



1 SCOPE

This document details the application of SOP 246 issued by the Electricity Association.

2 ISSUE RECORD

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Issue Date	Issue No	Author	Amendment Details
October 2000	1	Esther Stewart	Initial Issue in New Format: 3 Page Document

3 ISSUE AUTHORITY

Author	Owner	Issue Authority
Esther Stewart	Roger Bracey	Roger Bracey Group Head, Standards



4 SOP DETAILS

TYPE: Lucy Type FRMU, FRMU Mk 1, FRMUE
Ring main units and EFS fuse switches.

ORIGINATING REC: DEO

DATE: 09/12/99

NO. INSTALLED IN MANWEB: 556 Type FRMU & 516 FRMU Mk 1
NO. INSTALLED IN SCOTLAND:

STATUS: Restriction:

The following operational restriction shall apply to all Lucy Type FRMU, FRMU Mk.1 FRMUE Ring Main Units and EFS fuse Switches until the appropriate remedial action has been carried out.

- 1 The fuse switch on the above type of switchgear shall not be operated whilst any part of the equipment is live. Before any switching operation is carried out on the fuse switch the complete switchgear unit shall be made not live from a remote source.*
- 2 On completion of any switching operation of the fuse switch, the switch position indicator shall be checked to confirm that it indicates the correct position as expected. Provided that nothing indicates otherwise the switchgear unit shall be re-energised remotely.*
- 3 After switching has been completed the position of the fuse switch shall be verified by confirming the state of circuit fed from the fuse switch.*
- 4 This Operational Restriction does NOT affect the Ring Switches on the Ring Main Units.*

REASON: Failure of equipment to indicate correct position:

A weld on the fuse switch stop lever mechanism of a Lucy Type EFS Extensible Fuse Switch was found to have failed in service by the DEO. This resulted in over travel of the fuse switch blades in the EARTH and ON positions. On the unit affected the position indicator rotates via a shaft connected to a plate by means of four "tack type welds", three of which failed. This allowed the shaft to spin on the plate without transmitting motion resulting in the contacts moving but the indicator remaining in the same position.



UPDATE:

30/08/00

Units manufactured prior to 1983 had their stop levers made as a cast iron part. Any unit manufactured up to the end of 1982 is NOT AFFECTED by this SOP.

REMEDIAL ACTION:

Investigations in conjunction with Lucy are being carried out to determine a method of inspection or testing of the suspect welds, Plant Service Bulletin to follow.

Until an acceptable test or modification is approved the above Operational Restriction shall remain in force.