g		GE Energy Services	Functional Testing Specification	
	Parts & Repair Services Louisville, KY		LOU-GED-DS3820WCSx	

Test Procedure for a Water Cooled Assembly

REV.	DESCRIPTION	SIGNATURE	REV. DATE
Α	Initial release	J. Archibald	11/22/2004
В	Added special note on U-channel supports, page 3	C. Wade	9/10/2007
С	Added special note on Stab On connectors	C. Wade	11/19/2008

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JAMES ARCHIBALD	REVIEWED BY	REVIEWED BY	Rober Dunll
DATE 11/22/04	DATE	DATE	DATE 3/27/05

LOU-GED-DS3820WCSx
REV. C

GE Energy Services
Inspection & Repair Services
Louisville, KY

Page 2 of 3

Louisville, KY

Test Procedure for a Water Cooled Assembly

1. SCOPE

1.1 This is a functional testing procedure for a 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

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 the local documented procedures 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 or cracked
 - 4.2.1.2 Terminal strips / connectors broken or cracked
 - **4.2.1.3** Loose wires
 - 4.2.1.4 Components visually damaged
 - 4.2.1.5 Capacitors leaking
 - 4.2.1.6 Solder joints damaged or cold
 - 4.2.1.7 Circuit board burned or de-laminated
 - 4.2.1.8 Printed wire runs 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		TESTER H188547
1		+ 70 VOLT DC POWER SUPPLY
1		+ 28 VOLT POWER SUPPLY
1		FIRING BOX

GE Energy Services
Inspection & Repair Services
Louisville, KY

LOU-GED-DS3820WCSx REV. C

6. TESTING PROCESS

6.1 Setup

Special Note: Stab on connectors on both DS3800NTDL and DS3800NPTK cards should have their solder removed and resoldered to insure good connections.

Per D. Smith & C. Wade

- 6.2 Testing Procedure
 - 6.2.1 TIE PCOM (PCI), DCOM (JA2), AND GND TOGETHER
 - 6.2.2 CONNECT NEGATIVE OF 70 VDC TO PCI
 - 6.2.3 CONNECT POS OUTPUT OF 70VDC SUPPLY TO P70
 - 6.2.4 CONNECT NEGATIVE OUTPUT OF 28VDC SUPPLY TO PCI
 - 6.2.5 CONNECT POSITIVE OUTPUT OF 28VDC TOJA4 (P28)
 - 6.2.6 CONNECT FIRING BOX OUTPUT (GND) TO TP3
 - 6.2.7 CONNECT FIRING BOX OUTPUT NEG TO TP1
 - 6.2.8 CONNECT TESTER H188548 ACROSS TA AND TC ON SCR UNIT.
 - 6.2.9 TURN ON 70VDC SUPPLY.
 - 6.2.10 TURN ON 28VDC SUPPLY.
 - **6.2.11** TURN ON TESTED H188547 TESTER.
 - 6.2.12 TURN ON FIRING BOX.
 - 6.2.13 INCRESE FIRING PULSES AND LIGHT SHOULD LIGHT AND BE LENIER
 - 6.2.14
- 6.3 ***TEST COMPLETE ***

7. NOTES

7.1 Special Note: When prepping this unit for shipping, install U-channel supports to the water-cooled components to keep them from slipping or moving.