

1. SCOPE

This document details the application of SOP 384 (Applicable to Air Break Switch Disconnectors with LEL interrupter heads at all voltages) 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 |
|--------------|-----------|----------------|--|
| January 2013 | 1 | Alan MacGregor | Initial issue |
| August 2020 | 2 | Jamie McDonald | Moved to updated template and general review |

3. ISSUE AUTHORITY

| Author | Owner | Issue Authority |
|--|---|---|
| Jamie McDonald Lead Engineer, Standards | Fraser Shaw Substations Manager Engineering Design and Standards | Fraser Ainslie Head of Engineering Design and Standards |

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

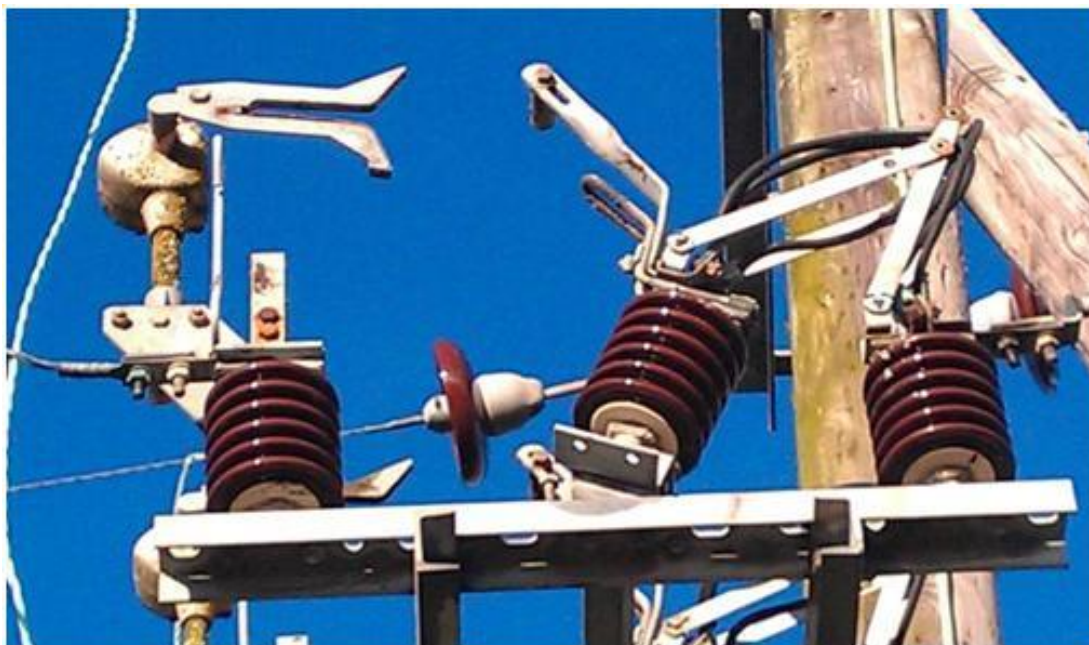
This document is not part of a Manual maintained by Document Control and does not have a maintained distribution list.

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7. SOP DETAILS

| | |
|--|--|
| EQUIPMENT TYPE | All ABSDs with LEL interrupter heads at all voltages (see 11kV example below). |
| ORIGINATING COMPANY | SPEN |
| DATE | 29 th January 2013 |
| NUMBER INSTALLED IN ENERGY NETWORKS NORTH | Uncertain |
| NUMBER INSTALLED IN ENERGY NETWORKS SOUTH | Uncertain |
| REASON | Isolation gap compromised on a 33kV ABSD with an LEL interrupter head causing damage to a Test Van. |
| STATUS IN INITIATING COMPANY | No ABSD, at any system voltage, with an LEL interrupter head shall be used as a Point of Isolation. |
| SPEN APPLICATION | As above. |
| ADDITIONAL INFORMATION | None |
| UPDATE | Change in maintenance policy for OHL ABSD has moved to a 3-year operational check cycle established in 2020, this 3-year cycle should ensure all LEL interrupter heads are identified and removed from the OHL network. However, LEL Interrupter heads are also installed in S/S. |
| REMEDIAL ACTION | Remove the interrupter heads (and update ABSD category) or replace the entire ABSD unit. |



8. SOP HEADER

| Field Name | Field Value | Field Size |
|---|---|------------|
| Name (SOP 384) * | SOP384 All ABSDs with LEL interrupter heads | 61 |
| The reason for the Operational Restriction * | Isolation gap compromised | 30 |
| Nature of the Operational Restriction * | Do not use as Point of Isolation | 50 |
| Comments * | Faulty interrupter heads can compromise the isolation gap on any ABSD due to the inherent geometry of the design. The age and condition of these heads contributes to the risk. | 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 4 Inoperable without intervention 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 05 Switch 06 RMU 07 Transformer only 08 Tap Changer only 09 Transformer & Bushing 10 Transformer & Tap Changer | N/A |
| Search Criteria * | No search available for LEL interrupter heads | N/A |

* This denotes a Mandatory Field