g GE Energy	**Functional Testing Specification**
Parts & Repair Services ***Louisville, KY***	**LOU-GED-173C5050SA**

Test Procedure for a capacitor assembly

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

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	J. Hardin	07/7/2011
B	Changed a test point 6.1.3 from CBPL-12(+) to CBPL-10(+)	J. Hardin	8/4/2011
C			

PREPARED BY	REVIEWED BY	REVIEWED BY	QUALITY APPROVAL
J. Hardin	R. Johnson		Charlie Wade
DATE	**DATE**	**DATE**	**DATE**
07/7/2011	7/7/2011		7/7/2011

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

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 on mounting fins on left side on the resistor end of the unit. Press capacitor value button on sencore. Value should be 12000 uf (+/-500uf).

6.2 ***TEST COMPLETE ***

7. Notes

7.1 None at this time.

8. Attachments

8.1 None at this time.