



**1. SCOPE**

This document details the application of SOP 301 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.**

<b>Issue Date</b>	<b>Issue No</b>	<b>Author</b>	<b>Amendment Details</b>
July 2003	1	G N Wood	Original issue

**3. ISSUE AUTHORITY**

<b>Author</b>	<b>Owner</b>	<b>Issue Authority</b>
G N Wood Senior Project Engineer	Alastair Ferguson Section Head Engineering Support	Alastair Ferguson Section Head Engineering Support .....

#### **4. SOP DETAILS**

**TYPE :** ABB Sentinel 2 RMU Serial number range 241-534

**ORIGINATING DNO :** SP PowerSystems

**DATE :** 25<sup>th</sup> July 2003

**NO. INSTALLED IN POWER SYSTEMS NORTH:** 0

**NO. INSTALLED IN POWER SYSTEMS SOUTH:** 84

**STATUS :** Equipment within the serial number range which has not been modified by ABB shall not have their CB closed if found to be tripped without obvious cause. The circuit breaker may only be closed after a satisfactory insulation resistance test of the circuit breaker tee-off bushings. The test instrument should use a test voltage of 5kV. The bushings must have a minimum insulation resistance from each phase conductor to earth of 5 Gohm. It is further recommended that the breaker is re-energised remotely if possible.

The number of units affected will reduce as the modification programme proceeds. The Maintenance business is maintaining records of modified units to enable ICOND to be updated.

**REASON:** The Tee-off, circuit breaker, bushings of the Sentinel RMU within the stated serial number range have a reduced radial insulation thickness from earlier or later versions. Some units within this range have failed due to displaced bushing stress control foil.

**UPDATE:**

**REMEDIAL ACTION:** Units within the serial number range 342-497 are subject to a replacement programme. The SOP affected range has been extended to 241-534 due to failures outside range 342-

497. Consideration is being given to extending the replacement programme to the full range.