

<i>PEARL Reconditioning 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>5</i>	<i>11-2008</i>

This standard is designed to verify that a low voltage surge arrester is in a safe and reliable operating condition. In the event that the surge arrester is not in this condition then this standard will establish the reconditioning requirements. The term "reconditioning" is defined as "the process of returning electrical equipment to safe and reliable operating condition based upon the design of the original manufacturer at the time of manufacturing."

## **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 reconditioning standard:

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

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## II RECONDITION EVALUATION

These steps are used to determine what will be required to recondition this product 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.

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### **III RECONDITIONING PROCEDURES**

The following procedures are in a recommended order and are required to recondition this product. PEARL recognizes that, based on actual product design and as found condition, some of these procedures may not be applicable. The testing requirement must be completed before the product can be labeled as a PEARL reconditioned product.

#### **1 RECONDITIONING**

##### **1.1 Exterior**

**1.1.1** Clean all exterior surface to remove any:

**1.1.1.1** Contamination

**1.1.1.2** Corrosion.

**1.1.2** Record results on an approved PEARL Reconditioning Test Form

##### **1.2 Missing or Defective Components, Parts and Hardware**

**1.2.1** Replace or repair any missing or defective components, parts and hardware found during the inspection phase of this standard.

**1.2.2** Record results on an approved PEARL Reconditioning Test 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 Reconditioning Test Form.

**2.1.3** Compare test results to manufacturer's recommendations or a minimum of 25 megohms.

**2.1.4** The test results must be within the guidelines recommended in order for the product to become a PEARL labeled product.

### **IV PEARL CERTIFICATION**

This product has now been reconditioned under the PEARL Reconditioning Standard. The blue PEARL Reconditioning Quality Seal may now be placed on the device.