

OPSAF-16-377 Issue No. 1 January 2012

1. SCOPE

This document details the application of SOP 2011/0377/00 (Applicable to GEC Alsthom T&D Type FMVG CT/VTs at system voltage 33kV & 132kV) issued by the Energy Networks Association.

2. ISSUE RECORD

This is a Controlled document. The current version of Controlled document is held on the Energy Networks Intranet.

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

Issue Date	Issue No.	Author	Amendment Details
January 2012	1	Mark Stewart	Initial issue

3. ISSUE AUTHORITY

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Technical Risk		
		alf
		Date:23 rd Jan 2012

4. REVIEW

This is a Controlled document and shall be reviewed as dictated by business / legislative change but at a period of no greater than five years from the last issue date.



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5. DISTRIBUTION

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

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7. SOP DETAILS

EQUIPMENT TYPE: GEC Alsthom T&D - FMVG - CT/VT's (33kV & 132kV)

ORIGINATING COMPANY National Grid

DATE: 6th December 2011

NUMBER INSTALLED SPEN NORTH: 6 (2 x 3-phase sets all 132kV)

NUMBER INSTALLED SPEN SOUTH: 33 (11 x 3-phase sets all 132kV)

AFFECTED RANGE: All 33kV FMVG CT/VTs

NUMBER AFFECTED SPEN NORTH: 0

NUMBER AFFECTED SPEN SOUTH: 0

REASON: Disruptive failures of FMJL CT's & FMVG CT/VT's

1(i) 275kV FMJL CT at Cardiff East substation on

3/6/2009 (DIN2009/0046/00 refers)

1(ii) 400kV FMJL CT at Deeside substation on 29/6/2009

(DIN2009/0062/001 refers)

1(iii) 132kV FMJL CT at Indian Queens substation on

25/5/2010 (DIN 2010/0036/00 refers)

1(iv) 400kV FMJL CT at Connahs Quay substation (E.ON

Site) on 18/7/2010 (DIN 2011/0041/00 refers)

1(v) 33kV FMVG CT/VT at Upper Boat substation on

2/6/2009

STATUS IN ORIGINATING ORGANISATION:

2(i) A 20m exclusion zone has been applied around all

33kV FMVG CT/VTs.

2(ii) For FMVG 132kV units oil sampling in conjunction with trip connected gas detection device, and maintained according to policy is considered to provide an effective management tool, catering for all failure modes. On this basis only items that are outside of existing maintenance

and oil sampling policy will have RMHZ applied.

2(iii) Entry into any exclusion zone is restricted to essential

work only.



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2(iv) Evidence from Connahs Quay incident not only showed the failure characteristic differs from previous incidents but also that oil sampling conducted 12 months prior to the incident showed no indication of an impending failure. Oil sampling can no longer be considered an effective management tool for all failure modes therefore it is now necessary to apply Risk Management Hazard Zones to all 33kV FMVG CT/VTs.

SPEN APPLICATION:

FMVG 132kV CT/VT which are maintained in line with policy and are protected by a gas detection relay (i.e. All currently installed SP units) are not affected by this SOP.

ADDITIONAL INFORMATION:

UPDATE:

REMEDIAL ACTION