g GE Energy	**Functional Testing Specification**
Parts & Repair Services ***Louisville, KY***	**LOU-GED-IS2020JPDFG01**

Test Procedure for an IS2020JPDFG01 Power Distribution Module.

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1. SCOPE

1.1 This is a functional testing procedure for an **IS2020JPDFG01** MARK VIe AC Power Distribution Module.

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		Fluke 87 DMM (or Equivalent)
1		Tenma Power Supply (or Equivalent)

6. TESTING PROCESS

6.1 Setup Procedure

6.1.1.1 Turn switches SW1R, SW1S, and SW1T off at this time.

6.1.1.2 Turn switches SW7X, SW7Y, and SW7Z off at this time.

6.1.1.3 Turn Circuit Breaker CB1 off at this time.

6.1.1.4 Remove all Fuses and Fuse Caps. While the Fuses are out, using Fluke 87 DMM (or Equivalent), set to measure Resistance, check to make sure that there is less than 5 Ohms of resistance across each one.

6.1.1.5 Install jumper across JP1 on IS200JPDFG1 card.

6.2 Testing Procedure

6.2.1 Static checks for Resistors R1 through R4

6.2.1.1 Unplug Plug JD1 from IS200JPDFG1A card.

6.2.1.2 Using Fluke 87 DMM (or Equivalent), set to measure Resistance, measure from Plug JD1-4 to Plug JD1-9. Should read 22 Ohms -/+ 2 Ohms.

6.2.1.3 Using Fluke 87 DMM (or Equivalent), set to measure Resistance, measure from Plug JD1-4 to Plug JD1-7. Should read 1 Ohm -/+ .2 Ohms.

6.2.1.4 Using Fluke 87 DMM (or Equivalent), set to measure Resistance, measure from Plug JD1-2 to Plug JD1-8. Should read 22 Ohms -/+ 2 Ohms.

6.2.1.5 Using Fluke 87 DMM (or Equivalent), set to measure Resistance, measure from Plug JD1-2 to Plug JD1-6. Should read 1 Ohm -/+ .2 Ohms.

6.2.1.6 Plug JD1 Plug back into JD1 connector on IS200JPDFG1A card.

6.2.2 Static check for Diode D1

6.2.2.1 Using Fluke 87 DMM (or Equivalent), set for Diode checking, check from TB1-1 with the positive lead of Multimeter to (+) output/load side of FL1. Reading should be 0.43 VDC -/+ 0.05 VDC. Reversing the leads should read “OL” or open on Multimeter.

6.2.3 Static check of MOV’s

6.2.3.1 Turn Circuit Breaker CB1 on at this time.

6.2.3.2 Using Fluke 87 DMM (or Equivalent), set to measure Resistance, measure from TB1-3 to TB1-4. Should read >10 MOhms.

6.2.3.3 Using Fluke 87 DMM (or Equivalent), set to measure Resistance, measure from TB1-3 to Chassis Gnd. Should read >10 MOhms.

6.2.3.4 Using Fluke 87 DMM (or Equivalent), set to measure Resistance, measure from TB1-4 to Chassis Gnd. Should read >10 MOhms.

6.2.3.5 Turn Circuit Breaker CB1 off at this time.

6.2.4 Static checks for Traces between P1 and P2 on IS200JPDFG1 card

6.2.4.1 Using Fluke 87 DMM (or Equivalent), set to measure Resistance, measure points listed in chart below on the IS200JPDFG1Axx card:

From:	To:	Expected Result:
P1-9	P2-1	<10 Ohms
P1-11	P2-3	<10 Ohms
P1-13	P2-5	<10 Ohms
P1-15	P2-7	<10 Ohms
P1-17	P2-9	<10 Ohms
P1-19	P2-11	<10 Ohms
P1-21	P2-13	<10 Ohms
P1-23	P2-15	<10 Ohms
P1-25	P2-17	<10 Ohms
P1-27	P2-19	<10 Ohms
P1-29	P2-21	<10 Ohms
P1-31	P2-23	<10 Ohms
P1-33	P2-25	<10 Ohms
P1-35	P2-27	<10 Ohms
P1-37	P2-29	<10 Ohms
P1-39	P2-31	<10 Ohms
P1-41	P2-33	<10 Ohms
P1-43	P2-35	<10 Ohms
P1-45	P2-37	<10 Ohms
P1-47	P2-39	<10 Ohms
P1-47	P2-47	<10 Ohms
P1-49	P2-49	<10 Ohms
P1-10	P2-2	<10 Ohms
P1-12	P2-4	<10 Ohms
P1-14	P2-6	<10 Ohms
P1-16	P2-8	<10 Ohms
P1-18	P2-10	<10 Ohms
P1-20	P2-12	<10 Ohms
P1-22	P2-14	<10 Ohms
P1-24	P2-16	<10 Ohms
P1-26	P2-18	<10 Ohms
P1-28	P2-20	<10 Ohms
P1-30	P2-22	<10 Ohms

P1-32	P2-24	<10 Ohms
P1-34	P2-26	<10 Ohms
From:	**To:**	**Expected Result:**
P1-36	P2-28	<10 Ohms
P1-38	P2-30	<10 Ohms
P1-40	P2-32	<10 Ohms
P1-42	P2-34	<10 Ohms
P1-44	P2-36	<10 Ohms
P1-46	P2-38	<10 Ohms
P1-48	P2-40	<10 Ohms
P1-48	P2-48	<10 Ohms
P1-50	P2-50	<10 Ohms

6.2.4.2 Static checks for Traces between JAF1, JZ2, and JZ3 on IS200JPDFG1 card

6.2.4.2.1 Using Fluke 87 DMM (or Equivalent), set to measure Resistance, measure from JAF1-1 to JZ2-1. Should read <10 Ohms on Multimeter.

6.2.4.2.2 Using Fluke 87 DMM (or Equivalent), set to measure Resistance, measure from JAF1-2 to JZ2-3. Should read <10 Ohms on Multimeter.

6.2.4.2.3 Using Fluke 87 DMM (or Equivalent), set to measure Resistance, measure from JAF1-4 to JZ3-1. Should read <10 Ohms on Multimeter.

6.2.4.2.4 Using Fluke 87 DMM (or Equivalent), set to measure Resistance, measure from JAF1-5 to JZ3-3. Should read <10 Ohms on Multimeter.

6.2.4.3 Static checks for JP1 on IS200JPDFG1 card

6.2.4.3.1 Using Fluke 87 DMM (or Equivalent), set to measure Resistance, measure from HW1 test point on IS200JPDFG1 card to Chassis Gnd. Should read 170 KOhms -/+ 15 KOhms on Multimeter.

6.2.4.3.2 Using Fluke 87 DMM (or Equivalent), set to measure Resistance, measure from HW2 test point on IS200JPDFG1 card to Chassis Gnd. Should read 170 KOhms -/+ 15 KOhms on Multimeter.

6.2.4.3.3 Remove jumper across JP1 on IS200JPDFG1 card.

6.2.4.3.4 Using Fluke 87 DMM (or Equivalent), set to measure Resistance, measure from HW1 test point on IS200JPDFG1 card to Chassis Gnd. Should read >10 MOhms on Multimeter.

6.2.4.3.5 Using Fluke 87 DMM (or Equivalent), set to measure Resistance, measure from HW2 test point on IS200JPDFG1 card to Chassis Gnd. Should read >10 MOhms on Multimeter.

6.2.4.3.6 Reinstall jumper across JP1 on IS200JPDFG1 card.

6.2.5 Functional Testing

6.2.5.1 Connect +12 VDC to TB1-3 and 12 Return to TB1-4.

6.2.5.2 Connect +5 VDC to P1-50 on IS200JPDFG1 card and +5 VDC Return to P1-1 on IS200JPDFG1 card.

6.2.5.3 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from TB1-1 with positive lead of Multimeter to TB1-2 with negative lead of Multimeter. Reading should be 0 VDC.

6.2.5.4 Turn Circuit Breaker CB1 on.

6.2.5.5 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from TB1-1 with positive lead of Multimeter to TB1-2 with negative lead of Multimeter. Reading should be +11.6 VDC -/+ 0.3 VDC.

6.2.5.6 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from P1-2 on IS200JPDFG1 card with positive lead of Multimeter to P1-49 on IS200JPDFG1 card with negative lead of Multimeter. Reading should be 0.19 VDC -/+ 0.03 VDC.

6.2.5.7 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from P1-3 on IS200JPDFG1 card with positive lead of Multimeter to P1-49 on IS200JPDFG1 card with negative lead of Multimeter. Reading should be -0.19 VDC -/+ 0.3 VDC.

6.2.5.8 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from JZ3-9 with positive lead of Multimeter to JZ3-7 with negative lead of Multimeter. Reading should be +11.6 VDC -/+ 0.3 VDC.

6.2.5.9 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from JZ3-12 with positive lead of Multimeter to JZ3-10 with negative lead of Multimeter. Reading should be +11.6 VDC -/+ 0.3 VDC.

6.2.5.10 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from JZ2-9 with positive lead of Multimeter to JZ2-7 with negative lead of Multimeter. Reading should be +11.6 VDC -/+ 0.3 VDC.

6.2.5.11 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from JZ2-12 with positive lead of Multimeter to JZ2-10 with negative lead of Multimeter. Reading should be +11.6 VDC -/+ 0.3 VDC.

6.2.5.12 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from J12-1 with positive lead of Multimeter to J12-2 with negative lead of Multimeter. Reading should be 0 VDC.

6.2.5.13 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from P1-6 on IS200JPDFG1 card with positive lead of Multimeter to P1-49 on IS200JPDFG1 card with negative lead of Multimeter. Reading should be 0 VDC.

6.2.5.14 Install Fuses and Caps for FU12 and FU13. Make sure to install the correct fuse.

6.2.5.15 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from J12-1 with positive lead of Multimeter to J12-2 with negative lead of Multimeter. Reading should be +11.6 VDC -/+ 0.3 VDC.

6.2.5.16 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from P1-6 on IS200JPDFG1 card with positive lead of Multimeter to P1-49 on IS200JPDFG1 card with negative lead of Multimeter. Reading should be 0.26 VDC -/+ 0.1 VDC.

6.2.5.17 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from J8A-1 with positive lead of Multimeter to J8A-2 with negative lead of Multimeter. Reading should be 0 VDC.

6.2.5.18 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from P1-6 on IS200JPDFG1 card with positive lead of Multimeter to P1-49 on IS200JPDFG1 card with negative lead of Multimeter. Reading should be 0.26 VDC -/+ 0.1 VDC.

6.2.5.19 Install Fuses and Caps for FU81 and FU182. Make sure to install the correct fuse.

6.2.5.20 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from J8A-1 with positive lead of Multimeter to J8A-2 with negative lead of Multimeter. Reading should be +11.6 VDC -/+ 0.3 VDC.

6.2.5.21 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from P1-6 on IS200JPDFG1 card with positive lead of Multimeter to P1-49 on IS200JPDFG1 card with negative lead of Multimeter. Reading should be 1 VDC -/+ 0.2 VDC.

6.2.5.22 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from J8B-1 with positive lead of Multimeter to J8B-2 with negative lead of Multimeter. Reading should be 0 VDC.

6.2.5.23 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from P1-6 on IS200JPDFG1 card with positive lead of Multimeter to P1-49 on

IS200JPDFG1 card with negative lead of Multimeter. Reading should be 1 VDC -/+ 0.2 VDC.

6.2.5.24 Install Fuses and Caps for FU83 and FU184. Make sure to install the correct fuse.

6.2.5.25 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from J8B-1 with positive lead of Multimeter to J8B-2 with negative lead of Multimeter. Reading should be +11.6 VDC -/+ 0.3 VDC.

6.2.5.26 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from P1-6 on IS200JPDFG1 card with positive lead of Multimeter to P1-49 on IS200JPDFG1 card with negative lead of Multimeter. Reading should be 1.4 VDC -/+ 0.3 VDC.

6.2.5.27 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from J1R-1 with positive lead of Multimeter to J1R-2 with negative lead of Multimeter. Reading should be 0 VDC.

6.2.5.28 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from P1-4 on IS200JPDFG1 card with positive lead of Multimeter to P1-49 on IS200JPDFG1 card with negative lead of Multimeter. Reading should be 0 VDC -/+ 0.02 VDC.

6.2.5.29 Install Fuses and Caps for FU1R and FU2R. Make sure to install the correct fuse.

6.2.5.30 Turn on Switch SW1R.

6.2.5.31 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from J1R-1 with positive lead of Multimeter to J1R-2 with negative lead of Multimeter. Reading should be +11.6 VDC -/+ 0.3 VDC.

6.2.5.32 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from P1-4 on IS200JPDFG1 card with positive lead of Multimeter to P1-49 on IS200JPDFG1 card with negative lead of Multimeter. Reading should be 0.85 VDC -/+ 0.2 VDC.

6.2.5.33 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from J1S-1 with positive lead of Multimeter to J1S-2 with negative lead of Multimeter. Reading should be 0 VDC.

6.2.5.34 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from P1-4 on IS200JPDFG1 card with positive lead of Multimeter to P1-49 on IS200JPDFG1 card with negative lead of Multimeter. Reading should be 0.85 VDC -/+ 0.2 VDC.

6.2.5.35 Install Fuses and Caps for FU1S and FU2S. Make sure to install the correct fuse.

6.2.5.36 Turn on Switch SW1S.

6.2.5.37 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from J1S-1 with positive lead of Multimeter to J1S-2 with negative lead of Multimeter. Reading should be +11.6 VDC -/+ 0.3 VDC.

6.2.5.38 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from P1-4 on IS200JPDFG1 card with positive lead of Multimeter to P1-49 on IS200JPDFG1 card with negative lead of Multimeter. Reading should be 1.2 VDC -/+ 0.2 VDC.

6.2.5.39 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from J1T-1 with positive lead of Multimeter to J1T-2 with negative lead of Multimeter. Reading should be 0 VDC.

6.2.5.40 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from P1-4 on IS200JPDFG1 card with positive lead of Multimeter to P1-49 on IS200JPDFG1 card with negative lead of Multimeter. Reading should be 1.2 VDC -/+ 0.2 VDC.

6.2.5.41 Install Fuses and Caps for FU1T and FU2T. Make sure to install the correct fuse.

6.2.5.42 Turn on Switch SW1S.

6.2.5.43 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from J1T-1 with positive lead of Multimeter to J1T-2 with negative lead of Multimeter. Reading should be +11.6 VDC -/+ 0.3 VDC.

6.2.5.44 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from P1-4 on IS200JPDFG1 card with positive lead of Multimeter to P1-49 on IS200JPDFG1 card with negative lead of Multimeter. Reading should be 1.4 VDC -/+ 0.2 VDC.

6.2.5.45

6.2.5.46 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from J1T-1 with positive lead of Multimeter to J1T-2 with negative lead of Multimeter. Reading should be 0 VDC.

6.2.5.47 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from P1-4 on IS200JPDFG1 card with positive lead of Multimeter to P1-49 on IS200JPDFG1 card with negative lead of Multimeter. Reading should be 1.2 VDC -/+ 0.2 VDC.

6.2.5.48 Install Fuses and Caps for FU1T and FU2T. Make sure to install the correct fuse.

6.2.5.49 Turn on Switch SW1S.

6.2.5.50 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from J1T-1 with positive lead of Multimeter to J1T-2 with negative lead of Multimeter. Reading should be +11.6 VDC -/+ 0.3 VDC.

6.2.5.51 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from P1-4 on IS200JPDFG1 card with positive lead of Multimeter to P1-49 on IS200JPDFG1 card with negative lead of Multimeter. Reading should be 1.4 VDC -/+ 0.2 VDC.

6.2.5.52 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from J7X-1 with positive lead of Multimeter to J7X-2 with negative lead of Multimeter. Reading should be 0 VDC.

6.2.5.53 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from J7-1 with positive lead of Multimeter to J7-2 with negative lead of Multimeter. Reading should be 0 VDC.

6.2.5.54 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from P1-5 on IS200JPDFG1 card with positive lead of Multimeter to P1-49 on IS200JPDFG1 card with negative lead of Multimeter. Reading should be 0 VDC -/+ 0.2 VDC.

6.2.5.55 Install Fuses and Caps for FU72 and FU72. Make sure to install the correct fuse.

6.2.5.56 Turn on Switch SW7X.

6.2.5.57 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from J7X-1 with positive lead of Multimeter to J7X with negative lead of Multimeter. Reading should be +11.6 VDC -/+ 0.3 VDC.

6.2.5.58 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from J7-1 with positive lead of Multimeter to J7-2 with negative lead of Multimeter. Reading should be 10.95 VDC -/+0.2 VDC.

6.2.5.59 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from P1-5 on IS200JPDFG1 card with positive lead of Multimeter to P1-49 on IS200JPDFG1 card with negative lead of Multimeter. Reading should be 0.85 VDC -/+ 0.2 VDC.

6.2.5.60 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from J7Y-1 with positive lead of Multimeter to J7Y-2 with negative lead of Multimeter. Reading should be 0 VDC.

6.2.5.61 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from J7-1 with positive lead of Multimeter to J7-2 with negative lead of Multimeter. Reading should be 10.95 VDC -/+0.2 VDC.

6.2.5.62 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from P1-5 on IS200JPDFG1 card with positive lead of Multimeter to P1-49 on IS200JPDFG1 card with negative lead of Multimeter. Reading should be 0.85 VDC -/+ 0.02 VDC.

6.2.5.63 Install Fuses and Caps for FU74 and FU73. Make sure to install the correct fuse.

6.2.5.64 Turn on Switch SW7Y.

6.2.5.65 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from J7Y-1 with positive lead of Multimeter to J7Y-2 with negative lead of Multimeter. Reading should be +11.6 VDC -/+ 0.3 VDC.

6.2.5.66 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from J7-1 with positive lead of Multimeter to J7-2 with negative lead of Multimeter. Reading should be 10.95 VDC -/+0.2 VDC.

6.2.5.67 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from P1-5 on IS200JPDFG1 card with positive lead of Multimeter to P1-49 on IS200JPDFG1 card with negative lead of Multimeter. Reading should be 1.2 VDC -/+ 0.2 VDC.

6.2.5.68 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from J7Z-1 with positive lead of Multimeter to J7Z-2 with negative lead of Multimeter. Reading should be 0 VDC.

6.2.5.69 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from J7-1 with positive lead of Multimeter to J7-2 with negative lead of Multimeter. Reading should be 10.95 VDC -/+0.2 VDC.

6.2.5.70 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from P1-5 on IS200JPDFG1 card with positive lead of Multimeter to P1-49 on IS200JPDFG1 card with negative lead of Multimeter. Reading should be 1.2 VDC -/+ 0.2 VDC.

6.2.5.71 Install Fuses and Caps for FU76 and FU75. Make sure to install the correct fuse.

6.2.5.72 Turn on Switch SW7Z.

6.2.5.73 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from J7Z-1 with positive lead of Multimeter to J7Z-2 with negative lead of Multimeter. Reading should be +11.6 VDC -/+ 0.3 VDC.

6.2.5.74 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from J7-1 with positive lead of Multimeter to J7-2 with negative lead of Multimeter. Reading should be 10.95 VDC -/+0.2 VDC.

6.2.5.75 Using Fluke 87 DMM (or Equivalent), set to measure DC Voltage, measure from P1-5 on IS200JPDFG1 card with positive lead of Multimeter to P1-49 on IS200JPDFG1 card with negative lead of Multimeter. Reading should be 1.4 VDC -/+ 0.2 VDC.

6.2.6 CHIP ID: The ID chip needs to be read to confirm that it has been programmed properly. Take the card over to the CHIP ID pc located in the MARK VI area of the shop and select the correct revision of IS200JPDF from the menu and follow the instructions given to you by the pc. When selecting which IS200JPDF to use, you may see a 5G or 7G next to the number. This refers to the serial number and whether it has 5 or 7 digits in it. Select the proper one, as you will be expected to type this number into the system at a given point. When entering this data, be sure to use all CAPITAL LETTERS as lower case might cause it not to agree with what's programmed in the chip. If the particular revision you need to select doesn't have a 5G or 7G next to it, get it added before proceeding.

6.3 ***TEST COMPLETE ***

7. NOTES

7.1 None at this time.

8. ATTACHMENTS

8.1 None at this time.