g GE Energy	**Functional Testing Specification**
Parts & Repair Services ***Louisville, KY***	**LOU-GED-246B8279**

Test Procedure for a 246B8279G3 Filter Assembly.

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

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release. Covers G3 version only at this time. Test to be modified to include other versions as needed.	J. Francis	03/22/2017
B			
C			

PREPARED BY	REVIEWED BY	REVIEWED BY	QUALITY APPROVAL
J. Francis			L. Groves
DATE	**DATE**	**DATE**	**DATE**
03/22/2017			3/22/2017

1. SCOPE

1.1 This is a functional testing procedure for a 246B8279G3 Filter Assembly.

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 85 DMM or equivalent
1	*	110 VAC Variac
1	*	100 WATT 115 VAC Light Bulb
1	*	Tenma Function Generator or equivalent
1	*	Oscilloscope

6. TESTING PROCESS

6.1 Testing Procedure

6.1.1 Static Check

6.1.1.1 Using DMM check the following for listed results:

From:	To:	Expected Result:
TB2-3	TB2-4	>150K Ohms
TB2-5	TB2-6	>150K Ohms
TB1-3	TB1-4	>150K Ohms
TB1-5	TB1-6	>150K Ohms
TB2-3	Chassis GND	>1 Meg Ohm
TB2-4	Chassis GND	>1 Meg Ohm
TB2-5	Chassis GND	>1 Meg Ohm
TB2-6	Chassis GND	>1 Meg Ohm
TB1-3	Chassis GND	>1 Meg Ohm
TB1-4	Chassis GND	>1 Meg Ohm
TB1-5	Chassis GND	>1 Meg Ohm
TB1-6	Chassis GND	>1 Meg Ohm
TB2-3	TB1-3	Continuity
TB2-4	TB1-4	Continuity
TB2-5	TB1-5	Continuity
TB2-6	TB1-6	Continuity

6.2 Attenuation tests

6.2.1 Using the Function Generator input the listed frequency into the listed inputs and use the O-Scope to check the output for the listed output for listed result:

INPUTS	-	OUTPUTS	-	Input Freq	EXPECTED RESULTS
TB2-3	TB2-4	TB1-3	TB1-4	2 Hz	Attenuation
TB2-3	TB2-4	TB1-3	TB1-4	15 Hz	No Attenuation
TB2-3	TB2-4	TB1-3	TB1-4	60 Hz	No Attenuation
TB2-3	TB2-4	TB1-3	TB1-4	4 K Hz	No Attenuation
TB2-3	TB2-4	TB1-3	TB1-4	5 K Hz	Attenuation
TB2-5	TB2-6	TB1-5	TB1-6	2 Hz	Attenuation
TB2-5	TB2-6	TB1-5	TB1-6	15 Hz	No Attenuation
TB2-5	TB2-6	TB1-5	TB1-6	60 Hz	No Attenuation
TB2-5	TB2-6	TB1-5	TB1-6	4 K Hz	No Attenuation
TB2-5	TB2-6	TB1-5	TB1-6	5 K Hz	Attenuation

6.3 Functional test (refer to 8.1)

6.3.1 With power off, connect Variac output across TB2-3 and TB2-4.
6.3.2 Connect light bulb across TB1-3 and TB1-4.
6.3.3 With Variac adjusted to zero output, turn on Variac and adjust to 110 VAC. Light should come on.
6.3.4 Adjust Variac output back to zero and turn off Variac.
6.3.5 With power off, connect Variac output across TB2-5 and TB2-6.
6.3.6 Connect light bulb across TB1-5 and TB1-6.
6.3.7 With Variac adjusted to zero output, turn on Variac and adjust to 110 VAC. Light should come on.
6.3.8 Adjust Variac output back to zero and turn off Variac.
6.3.9 Remove all connections.

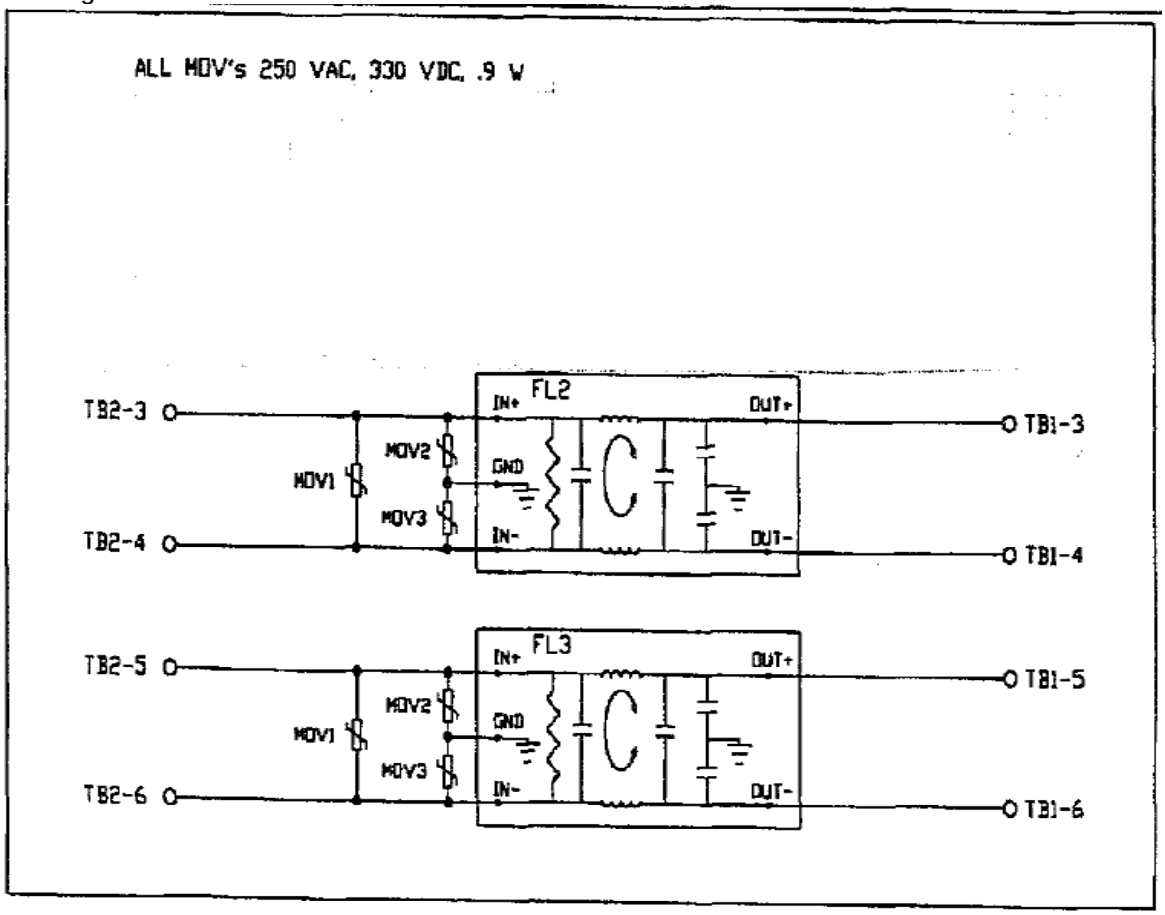
6.4 ***TEST COMPLETE ***

7. NOTES

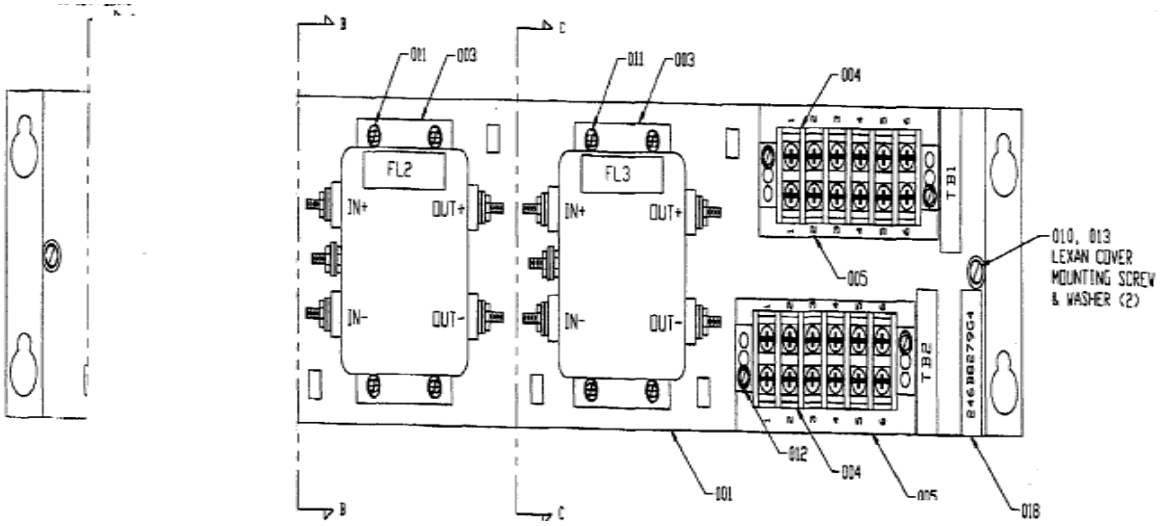
7.1 None at this time.

8. ATTACHMENTS

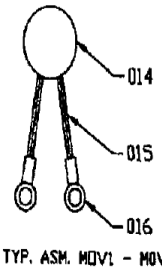
8.1 Drawing and Schematic



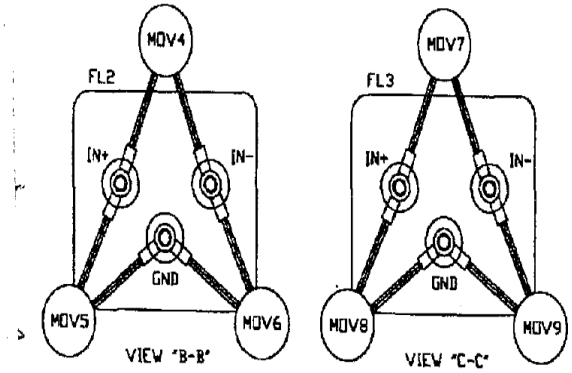
8.2



8.3



TYP. ASM. MOV1 - MOV9



NOTE: 1. INSTALL MOV'S AS LAST TERMINATION
2. AFTER WIRING COMPLETE; FOLD MOV'S INWARD TOWARD FL1, FL2, OR FL3 CONNECTION POINTS

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