

**1. SCOPE**

This document details the application of SOP 388 (Applicable to Reyrolle Oil-filled CT Hairpin type) issued by the Energy Networks Association.

This SOP is not applied within SPEN and this document has been created for reference.

**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 2017	1	Alan MacGregor	Initial issue

**3. ISSUE AUTHORITY**

Author	Owner	Issue Authority
Alan MacGregor Lead Engineer, Substations Group	Alastair Ferguson Substations Manager	Martin Hill Head of Engineering Design and Standards  ..... Date: .....

**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>	Reyrolle Hairpin CT
<b>ORIGINATING COMPANY</b>	National Grid
<b>DATE</b>	26 March 2014
<b>NUMBER INSTALLED IN ENERGY NETWORKS NORTH</b>	160
<b>NUMBER INSTALLED IN ENERGY NETWORKS SOUTH</b>	0
<b>REASON</b>	The investigation into the failure of a NG Reyrolle 275kV CT at Drakelow on 4th January 2013 and the subsequent failure of a WPD 132kV CT of similar design has led to a review of the validity of the current asset condition assessment policy based on a 12 year escalating oil sampling programme. Following this review, a 3 year "summer only" sampling policy has now been applied by NG for indoor assets of this type and a yearly "summer only" sampling policy to NG outdoor assets of this type.
<b>STATUS IN INITIATING COMPANY</b>	35m Risk Management Hazard Zones for CTs that do not have acceptable oil sample results in accordance with the requirement as given in NG OESB 03/2013. An ENA version of this document is available from the designated contact for this SOP or the ENA NEDeRS Administrator. This SOP is deemed to be for the remainder of the asset life.
<b>SPEN APPLICATION</b>	SOP not applied within SPEN. Samples have been taken from all oil-filled SPEN hairpin CTs in last three years and no signs of poor DGA or water content have been identified. Monitoring will continue.
<b>ADDITIONAL INFORMATION</b>	
<b>UPDATE</b>	
<b>REMEDIAL ACTION</b>	None

**8. SOP HEADER**

Field Name	Field Value		Field Size
<b>Name (SOP )</b>			61
<b>The reason for the Operational Restriction</b> *			30
<b>Nature of the Operational Restriction</b> *			50
<b>Comments</b> *			200
<b>Restricted Access to Substation Flag</b> *	Y		1
<b>Search Criteria</b> *			N/A