

1. SCOPE

This document details the application of SOP 433 (Applicable to ABSDs with porcelain insulators) 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.

Issue Date	Issue No.	Author	Amendment Details
21 st April 2023	1	Jamie McDonald	Initial issue

3. ISSUE AUTHORITY

Author	Owner	Issue Authority
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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

EQUIPMENT TYPE	Overhead line pole mounted ABSDs up to 33kV (all manufacturer types) with porcelain insulators, and low-level handles or HV earth at the base of the pole.
ORIGINATING COMPANY	SP Energy Networks
DATE	21st April 2023
NUMBER INSTALLED IN ENERGY NETWORKS NORTH	Uncertain
NUMBER INSTALLED IN ENERGY NETWORKS SOUTH	Uncertain
REASON	SOP 432 issued by ENA relating to failure of porcelain insulator on Morris Line RXL ABSD. SPEN have reviewed SOP 432 and other related SOPs and decided to issue new SOP to cover all overhead line pole mounted ABSDs with porcelain insulators.
STATUS IN INITIATING COMPANY	No live operation of overhead line pole mounted ABSDs with: <ul style="list-style-type: none">• Porcelain insulators and low-level handle• Porcelain insulators and HV earth to base of pole SOP will not be applied to Gevea or Allied Insulator ABSDs, or Morris Line ABSDs commissioned in 2019 or later, as these have polymeric insulators.
SPEN APPLICATION	As above
ADDITIONAL INFORMATION	Use of affected ABSDs as a point of isolation is permitted, following a visual examination to ensure an adequate isolation distance is achieved.
UPDATE	N/A
REMEDIAL ACTION	SOP 433 can be removed following visual inspection by authorised person on site, confirming ABSD does not have: <ul style="list-style-type: none">• Porcelain insulators and low-level handle• Porcelain insulators with HV earth to base of pole 11kV ABSDs with low level handle, or on a pole with an HV earth running to the base of the pole shall be prioritised for replacement / relocation. Any ABSD with visibly damaged porcelain insulators shall be replaced at the earliest opportunity.

8. SOP HEADER

Field Name	Field Value	Field Size
Name (SOPXXX) *	SOP433	6
The reason for the Operational Restriction *	Failure of porcelain insulator	30
Nature of the Operational Restriction *	No Live operation	50
Comments *	This SOP is applicable to overhead line, pole mounted ABSDs up to 33kV, which have: 1. Porcelain insulators and low-level handle 2. Porcelain insulators and HV earth to base of pole	200
Restricted Access to Substation Flag *	N	1
SOP Impact Code * <i>(highlight or underline the appropriate code)</i>	0 Temporary/Impact under assessment 1 Very minor operational/network impact 2 Moderate operational/network impact 3 Significant impact on system perf./measurable business costs <u>4 Inoperable without intervention</u> 5 Inoperable – no cost effective solution/must be replaced	N/A
SOP component type * <i>(highlight or underline the appropriate code)</i>	01 Bushing only 02 Circuit Breaker 03 Fixed Portion only 04 Moving Portion only <u>05 Switch</u> 06 RMU 07 Transformer only 08 Tap Changer only 09 Transformer & Bushing 10 Transformer & Tap Changer	N/A
Search Criteria *	SE_ABSD NOT Gevea NOT Allied NOT Morris Line commissioned in 2019 or later	N/A

* This denotes a Mandatory Field