



## 1 SCOPE

This document details the application of SOP 213 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: 2 Page Document

## 3 ISSUE AUTHORITY

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



#### 4 SOP DETAILS

**TYPE:** Long & Crawford T3GF3/T4GF3

**ORIGINATING REC:** Northern Electric

**DATE:** 07/09/98

**NO. INSTALLED IN MANWEB:** 195

**NO. INSTALLED IN SCOTLAND:**

**STATUS:** No Restriction to be applied in Manweb.

Following an investigation into a disruptive failure, Northern Electric have summarised the following findings, in view of which no change in the current operating practice in Manweb is proposed at the present time.

- (1) There has been nothing found to suggest any malfunction of the RMU.
- (2) There is nothing to indicate any previous ingress of water or contamination of the oil.
- (3) The likelihood is that some specific foreign body was disturbed during the operations carried out, or perhaps by the insertion of the test prods. Possibilities for this are the inadvertent introduction via the test prods themselves or something previously existing in the guide tubes being pushed down when the rods were inserted.
- (4) Following energisation, the affected area withstood system voltage for approximately 1.5 seconds before any flashover took place. This is consistent with some extraneous, possibly fibrous material floating in the oil and then lining up with the stress field, this then leading to flashover.

**REASON:**

Disruptive failure of a Long & Crawford type T3GF3 11kV RMU (Refer to DIN 98/64)

**UPDATE:**

**REMEDIAL ACTION:**