

## 1. SCOPE

This document details the application of SOP 363 (Applicable to South Wales Switchgear type IF4X oil switches) 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
May 2010	1	Alan MacGregor	Initial issue
October 2010	2	Alan MacGregor	Remedial action update
July 2021	3	Ryan Miller	Update to Remedial Action and network volumes

## 3. ISSUE AUTHORITY

Author	Owner	Issue Authority
Ryan Miller Project Engineer	Fraser Shaw Substations Manager	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**

<b>EQUIPMENT TYPE</b>	South Wales Switchgear type IF4X oil switch
<b>ORIGINATING COMPANY</b>	CE Electric
<b>DATE</b>	16/06/2009
<b>NUMBER INSTALLED IN ENERGY NETWORKS NORTH</b>	97
<b>NUMBER INSTALLED IN ENERGY NETWORKS SOUTH</b>	0
<b>REASON</b>	<p>Whilst carrying out routine maintenance, a fitter discovered that the oil switch contained approximately two inches of oil in the bottom of the tank. Further investigation showed that the oil had seeped past the Nebar gasket and O-ring where the drive shaft passes through the tank. The O-ring had probably perished due to its age and immersion in oil.</p> <p>A disruptive failure also occurred in SPEN due to low oil level.</p>
<b>STATUS IN INITIATING COMPANY</b>	No live switching on this type of unit until it has been proved that the unit contains the recommended amount of oil.
<b>SPEN APPLICATION</b>	No live switching on this type of unit if it has been 2 years or longer since its last major service or if there is any evidence of oil leaks upon inspection.
<b>ADDITIONAL INFORMATION</b>	N/A
<b>UPDATE</b>	N/A
<b>REMEDIAL ACTION</b>	Upon evidence of oil leaks, Asset Management shall be informed and unit shall be scheduled for urgent replacement.

**8. SOP HEADER**

Field Name	Field Value	Field Size
<b>Name (SOPXXX)</b> *	<b>SOP363</b>	61
<b>The reason for the Operational Restriction</b> *	Loss of oil–disruptive failure	30
<b>Nature of the Operational Restriction</b> *	No Live ops if evid of oil leak or >2y since maint	50
<b>Comments</b> *	No live switching- if it has been 2 years or longer since its last maintenance or if there is any evidence of oil leaks upon inspection	200
<b>Restricted Access to Substation Flag</b> *	N	1
<b>SOP Impact Code</b> * (highlight or underline the appropriate code)	0 Temporary/Impact under assessment 1 Very minor operational/network impact 2 Moderate operational/network impact <u>3 Significant impact on system perf./measurable business costs</u> 4 Inoperable without intervention 5 Inoperable – no cost effective solution/must be replaced	N/A
<b>SOP component type</b> * (highlight or underline the appropriate code)	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
<b>Search Criteria</b> *	South Wales Switchgear – IF4X	N/A

\* This denotes a Mandatory Field