g	GE Energy	**Functional Testing Specification**
	Inspection & Repair Services *Louisville, KY*	**LOU-GEF-1050Display**
	Test Procedure for 1050 Display	

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

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	R. Diercks	4/10/2009
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DATE 4/10/2009	DATE	DATE	DATE 4/10/2009

Functional test procedure for 256 Character Display

1. SCOPE

1.1 This specification provides the Engineering Requirements for testing the 1050 Display printed circuit board. The process applies only to the 256 Character Display, model number 44A399680-001

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-36093 Diagnostic Software for 1050T Controls
3.1.2 GEK-71632 Diagnostic Software for 1050MC Controls
3.1.3 44C288517 Schematics

4. ENGINEERING REQUIREMENTS

4.1 Description

4.1.1 The 1050 Control is a solid-state, integrated circuit controller/processor system using LSI circuits for data processing and control. The static logic circuits are arranged on modular, plug in, printed circuit boards, clearly identified by type. The circuit boards are mounted with functional grouping. In addition, a board identification number marks each rack slot. The backplane consists of printed conductors arranged in a busing structure so that each slot is universal and can accept any board type. The 1050 control uses the AXIS2 board for controlling two or more axis drives.

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

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.

Qty	Reference #	Description
1	GE 1050T	CPU3 Model
1	Diagnostic Tape Specific to Control	Diagnostic Tape

5. TESTING PROCESS

5.1 Diagnostic Test
    5.1.1 Install display into 1050 control
    5.1.2 Load the third section of the Diagnostic Tape.
        5.1.2.1 Once the tape is fully loaded it will rewind back to the beginning (Before Test No. 1). The Display should show: Push Control OFF, then ON, follow this instruction at this time. If the Cap Panel is hooked up you will also have to hit the RUN switch to start the control's program
    5.1.3 Setup the control for testing.
        5.1.3.1 Press NEXT, then 2, then Cycle Start. Alphanumeric characters should scroll on the display and the Option STOP lamp should flash.

5.2 ***TEST COMPLETE ***

6. REFERENCES
6.1 None at this time