g GE Energy	**Functional Testing Specification**
Parts & Repair Services ***Louisville, KY***	**LOU-GED-DS3800DCMB**

Test Procedure for a DS3800DCMB card

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1. SCOPE

1.1 This is a functional testing procedure for a DS3800DCMB.

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		FVE Module
1		See equipment section in the following page scanned test

6. Testing Process

6.1 Page 1 of scanned DMCB instruction

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DCMB1D1B.FUN

      PREFACE
      -------
      Functional verification for the DS3800DCMB.

      EQUIPMENT
      ---------
      Test Module "FVE".
      Extender card DS3800XEXA1A1B (or equiv).
      FVE switch box and ribbon cable (10 pin).
      Power supply DS3820PLSA1A1A (or equiv).
      Mother board DS3800HCMB.
      Test prom "PSG304A9936AACE".
      Test connectors:
       #1. 218A4638P2 with pins 3-P5 4-DCOM 5-10 6-9 7-18 8-20
       #2. 218A4801P1 with pins 2-3 4-5 8-20 17-24

      SETUP
      -----
      Connect FVE switch box JD to module backplane JD.
      Plug test prom into HCMB U32 socket.
      Set HCMB berg jumpers as follows:
              J2,J3            "PROM"
              J4-J6            "F"
              J7-J15           Toward daughter board posts
              J16              "IN"
              J17-J19,J21,J22  "F"
              J20,J23,J24      "T"
      Set DCMB berg jumper J1,J2,J3,J4,J5,J6,J7="IN"
      Mount DCMB on HCMB.
      Plug HCMB/DCMB into module slot 1A (using extender card).
      Close HCMB PA06 to DCOM (on FVE switch box).
      Plug test connector #1 into DCMB JA socket.
      Plug test connector #2 into DCMB JB socket.

      TEST PROCEDURE
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      Turn power on.
      Momentarily open PA06 from DCOM, and then reconnect.
          (This applies a reset to HCMB.)
      Verify the following LED conditions:
              DCMB LED's                HCMB LED's
              ----------                ----------
              CR3 all on                CR2 LED's (all) flashing on/off
              CR4 TXDB on               all others off
              CR4 RXDB on
              all others off
      Change HCMB berg jumper J17 from "F" to "T" position.
      Verify the following LED conditions:
              DCMB LED's                HCMB LED's
              ----------                ----------
              CR3 all on                CR2 LED segments 1-3 flashing on/off
              CR4 TXDB on               all others off
              CR4 RXDB on
              CR4 CTSB on
              all others off

      END OF TEST
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6.2 ***TEST COMPLETE ***

7. Attachments

7.1 None at this time.