| g | | GE Energy | , | Functiona | l Testing Spe | ecification | | |
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| | Parts & Repa | ir Operations | | LOU | -GED-DS3800D | ECA | | |
| | Louisville, KY | | | | | | | |
| | Test Procedure for a DS3800DECA. | | | | | | | |
| | MENT REVISION STATUS | Determined by the last e | ntry in the "REV" a | nd "DATE" column | | | | |
| REV. | Initial release | DESCRIPTION | | | SIGNATURE Crieture Edlin | REV. DATE | | |
| Α | miliai release | | | | Cristyn Edlin | 12/22/2011 | | |
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| | ARED BY 'n Edlin | REVIEWED BY | REVIEWE | D BY | QUALITY APP | | | |
| DATE 12/22 | /2011 | DATE | DATE | | DATE 12/30/2011 | | | |

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| | Louisville, KY | |

1. SCOPE

1.1 This is a functional testing procedure for a DS3800DECA Card.

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) |
| 1 | | 26-Pin Ribbon-Cable Breakout-Board |
| | | |

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6. TEST PROCESS

6.1 SETUP

- **6.1.1** Set the berg jumpers as indicated in 6.2.
- **6.1.2** BJ1 = 2CT, BJ2 = 2CT, BJ3 = NFLT, BJ4 = NFLT.
- **6.1.3** Connect DA to the breakout board.
- **6.1.4** Adjust all pots fully counter-clockwise.
- **6.1.5** Connect the meter's common to DA16.

6.2 TESTING

- **6.2.1** Measure **23.92K** (+- 5%) at **DA4**.
- 6.2.2 Verify that DA3 decreases from 23.92K (+- 5%) to 3.92K (+- 5%) as you turn R1 fully clockwise.
- **6.2.3** Measure **3.33K** (+- 5%) at **DA17**.
- 6.2.4 Verify that DA12 increases from 1 ohm to 3.33K (5%) as you turn R2 fully clockwise.
- 6.2.5 Verify that DA15 increases from 1 ohm to 3.33K (+- 5%) as you turn R7 fully clockwise.
- **6.2.6** Measure **30K** (+- 5%) at **DA7**.
- **6.2.7** Verify that **DA8** decreases from **30K** (+- 5%) to **10K** (+- 5%) as you turn **R3** fully (+- 5%).
- **6.2.8** Measure **14.75K** (+- 5%) at **DA10** and **TP12**.
- 6.2.9 Verify that **DA9** increases from **4.75K** (+- 5%) to **14.75K** (+- 5%) as you turn **R4** fully **clockwise**.
- **6.2.10** Disconnect the meter's common from **DA16** and reconnect it to **DA20**.
- **6.2.11** Measure **24.32K** (+- 5%) at **DA17**.
- **6.2.12** Measure 1K (+- 5%) at **TP14**.
- **6.2.13** Verify that **DA13** increases from **1K** (+- 5%) to **21K** (+- 5%) as you turn **R5** fully **clockwise**.
- **6.2.14** Measure 1 ohm at DA11 and DA14.
- 6.2.15 Measure 1 ohm between DA2 and DA5.
- **6.2.16** Measure **1 ohm** between **DA1** and **DA6**.

7. NOTES

7.1 None at this time.

8. ATTACHMENTS

8.1 None at this time.