PEARL Inspect & Test Standards			
LOW VOLTAGE AND MEDIUM VOLTAGE FUSES NON REFILL STYLE	Revision		
	Standard	Number	Date
	3110-I	3	6-2009

This standard is designed to verify that a low voltage or a medium voltage non-refill style fuse is in a safe and reliable operating condition. PEARL testing does not verify the claims of the original equipment manufacturer as to the validity of its design criteria. In the event that the device is not in this condition then this standard cannot be used and the PEARL Reconditioning Standard needs to be followed.

PEARL does not warrant, guarantee or make any representation regarding the correctness of specifications, use for any particular purpose, quality or extent of testing, accuracy, or reliability as to any equipment, products or documentation referenced herein.

I TEST EQUIPMENT

One of the following pieces of test equipment is required to perform the fuse linkage resistance testing requirements of this standard:

1. Digital Low Resistance Ohmmeter (DLRO - 10 amp unit is sufficient.)
2. DC Current Source and a Millivoltmeter

II EVALUATION

The following procedures shall be used to determine the condition of the low voltage or medium voltage non-refill style fuse under this standard.

1 INSPECTION

1.1 Barrel

1.1.1 Ensure that the labels and/or stampings are legible
1.1.2 Ensure that the third party listing service label is legible if applicable
1.1.3 Inspect for dents and subsurface scarring
1.1.4 Inspect for signs of overheating, swelling and deterioration
1.1.5 Inspect for rust and corrosion
1.1.6 Inspect for discoloration, cracking or brittleness
1.1.7 Inspect for proper seals between the barrel and conductive ends
1.1.8 Record results on an approved PEARL Evaluation Form.

1.2 Conductive Ends

1.2.1 Inspect for missing screws, bolts and/or nuts
1.2.2 Inspect for dents and subsurface scarring
1.2.3 Inspect for signs of corrosion, discoloration and oxidation.
1.2.4 Inspect for cracking from mishandling and/or improper crimping
1.2.5 Inspect for a damaged indicator and/or actuator where applicable
1.2.6 Record Results on an approved PEARL Evaluation Form.

2 TESTING

2.1 Fuse Link Resistance

2.1.1 Perform a contact resistance, millivolt drop test or watt-loss test between conductive ends
2.1.2 Record results on an approved PEARL Evaluation Form.
2.1.3 As PEARL we recognized the ANSI standard of acceptance. Each fuse should test within 15% of each other in a single or a three phase switch.

3 EVALUATION REVIEW

In order for the device to be eligible for the Inspect & Test Quality Seal, the device needs to have passed all of the preceding Inspection (1) and Testing (2) points. Any failures in the process will require that the device be “Reconditioned” at which time the PEARL Reconditioning Standard needs to be followed.

III PEARL CERTIFICATION

This product has now been inspected and tested and has passed all tests under the PEARL Inspect & Test Standard. The green PEARL Inspect & Test Quality Seal may now be placed on the device.