g GE Energy	**Functional Testing Specification**
Parts & Repair Services ***Louisville, KY***	**LOU-GED-DS200UPLA**

Test Procedure for a DS200UPLA card.

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

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1. SCOPE

1.1 This is a functional testing procedure for a DS200UPLA Card on the ATE1 Test System and with the DS2020UCOC Tester.

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	H033779	ATE
1	H188593	ATE TEST FIXTURE
1	H188762	DS2020UCOC

6. TESTING PROCESS

6.1 Setup

6.1.1 Replace DLAN module with new style IS215DLANH1A

6.2 ATE1 Test

6.2.1 As required by ATE instructions

6.3 Testing Procedure

6.3.1 Identify the test to be used on the ATE by matching the model number with the ones on the system and follow the instructions given after execution.

6.3.2 If unit passes, continue with next step.

6.4 System Testing

6.4.1 Setup unit as shop board is configured:

6.4.1.1 Install Firmware DS200UPLAF1CAA into U6 and U7.

6.4.1.2 Voltage setup for 230VAC.

6.4.1.3 SW1 1=open, 2=closed, 3=open, 4=closed, 5=closed, 6=open, 7=open, 8=closed

6.4.1.4 SW2 1-8 all open

6.4.1.5 JP6-9 all on

6.4.1.6 JP10=LAN

6.4.1.7 JP14=2-3, JP15=2-3, JP16=2-3, JP17=1-2, JP18=1-2

6.4.1.8 JP19=on

6.4.1.9 JP25=9600

6.4.1.10 JP26-29=on

6.4.2 Install UUT into DS2020UCOC test rack and connect PWRPL, 2PL, CMPL2 and ARCPL connections.

6.4.3 Power up unit.

6.4.4 Using GE TOOL BOX Software; open module SIM04_v11-5.ucb and OC1.ocb in the N:\Simulators\SIM004_UCIA folder.

6.4.5 Initiate going “on-line” with the SIM04_v11-5.ucb module and verify that it is connected to the UCOC test rack; minor errors are fine and normal.

6.4.6 Upload the OC1.ocb to the UCOC and verify that the load process is initiated with the display “loading bar”.

6.4.7 Verify load completed with 0 FPM, TESTING and 0.00 % is on top row of display module.

6.4.8 On drive (ARCNET) next to UCOC, press the “RUN” button and verify the top display changes to 4000.00 FPM, TESTING and 327.67 %.

6.4.9 Press the “STOP” button and verify the displays go back to 0 FPM, TESTING and 0.00%.

6.4.10 Open UCOC to expose the UPLA board and on SW2, switch 2 from the open position to the closed and reset UPLA board by pressing the RESET button on the UPLA board.

6.4.11 Verify display changed to:

GE Drive Systems – Operator Console 2000

OC-P code download required - - (LAN ID 101)

<no config>

6.5 ***TEST COMPLETE ***

7. NOTES

7.1 Changes to the electronic ATE1 test are recorded in the Software Control Database

8. ATTACHMENTS

8.1 None at this time.