g		GE Energy		Functiona	l Testing Spe	ecification
	Parts & Repa Louisville, K\	ir Services '		LOU	I-GED-DS3800N	NFIA
	Test Procedure for a DS3800NFIA					
	MENT REVISION STATUS	Determined by the last er	ntry in the "REV" a	nd "DATE" column		DEV DATE
REV.	Initial release	DESCRIPTION		9	Steve Pharris	REV. DATE 06/21/2012
	Titidi Tolodase				Steve i nams	00/21/2012
В						
С						
	I					
© COPYRIGHT GENERAL ELECTRIC COMPANY						
Hard copies are uncontrolled and are for reference only.  PROPRIETARY INFORMATION – THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF GENERAL ELECTRIC COMPANY AND MAY NOT BE USED OR DISCLOSED TO OTHERS, EXCEPT WITH THE WRITTEN PERMISSION OF GENERAL ELECTRIC COMPANY.						
	RED BY Pharris	REVIEWED BY	REVIEWE	D BY	QUALITY API	
<b>DATE</b> 06/21	/2012	DATE	DATE		DATE 6/21/2012	

	g	
LOU-GED-DS3800NFIA	GE Energy	Page 2 of 4
REV. A	Parts & Repair Services	
	Louisville, KY	

#### 1. SCOPE

**1.1** This is a functional testing procedure for a DS3800NFIA.

#### 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)
1		Tenma DC Power Supply
2		28VDC Lamps (68A7803P10C) (On 32A05E)

# 6. <u>Testing Process</u>

- 6.1 Setup
  - **6.1.1** Set power supply for 28VDC
- 6.2 Testing Procedure
  - **6.2.1** Verify continuity between the following points

From	То
JA19	JA20
JA20	JB3
JA17	JB2
JA22	JB5
JA23	JB6
JA24	JB7
JA25	JB8
JA26	JB9
JA18	JB1
I/O 1	I/O 2
I/O 4	I/O 5

# **6.2.2** Verify infinite resistance between the following points

From	То
I/O 2	I/O 3
I/O 5	I/O 6

- **6.2.3** Connect positive output from power supply to JB1
- **6.2.4** Connect Com from power supply to JA20
- **6.2.5** Verify the following

From	То	Measurement
I/O 1	I/O 2	Open
I/O 4	I/O 5	Open
I/O 2	I/O 3	Short
I/O 5	I/O 6	Short

# 6.2.6 Remove the positive connection from JB1 but leave Com connected

LOU-GED-DS3800NFIA
REV. A

GE Energy
Parts & Repair Services
Louisville, KY

Page 4 of 4

- **6.2.7** Install the two lamps into the sockets at A
- **6.2.8** Connect the positive lead from power supply to JA1
- **6.2.9** Verify both lamps illuminate
- 6.2.10 Move lamps to sockets at B
- **6.2.11** Move lead from JA1 to JA2
- **6.2.12** Verify both lamps illuminate
- 6.2.13 Continue checking the remaining circuits using the table below

Lamp Position	+ from power supply
С	JA3
D	JA4
E	JA5
F	JA6
G	JA7
Н	JA8
J	JA9
K	JA10
L	JA11
M	JA12
N	JA13
Р	JA14
R	JA15
S	JA16

### 6.3 \*\*\*TEST COMPLETE \*\*\*

# 7. NOTES

**7.1** None at this time.

### 8. ATTACHEMENTS

**8.1** None at this time.