g	GE En	ergy	Functional Testing Specification
	Parts & Repair Services Louisville, KY		LOU-GED-173C5050BD

Test Procedure for a capacitor assembly.

REV.	DESCRIPTION	SIGNATURE	REV. DATE
Α	Initial release	J. Hardin	07/7/2011
В	Changed a test point 6.1.3 from CBPL-12(+) to CBPL-10(+)	J. Hardin	8/4/2011
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PREPARED BY J. Hardin	REVIEWED BY Roger Johnson	REVIEWED BY	QUALITY APPROVAL Charlie Wade
DATE	DATE	DATE	DATE
07/7/2011	7/7/2011		7/7/2011

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Functional test procedure for a Capacitor Bank

1. SCOPE

1.1 This is a functional testing procedure for a Capacitor Bank.

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 unit'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 85 DMM (or Equivalent)
1	H188703	Sencore capacitor analyzer

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6. TESTING PROCESS

- **6.1** Testing Procedure
 - **6.1.1** Measure resistance on resistors between terminal 1 and 3. Shall be around 10K, +/- 100 Ohms.
 - **6.1.2** If replacing capacitors double check capacitor polarity on all capacitors. Also check wire placement.
 - **6.1.3** Attach sencore to points CBPL-12 (-) and CBPL-10 (+). Press capacitor value button on sencore. Value should be 23000 uf (+/-1000uf).
 - **6.1.4** Attach sencore to points CBPL-12 (-) and CBPL-9 (+). Press capacitor value button on sencore. Value should be 23000 uf (+/-1000uf).
 - **6.1.5** Attach sencore to 2 parallel screw terminals on top of unit. Press capacitor value button on sencore. Value should be 11500 uf (+/-500uf).

6.2 ***TEST COMPLETE ***

7. Notes

7.1 None at this time.

8. Attachments

8.1 None at this time