

1. SCOPE

This document details the application of SOP 278 (Applicable to GEC Alstom OX36 Circuit Breakers) 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
August 2002	1	David Naylor	Initial issue
May 2012	2	Mark Stewart	This document now supersedes OPSAF-14-072. SOP278 can now be removed after drive linkages have been inspected and are correctly connected.
August 2024	3	Stephen Batten	Re-format of document

3. ISSUE AUTHORITY

Author	Owner	Issue Authority
Name: Stephen Batten Title: Lead Engineer Engineering Design & Standards	Name: Jon Ruiz De Aguirre Title: Substations Manager	Name: Fraser Ainslie Title: 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. It is published on the SP Energy Networks website.

6. CONTENTS

1. SCOPE.....	1
2. ISSUE RECORD.....	1
3. ISSUE AUTHORITY	1
4. REVIEW	1
5. DISTRIBUTION.....	1
6. CONTENTS	2
7. SOP DETAILS	2
8. SOP HEADER	4

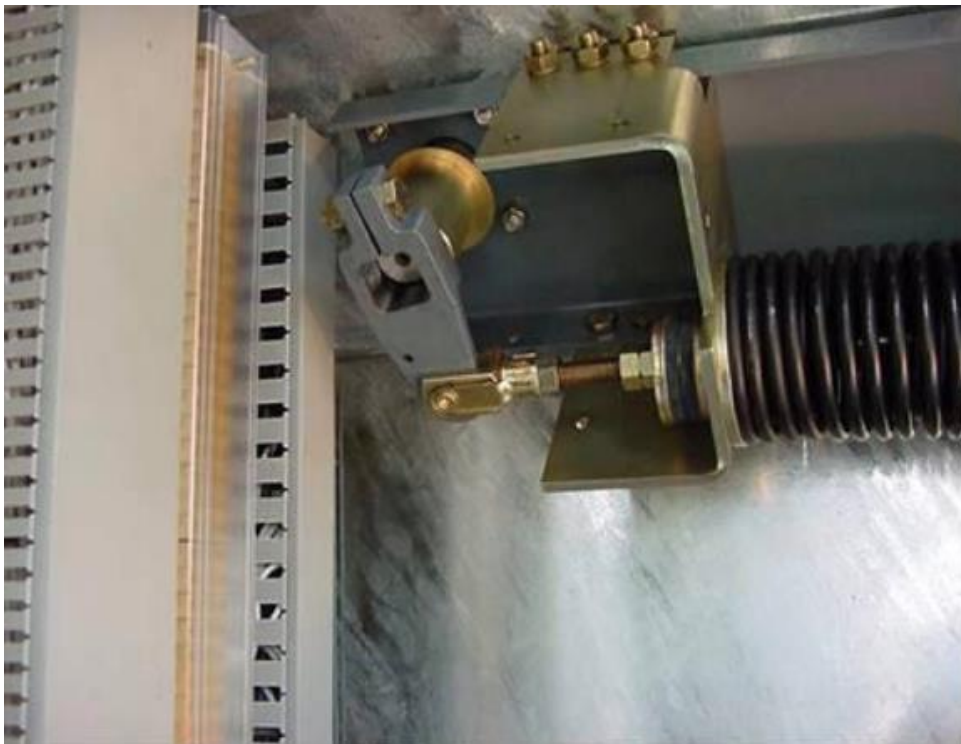
7. SOP DETAILS

EQUIPMENT TYPE:	GEC Alstom – OX36 – Circuit Breaker
ORIGINATING COMPANY:	24seven Utility Services Ltd
DATE:	4 th August 2001
NUMBER INSTALLED IN ENERGY NETWORKS NORTH:	0
NUMBER INSTALLED IN ENERGY NETWORKS SOUTH:	5
REASON:	During routine switching a circuit breaker remained closed on one phase after the circuit breaker was opened. Investigation by Alstom. Circuit breaker mechanism drives centre phase directly, outer phase contacts are driven by lever and extended drive rods. The left hand phase drive lever was noted to have become detached from its contact drive shaft.
STATUS IN INITIATING COMPANY:	The operating mechanism shall be inspected before and after operation of the circuit breaker to ensure that the drive linkages are correctly attached.
SPEN APPLICATION:	The operating mechanism shall be inspected before and after operation of the circuit breaker to ensure that the drive linkages are correctly attached.
ADDITIONAL INFORMATION:	None
UPDATE:	Update May 2012 SOP278 to be applied in SAP and System Diagram. If the drive linkage is found to be correctly attached during the next inspection SOP278 can be lifted permanently.
REMEDIAL ACTION:	None

8. APPENDIX 1



Linkage correctly attached



Linkage not correctly attached

9. SOP HEADER

Field Name	Field Value	Field Size
Name (SOPXXX) *	SOP278	6
The reason for the Operational Restriction *	Detached drive linkage	30
Nature of the Operational Restriction *	Inspection to ensure drive linkage is correctly attached.	50
Comments *	SOP278 to be applied in SAP and System Diagram. If the drive linkage is found to be correctly attached during the next inspection SOP278 can be lifted permanently.	200
Restricted Access to Substation Flag *	<u>N</u>	1
SOP Impact Code * (highlight or underline the appropriate code)	0 Temporary/Impact under assessment <u>1 Very minor operational/network impact</u> 2 Moderate operational/network impact 3 Significant impact on system perf./measurable business costs 4 Inoperable without intervention 5 Inoperable – no cost effective solution/must be replaced	N/A
SOP component type * (highlight or underline the appropriate code)	01 Bushing only <u>02 Circuit Breaker</u> 03 Fixed Portion only 04 Moving Portion only 05 Switch 06 RMU 07 Transformer only 08 Tap Changer only 09 Transformer & Bushing 10 Transformer & Tap Changer	N/A
Search Criteria *	Manufacturer: GEC Alstom Model: OX36	N/A

* This denotes a Mandatory Field