GE Energy	**Functional Testing Specification**
Parts & Repair Services ***Louisville, KY***	**LOU-GED-DS3800NATL**

Test Procedure for a DS3800NATL

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

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	Steve Pharris	11/21/2011
B	Clarify instructions for 6.2.2 regarding connectors JAX, JBX, JCX, JDX, & JEX only tested on 1B1B revision.	D. Bush	12/19/2017
C			

PREPARED BY	REVIEWED BY	REVIEWED BY	QUALITY APPROVAL
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DATE	**DATE**	**DATE**	**DATE**
11/21/2011	12-19-2017		11/29/2011

1. SCOPE

1.1 This is a functional testing procedure for a DS3800NATL.

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)

6. Testing Process

6.1 Setup

6.1.1 None

6.2 Testing Procedure

6.2.1 Verify less than 2 ohms between the following points

JA-TPA1

JB-TPB1

JC-TPC1

JD-TPD1

JE-TPE1

JH1-JV16

JH2-JV15

JH4-JV18

JH5-JV17

TPV-JV19

JV14-JV20

JV20-JG

JG-JV2

JV1-JV3

JV3-JV5

JV5-JV7

JV7-JV9

JV9-JV11

JV11-JV13

6.2.2 Verify the following (All measurements are in OHMS and are +/- 1%)

TPA1-JAX = 1.245M

JAX-TPA2 = 2.74M – only tested on 1B1B revision!!!!!

TPA2-JV4 = 996K

TPB1-JBX = 1.245M

JBX-TPB2 = 2.74M – only tested on 1B1B revision!!!!!

TPB2-JV6 = 996K

TPC1-JCX = 1.245M

JCX-TPC2 = 2.74M – only tested on 1B1B revision!!!!!

TPC2-JV8 = 996K

TPD1-JDX = 1.245M – only tested on 1B1B revision!!!!!

JDX-TPD2 = 2.74M

TPD2-JV10 = 996K

TPE1-JEX = 1.245M

JEX-TPE2 = 2.74M – only tested on 1B1B revision!!!!!

TPE2-JV12 = 996K

6.3 ***TEST COMPLETE ***

7. Notes

7.1 None at this time.

8. Attachments

8.1 None at this time.