05E-01	OHM	0
229	-2.06E-01	OHM	0
230	-2.06E-01	OHM	0
231	-2.06E-01	OHM	0
232	-2.05E-01	OHM	0
233	-2.05E-01	OHM	0
234	-2.05E-01	OHM	0
235	-2.04E-01	OHM	0
236	-2.03E-01	OHM	0
237	-2.03E-01	OHM	0
238	-2.02E-01	OHM	0
239	-2.02E-01	OHM	0
240	-2.06E-01	OHM	0

Channel ID	Value	Units	Alarm
101	9.90E+37	OHM	0
102	9.90E+37	OHM	0
103	9.90E+37	OHM	0
104	9.90E+37	OHM	0
105	9.90E+37	OHM	0
106	9.90E+37	OHM	0
107	9.90E+37	OHM	0
108	9.90E+37	OHM	0
109	9.90E+37	OHM	0
110	9.90E+37	OHM	0
111	9.90E+37	OHM	0
112	9.90E+37	OHM	0
113	9.90E+37	OHM	0
114	9.90E+37	OHM	0
115	9.90E+37	OHM	0
116	9.90E+37	OHM	0
117	9.90E+37	OHM	0
118	9.90E+37	OHM	0
119	9.90E+37	OHM	0
120	9.90E+37	OHM	0
121	9.90E+37	OHM	0
122	9.90E+37	OHM	0
123	9.90E+37	OHM	0
124	9.90E+37	OHM	0
125	9.90E+37	OHM	0
126	9.90E+37	OHM	0
127	9.90E+37	OHM	0
128	9.90E+37	OHM	0
129	9.90E+37	OHM	0
130	9.90E+37	OHM	0
131	9.90E+37	OHM	0
132	9.90E+37	OHM	0
133	9.90E+37	OHM	0
134	9.90E+37	OHM	0
135	9.90E+37	OHM	0
136	9.90E+37	OHM	0
137	9.90E+37	OHM	0
138	9.90E+37	OHM	0
139	9.90E+37	OHM	0
140	9.90E+37	OHM	0
201	9.90E+37	OHM	0
202	9.90E+37	OHM	0
203	9.90E+37	OHM	0
204	9.90E+37	OHM	0
205	9.90E+37	OHM	0
206	9.90E+37	OHM	0
207	9.90E+37	OHM	0
208	9.90E+37	OHM	0
209	9.90E+37	OHM	0
210	9.90E+37	OHM	0
211	9.90E+37	OHM	0

212	9.90E+37 OHM	0
213	9.90E+37 OHM	0
214	9.90E+37 OHM	0
215	9.90E+37 OHM	0
216	9.90E+37 OHM	0
217	9.90E+37 OHM	0
218	9.90E+37 OHM	0
219	9.90E+37 OHM	0
220	9.90E+37 OHM	0
221	9.90E+37 OHM	0
222	9.90E+37 OHM	0
223	9.90E+37 OHM	0
224	9.90E+37 OHM	0
225	9.90E+37 OHM	0
226	9.90E+37 OHM	0
227	9.90E+37 OHM	0
228	9.90E+37 OHM	0
229	9.90E+37 OHM	0
230	9.90E+37 OHM	0
231	9.90E+37 OHM	0
232	9.90E+37 OHM	0
233	9.90E+37 OHM	0
234	9.90E+37 OHM	0
235	9.90E+37 OHM	0
236	9.90E+37 OHM	0
237	9.90E+37 OHM	0
238	9.90E+37 OHM	0
239	9.90E+37 OHM	0
240	9.90E+37 OHM	0

Channel ID	Value	Units	Alarm
101	3.35E+00	VDC	0
102	3.35E+00	VDC	0
103	3.34E+00	VDC	0
104	3.34E+00	VDC	0
105	3.34E+00	VDC	0
106	3.34E+00	VDC	0
107	3.34E+00	VDC	0
108	3.34E+00	VDC	0
109	3.34E+00	VDC	0
110	3.34E+00	VDC	0
111	3.35E+00	VDC	0
112	3.35E+00	VDC	0
113	3.34E+00	VDC	0
114	3.34E+00	VDC	0
115	3.34E+00	VDC	0
116	3.34E+00	VDC	0
117	3.34E+00	VDC	0
118	3.34E+00	VDC	0
119	3.34E+00	VDC	0
120	3.34E+00	VDC	0
121	2.58E+00	VDC	0
122	1.07E-03	VDC	0
123	2.58E+00	VDC	0
124	1.09E-03	VDC	0
125	2.59E+00	VDC	0
126	1.05E-03	VDC	0
127	2.58E+00	VDC	0
128	1.10E-03	VDC	0
129	2.59E+00	VDC	0
130	1.10E-03	VDC	0
131	2.57E+00	VDC	0
132	1.07E-03	VDC	0
133	2.58E+00	VDC	0
134	1.09E-03	VDC	0
135	2.59E+00	VDC	0
136	1.65E-01	VDC	0
137	2.58E+00	VDC	0
138	1.07E-03	VDC	0
139	2.60E+00	VDC	0
140	1.07E-03	VDC	0
201	2.58E+00	VDC	0
202	1.09E-03	VDC	0
203	2.58E+00	VDC	0
204	1.05E-03	VDC	0
205	2.58E+00	VDC	0
206	1.07E-03	VDC	0
207	2.58E+00	VDC	0
208	1.03E-03	VDC	0
209	2.23E-03	VDC	0
210	-2.59E-06	VDC	0
211	1.09E-03	VDC	0

Channel	ID	Value	Units	Alarm
101		1.85E+00	VDC	0
102		1.82E+00	VDC	0
103		1.99E+00	VDC	0
104		1.96E+00	VDC	0
105		1.78E+00	VDC	0
106		1.75E+00	VDC	0
107		1.77E+00	VDC	0
108		1.74E+00	VDC	0
109		2.08E-04	VDC	0
110		2.49E+00	VDC	0
111		2.12E-04	VDC	0
112		2.49E+00	VDC	0
113		2.60E+00	VDC	0
114		2.60E+00	VDC	0
115		-9.05E-06	VDC	0
116		-1.29E-05	VDC	0
117		1.69E+00	VDC	0
118		1.69E+00	VDC	0
119		-1.29E-06	VDC	0
120		3.33E+00	VDC	0
121		1.58E-02	VDC	0
122		1.92E+00	VDC	0
123		1.90E+00	VDC	0
124		1.27E+00	VDC	0
125		1.10E+00	VDC	0
126		2.63E+00	VDC	0
127		2.63E+00	VDC	0
128		2.06E+00	VDC	0
129		2.04E+00	VDC	0
130		1.99E+00	VDC	0
131		1.97E+00	VDC	0
132		2.12E+00	VDC	0
133		2.10E+00	VDC	0
134		1.97E+00	VDC	0
135		1.95E+00	VDC	0
136		1.38E+01	VDC	0
137		4.14E+01	VDC	0
138		4.14E+01	VDC	0
139		1.38E+01	VDC	0
140		1.29E-06	VDC	0
201		-3.88E-06	VDC	0
202		1.74E+00	VDC	0
203		3.33E+00	VDC	0
204		1.72E+00	VDC	0
205		1.76E-02	VDC	0
206		-3.88E-06	VDC	0
207		3.33E+00	VDC	0
208		1.74E-02	VDC	0
209		-2.90E-02	VDC	0
210		1.97E+00	VDC	0
211		4.29E-01	VDC	0

Channel	ID	Value	Units	Alarm
101		2.29E+00	VDC	0
102		2.27E+00	VDC	0
103		2.06E+00	VDC	0
104		2.04E+00	VDC	0
105		2.29E+00	VDC	0
106		2.26E+00	VDC	0
107		1.92E+00	VDC	0
108		1.89E+00	VDC	0
109		1.55E-05	VDC	0
110		2.49E+00	VDC	0
111		1.68E-05	VDC	0
112		2.49E+00	VDC	0
113		2.60E+00	VDC	0
114		2.60E+00	VDC	0
115		-1.68E-05	VDC	0
116		-1.81E-05	VDC	0
117		1.69E+00	VDC	0
118		1.69E+00	VDC	0
119		-2.59E-06	VDC	0
120		3.33E+00	VDC	0
121		1.57E-02	VDC	0
122		2.05E+00	VDC	0
123		2.03E+00	VDC	0
124		1.28E+00	VDC	0
125		1.10E+00	VDC	0
126		2.63E+00	VDC	0
127		2.63E+00	VDC	0
128		2.28E+00	VDC	0
129		2.26E+00	VDC	0
130		2.17E+00	VDC	0
131		2.14E+00	VDC	0
132		2.32E+00	VDC	0
133		2.29E+00	VDC	0
134		2.11E+00	VDC	0
135		2.08E+00	VDC	0
136		1.38E+01	VDC	0
137		4.14E+01	VDC	0
138		4.14E+01	VDC	0
139		1.38E+01	VDC	0
140		0.00E+00	VDC	0
201		-3.88E-06	VDC	0
202		1.87E+00	VDC	0
203		3.33E+00	VDC	0
204		1.85E+00	VDC	0
205		1.78E-02	VDC	0
206		-3.88E-06	VDC	0
207		3.33E+00	VDC	0
208		1.75E-02	VDC	0
209		-3.33E-02	VDC	0
210		1.90E+00	VDC	0
211		5.02E-01	VDC	0

Channel ID	Value	Units	Alarm
101	2.24E+00	VDC	0
102	2.22E+00	VDC	0
103	1.97E+00	VDC	0
104	1.95E+00	VDC	0
105	1.75E+00	VDC	0
106	1.72E+00	VDC	0
107	1.65E+00	VDC	0
108	1.63E+00	VDC	0
109	-5.17E-06	VDC	0
110	2.49E+00	VDC	0
111	-5.17E-06	VDC	0
112	2.49E+00	VDC	0
113	2.60E+00	VDC	0
114	2.60E+00	VDC	0
115	-7.76E-06	VDC	0
116	-6.47E-06	VDC	0
117	1.69E+00	VDC	0
118	1.69E+00	VDC	0
119	-1.29E-06	VDC	0
120	3.33E+00	VDC	0
121	1.56E-02	VDC	0
122	1.82E+00	VDC	0
123	1.79E+00	VDC	0
124	1.27E+00	VDC	0
125	1.10E+00	VDC	0
126	2.63E+00	VDC	0
127	2.63E+00	VDC	0
128	1.70E+00	VDC	0
129	1.67E+00	VDC	0
130	1.66E+00	VDC	0
131	1.64E+00	VDC	0
132	1.89E+00	VDC	0
133	1.86E+00	VDC	0
134	1.77E+00	VDC	0
135	1.74E+00	VDC	0
136	1.38E+01	VDC	0
137	4.14E+01	VDC	0
138	4.14E+01	VDC	0
139	1.38E+01	VDC	0
140	0.00E+00	VDC	0
201	-3.88E-06	VDC	0
202	1.89E+00	VDC	0
203	3.33E+00	VDC	0
204	1.86E+00	VDC	0
205	1.74E-02	VDC	0
206	-3.88E-06	VDC	0
207	3.33E+00	VDC	0
208	1.71E-02	VDC	0
209	-3.91E-02	VDC	0
210	1.90E+00	VDC	0
211	4.78E-01	VDC	0

Channel ID	Value	Units	Alarm
101	1.81E+00	VDC	0
102	1.79E+00	VDC	0
103	2.12E+00	VDC	0
104	2.10E+00	VDC	0
105	2.02E+00	VDC	0
106	1.99E+00	VDC	0
107	2.00E+00	VDC	0
108	1.97E+00	VDC	0
109	-1.67E-04	VDC	0
110	2.49E+00	VDC	0
111	-1.72E-04	VDC	0
112	2.49E+00	VDC	0
113	2.60E+00	VDC	0
114	2.60E+00	VDC	0
115	-9.05E-06	VDC	0
116	-7.76E-06	VDC	0
117	1.69E+00	VDC	0
118	1.69E+00	VDC	0
119	0.00E+00	VDC	0
120	3.33E+00	VDC	0
121	1.51E-02	VDC	0
122	2.00E+00	VDC	0
123	1.98E+00	VDC	0
124	1.26E+00	VDC	0
125	1.09E+00	VDC	0
126	2.63E+00	VDC	0
127	2.63E+00	VDC	0
128	2.12E+00	VDC	0
129	2.10E+00	VDC	0
130	2.09E+00	VDC	0
131	2.07E+00	VDC	0
132	2.15E+00	VDC	0
133	2.13E+00	VDC	0
134	1.80E+00	VDC	0
135	1.77E+00	VDC	0
136	1.38E+01	VDC	0
137	4.14E+01	VDC	0
138	4.14E+01	VDC	0
139	1.38E+01	VDC	0
140	0.00E+00	VDC	0
201	-5.17E-06	VDC	0
202	2.15E+00	VDC	0
203	3.33E+00	VDC	0
204	2.13E+00	VDC	0
205	1.67E-02	VDC	0
206	-3.88E-06	VDC	0
207	3.33E+00	VDC	0
208	1.65E-02	VDC	0
209	-3.17E-02	VDC	0
210	1.92E+00	VDC	0
211	4.63E-01	VDC	0

Channel ID	Value	Units	Alarm
101	2.17E+00	VDC	0
102	2.14E+00	VDC	0
103	2.07E+00	VDC	0
104	2.04E+00	VDC	0
105	2.09E+00	VDC	0
106	2.06E+00	VDC	0
107	2.15E+00	VDC	0
108	2.12E+00	VDC	0
109	-1.84E-04	VDC	0
110	2.49E+00	VDC	0
111	-1.85E-04	VDC	0
112	2.49E+00	VDC	0
113	2.60E+00	VDC	0
114	2.60E+00	VDC	0
115	-2.59E-06	VDC	0
116	-3.88E-06	VDC	0
117	1.69E+00	VDC	0
118	1.69E+00	VDC	0
119	-1.29E-06	VDC	0
120	3.33E+00	VDC	0
121	1.52E-02	VDC	0
122	2.47E+00	VDC	0
123	2.45E+00	VDC	0
124	1.27E+00	VDC	0
125	1.09E+00	VDC	0
126	2.63E+00	VDC	0
127	2.63E+00	VDC	0
128	2.18E+00	VDC	0
129	2.16E+00	VDC	0
130	2.47E+00	VDC	0
131	2.45E+00	VDC	0
132	2.03E+00	VDC	0
133	2.01E+00	VDC	0
134	1.96E+00	VDC	0
135	1.94E+00	VDC	0
136	1.38E+01	VDC	0
137	4.14E+01	VDC	0
138	4.14E+01	VDC	0
139	1.38E+01	VDC	0
140	0.00E+00	VDC	0
201	-5.17E-06	VDC	0
202	2.31E+00	VDC	0
203	3.33E+00	VDC	0
204	2.28E+00	VDC	0
205	1.69E-02	VDC	0
206	-5.17E-06	VDC	0
207	3.33E+00	VDC	0
208	1.66E-02	VDC	0
209	-4.05E-02	VDC	0
210	1.95E+00	VDC	0
211	4.60E-01	VDC	0

Channel ID	Value	Units	Alarm
101	1.67E+00	VDC	0
102	1.64E+00	VDC	0
103	1.81E+00	VDC	0
104	1.79E+00	VDC	0
105	1.95E+00	VDC	0
106	1.92E+00	VDC	0
107	1.68E+00	VDC	0
108	1.65E+00	VDC	0
109	2.08E-04	VDC	0
110	2.49E+00	VDC	0
111	2.10E-04	VDC	0
112	2.49E+00	VDC	0
113	2.60E+00	VDC	0
114	2.60E+00	VDC	0
115	2.59E-06	VDC	0
116	1.29E-06	VDC	0
117	1.70E+00	VDC	0
118	1.70E+00	VDC	0
119	0.00E+00	VDC	0
120	3.33E+00	VDC	0
121	1.53E-02	VDC	0
122	1.72E+00	VDC	0
123	1.70E+00	VDC	0
124	1.27E+00	VDC	0
125	1.10E+00	VDC	0
126	2.63E+00	VDC	0
127	2.63E+00	VDC	0
128	1.71E+00	VDC	0
129	1.69E+00	VDC	0
130	1.80E+00	VDC	0
131	1.77E+00	VDC	0
132	2.01E+00	VDC	0
133	1.98E+00	VDC	0
134	2.00E+00	VDC	0
135	1.97E+00	VDC	0
136	1.38E+01	VDC	0
137	4.14E+01	VDC	0
138	4.14E+01	VDC	0
139	1.38E+01	VDC	0
140	1.29E-06	VDC	0
201	-3.88E-06	VDC	0
202	1.90E+00	VDC	0
203	3.33E+00	VDC	0
204	1.87E+00	VDC	0
205	1.72E-02	VDC	0
206	-5.17E-06	VDC	0
207	3.33E+00	VDC	0
208	1.69E-02	VDC	0
209	-3.01E-02	VDC	0
210	1.94E+00	VDC	0
211	4.60E-01	VDC	0

Channel ID	Value	Units	Alarm
101	2.30E+00	VDC	0
102	2.28E+00	VDC	0
103	2.01E+00	VDC	0
104	1.98E+00	VDC	0
105	2.32E+00	VDC	0
106	2.29E+00	VDC	0
107	2.38E+00	VDC	0
108	2.36E+00	VDC	0
109	2.17E-04	VDC	0
110	2.49E+00	VDC	0
111	2.16E-04	VDC	0
112	2.49E+00	VDC	0
113	2.60E+00	VDC	0
114	2.60E+00	VDC	0
115	1.29E-06	VDC	0
116	0.00E+00	VDC	0
117	1.70E+00	VDC	0
118	1.70E+00	VDC	0
119	0.00E+00	VDC	0
120	3.33E+00	VDC	0
121	1.53E-02	VDC	0
122	2.31E+00	VDC	0
123	2.29E+00	VDC	0
124	1.28E+00	VDC	0
125	1.10E+00	VDC	0
126	2.63E+00	VDC	0
127	2.63E+00	VDC	0
128	2.20E+00	VDC	0
129	2.17E+00	VDC	0
130	2.26E+00	VDC	0
131	2.24E+00	VDC	0
132	1.96E+00	VDC	0
133	1.93E+00	VDC	0
134	2.17E+00	VDC	0
135	2.14E+00	VDC	0
136	1.38E+01	VDC	0
137	4.14E+01	VDC	0
138	4.14E+01	VDC	0
139	1.38E+01	VDC	0
140	-1.29E-06	VDC	0
201	-1.29E-06	VDC	0
202	2.37E+00	VDC	0
203	3.33E+00	VDC	0
204	2.35E+00	VDC	0
205	1.68E-02	VDC	0
206	-5.17E-06	VDC	0
207	3.33E+00	VDC	0
208	1.65E-02	VDC	0
209	-2.81E-02	VDC	0
210	1.93E+00	VDC	0
211	4.65E-01	VDC	0

Channel ID	Value	Units	Alarm
101	1.78E+00	VDC	0
102	1.76E+00	VDC	0
103	2.12E+00	VDC	0
104	2.09E+00	VDC	0
105	2.16E+00	VDC	0
106	2.13E+00	VDC	0
107	2.25E+00	VDC	0
108	2.23E+00	VDC	0
109	2.52E-04	VDC	0
110	2.49E+00	VDC	0
111	2.46E-04	VDC	0
112	2.49E+00	VDC	0
113	2.60E+00	VDC	0
114	2.60E+00	VDC	0
115	1.29E-06	VDC	0
116	1.29E-06	VDC	0
117	1.69E+00	VDC	0
118	1.69E+00	VDC	0
119	-2.59E-06	VDC	0
120	3.33E+00	VDC	0
121	1.56E-02	VDC	0
122	1.90E+00	VDC	0
123	1.87E+00	VDC	0
124	1.28E+00	VDC	0
125	1.11E+00	VDC	0
126	2.63E+00	VDC	0
127	2.63E+00	VDC	0
128	1.99E+00	VDC	0
129	1.96E+00	VDC	0
130	2.00E+00	VDC	0
131	1.97E+00	VDC	0
132	1.88E+00	VDC	0
133	1.86E+00	VDC	0
134	1.99E+00	VDC	0
135	1.97E+00	VDC	0
136	1.38E+01	VDC	0
137	4.14E+01	VDC	0
138	4.14E+01	VDC	0
139	1.38E+01	VDC	0
140	-2.59E-06	VDC	0
201	-3.88E-06	VDC	0
202	2.08E+00	VDC	0
203	3.33E+00	VDC	0
204	2.06E+00	VDC	0
205	1.71E-02	VDC	0
206	-2.59E-06	VDC	0
207	3.33E+00	VDC	0
208	1.69E-02	VDC	0
209	-3.33E-02	VDC	0
210	1.93E+00	VDC	0
211	4.77E-01	VDC	0

Channel ID	Value	Units	Alarm
101	2.59E-05	VDC	0
102	3.33E+00	VDC	0
103	1.70E-02	VDC	0
104	3.33E+00	VDC	0
105	1.76E-02	VDC	0
106	1.95E+00	VDC	0
107	4.90E-01	VDC	0
108	2.12E+00	VDC	0
109	2.10E+00	VDC	0
110	2.06E+00	VDC	0
111	2.03E+00	VDC	0
112	1.87E+00	VDC	0
113	1.84E+00	VDC	0
114	2.32E+00	VDC	0
115	2.30E+00	VDC	0
116	2.15E+00	VDC	0
117	2.12E+00	VDC	0
118	2.01E+00	VDC	0
119	1.98E+00	VDC	0
120	2.37E+00	VDC	0
121	2.35E+00	VDC	0
122	1.53E-01	VDC	0
123	3.36E+00	VDC	0
124	3.36E+00	VDC	0
125	2.59E-05	VDC	0
126	2.59E-05	VDC	0
127	0.00E+00	VDC	0
128	2.03E+00	VDC	0
129	2.00E+00	VDC	0
130	2.36E+00	VDC	0
131	2.33E+00	VDC	0
132	2.04E+00	VDC	0
133	2.01E+00	VDC	0
134	1.99E+00	VDC	0
135	1.96E+00	VDC	0
136	1.97E+00	VDC	0
137	1.95E+00	VDC	0
138	1.90E+00	VDC	0
139	1.87E+00	VDC	0
140	1.98E+00	VDC	0
201	1.96E+00	VDC	0
202	2.21E+00	VDC	0
203	2.18E+00	VDC	0
204	2.04E+00	VDC	0
205	2.01E+00	VDC	0
206	0.00E+00	VDC	0
207	1.29E-05	VDC	0
208	2.59E-05	VDC	0
209	3.39E+00	VDC	0
210	7.65E-03	VDC	0
211	1.29E-05	VDC	0

212	3.39E+00	VDC	0
213	3.39E+00	VDC	0
214	1.29E-05	VDC	0
215	2.59E-05	VDC	0
216	2.49E+00	VDC	0
217	1.68E-04	VDC	0
218	3.36E+00	VDC	0
219	3.36E+00	VDC	0
220	0.00E+00	VDC	0
221	2.59E-05	VDC	0
222	2.49E+00	VDC	0
223	1.42E-04	VDC	0
224	-1.29E-05	VDC	0
225	-1.29E-05	VDC	0
226	9.59E+01	VDC	0
227	9.59E+01	VDC	0
228	9.59E+01	VDC	0
229	5.23E-02	VDC	0

Channel ID	Value	Units	Alarm
101	0.00E+00	VDC	0
102	3.33E+00	VDC	0
103	1.71E-02	VDC	0
104	3.33E+00	VDC	0
105	1.77E-02	VDC	0
106	1.94E+00	VDC	0
107	4.53E-01	VDC	0
108	2.03E+00	VDC	0
109	2.01E+00	VDC	0
110	2.01E+00	VDC	0
111	1.98E+00	VDC	0
112	2.01E+00	VDC	0
113	1.98E+00	VDC	0
114	2.24E+00	VDC	0
115	2.21E+00	VDC	0
116	1.57E+00	VDC	0
117	1.55E+00	VDC	0
118	1.95E+00	VDC	0
119	1.93E+00	VDC	0
120	1.31E+00	VDC	0
121	1.28E+00	VDC	0
122	8.60E-02	VDC	0
123	3.36E+00	VDC	0
124	3.36E+00	VDC	0
125	-2.59E-05	VDC	0
126	0.00E+00	VDC	0
127	-1.29E-05	VDC	0
128	1.75E+00	VDC	0
129	1.72E+00	VDC	0
130	1.78E+00	VDC	0
131	1.75E+00	VDC	0
132	1.74E+00	VDC	0
133	1.72E+00	VDC	0
134	1.60E+00	VDC	0
135	1.58E+00	VDC	0
136	2.08E+00	VDC	0
137	2.06E+00	VDC	0
138	2.05E+00	VDC	0
139	2.02E+00	VDC	0
140	2.09E+00	VDC	0
201	2.06E+00	VDC	0
202	2.01E+00	VDC	0
203	1.99E+00	VDC	0
204	2.03E+00	VDC	0
205	2.00E+00	VDC	0
206	0.00E+00	VDC	0
207	0.00E+00	VDC	0
208	-1.29E-05	VDC	0
209	3.39E+00	VDC	0
210	7.58E-03	VDC	0
211	0.00E+00	VDC	0

212	3.39E+00 VDC	0
213	3.39E+00 VDC	0
214	0.00E+00 VDC	0
215	-1.29E-05 VDC	0
216	2.49E+00 VDC	0
217	2.07E-04 VDC	0
218	3.36E+00 VDC	0
219	3.36E+00 VDC	0
220	0.00E+00 VDC	0
221	0.00E+00 VDC	0
222	2.49E+00 VDC	0
223	2.33E-04 VDC	0
224	0.00E+00 VDC	0
225	-2.59E-05 VDC	0
226	9.59E+01 VDC	0
227	9.59E+01 VDC	0
228	9.59E+01 VDC	0
229	5.15E-02 VDC	0

Channel ID	Value	Units	Alarm
101	3.88E-05	VDC	0
102	3.33E+00	VDC	0
103	1.61E-02	VDC	0
104	3.33E+00	VDC	0
105	1.66E-02	VDC	0
106	1.97E+00	VDC	0
107	4.34E-01	VDC	0
108	1.94E+00	VDC	0
109	1.92E+00	VDC	0
110	2.01E+00	VDC	0
111	1.99E+00	VDC	0
112	2.31E+00	VDC	0
113	2.28E+00	VDC	0
114	2.45E+00	VDC	0
115	2.43E+00	VDC	0
116	2.20E+00	VDC	0
117	2.17E+00	VDC	0
118	1.93E+00	VDC	0
119	1.91E+00	VDC	0
120	1.80E+00	VDC	0
121	1.77E+00	VDC	0
122	1.16E-01	VDC	0
123	3.36E+00	VDC	0
124	3.36E+00	VDC	0
125	3.88E-05	VDC	0
126	3.88E-05	VDC	0
127	2.59E-05	VDC	0
128	2.66E+00	VDC	0
129	2.64E+00	VDC	0
130	2.35E+00	VDC	0
131	2.33E+00	VDC	0
132	2.07E+00	VDC	0
133	2.05E+00	VDC	0
134	2.34E+00	VDC	0
135	2.32E+00	VDC	0
136	1.96E+00	VDC	0
137	1.94E+00	VDC	0
138	2.33E+00	VDC	0
139	2.30E+00	VDC	0
140	2.22E+00	VDC	0
201	2.19E+00	VDC	0
202	2.20E+00	VDC	0
203	2.18E+00	VDC	0
204	2.32E+00	VDC	0
205	2.29E+00	VDC	0
206	2.59E-05	VDC	0
207	0.00E+00	VDC	0
208	1.29E-05	VDC	0
209	3.39E+00	VDC	0
210	3.35E+00	VDC	0
211	0.00E+00	VDC	0

212	3.39E+00 VDC	0
213	3.39E+00 VDC	0
214	1.29E-05 VDC	0
215	1.29E-05 VDC	0
216	2.49E+00 VDC	0
217	-2.59E-04 VDC	0
218	3.36E+00 VDC	0
219	3.36E+00 VDC	0
220	1.29E-05 VDC	0
221	0.00E+00 VDC	0
222	2.49E+00 VDC	0
223	-2.72E-04 VDC	0
224	0.00E+00 VDC	0
225	0.00E+00 VDC	0
226	9.59E+01 VDC	0
227	9.59E+01 VDC	0
228	9.59E+01 VDC	0
229	5.18E-02 VDC	0

Channel ID	Value	Units	Alarm
101	1.29E-05	VDC	0
102	3.33E+00	VDC	0
103	1.68E-02	VDC	0
104	3.33E+00	VDC	0
105	1.74E-02	VDC	0
106	1.95E+00	VDC	0
107	4.84E-01	VDC	0
108	2.13E+00	VDC	0
109	2.10E+00	VDC	0
110	1.99E+00	VDC	0
111	1.97E+00	VDC	0
112	1.90E+00	VDC	0
113	1.87E+00	VDC	0
114	2.08E+00	VDC	0
115	2.05E+00	VDC	0
116	2.45E+00	VDC	0
117	2.43E+00	VDC	0
118	2.34E+00	VDC	0
119	2.32E+00	VDC	0
120	1.96E+00	VDC	0
121	1.93E+00	VDC	0
122	1.27E-01	VDC	0
123	3.36E+00	VDC	0
124	3.36E+00	VDC	0
125	5.17E-05	VDC	0
126	2.59E-05	VDC	0
127	1.29E-05	VDC	0
128	2.31E+00	VDC	0
129	2.28E+00	VDC	0
130	2.25E+00	VDC	0
131	2.23E+00	VDC	0
132	2.24E+00	VDC	0
133	2.21E+00	VDC	0
134	2.27E+00	VDC	0
135	2.24E+00	VDC	0
136	2.16E+00	VDC	0
137	2.13E+00	VDC	0
138	2.12E+00	VDC	0
139	2.10E+00	VDC	0
140	2.10E+00	VDC	0
201	2.08E+00	VDC	0
202	2.12E+00	VDC	0
203	2.10E+00	VDC	0
204	2.37E+00	VDC	0
205	2.34E+00	VDC	0
206	0.00E+00	VDC	0
207	0.00E+00	VDC	0
208	3.88E-05	VDC	0
209	3.39E+00	VDC	0
210	3.35E+00	VDC	0
211	1.29E-05	VDC	0

212	3.39E+00 VDC	0
213	3.39E+00 VDC	0
214	1.29E-05 VDC	0
215	1.29E-05 VDC	0
216	2.49E+00 VDC	0
217	-5.17E-05 VDC	0
218	3.36E+00 VDC	0
219	3.36E+00 VDC	0
220	-1.29E-05 VDC	0
221	-1.29E-05 VDC	0
222	2.49E+00 VDC	0
223	-5.17E-05 VDC	0
224	0.00E+00 VDC	0
225	-1.29E-05 VDC	0
226	9.59E+01 VDC	0
227	9.59E+01 VDC	0
228	9.59E+01 VDC	0
229	5.11E-02 VDC	0

Tower Electronics Module Stray Voltage Test

The Excel Mate/Demate log form that is below is the actual Excel file imported into this word document. You can copy and paste it into a folder and then open it as an Excel worksheet.

CONNECTOR MATE / DEMATE

UNIT DESCRIPTION: ITEM 614

Connector(s)	Authorized by Procedure & para or NCR	Date M/D/Y	Mate or De-mate M or D	Flight or Test F or T	Verify Power Off Emp. ID#	Pre-mate Inspect		ESD Bleed and Connector Mate		Final Inspect	
						*Emp. ID#	QA	*Emp ID#	QA	*Emp. ID#	QA
Connector Reference Designator	Procedure & para or NCR	M/D/Y	M or D	F or T	Emp. ID#	QA	*Emp ID#	QA	*Emp. ID#	QA	Final Inspect Fasteners Torqued, Witness Strippe applied
Y1	LAT-15-000015-01		M	F	00114476	LAT TO QA	00114476	LAT TO QA	00114476	LAT TO QA	LAT TO QA
Y10											
Y11											
Y12											
Y13											
Y14											
Y15											
Y16											
Y17											
Y18											
Y19											
Y20											
Y21											
Y22											
Y23											

*Personnel that is Mate/Demate certified.

Connector /Bracket R/D:

GLAT 1445
GLAT 1451
GLAT 1389

Hard copies of this document are for REFERENCE ONLY and should not be considered the latest revision.

Appendix C (Connector Mate/Demate Log)

Tower Electronics Module Electrical Interface Continuity and Isolation Test

The Excel Mate/Demate log form that is below is the actual Excel file imported into this word document. You can copy and paste it into a folder and then open it as an Excel worksheet.

CONNECTOR MATE / DEMATE

UNIT DESCRIPTION: EM 614

Connector(s)	Authorized by	Date	Mate or Demate	Flight or Test	Verify Power Off	Pre-mate Inspect	ESD Bleed and Connector Mate	Final Inspect
Connector Reference Designator	Procedure & para or NCR	MD/Y	M or D	F or T	Emp. ID#	*Emp. ID#	*Emp. ID#	*Emp. ID#
21								
210								
211								
212								
213								
214								
215								
216								
217								
218								
219								
220								
221								
222								
223								
224								
225								
226								
227								
228								
229								
230								
231								
232								
233								
234								

*Personnel that is Mate/Demate certified.

Connector R/D:
/Bracket

Hard copies of this document are for REFERENCE ONLY and should not be considered the latest revision.