

1. SCOPE

This document details the application of SOP 2011/0372/00 (Applicable to Merlin Gerin – Genie EVO Circuit Breakers at system voltages of 11kV) 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
October 2011	1	Mark Stewart	Initial issue

3. ISSUE AUTHORITY

Author	Owner	Issue Authority
Name: Mark Stewart Title: Lead Engineer Technical Risk	Name: Alastair Ferguson Title: Technical Risk Manager	Name: Jeff Hunt Title: Head of Asset Management. Date:

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.

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:	Merlin Gerin – Genie EVO 11kV Vacuum Circuit Breakers
ORIGINATING COMPANY	ScottishPower – EnergyNetworks (UK Power Networks -NEDeR 2011/0688/00)
DATE:	5 th October 2011
NUMBER INSTALLED IN ENERGY NETWORKS NORTH:	5 in date range 1 January 2003 to 31 March 2006 (Total of 21 in service)
NUMBER INSTALLED IN ENERGY NETWORKS SOUTH:	0 in date range 1 January 2003 to 31 March 2006 (Total of 59 in service)
REASON:	<p>Broken Drive shaft on 3 position disconnecter.</p> <p>SPEN has been notified by the manufacturer of a potential defect on the 3 position disconnecter where the drive shaft from the mechanism to the main contacts has sheared during service. Consequently the mechanism and its position indicator may not correctly represent the actual position of the main contacts.</p> <p>The associated Evolis Vacuum circuit breaker is not affected and may be operated as normal.</p>
STATUS IN INITIATING COMPANY:	No operation of disconnecter.
SPEN APPLICATION:	This SOP is applied in SPEN with no operation of the disconnecter.
ADDITIONAL INFORMATION:	<p>Schneider Electric UK has become aware of a potential operational issue with the Genie Evo Switchgear manufactured between 1st January 2003 to 31st March 2006.</p> <p>The Genie Evo circuit breaker incorporates a 3 position disconnecter connected in series with the Evolis vacuum circuit breaker. There are three disconnecter current ratings: 200A, 630A and 1250A. Schneider has become aware of a potential issue on a number of 1250A disconnectors where the drive shaft from the disconnecter mechanism to the main contacts has broken during service in Export Countries. Consequently, the mechanism and its position indicator may not correctly represent the actual position of the main contacts. Investigations to date have shown that the 1250A disconnectors are at greatest</p>

risk. There have been no failures reported on the 200A and 630A version and the findings to date suggest that these units should not be affected. However, investigations continue on the 200A and 630A version and a further update will be provided once the information is available. If the disconnecter shaft breaks when the disconnecter is operated to the Main On position then the contacts may not be fully engaged. Arcing may take place when load current is being passed or in exceptional cases when fault current passes through the circuit breaker. If arcing does take place depending on the value of the load current and the length of time in this condition, it could lead to an internal electrical fault. The Evolis vacuum circuit breaker is not affected by this notification and may be operated as normal.

UPDATE:

None

REMEDIAL ACTION:

Replacement of the disconnecter to be carried out, by the manufacturer, on 5 affected circuit breakers at Pollock Shopping Centre s/s in Glasgow Zone.