

1. SCOPE

This document details the application of SOP 398 (Applicable to GEC VMX-C circuit breakers) issued by the Energy Networks Association.

This SOP is not applied in SPEN due to the nature of the defect being specific to a small number of units on one site of the Originating Company.

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

EQUIPMENT TYPE	GEC VMX-C circuit breakers
ORIGINATING COMPANY	Veolia Energy UK plc
DATE	15 April 2015
NUMBER INSTALLED IN ENERGY NETWORKS NORTH	10
NUMBER INSTALLED IN ENERGY NETWORKS SOUTH	19
REASON	<p>On automatic operation from Open to Closed of the VMX circuit breaker, connecting GT2 CHP Generator to the 11kV switchboard at DW Sub, the breaker continued to be shown as Open on the Generator Control Panel. A linkage controlling the auxiliary switch had come off its mounting during operation. This resulted in the incorrect indication at the Control Panel and at the manual remote pendant (the mechanical flag on the CB did show the correct Closed status). In this state no electrical trips would operate the Circuit Breaker as these pass through the auxiliary switch. Due to the Circuit Breaker indicating it was Open the NER breaker remained closed resulting in the NER overheating. The Circuit Breaker was eventually tripped mechanically. UPDATE 10th March 2015. Email received from Schneider engineer 09/03/15 advising the issue to be unique to the 12 Circuit Breakers installed in this substation. Update 14/04/2015 All remedial work on the effected circuit breakers has now been completed and this SOP has been lifted. Please note that this SOP affected ONLY the 12 Circuit Breakers at this substation that had a non-standard auxiliary switch fitted. As stated in the attached manufacturers report, NO OTHER CIRCUIT BREAKERS IN THE GEC VMX C FLEET ARE EFFECTED.</p>
STATUS IN INITIATING COMPANY	<p>ALL REMEDIAL WORKS HAVE NOW BEEN COMPLETED AND THIS SOP HAS NOW BEEN LIFTED. With immediate effect the following operational restrictions shall apply to the 12 affected Circuit Breakers at this substation only. (NO OTHER CICUIT BREAKERS IN THE GEC VMX C FLEET ARE EFFECTED) 1. The remaining operational GT1 Circuit Breaker shall not be Re-closed after a Trip/Open operation. Any automatic control operation is also included in this restriction. 2. All other VMX Circuit Breakers shall be tripped on the event of a fault by their respective Fault Protection Relays only and are Not to be Re-Closed until this SOP is removed or revised on receipt of advice from manufacturer.</p>
SPEN APPLICATION	<p>Not applied due to the nature of the issue being confined to the 12 breakers in the Originating Company being the only units with non-standard auxiliary switches.</p>
ADDITIONAL INFORMATION	
UPDATE	
REMEDIAL ACTION	None

8. SOP HEADER

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