g GE Energy	**Functional Testing Specification**
Parts & Repair Services ***Louisville, KY***	**LOU-GED-531X175SSBx**

Test Procedure for a 531X175SSBA

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

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PREPARED BY	REVIEWED BY	REVIEWED BY	QUALITY APPROVAL
James Archibald			Charlie Wade
DATE	**DATE**	**DATE**	**DATE**
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1. SCOPE

1.1 This is a functional testing procedure for a 531X175SSBA 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 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	H033766	DC300/ Series 6 PLC

6. TESTING PROCESS

6.1 Setup

6.1.1 Connect as described on connection diagram sheet.

Note: This card has 2 separate Channels. Channel 1 is TPA,TPB and GND. Channel 2 is TQA, TQB and GND

6.2 Testing Procedure

6.2.1 On the DC300 pull the E stop out, LED's should scroll from right to Left.

6.2.2 On the programmer Hit set drive 77 enter, (programmer should display parameter), hit 000 then type in 2315 and enter.

6.2.3 Set jumpers on card the same as test card and plug in to slot 1.

6.2.4 Turn RUN/ STOP switch to RUN.

6.2.5 On the I?O switches push I10 up, push I9 up then push I10 back to the center position

6.2.6 On the display on the PLC (after a few seconds) the display should read 0001 then after a few more seconds should display 0002.

6.2.7 The PLC should run the drive through several test automatically.

6.2.8 After drive runs push I10 down, turn RUN/STOP switch to Stop.

6.2.9 Repeat steps 6.2.4 thru 6.2.8 for channel 2.

6.2.10 ******TEST COMPLETE***

6.3 ***TEST COMPLETE ***

7. NOTES

7.1 None at this time

8. ATTACHMENTS

8.1 None at this time