



## 1 SCOPE

This document details the application of SOP 149 issued by the Electricity Association.

## 2 ISSUE RECORD

**This is a controlled maintained document**

**All copies printed via the Intranet or photocopied will be deemed uncontrolled.**

| Issue Date   | Issue No | Author         | Amendment Details                               |
|--------------|----------|----------------|---|
| October 2000 | 1        | Esther Stewart | Initial Issue in New Format:<br>3 Page Document |

## 3 ISSUE AUTHORITY

| Author         | Owner        | Issue Authority                                |
|----------------|--------------|--|
| Esther Stewart | Roger Bracey | Roger Bracey<br>Group Head, Standards<br>..... |



#### 4 SOP DETAILS

**TYPE:** Bill Street Lighting Combination Unit  
type H26

**ORIGINATING REC:** Eastern Electricity

**DATE:** 30/6/95

**NO. INSTALLED IN MANWEB:** Unknown

**NO. INSTALLED IN SCOTLAND:**

**STATUS:** No Restriction in Manweb

There are no changes in operational practice required within Manweb. The requirements of Manweb document 'SAFE WORKING ON LOW VOLTAGE SERVICE CUT-OUTS' (No. 73/1510/03) provide a safe working system for work on these units.

The restriction imposed by Eastern Electricity is as follows:

- i) Before removal of the fuse carrier, the cut out shall be inspected carefully. If there is any obvious indication of contamination or distress the fuse shall not be withdrawn with the incoming supply known to be live.
- ii) Before insertion the fuse carrier and fixed portion of the cut-out shall be inspected. If both are clear of debris or contamination and the red plastic insulating shroud is in position the fuse carrier may be inserted.
- iii) If the red plastic shroud is missing a replacement shall be placed in position. The operator shall wear appropriately approved electrical rubber gloves (to BS 697:1977 or BSEN 60903:1993) to undertake the operation. The fuse carrier may then be inserted.
- iv) If the shroud is missing and no replacement is available the fuse carrier may only be inserted if all three of the following conditions are satisfied:



- a) Both the fuse and the fixed portion cut-out are free of debris or contamination.
- b) The fuse and fixed portion of the cut-out show no sign of distress or tracking.
- c) The operator is wearing approved electrical rubber gloves (to BS 697:1977 or BS EN 60903:1993), flame retardant overalls with full length sleeves (to BS6249 or BS EN 531:1995) and goggles (to BS2092:1987) to protect the eyes. A face shield (to BS 2092:1987) worn in addition to goggles may provide additional face protection but as face shield are not close fitting this would not provide adequate protection to the eyes by itself.
- v) If the cut-out exhibits signs of distress or failure at any time the operator shall report this immediately to Eastern Electricity - Emergency Services for priority attention. No further attempt to operate the cut-out shall be made and where possible without risking exposure to danger the street furniture cover shall be replaced. Where this is not possible the operator shall remain on site to prevent public access until Eastern Electricity - Emergency Services staff arrive.

**REASON:**

Eastern Electricity have reported a number of flashovers involving these units which have resulted in operator injury. Their investigation has revealed three common factors of the failures:

- i) The red plastic insulating shroud covering the incoming phase terminal was missing.
- ii) There was contamination present and in at least two incidents there was clear evidence that debris had collected in the cut out.
- iii) In each of the three incidents investigated in detail burning was evident on the bottom screw securing the fuse carrier. There was no burning on the tongue that is inserted into the fixed portion.

**UPDATE:**

**REMEDIAL ACTION:**