

**1. SCOPE**

This document details the application of SOP 2003/0301/00 (Applicable to ABB Sentinel 2 11kV Ring Main Units operating within serial range 241 and 534) issued by the Energy Networks Association.

**2. ISSUE RECORD**

This is a Reference document. The current version is held on the EN Document Library.

**It is your responsibility to ensure you work to the current version.**

<b>Issue Date</b>	<b>Issue No.</b>	<b>Author</b>	<b>Amendment Details</b>
July 2003	1	G N Wood	Original issue
October 2023	2	Benjamin Hughes	Update to new format. SOP to prohibit live operation of the CB

**3. ISSUE AUTHORITY**

<b>Author</b>	<b>Owner</b>	<b>Issue Authority</b>
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**4. REVIEW**

This is a Reference document which has a 5 year retention period after which a reminder will be issued to review and extend retention or archive.

**5. DISTRIBUTION**

This document is not part of a Manual maintained by Document Control and does not have a maintained distribution list. It is published on the SP Energy Networks website.

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**7. SOP DETAILS**

<b>EQUIPMENT TYPE</b>	ABB Sentinel 2 11kV Ring Main Units
<b>ORIGINATING COMPANY</b>	SP Power Systems Ltd
<b>DATE</b>	25/06/2003
<b>NUMBER INSTALLED IN ENERGY NETWORKS NORTH</b>	0
<b>NUMBER INSTALLED IN ENERGY NETWORKS SOUTH</b>	17
<b>REASON</b>	In service failure of tee off bushing.
<b>STATUS IN INITIATING COMPANY</b>	Equipment within the serial number range shall not have their CB closed if found to be tripped without obvious cause. The circuit breaker may only be closed after a satisfactory "megger" test of circuit breaker tee-off bushings. It is further recommended that the breaker is re-energised remotely if possible.
<b>SPEN APPLICATION</b>	Live operation of the CB is prohibited. Remote energisation of the RMU is mandatory after every CB operation.
<b>ADDITIONAL INFORMATION</b>	
<b>UPDATE</b>	ABB have extended the range of affected units from 342-497 to 241-534 following reports of failures outside the original range.
<b>REMEDIAL ACTION</b>	SOP is permanent.

**8. SOP HEADER**

Field Name	Field Value	Field Size
<b>Name (SOPXXX)</b> *	<b>SOP301</b>	6
<b>The reason for the Operational Restriction</b> *	11kV CB bushing fault	30
<b>Nature of the Operational Restriction</b> *	Insulation resistance failure	50
<b>Comments</b> *	Live operation of the CB is prohibited. Remote energisation of the RMU is mandatory after every CB operation.	200
<b>Restricted Access to Substation Flag</b> *	<u>N</u>	1
<b>SOP Impact Code</b> * <i>(highlight or underline the appropriate code)</i>	0 Temporary/Impact under assessment 1 Very minor operational/network impact <u>2 Moderate operational/network impact</u> 3 Significant impact on system perf./measurable business costs 4 Inoperable without intervention 5 Inoperable – no cost effective solution/must be replaced	N/A
<b>SOP component type</b> * <i>(highlight or underline the appropriate code)</i>	01 Bushing only 02 Circuit Breaker 03 Fixed Portion only 04 Moving Portion only 05 Switch <u>06 RMU</u> 07 Transformer only 08 Tap Changer only 09 Transformer & Bushing 10 Transformer & Tap Changer	N/A
<b>Search Criteria</b> *	Manufacturer *ABB* Text Model *Sentinel 2* Serial Numbers Range (241-534). In addition, SOP to be applied on any units where serial number information is missing or not in recognisable format.  Note: SOP applied to CB only.	N/A

\* This denotes a Mandatory Field