

1. SCOPE

This document details the application of SOP 293 (Applicable to Siemens 8DC11 11kV 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 2 Page Document |
| August 2024 | 2 | Benjamin Hughes | Re-format of document. Removed reference to pre-commissioning as board now commissioned. |

3. ISSUE AUTHORITY

| Author | Owner | Issue Authority |
|----------------------------------|--|---|
| Benjamin Hughes 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.

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7. SOP DETAILS

| | |
|--|--|
| EQUIPMENT TYPE | Siemens 8DC11 11kV circuit breaker |
| ORIGINATING COMPANY | 24seven Utility Services Ltd |
| DATE | 07/08/2002 |
| NUMBER INSTALLED IN ENERGY NETWORKS NORTH | 0 |
| NUMBER INSTALLED IN ENERGY NETWORKS SOUTH | 7 |
| REASON | During switching to restore a circuit after fault repair an operator managed to operate the selector isolator with the circuit breaker closed. |
| STATUS IN INITIATING COMPANY | <p>The restriction introduced by 24seven is as follows:</p> <ol style="list-style-type: none"> 1. Two operators will be required if the selector isolator on the circuit breaker is to be operated. 2. Before the selector isolator is operated the state of the circuit breaker will be confirmed with the control person by checking on site and confirmed via SCADA |
| SPEN APPLICATION | |
| ADDITIONAL INFORMATION | |
| UPDATE | |
| REMEDIAL ACTION | The interlocking arrangement will be reviewed and rectified if necessary (in association with Siemens) during the commissioning process. |

8. SOP HEADER

| Field Name | Field Value | Field Size |
|---|---|------------|
| Name (SOPXXX) * | SOP293 | 6 |
| The reason for the Operational Restriction * | Interlocking failure | 30 |
| Nature of the Operational Restriction * | 2 operators of selector isolator. Confirm state pre op. | 50 |
| Comments * | During switching to restore a circuit after fault repair an operator managed to operate the selector isolator with the circuit breaker closed. | 200 |
| Restricted Access to Substation Flag * | N | 1 |
| SOP Impact Code * <i>(highlight or underline the appropriate code)</i> | 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 * <i>(highlight or underline the appropriate code)</i> | 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: Siemens Model: 8DC11 | N/A |

* This denotes a Mandatory Field