

## **CC-5: Pre-Molded, Rubber Separable Load-Break Connectors and Accessories**

### **1.0 Purpose**

This procedure gives the general operating and inspection instructions for primary 200 A pre-molded, rubber-separable load-break connectors and accessories.

#### **1.1 Application of Pre-Molded, Rubber Separable Load-Break Connectors**

These connectors terminate 12 kV and 16 kV primary cables on equipment. For approved applications, refer to the Distribution Design Standards (DDS) manual.

#### **1.2 Ratings of 15 kV- and 25 kV-Rated Load-Break Connectors**

Load-break connectors (elbows and bushing inserts), 15 kV and 25 kV, are for application on the 12 kV and 16 kV distribution systems, respectively, and are rated as follows:<sup>1/</sup>

Continuous Current	200 A
Load-Break Current	200 A
Momentary Current	10000 A for 0.17 seconds (10 cycles)

### **2.0 Policy Statements**

#### **2.1 Determining Whether Load-Break Elbows Can Be Operated While Energized**

To determine if an LBE can be operated while energized, the decision diagrams for operating energized LBEs must be used (see [Attachment 5-2](#)). Energized LBEs are only operated in approved applications on surface-operable equipment with the appropriate clearances for hot stick operation.

#### **2.2 Subsurface Enclosures and BURDs**

Do not operate LBEs while energized in subsurface enclosures that cannot be operated from the surface. Do not operate LBEs while energized on BURDs.

#### **2.3 Use of Live-Line Tools**

All load-break components are to be operated with approved live-line tools.

#### **2.4 Operating LBEs Using Pulling-Eye Portion of Device**

Load-break elbows, energized as well as de-energized, shall only be operated using the pulling-eye portion of the device. Damage and misalignment will occur to the threaded portion of the compression lug by pulling or pushing on the body of the connector. When changing from dead-break to LBEs, time should be allotted to change all aluminum compression lugs to bimetallic.

#### **2.5 Ferroresonance**

Single-pole switching of load-break connectors on a three-phase, three-wire system shall not be performed if ferroresonance is a factor. The conditions for ferroresonance during switching can be avoided in residential radials by following the energizing and de-energizing guidelines in [Paragraph 4.3 B](#).

<sup>1/</sup> 15 kV-rated load-break connectors are not to be used on 9.4 kV or 16 kV distribution systems.

EFFECTIVE DATE 4-29-2016	<b>Pre-Molded, Rubber Separable Load-Break Connectors and Accessories</b>	<b>CC-5</b>
APPROVED <i>B.E.</i>	<b>Distribution Operations and Maintenance Policies and Procedures</b> ► SCE Internal ◀	PAGE 5-3