g GE Energy	**Functional Testing Specification**
Parts & Repair Services ***Louisville, KY***	**LOU-GED-DS200DTBD**

Test Procedure for a DS200DTBD Terminal board.

DOCUMENT REVISION STATUS: Determined by the last entry in the "REV" and "DATE" column

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	J. Hardin	6-8-2011
B	Updated test, fixed typos	J. Hardin	12-06-11
C	Clarified what "0" and "Open" means way of a meter reading. Also spelled out burn-in requirements – none.	C. Wade	12/17/2013

PREPARED BY	REVIEWED BY	REVIEWED BY	QUALITY APPROVAL
J. Hardin			Charlie Wade
DATE	**DATE**	**DATE**	**DATE**
6/8/2011			6/10/2011

1. SCOPE

1.1 This is a functional testing procedure for a terminal board.

2. STANDARDS OF QUALITY

2.1 Refer to the current revision of the IPC-A-610 standard for workmanship standards.

3. APPLICABLE DOCUMENTS

3.1 The following document(s) shall form part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue shall apply.
3.1.1 Check board's electronic folder for more information

4. ENGINEERING REQUIREMENTS

4.1 Equipment Cleaning
4.1.1 Equipment should be clean and free of debris prior to applying power unless performing an initial check. Refer to site specific SRA's for cleaning guidelines.
4.2 Equipment Inspection
4.2.1 Equipment should be visually inspected for any defects prior to applying power. This inspection should include the following as a minimum:
4.2.1.1 Wires - broken, cracked, or loosely connected
4.2.1.2 Terminal strips / connectors - broken or cracked
4.2.1.3 Components - visually damaged
4.2.1.4 Capacitors - bloated or leaking
4.2.1.5 Solder joints - damaged or cold
4.2.1.6 Circuit board - burned or de-laminated
4.2.1.7 Printed wire runs / Traces - burned or damaged

5. EQUIPMENT REQUIRED

5.1 The following equipment is required to perform the process requirements. Equipment may be substituted provided that all accuracy's and test ratios are equivalent or better.

Qty	Reference #	Description
1		Fluke 87 DMM (or Equivalent)

6. Testing Procedure

6.1 Make sure all jumpers are in place.

6.2 Test the following points: The value of "0" ohms should equal a meter reading of less than 2 ohms. The value of "Open" shall have a meter reading of greater than 1 Meg ohms.

**Green connector number

TO	FROM	**		Value		TO	FROM	**		Value
J8-1	TBA-1	1	open			J8-1	TBF-1	31	0	< 2 ohm resistance
J8-1	TBA-2	2	open			J8-1	TBF-2	32	open	
J8-1	TBA-3	3	0	< 2 ohm resistance		J8-1	TBF-3	33	open	
J8-1	TBA-4	4	open			J8-1	TBF-4	34	open	
J8-1	TBA-5	5	open			J8-1	TBF-5	35	0	< 2 ohm resistance
J8-1	TBA-6	6	open			J8-1	TBF-6	36	open	
J8-1	TBB-1	7	0	< 2 ohm resistance		J8-1	TBG-1	37	open	
J8-1	TBB-2	8	open			J8-1	TBG-2	38	open	
J8-1	TBB-3	9	open			J8-1	TBG-3	39	0	< 2 ohm resistance
J8-1	TBB-4	10	open			J8-1	TBG-4	40	open	
J8-1	TBB-5	11	0	< 2 ohm resistance		J8-1	TBG-5	41	open	
J8-1	TBB-6	12	open			J8-1	TBG-6	42	open	
J8-1	TBC-1	13	open			J8-1	TBH-1	43	0	< 2 ohm resistance
J8-1	TBC-2	14	open			J8-1	TBH-2	44	open	
J8-1	TBC-3	15	0	< 2 ohm resistance		J8-1	TBH-3	45	open	
J8-1	TBC-4	16	open			J8-1	TBH-4	46	open	
J8-1	TBC-5	17	open			J8-1	TBH-5	47	0	< 2 ohm resistance
J8-1	TBC-6	18	open			J8-1	TBH-6	48	open	
J8-1	TBD-1	19	0	< 2 ohm resistance		J8-1	TBI-1	49	open	
J8-1	TBD-2	20	open			J8-1	TBI-2	50	open	
J8-1	TBD-3	21	open			J8-1	TBI-3	51	0	< 2 ohm resistance
J8-1	TBD-4	22	open			J8-1	TBI-4	52	open	
J8-1	TBD-5	23	0	< 2 ohm resistance		J8-1	TBI-5	53	open	
J8-1	TBD-6	24	open			J8-1	TBI-6	54	open	
J8-1	TBE-1	25	open			J8-1	TBJ-1	55	0	< 2 ohm resistance
J8-1	TBE-2	26	open			J8-1	TBJ-2	56	open	
J8-1	TBE-3	27	0	< 2 ohm resistance		J8-1	TBJ-3	57	open	
J8-1	TBE-4	28	open			J8-1	TBJ-4	58	open	
J8-1	TBE-5	29	open			J8-1	TBJ-5	59	0	< 2 ohm resistance
J8-1	TBE-6	30	open			J8-1	TBJ-6	60	open	

TO	FROM	**		Value		TO	FROM	**		Value
J8-1	TBK-1	61	open			TBE-5	JS2-12	29	open	
J8-1	TBK-2	62	open			TBE-6	JS2-12	30	0	< 2 ohm resistance
J8-1	TBK-3	63	0	< 2 ohm resistance		TBF-1	JS2-10	31	0	< 2 ohm resistance
TBA-1	JS1-1	1	open			TBF-2	JS2-11	32	0	< 2 ohm resistance
TBA-2	JS1-1	2	0	< 2 ohm resistance		TBF-3	JS3-1	33	open	
TBA-3	JS1-3	3	0	< 2 ohm resistance		TBF-4	JS3-1	34	0	< 2 ohm resistance
TBA-4	JS1-2	4	0	< 2 ohm resistance		TBF-5	JS3-3	35	0	< 2 ohm resistance
TBA-5	JS1-4	5	open			TBF-6	JS3-2	36	0	< 2 ohm resistance
TBA-6	JS1-4	6	0	< 2 ohm resistance		TBG-1	JS3-4	37	open	
TBB-1	JS1-6	7	0	< 2 ohm resistance		TBG-2	JS3-4	38	0	< 2 ohm resistance
TBB-2	JS1-5	8	0	< 2 ohm resistance		TBG-3	JS3-6	39	0	< 2 ohm resistance
TBB-3	JS1-7	9	open			TBG-4	JS3-5	40	0	< 2 ohm resistance
TBB-4	JS1-7	10	0	< 2 ohm resistance		TBG-5	JS3-7	41	open	
TBB-5	JS1-9	11	0	< 2 ohm resistance		TBG-6	JS3-7	42	0	< 2 ohm resistance
TBB-6	JS1-8	12	0	<2 ohm resistance		TBH-1	JS3-9	43	0	< 2 ohm resistance
TBC-1	JS1-10	13	open			TBH-2	JS3-8	44	0	< 2 ohm resistance
TBC-2	JS1-10	14	0	< 2 ohm resistance		TBH-3	JS3-10	45	open	
TBC-3	JS1-12	15	0	< 2 ohm resistance		TBH-4	JS3-10	46	0	< 2 ohm resistance
TBC-4	JS1-11	16	0	< 2 ohm resistance		TBH-5	JS3-12	47	0	< 2 ohm resistance
TBC-5	JS2-3	17	open			TBH-6	JS3-11	48	0	< 2 ohm resistance
TBC-6	JS2-3	18	0	< 2 ohm resistance		TBI-1	JS4-3	49	open	
TBD-1	JS2-1	19	0	< 2 ohm resistance		TBI-2	JS4-3	50	0	< 2 ohm resistance
TBD-2	JS2-2	20	0	< 2 ohm resistance		TBI-3	JS4-1	51	0	< 2 ohm resistance
TBD-3	JS2-6	21	open			TBI-4	JS4-2	52	0	< 2 ohm resistance
TBD-4	JS2-6	22	0	< 2 ohm resistance		TBI-5	JS4-6	53	open	
TBD-5	JS2-4	23	0	< 2 ohm resistance		TBI-6	JS4-6	54	0	< 2 ohm resistance
TBD-6	JS2-5	24	0	< 2 ohm resistance		TBJ-1	JS4-4	55	0	< 2 ohm resistance
TBE-1	JS2-9	25	open			TBJ-2	JS4-5	56	0	< 2 ohm resistance
TBE-2	JS2-9	26	0	< 2 ohm resistance		TBJ-3	JS4-9	57	open	
TBE-3	JS2-7	27	0	< 2 ohm resistance		TBJ-4	JS4-9	58	0	< 2 ohm resistance
TBE-4	JS2-8	28	0	< 2 ohm resistance		TBJ-5	JS4-7	59	0	< 2 ohm resistance

TO	FROM	**		Value		TO	FROM	**		Value
TBJ-6	JS4-8	60	0	< 2 ohm resistance		TBN-5	JS6-12	83	0	< 2 ohm resistance
TBK-1	JS5-6	61	open			TBN-6	JS6-11	84	0	< 2 ohm resistance
TBK-2	JS5-6	62	0	< 2 ohm resistance		TBO-1	JS7-3	85	0	< 2 ohm resistance
TBK-3	JS5-4	63	0	< 2 ohm resistance		TBO-2	JS7-1	86	0	< 2 ohm resistance
TBK-4	JS5-5	64	open			TBO-3	JS7-2	87	0	< 2 ohm resistance
TBK-5	J19-3	65	0	< 2 ohm resistance		TBO-4	JS7-6	88	0	< 2 ohm resistance
TBK-5	JS5-9	65	open			TBO-5	JS7-4	89	0	< 2 ohm resistance
JBK-6	JS5-9	66	0	< 2 ohm resistance		TBO-6	JS7-5	90	0	< 2 ohm resistance
TBL-1	J19-1	67	0	< 2 ohm resistance		TBP-1	JS7-9	91	0	< 2 ohm resistance
TBL-1	JS5-7	67	open	< 2 ohm resistance		TBP-2	JS7-7	92	0	< 2 ohm resistance
TBL-2	JS5-8	68	0	< 2 ohm resistance		TBP-3	JS7-8	93	0	< 2 ohm resistance
TBL-3	J20-3	69	0	< 2 ohm resistance		TBP-4	JS7-12	94	0	< 2 ohm resistance
TBL-3	JS5-12	69	open			TBP-5	JS7-10	95	0	< 2 ohm resistance
TBL-4	JS5-12	70	0	< 2 ohm resistance		TBP-6	JS7-11	96	0	< 2 ohm resistance
TBL-5	J20-1	71	0	< 2 ohm resistance		TBQ-1	JS8-1	97	0	< 2 ohm resistance
TBL-5	JS5-10	71	0	< 2 ohm resistance		TBQ-2	JS8-3	98	0	< 2 ohm resistance
TBL-6	JS5-11	72	0	< 2 ohm resistance		TBQ-3	JS8-2	99	0	< 2 ohm resistance
TBM-1	JS6-1	73	0	< 2 ohm resistance		TBQ-4	JS8-4	100	0	< 2 ohm resistance
TBM-2	JS6-3	74	0	< 2 ohm resistance		TBQ-5	JS8-6	101	0	< 2 ohm resistance
TBM-3	JS6-2	75	0	< 2 ohm resistance		TBQ-6	JS8-5	102	0	< 2 ohm resistance
TBM-4	JS6-4	76	0	< 2 ohm resistance		TBR-1	JS8-7	103	0	< 2 ohm resistance
TBM-5	JS6-6	77	0	< 2 ohm resistance		TBR-2	JS8-9	104	0	< 2 ohm resistance
TBM-6	JS6-5	78	0	< 2 ohm resistance		TBR-3	JS8-8	105	0	< 2 ohm resistance
TBN-1	JS6-7	79	0	< 2 ohm resistance		TBR-4	JS8-10	106	0	< 2 ohm resistance
TBN-2	JS6-9	80	0	< 2 ohm resistance		TBR-5	JS8-12	107	0	< 2 ohm resistance
TBN-3	JS6-8	81	0	< 2 ohm resistance		TBR-6	JS8-11	108	0	< 2 ohm resistance
TBN-4	JS6-10	82	0	< 2 ohm resistance						

6.3 For all normal repairs; card does not have any active components so unit does not require any burn-in.

6.4 ***TEST COMPLETE ***

7. NOTE

7.1 None at this time.

8. ATTACHMENTS

8.1 None at this time.