g	GE Energy	Functional Testing Sp	ecification	
	Inspection & Repair Services Louisville, KY		LOU-GEF-550T-DAS1-A Analog Spindle	
	Test Procedure for DAS			
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DATE 8/20/07	DATE	DATE	DATE 8/20/07

LOU-GEF-DAS1-A
DAS1 Spindle Card
REV. A

GE Energy
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Inspection & Repair Services
Louisville, KY

Functional test procedure for DAS1 spindle card.

1. SCOPE

1.1 This specification provides the Engineering Requirements for testing DAS1 analog spindle 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 GEK-20289 PWM Model II Drives

3.1.2 44C283831 PWMC3 & PWMC4 Schematics

4. ENGINEERING REQUIREMENTS

- 4.1 Description
 - **4.1.1** Analog spindle card used in the 550T control.
- 4.2 Equipment Cleaning
 - **4.2.1** 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.
- 4.3 Equipment Inspection
 - **4.3.1** Equipment should be visually inspected for any defects prior to applying power. This inspection should include the following as a minimum:

4.3.1.1 Wires broken or cracked

- 4.3.1.2 Terminal strips / connectors broken or cracked
- **4.3.1.3** Loose wires
- 4.3.1.4 Components visually damaged
- 4.3.1.5 Capacitors leaking
- 4.3.1.6 Solder joints damaged or cold
- 4.3.1.7 Circuit board burned or de-laminated
- 4.3.1.8 Printed wire runs burned or damaged

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EQUIPMENT REQUIRED

4.4 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.

	Description	Reference #	Qty
	550 Control with PWM Drive Cart	GE 550T Control	1
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5. TESTING PROCESS

- **5.1** Pre Test Requirement
 - **5.1.1** Check and compare active circuits using a Huntron Tracker, if needed compare BUT (board under test) to a KGB (known good card).
- **5.2** Functionally testing a DAS1 spindle card in a 550T control.
 - **5.2.1** Connect axis card to 550T control.
 - **5.2.2** Verify control is running fine before testing BUT. Once verified removed KGB and install customer's card, should be slot #20. With customer's card in the control, turn on control.
 - **5.2.3** Run part program test. Push cycle start to run test tape. Spindle drive should run smoothly.
 - **5.2.4** Run test tape through five times monitoring spindle motor. If unit run smoothly without errors, shut down control.
 - **5.2.5** End of test.
- 5.3 ***TEST COMPLETE ***
- 6. REFERENCES