g GE Industrial Systems	**Functional Testing Specification**
Renewal Services ***Louisville,KY***	**LOU–GED-531X102CCH**

Test Procedure for an AC-300 Main Control Card

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

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	K. Greenwell	8/15/02
B			
C			

PREPARED BY	REVIEWED BY	REVIEWED BY	QUALITY APPROVAL
K. Greenwell			Robert Dwall
DATE	**DATE**	**DATE**	**DATE**
08/15/02			10/25/02

Functional test procedure for a Card

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 GEK-85781

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		Fluke 85 DMM (or Equivalent)
1	H033764	AC-300 Drive
1	6VHHP10A1	Hand Held programmer

6. TESTING PROCESS

6.1 Setup

6.1.1 Set jumpers per the following table.

JP-17	1-2	JP-18	1-2
JP-16	1-2	JP-2	1-2
JP-4	1-2	JP-5	1-2
JP-6	1-2	JP-12	1-2
JP-21	1-2	JP-24	2-3
JP-7	1-2	JP-31	2-3
JP-15	1-2	JP-29	2-3
JP-30	1-2	JP-1	1-2
JP-26	1-2	JP-20	3-4
JP-19	1-2	JP-28	1-2
JP-27	1-2		

Note:

6.2 Testing Procedure

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6.2

- Remove main control card from drive.
- Set jumpers per setup.
- Install board under test into drive.
- Install AC300 test prom in socket U12.
- Power up drive.
- Check power supply voltages on main control card at far right side at bottom of card. PCom to +5v, -24v, -15v and +15v.
- LED's on main control card should scroll left to right one at a time.
- Use hand held monitor (6V H HP10A1) to perform a "SCR Test" Set - drive - 77 - enter - reset - Test - 12 - enter.
- Motor will turn and "PASSED" will appear on hand held monitor.
- On control panel turn Run/stop switch to Run. Motor will start and leds will scroll Left to Right, two leds at a time
- Adjust speed pot slowly clockwise and motor will speed up following speed pot adjustment.
- Let motor run for burn in test.

6.3 . End of test.

- Turn Speed pot counter clockwise to 0 speed.
- Turn start/stop switch to stop.
- Turn off AC300 power.
- Remove card and install test card. Put customers U12 prom back in card.
- Make sure Drive still works before leaving.

6.2.1

6.3 *****TEST COMPLETE ******