



## 1 SCOPE

This document details the application of SOP 238 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: 2 Page Document

## 3 ISSUE AUTHORITY

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



#### 4 SOP DETAILS

**TYPE:** Alstom Type "SATURN RT" 11kV RMU

**ORIGINATING REC:** SCOTTISHPOWER

**DATE:** 21/07/99

**NO. INSTALLED IN MANWEB:** 0

**NO. INSTALLED IN SCOTLAND:**

**STATUS:** Restriction.

The following operational restriction to be imposed from the above date:

The transformer tee-off switch shall NOT be used as a PRIMARY EARTH. Where a primary earth is required on the tee-off circuit, the ring circuit earth switches of the adjacent sub-stations shall be used.

**REASON:**

The transformer tee-off earth switch may not provide an adequate low resistance earth path.

NEDER EA/471 dated 08/07/99 also refers. The chamfer on the earth contact support bar on the transformer tee-off earth switch on the above units is inadequate and causes the female contact gap to be opened out after a number of operations. This may result in reduced pressure on the male contact which in turn may result in open circuit on one or more phases with the transformer tee-off circuit breaker in the earth position. An earth therefore cannot be guaranteed. The component was not used in the ring circuit earth switches which are therefore not affected.

**UPDATE:**

**REMEDIAL ACTION:**

All chamfered earth contact support bars are to be replaced by a support bar with a fully radiused edge. The manufacturer may be able to carry out this modification on site. Discussions are ongoing as to whether or not this is practical. Any affected units not modified on site are to be returned to Alstom Ltd for modification. Once the modification is complete the restriction may be lifted.