

1. SCOPE

This document details the application of SOP 17 (Applicable to Long & Crawford ETV2) 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
October 2000	1	Esther Stewart	Initial Issue in New Format: 2 Page Document
June 2023	2	Patrick Dolan	SOP is applied in SPEN Network. Update to restriction and asset range

3. ISSUE AUTHORITY

Author	Owner	Issue Authority
Patrick Dolan Lead Engineer	Jon Ruiz De Aguirre Substations Manager	Fraser Ainslie 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	3
8. SOP HEADER	4

7. SOP DETAILS

EQUIPMENT TYPE	Long & Crawford ETV2
ORIGINATING COMPANY	South Western Electricity Board
DATE	18 th May 1981
NUMBER INSTALLED IN ENERGY NETWORKS NORTH	0
NUMBER INSTALLED IN ENERGY NETWORKS SOUTH	1
REASON	Design fault on modification to 3 second delay mechanism caused disruptive failure when closing earth switch onto live cable.
STATUS IN INITIATING COMPANY	Restriction
SPEN APPLICATION	Earth switch operation prohibited. As there is a design fault on the ESW 3 sec delay mechanism, all ESW operations are prohibited. Where required earth shall be provided by extending the isolation zone and importing earths.
ADDITIONAL INFORMATION	Report refers to spring assisted dependent manual earth switches fitted with an anti-reflex handle and connected so that the earth switch earths the incoming (circuit) cable. Follows an incident where earth switch failed disruptively when inadvertently closed onto a live 6.6 kV cable. The SOP application in SPEN mitigates danger under normal switching conditions. Should inadvertent switching be completed as described above, this will still pose significant danger to the staff.
UPDATE	N/A
REMEDIAL ACTION	SOP is permanent and will stay in force until units are replaced.

8. SOP HEADER

Field Name	Field Value	Field Size
Name (SOPXXX) *	SOP017	6
The reason for the Operational Restriction *	ESW disruptive failure	30
Nature of the Operational Restriction *	Earth Switch operation prohibited	50
Comments *	As there is a design fault on the ESW 3 sec delay mechanism, all ESW operations are prohibited. Where required earth shall be provided by extending isolation zone and importing earths	200
Restricted Access to Substation Flag *	N	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 02 Circuit Breaker 03 Fixed Portion only 04 Moving Portion only <u>05 Switch</u> 06 RMU 07 Transformer only 08 Tap Changer only 09 Transformer & Bushing 10 Transformer & Tap Changer	N/A
Search Criteria *	Manufacturer: *LONG AND CRAWFORD* Text Model: ETV2	N/A

* This denotes a Mandatory Field