

<i>PEARL Inspect & Test Standards</i>			
<i>LOW VOLTAGE SURGE ARRESTERS</i>	<i>PROPOSED STANDARD</i>		
	<i>Standard</i>	<i>Number</i>	<i>Date</i>
	<i>1930-I</i>	<i>3</i>	<i>6-2009</i>

This standard is designed to verify that a low voltage surge arresters is in a safe and reliable operating condition based upon the design of the original manufacturer at the time of manufacturing. 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.

REFERENCES

The following references are use in this standard. Each of these references can be found in their respective listed locations.

Table References: Section 6000

Table 2: Insulation resistance and test values for electrical apparatus.

Table 11: Insulation resistance and test temperature conversion to 20°C values.

I TEST EQUIPMENT

The following test equipment is required to perform the testing requirements of this standard:

1. Insulation Resistance Test Set (Megohmmeter) 2500 Vdc minimum

<i>PEARL Inspect & Test Standards</i>			
<i>LOW VOLTAGE SURGE ARRESTERS</i>	<i>PROPOSED STANDARD</i>		
	<i>Standard</i>	<i>Number</i>	<i>Date</i>
	<i>1930-I</i>	<i>3</i>	<i>6-2009</i>

II EVALUATION

The following procedures shall be used to determine the condition a low voltage surge arresters under this standard.

1 INSPECTION

1.1 General

- 1.1.1 Ensure that the nameplate data is legible.
- 1.1.2 Ensure that the third party listing service label is legible.
- 1.1.3 Inspect for missing bolts and nuts
- 1.1.4 Inspect for rust and corrosion.
- 1.1.5 Inspect exterior surface for signs of contamination
- 1.1.6 Inspect exterior surface for signs of overheating
- 1.1.7 Record results on an approved PEARL Evaluation Form.

2 TESTING

2.1 Insulation Resistance

- 2.1.1 Perform an insulation resistance test at test voltage specified by manufacturer. The test duration shall be for 1 minute.
- 2.1.2 Record results on an approved PEARL Evaluation Form.
- 2.1.3 Compare test results to manufacturer's recommendations or a minimum of 25 megohms.

2.2 Torque

- 2.2.1 Check all screw and bolt connections for the proper torque per manufacturer's recommendations or Table 1 of Section 6000.
- 2.2.2 Record results on an approved PEARL Evaluation Form.

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.