STCP 01-1 Issue 015 Operational Switching

STC Procedure Document Authorisation

Party	Name of Party Representative	Signature	Date
The Company			
National Grid			
Electricity Transmission plc			
SP Transmission plc			
Scottish Hydro Electric			
Transmission plc			
Offshore Transmission Owners			
Competitively			
Appointed Transmission Owners			
Other TO licensees			

STC Procedure Change Control History

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Issue 002	04/07/2005	Issue 002 incorporating PA025
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Issue 004	22/05/2008	Issue 004 incorporating PA050
Issue 005	14/01/2009	Issue 005 incorporating PA050
Issue 006	06/10/2010	Issue 006 incorporating changes for offshore transmission
Issue 007	20/11/2013	Issue 007 incorporating PM065 and PM068
Issue 008	30/07/2014	Issue 008 incorporating PM078
Issue 009	01/04/2019	Issue 009 incorporating National Grid Legal Separation Changes
Issue 010	01/06/2022	Issue 010 incorporating PM0125
Issue 011	25/04/2023	Issue 011 incorporating use of 'The Company' definition as made in the STC - PM0130
Issue 012	04/03/2024	Issue 012 Implementation of the Electrical System Restoration Standard –PM0132 Implementation of the Electrical System Restoration Standard Phase II PM0128 I

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Issue 013	17/04/2025	Issue 013 Digital Communication System Integration PM0144
Issue 014	11/09/2025	Issue 014 Incorporating Competitively Appointed Transmission Owners PM0134
Issue 015	26/11/2025	Issues 015 Incorporating Introducing Competitively Appointed Transmission Owners to TO Lists on all Definitions – PM0151

1 Introduction

1.1 Scope

- 1.1.1 In the Control Phase, appropriate co-ordination between The Company, as defined in the STC and meaning the licence holder with system operator responsibilities, Onshore and Offshore TOs and Affected Users is essential during the Operational Switching process. This document specifies the responsibilities of The Company and TOs in relation to Operational Switching of Plant and/or Apparatus on the TOs' Transmission Systems and the procedures to be followed by each Party:
 - The Company in the role of National Electricity Transmission System Operator shall be responsible for directing the configuration of the National Electricity Transmission System;
 - TOs shall be responsible for instructing Operational Switching on their Transmission Systems; and
 - The TO shall be responsible for the management of any part of their Transmission Systems released from operational service under a Transmission Status Certificate (TSC).
- 1.1.2 For the purposes of this document, the TOs are:
 - NGET:
 - SPT;
 - SHE-T;
 - All Offshore Transmission Licence holders as appointed from time to time by Ofgem; and
 - All Competitively Appointed Transmission Licence holders as appointed by Ofgem;
- 1.1.3 In the event that specific conditions or exceptions are made in the document relating to an Onshore TO or Offshore TO these will be prefixed appropriately.
- 1.1.4 If an Offshore TO chooses to contract Operational Switching to another Transmission Licence holder then that contracted TO shall also become responsible for formulating and executing Operational Switching on that equipment.
- 1.1.5 This document excludes the obligations and processes associated with the testing of Plant and/or Apparatus on the TOs' Transmission Systems. These are specified in STCPs 08-1 to 08-4.
- 1.1.6 The National Electricity Transmission System is deemed to include Offshore transmission connections and equipment operated at 132kV and above. Offshore connections and equipment operated at below 132kV is deemed to be Distribution and is not subject to this procedure. (See Appendix F).

1.2 Objectives

- 1.2.1 The objective of this document is to provide for efficient co-ordination between The Company and all TOs in relation to Operational Switching on the TOs' Transmission Systems.
- 1.2.2 To meet this objective, this document specifies the following:
 - the responsibilities of The Company and TOs in relation to Operational Switching on the TOs' Transmission Systems;
 - the requirements for exchange of information between The Company, TOs and Affected Users related to Operational Switching; and
 - the lines of communication to be used.

2 Key Definitions

2.1 For the purposes of STCP 01-1:

- 2.1.1 **Affected User** means a User whose System, in the reasonable opinion of either The Company or the relevant TO, will or may be subject to an Operational Effect caused by an Operation on a TO's Transmission System.
- 2.1.2 Alternative Point of Contact means a point of contact, other than the Primary Point of Contact, provided by the TO, for The Company to contact in relation to operational liaison.
- 2.1.3 **Event** is as defined in the Grid Code as at the Code Effective Date and for purposes of this STCP only, not as defined in the STC.
- 2.1.4 **Switching Method** means the high level methodology that identifies the actions required by The Company of the TO in a clear and unambiguous manner or formal switching instruction where appropriate.
- 2.1.5 **Planning Phase** means the period covered by the Operational Planning Phase and the Programming Phase.
- 2.1.6 Alternative Point of Contact means a point of contact, other than the Primary Point of Contact, provided by the TO, for The Company to contact in relation to operational liaison.
- 2.1.7 **Transmission Status Certificate (TSC)** means the form in Appendix C for Operational Switching
- 2.1.8 **Operational Effect** is as defined in the Grid Code as at the Code Effective Date and for the purposes of this STCP only, not as defined in the STC.

3 Procedure

3.1 Overview

- 3.1.1 Following the handover of Outages and/or Operational Switching requirements from the Planning Phase to the Control Phase, The Company control staff shall discuss the Operational Effect (or potential Operational Effect) of the Outages and/or Operational Switching requirements with affected TOs, prior to real-time.
- 3.1.2 If an Outage, Outage change request or Operational Switching requirement not included in the handover, is required during the Control Phase, The Company Control staff shall discuss the Operational Effect (or potential Operational Effect) with affected TOs as soon as possible after the requirement is identified.
- 3.1.3 An Outage, Outage change request or Operational Switching requirement may be made or provided verbally, where it is necessary and expedient to do so. Such a request shall be confirmed in writing as soon as reasonably practicable by the Party making it.
- 3.1.4 The Company shall separately record any Services Reduction (if greater than 3 hours duration) or Outage in the Outage database.
- 3.1.5 An Operational Switching programme will be initiated by The Company contacting the Primary Point of Contact. Following initiation of the Operational Switching programme, the Primary Point of Contact may use a Point of Contact at an alternative location to liaise with The Company to complete the Operational Switching programme. The Company's normal point of liaison will always be the Primary Contact Point, and the communication from an Alternative Point of Contact will always be managed by the relevant TO.

- 3.1.6 In respect of any circuit which crosses the Interface Point or CATO Interface Point, The Company will include in the TSC, the name and telephone number of the Alternative Point of Contact that the onshore TO will utilise for agreeing and implementing the switching. The Company will will also confirm to the Onshore TO that they are not required to contact the Offshore TO Primary Point of Contact before switching.
- 3.1.7 In respect of a Total Shutdown or Partial Shutdown, the requirements of the Electricity System Restoration Standard shall apply. Under these conditions special arrangements shall apply as detailed in section 3.17 of this STCP 01-01.

3.2 Use of a Switching Method

- 3.2.1 This document covers the use of:
 - a Switching Method utilising a TSC;
 - a Switching Method utilising a verbal Switching Method; and
 - a Switching Method utilising another agreed method where applicable.
- 3.2.2 A TSC shall always be used:
 - when removing equipment from operational service to allow the TOs to establish Safety Precautions; or
 - if either Party does not agree to the use of the verbal or other Switching Method.
- 3.2.3 If a TSC is not required, a verbal Switching Method or other agreed method which maintains appropriate safeguards may be used. Situations when a verbal Switching Method or other agreed method may be used include:
 - where an emergency situation exists (including a Total Shutdown or Partial Shutdown) requiring immediate Operational Switching and there is insufficient time to follow the TSC procedure in 3.4;
 - where post fault actions are implemented;
 - where TO Transmission System re-configuration is required that does not need any part of a TO Transmission System to be removed from operational service to allow the TOs to establish Safety Precautions;
 - where Operational Switching is required for voltage control;
 - to release Protection Apparatus associated with Plant and/or Apparatus not released under a TSC (i.e. retained under The Company control);
 - to release intertrip and/or Protection signalling channel whilst the associated Plant and/or Apparatus remains in operational service;
 - to release a DAR scheme;
 - to release busbar Protection Apparatus; or
 - where work is required on Plant and/or Apparatus remaining in service under a risk of trip.
 - To return to service Plant and / or Apparatus previously released under a TSC, where both parties agree that the return TSC procedure in 3.4 is not appropriate
- 3.2.4 Where work is required on Protection Apparatus (other than busbar protection) associated with Plant and/or Apparatus that has been released under a TSC, this Protection Apparatus shall be deemed to be transferred to the TO under the relevant TSC.
- 3.2.5 Throughout this procedure operational liaison between The Company and the TOs shall take place as required.

3.3 Establishing a Switching Method

- 3.3.1 When using a TSC to establish a Switching Method for Operational Switching on a TO's Transmission System, the relevant Parties shall complete the TSC in a clear and unambiguous manner clearly identifying, where appropriate, the boundaries of the part of the System released from operational service. Guidelines on TSC completion are provided in Appendix B and the standard terms or Trigger Phrases are listed in Appendix D.
- 3.3.2 The communication of TSCs shall be through a Designated Information Exchange System, unless this method is unavailable in which event the contents of the TSC shall be conveyed by telephone and read back by the recipient to ensure both copies are identical.
- 3.3.3 If a TSC is not used and the Parties agree to the use of a verbal Switching Method, the Switching Method shall be given verbally by The Company to the TO. The Company and the relevant TO shall each record the Switching Method. The TO shall then confirm both copies are identical by reading back the Switching Method to The Company.
- 3.3.4 For the avoidance of doubt, all telephone instructions shall be tape-recorded by The Company and the relevant TO.
- 3.3.5 If a TSC is not used and the Parties agree to the use of another method which maintains appropriate safeguards, for example electronic communication, this shall be given by The Company to the TO, and acknowledged, in a suitable and agreed format.
- 3.3.6 In the case of a Total Shutdown or Partial Shutdown, the requirements of the Electricity System Restoration Standard shall apply. Under the Electricity System Restoration Standard, 60% of peak National Demand is to be restored across all System Restoration Regions in 24 hours and 100% peak National Demand is to be restored across System Restoration Regions in 5 days. This requires TOs together with other Users as provided for in Grid Code CC.7.11.4 or ECC.7.11.4 to have the capability to switch Demand at sufficient speed to support The Company in satisfying the requirements of the Electricity System Restoration Standard on the basis of:-
 - · the successful implementation of Restoration Plans,
 - the successful delivery of the obligations of Restoration Contractors who are parties to Restoration Plans; and
 - the further requirements of Grid Code OC9.
- 3.3.7 During a System Restoration, either as part of a Restoration Plan or subsequently as part of the wider System Restoration process, the switching method employed shall be agreed between the TO, The Company and relevant Network Operator so as to ensure the requirements of 3.3.6 above can be satisfied whilst maintaining appropriate safeguards for Plant and personnel.

3.4 Planned Operational Switching of Plant and/or Apparatus (other than Protection Apparatus and associated equipment).

3.4.1 General

- 3.4.1.1 This section covers the procedures to be followed for:
 - planned Operational Switching for the release of Plant and/or Apparatus, including cross TO:TO or TO: The Company boundary circuits and/or additions to the Plant and/or and Apparatus previously released;
 - full return to service of Plant and/or Apparatus; and
 - partial return to service of Plant and/or Apparatus

3.4.2 Planned Operational Switching for the release of Plant and/or Apparatus

- 3.4.2.1 Prior to planned Operational Switching on a TO's Transmission System, the Party requesting that Operational Switching, shall contact the other relevant Parties to discuss the Operational Switching of Plant and/or Apparatus. The timing of the initial discussion will be dependent on the complexity of the Operational Switching and shall, in any case, allow sufficient time for The Company and the relevant TO to evaluate the following:
 - the proposed Switching Method;
 - in the case of The Company, National Electricity Transmission System reconfiguration requirements;
 - in the case of the relevant TO, the impact on their Transmission System;
 - requirements for modifications to Plant and/or Apparatus e.g. changes to Protection Apparatus;
 - issues or restrictions (including Operational Capability Limits (OCLs)) on Transmission Plant and/or Apparatus associated with the proposed Operational Switching; and/or
 - other operational information relevant to the Operational Switching.
- 3.4.2.2 Prior to the planned Operational Switching time, The Company shall also contact Affected Users In accordance with GB Grid Code OC7 to discuss:
 - any Operational Effect on the Affected Users' Systems;
 - requirements for re-configuration of the Affected Users' Systems; and/or
 - any issues/restrictions associated with the Affected Users' Systems that may have an Operational Effect on the Switching Method and/or the resulting System configuration.
- 3.4.2.3 The Company shall inform the Affected User(s) of the approximate start time of the Operational Switching and that the relevant TO shall become the operational contact with the Affected User(s) at the affected site for the duration of the Operational Switching.
- 3.4.2.4 The Company shall develop the proposed Switching Method for the release of the Plant and/or Apparatus required for the Outage(s), taking into account any operational issues, or requirements raised verbally or in writing by the TO(s) or Affected User(s) in the appropriate timescales
- 3.4.2.5 The Company shall complete part 1, 1.1, 1.2 and 2.1 of the TSC and send the TSC via a Designated Information Exchange System to the relevant TO as soon as reasonably practicable.
- 3.4.2.6 On receipt of the TSC the relevant TO shall check the Switching Method and, if necessary, inform The Company of any required alterations. If a change to the TSC is required, either:
 - both Parties shall verbally agree any required change(s) to the TSC, modify their copies of the TSC accordingly and initial the agreed change(s); or
 - The Company shall prepare a new TSC, completing and sending the new TSC as described in 3.4.2.5.
- 3.4.2.7 If the change(s) to the Switching Method are significant, it may be necessary for The Company to notify Affected User(s) of the proposed change(s) and discuss any relevant issues listed in Section 3.4.2.3 with Affected User(s) prior to preparing a new TSC. The Switching Method shall be developed taking into account any further operational issues or requirements raised by the relevant TO or Affected User(s).
- 3.4.2.8 Prior to commencing the Operational Switching programme (developed by the TO to meet the aims of the Switching Method), the relevant TO shall contact The Company and each Party shall complete part 1.3 of the TSC, by exchange of names, date and time. The relevant TO shall then:
 - have control of that Plant and/or Apparatus stated in the TSC;
 - become the point of operational contact for the Affected User(s) at the affected site for the duration of the Operational Switching;

- notify the Affected User(s) of the change in operational contact from The Company to TO; and
- implement the Operational Switching programme.
- 3.4.2.9 During an Operational Switching sequence to switch out Plant and/or Apparatus detailed in part 2.1 of the TSC, the TO may decide to leave the respective boundary;
- disconnector(s) closed, open, or open and isolated as required; or
- circuit breaker(s) open or open and isolated as required.
- 3.4.2.10 On completion of the Operational Switching programme, the TO shall notify the Affected User(s) of its completion and inform the Affected User(s) that their operational contact is now The Company. The TO shall then notify The Company that the Operational Switching programme has been completed.
- 3.4.2.11 Part 2.2 of the TSC shall be completed by both Parties through exchange of names, date and time, which transfers operational control of the Plant and/or Apparatus detailed in part 2.1 to the relevant TO. Earthing devices shall not be applied or safety documents issued until part 2.2 of the TSC has been completed.

3.4.3 Change of Conditions

3.4.3.1 If a change of conditions (as described in section 3.15) requires the Operational Switching to be delayed or stopped, either The Company or the relevant TO (as appropriately agreed between the Parties at the time) shall inform the Affected User(s) as soon as practicable.

3.4.4 Cross Boundary circuits

3.4.4.1 Where a circuit crosses a TO:TO or TO: The Company boundary, The Company shall contact all TOs that may be affected and Affected User(s) prior to establishing the Switching Method. A separate TSC will be agreed and issued to each relevant TO following the procedure in section 3.4.2. In Part 1.2 of each TSC, reference shall be made to the requirement for operational liaison with other relevant Parties and the number(s) of the related TSCs. Part 2.1 shall state the full Plant and/or Apparatus released and any boundaries relevant to that particular Party.

3.4.5 Additions to the Plant and Apparatus previously released

- 3.4.5.1 Where necessary to extend the Plant and Apparatus released to the TO the procedure in section 3.4.2 shall be followed and either:
 - a new TSC covering the enlarged zone shall be issued, prior to the cancellation of the original TSC (the preferred approach); or
 - a new TSC may be issued that adjoins the existing TSC.
- 3.4.5.2 Where changes to the details contained in a TSC are required, for instance when an HVSCC is agreed, a new TSC shall be issued in line with 3.4.5.1 above.

3.4.6 Planned Operational Switching for the Full Return to Service of Plant and/or Apparatus

- 3.4.6.1 As soon as reasonably practicable prior to the full return to service of Plant and/or Apparatus, the relevant TO shall inform The Company of the impending return to service of any Plant and/or Apparatus. The TO shall provide The Company with any appropriate information. Both Parties shall evaluate the following, where appropriate:
 - the proposed Switching Method;
 - in the case of The Company, National Electricity Transmission System reconfiguration requirements;
 - in the case of the relevant TO, the impact on their Transmission System;

- requirements for modifications to Plant and/or Apparatus e.g. changes to Protection Apparatus;
- issues or restrictions (including Operational Capability Limits (OCLs)) on Transmission Plant and/or Apparatus associated with the proposed Operational Switching; and/or
- other operational information relevant to the Operational Switching.
- 3.4.6.2 After receipt of this notification and prior to the planned Operational Switching time, The Company shall contact Affected User(s) In accordance with GB Grid Code OC7 to discuss:
 - any Operational Effect on the Affected Users' Systems;
 - requirements for re-configuration of the Affected Users' Systems; and/or
 - any issues/restrictions associated with the Affected Users' Systems that may have an Operational Effect on the Switching Method and/or the resulting System configuration.
- 3.4.6.3 The Company shall inform the Affected User(s) of the approximate start time of the Operational Switching and that the relevant TO shall become the operational contact with the Affected User(s) at the affected site for the duration of the Operational Switching.
- 3.4.6.4 If required, the TO shall note any exceptions, such as changes to Plant and/or Apparatus within the released zone, in Part 3 of the original TSC and communicate the details to The Company. Part 3 of the original TSC will then be completed by both Parties through exchange of names, date and time signifying that the Plant and/or Apparatus is fully available for operational service (apart from any exceptions stated) and that operational control of the Plant and/or Apparatus has returned to The Company.
- 3.4.6.5 The Company shall develop the proposed Switching Method and complete a new TSC (the Return TSC) for the return to service of the Plant and/or Apparatus taking into account any operational issues or requirements raised by the relevant TO or Affected User.
- 3.4.6.6 The Company shall complete parts 1, 1.1 and 1.2 of the Return TSC and send the return TSC via a Designated Information Exchange System to the relevant TO, as soon as reasonably practicable.
- 3.4.6.7 On receipt of the Return TSC, the relevant TO shall check the Switching Method and, if necessary, inform The Company of any required alterations. If a change to the Return TSC is required, either:
 - both Parties shall verbally agree any required change(s) to the Return TSC, modify their copies of the Return TSC accordingly and initial the agreed change(s); or
 - The Company shall prepare a new Return TSC, completing and sending the new Return TSC as described in 3.4.6.6.
- 3.4.6.8 If the change(s) to the Switching Method are significant, it may be necessary for The Company to notify the Affected User(s) of the proposed change(s) and discuss any relevant issues listed in Section 3.4.6.2 with the Affected User(s) prior to preparing a new Return TSC. The Switching Method shall be developed taking into account any operational issues or requirements raised by the relevant TO or Affected User(s).
- 3.4.6.9 Prior to commencing the Operational Switching programme (developed by the TO to meet the aims of the Switching Method), the relevant TO shall contact The Company and each Party shall complete part 1.3 of the Return TSC, by exchange of names, date and time. The relevant TO shall then:
 - have control of that Plant and/or Apparatus stated in the TSC;
 - become the point of operational contact for the Affected User(s) at the affected site for the duration of the Operational Switching;
 - notify the Affected User(s) of the change in operational contact from The Company to TO; and
 - implement a Operational Switching programme.

3.4.6.10 On completion of the Operational Switching programme, the TO shall notify the Affected User(s) of its completion and inform the Affected User(s) that their operational contact is now The Company. The TO shall then notify The Company that Operational Switching programme has been completed. Both Parties shall complete part 3 of the Return TSC, by exchange of names, date and time.

3.4.7 Planned Operational Switching for the Partial return to Service of Plant and/or Apparatus

- 3.4.7.1 As soon as reasonably practicable prior to the partial return to service of Plant and/or Apparatus, the relevant TO shall inform The Company of the impending return to service of any Plant and/or Apparatus. The TO shall provide The Company with any appropriate information. Both Parties shall evaluate the following, where appropriate:
 - the proposed Switching Method;
 - in the case of The Company, National Electricity Transmission System reconfiguration requirements;
 - in the case of the relevant TO, the impact on their Transmission System;
 - requirements for modifications to Plant and/or Apparatus e.g. changes to Protection Apparatus;
 - issues or restrictions (including Operational Capability Limits (OCLs)) on Transmission Plant and/or Apparatus associated with the proposed Operational Switching; and/or
 - other operational information relevant to the Operational Switching.
- 3.4.7.2 After receipt of this notification and prior to the planned Operational Switching time, The Company shall contact Affected Users In accordance with GB Grid Code OC7 to discuss:
 - any Operational Effect on the Affected Users' Systems;
 - requirements for re-configuration of the Affected Users' Systems; and/or
 - any issues/restrictions associated with the Affected Users' Systems that may have an Operational Effect on the Switching Method and/or the resulting System configuration.
- 3.4.7.3 The Company shall inform the Affected User(s) of the approximate start time of the Operational Switching and that the relevant TO shall become the operational contact with the Affected User(s) at the affected site for the duration of the Operational Switching.
- 3.4.7.4 In part 3 of the original TSC under the heading 'exceptions', the TO shall identify:
 - the Plant and/or Apparatus that shall remain on Outage; and
 - the operational status of the disconnector(s) or physical separation that shall become the new boundary from the live National Electricity Transmission System.
- 3.4.7.5 Communicate the above details to The Company who shall append their copy of the relevant TSC accordingly.
- 3.4.7.6 The Company shall prepare and send a new TSC (the Isolation TSC) via a Designated Information Exchange System detailing the Plant and/or Apparatus that is to remain on Outage.
- 3.4.7.7 Part 2.2 of the Isolation TSC shall be completed by both Parties, by exchange of names, date and time. This document is then issued, leaving that Plant and/or Apparatus remaining on Outage under the TO's control.
- 3.4.7.8 Part 3 of the original TSC shall then be completed by The Company and the TO through the exchange of names, date and time, returning the stated Plant and/or Apparatus to The Company's control and cancelling that TSC.
- 3.4.7.9 The Company shall develop the proposed Switching Method and complete a new TSC (the Return TSC) for the return to service of the Plant and/or Apparatus that is not remaining on Outage, taking into account any operational issues or requirements raised by the relevant TO or Affected User.

- 3.4.7.10 The Company shall complete parts 1, 1.1 and 1.2 of the Return TSC and send via a Designated Information Exchange System the Return TSC to the relevant TO as soon as reasonably practicable.
- 3.4.7.11 On receipt of the Return TSC, the relevant TO shall check the Switching Method and, if necessary, inform The Company of any required alterations. If a change to the Return TSC is required, either:
 - both Parties shall verbally agree any required change(s) to the Return TSC, modify their copies of the Return TSC accordingly and initial the agreed change(s); or
 - The Company shall prepare a new Return TSC, completing and sending the new Return TSC as described in 3.4.7.9.
- 3.4.7.12 If the change(s) to the Switching Method are significant, it may be necessary for The Company to notify the Affected User(s) of the proposed changes and discuss any relevant issues listed in section 3.4.6.2 with the Affected User(s) prior to preparing a new Return TSC. The Switching Method shall be developed taking into account any operational issues or requirements raised by the relevant TO or Affected User(s).
- 3.4.7.13 Prior to commencing the Operational Switching programme (developed by the TO to meet the aims of the Switching Method), the relevant TO shall contact The Company and each Party shall complete part 1.3 of the Return (or new Return) TSC, by exchange of names, date and time. The relevant TO shall then:
 - have control of that Plant and/or Apparatus stated in the TSC;
 - become the point of operational contact for the Affected User(s) at the affected site for the duration of the Operational Switching;
 - notify the Affected User(s) of the change in operational contact from The Company to TO; and
 - implement a Operational Switching programme.
- 3.4.7.14 On completion of the Operational Switching programme, the TO shall notify the Affected User(s) of its completion and inform the Affected User(s) that their operational contact is now The Company. The TO shall then notify The Company that the Operational Switching programme has been completed. Both Parties shall complete part 3 of the Return (or new Return) TSC, by exchange of names, date and time.

3.5 Alarms and/or Events during Switching

- 3.5.1 If, immediately prior to or during implementation of an Operational Switching programme, an unexpected alarm or Event occurs that the relevant TO believes has or may have an Operational Effect on the proposed Operational Switching programme, the TO shall contact The Company to discuss the implications and agree any actions that maybe required. STCP 02-1 Alarm and Event Management shall be followed as appropriate.
- 3.5.2 If, during Operational Switching, The Company becomes aware of any reason to stop or delay, including changes of conditions (as described in section 3.15). The Company shall contact the relevant TO to discuss and agree any actions that may be required. STCP 02-1 Alarm and Event Management shall be followed as appropriate.
- 3.5.3 When ferro-resonance conditions are identified, the relevant TO shall endeavour (in accordance with TO procedures) to remove the ferro-resonance by:
 - initiating any quenching schemes (automatic or manual); or
 - manually opening the respective disconnector(s), as appropriate.
- 3..5.4 As soon as is reasonably practicable the TO shall notify The Company of the occurrence of ferro-resonance conditions and any actions taken.

3.6 Unplanned Switching

3.6.1 Emergency Switching

- 3.6.1.1 Emergency action shall be taken in accordance with STCP 09-2 Site and Public Safety.
- 3.6.1.2 In emergency situations, immediate Operational Switching of Plant and/or Apparatus on a TO's Transmission System may be required. The relevant TO may carry out Operational Switching to release the equipment concerned without reference to The Company and/or the Affected User(s) in accordance with the STCP 09-2 Site and Public Safety.
- 3.6.1.3 When time allows, the procedure outlined in section 3.4.2 shall be followed. However, it may be necessary for the TSC to be completed after the Operational Switching. In such cases, a verbal Switching Method shall be used.
- 3.6.1.4 The relevant TO will be responsible for operational contact with the Affected User(s) (where time allows) before completing the required Operational Switching.
- 3.6.1.5 If a TSC has not been completed under section 3.6.1.3, when the Plant and/or Apparatus cannot be immediately returned to operational service, a TSC will be issued as soon as reasonably practicable and in any case before a TO establishes Safety Precautions (if required).
- 3.6.1.6 Where relevant, the TO shall supply The Company with appropriate OCLs as soon as practicable.

3.6.2 Post fault Operational Switching

- 3.6.2.1 As soon as reasonably practicable after the automatic Operation of Protection Apparatus, removing any Plant and/or Apparatus from operational service, The Company shall contact the relevant TO to evaluate the Operational Effects.
- 3.6.2.2 The Company shall contact the Affected User(s) In accordance with GB Grid Code OC7 to discuss:
 - any Operational Effect on the Affected Users' Systems;
 - requirements for re-configuration of the Affected Users' Systems; and/or
 - any issues/restrictions associated with the Affected Users, Systems that may have an Operational Effect on the National Electricity Transmission System.
- 3.6.2.3 The Company shall take into account any operational issues or requirements raised by the Affected User(s) in its evaluation of the Operational Effects.
- 3.6.2.4 Following a fault, the relevant TO will provide the necessary information in accordance with STCP 03-1 Post Event Analysis and Reporting.
- 3.6.2.5 If the fault is a permanent fault and the faulted Plant and/or Apparatus remains out of service, The Company shall complete a TSC and send the TSC via a Designated Information Exchange System to the relevant TO as soon as reasonably practicable.
- 3.6.2.6 If manual removal of Plant and/or Apparatus is required following the receipt of an alarm and/or site report, a verbal Switching Method shall be used, unless either Party requests the use of a TSC. In such case the procedure for planned Operational Switching in section 3.4.2 shall be followed.3.6.3 Return to Service of faulted Plant and/or Apparatus
- 3.6.3.1 The relevant TO shall inform The Company as to whether the faulted Plant and/or Apparatus can be made available for operational service.
- 3.6.3.2 The procedure to be followed for returning faulted Plant and/or Apparatus to operational service is that stated in section 3.4.6 or 3.4.7, as appropriate.

Post Fault Actions

Services Restoration Proposals may be agreed in advance between The Company and a TO in the Planning or Control Phase. (These may include post fault actions to secure Transmission System operation following an Event on the National Electricity Transmission System.

- Services Restoration Proposals may include post fault and/or special actions that are required as part of an Outage arrangement. These will be confirmed by The Company in real time with the appropriate provider. Any changes that could affect planned Outage arrangements should be agreed between TO and The Company as they become known.
- 3.6.4.3 For post fault and /or special actions, The Company and the TO may pre define the action(s) by use of a Post Fault Agreement form (Appendix C).
- 3.6.4.4 When an Event occurs that has an associated post fault and/or special actions, The Company and the TO shall enact the Post Fault Action agreement form, or use a Verbal Switching Method. The TO shall then implement the agreed action(s) and confirm completion to The Company.

3.7 System Reconfiguration

- 3.7.1 Where TO Transmission System re-configuration is required by The Company or a TO, a verbal Switching Method may be used if no part of the TO Transmission System needs to be removed from operational service in order for a TO to establish Safety Precautions.
- 3.7.2 If Plant and/or Apparatus needs to be removed from operational service in order for a TO to establish Safety Precautions, the procedure in 3.4.2 shall be followed.
- 3.7.3 The Party requesting the TO Transmission System re-configuration shall contact the other Party to evaluate the required Operational Switching. The timing of the initial discussion will be dependent on the complexity of the Operational Switching process, and shall in any case allow sufficient time for The Company and relevant TO, to evaluate the proposed actions.
- 3.7.4 Prior to the planned Operational Switching time, The Company shall also contact the Affected User(s) In accordance with GB Grid Code OC7 to discuss:
 - any Operational Effect on the Affected User's' Systems;
 - requirements for re-configuration of the Affected Users' Systems; and/or
 - any issues/restrictions associated with the Affected Users' Systems that may have an Operational Effect on the Switching Method and/or the resulting System configuration.
- 3.7.5 The Company shall inform the Affected User(s) of the approximate start time of the Operational Switching and that the relevant TO shall take over any operational contact with the Affected User(s) at the affected site for the duration of the Operational Switching.
- 3.7.6 The Company shall develop the proposed Switching Method for the re-configuration of the System, taking into account any operational issues or requirements raised by the TO(s) and/or Affected User(s).
- 3.7.7 A verbal Switching Method may be used. If so, the procedure in section 3.3.3 shall be followed.
- 3.7.8 The relevant TO shall check the Switching Method and, if necessary, inform The Company of any required alterations. If a change to the Switching Method is required, both Parties shall verbally agree any required change(s) to the Switching Method and modify their copies of the Switching Method accordingly.
- 3.7.9 If the change(s) to the Switching Method are significant, it may be necessary for The Company to notify Affected User(s) of the proposed changes and discuss any relevant issues as listed in 3.7.4 with Affected User(s) prior to agreeing a new Switching Method with the TO.

3.7.10 In the case of a System Restoration either as a result of a Total Shutdown or Partial Shutdown, the switching arrangements as provided in each Restoration Plan would be followed as provided for in STCP 06-1 and Grid Code OC9, unless a variation to the Restoration Plan is agreed in accordance with Grid Code OC9.4.7.6.3. Switching following termination of Restoration Plans would be carried out upon instructions from The Company.

3.8 Voltage Control

- 3.8.1 The Company has a responsibility for managing voltage control on the National Electricity Transmission System. Manual tapping of transformers, switching of circuits, switching of reactors, mechanically switched capacitors (MSCs), which may be manually or automatically controlled, and static VAr compensators (SVCs) including changes to target voltage and mode of operation, may be initiated by The Company using a verbal Switching Method or other agreed method which maintains appropriate safeguards. If so, the procedure in section 3.3 shall be followed. The Company will liaise with the relevant TO to ensure that any actions in this respect are co-ordinated.
- 3.8.2 Within two minutes of an instruction being received from The Company relating to Reactive Power at the Interface Point, OFTOs will comply with such instruction.
- 3.8.3 The Company and a relevant TO may agree voltage control actions to be undertaken by that TO. In such cases, The Company and that TO shall agree any required voltage targets by using a verbal Switching Method or other agreed method which maintains appropriate safeguards. The procedure in section 3.3shall be followed. In such cases.
- 3.8.3.1 The relevant TO shall use reasonable endeavours to maintain the voltage within agreed dead bands, by tapping of the relevant transformers only.
- 3.8.3.2 The relevant TO shall notify The Company as soon as possible if the TO is unable, or likely to be unable, to maintain voltage within the agreed dead bands, by tapping of the relevant transformers.
- 3.8.3.3 When agreed between The Company and the relevant TO, the TO shall take due consideration of the prevailing System conditions, including associated reactive power flows when maintaining the agreed voltage profile.

3.9 Protection Apparatus (other than Busbar Protection Apparatus)

3.9.1 Work on Protection Apparatus associated with Plant and/or Apparatus released to the Transmission Owner

- 3.9.1.1 Operational responsibility and control for Protection Apparatus will rest with The Company unless control of a TO's Transmission System Plant and/or Apparatus has been transferred to the relevant TO using the TSC process (in section 3.4.2). Under these circumstances, operational responsibility for the associated Protection Apparatus will also transfer to the relevant TO.
- 3.9.1.2 The TO is responsible for ensuring that all necessary precautions have been taken to ensure that there is no impact on the live System prior to the commencement of, and during the Protection work. The TO shall retain responsibility for the management of associated Protection Apparatus, ensuring there is no impact on the live System, informing The Company as soon as reasonable practicable if there is, or likely to be, an impact on the live System.
- 3.9.2 Work on Protection Apparatus associated with Plant and/or Apparatus not released to relevant TO (i.e. retained under The Company control)
- 3.9.2.1 Where work or testing is required on Protection Apparatus associated with Plant and/or Apparatus that is not released to the relevant TO, a verbal Switching Method may be used. If so, the procedure in section 3.3.3 shall be followed.
- 3.9.2.2 In such cases, the relevant TO shall:

- inform The Company of any Operational Effect (or potential Operational Effect) of the work or testing on the associated Plant and/or Apparatus;
- take all necessary precautions to ensure that any potential Operational Effect on the National Electricity Transmission System is minimised prior to the commencement of protection work;
- inform The Company where it is not possible to maintain all necessary precautions
 to ensure that any potential Operational Effect on the National Electricity
 Transmission System is minimal through reasonable endeavours, thus increasing
 the likely Operational Effect on the live National Electricity Transmission System;
 and
- ensure that the Protection Apparatus is restored to relevant OCL(s). Where it is not
 possible to restore the Protection Apparatus to normal service condition, the state
 of the Protection Apparatus on its return to The Company shall be recorded by the
 TO and The Company.
- 3.9.3 Where it is necessary to switch Protection Apparatus, or Protection blocking Apparatus out of service, or modify protection settings whilst the associated Plant and/or Apparatus is in operational service, a verbal Switching Method shall be used. The procedure in section 3.3.3 shall be followed.
- 3.9.4 STCP 08-1 Protection Testing will be followed as applicable.

3.10 Intertrip and/or Protection Signalling Channels

- 3.10.1 When it is necessary to work on and/or test intertrip and/or Protection signalling channels whilst associated Plant and/or Apparatus remains in operational service the relevant TO shall inform The Company of all available relevant information regarding the Operational Effect (or potential Operational Effect) of the proposed action on the TO's Transmission System prior to the work taking place.
- 3.10.2 The Company shall consider the Operational Effects on the National Electricity Transmission System.
- 3.10.3 The Company shall contact the Affected User(s) In accordance with GB Grid Code OC7 to discuss:
 - any Operational Effect on the Affected Users' Systems;
 - · requirements for re-configuration of the Affected Users' Systems; and/or
 - any issues/restrictions associated with the Affected Users' Systems that may have an Operational Effect on the National Electricity Transmission System.
- 3.10.4 The Company shall take into account any operational issues or requirements raised by the Affected User(s) in its evaluation of the Operational Effects. If any operational issues are considered to be acceptable, The Company shall agree to the release of an intertrip and/or Protection signalling channels.
- 3.10.5 A verbal Switching Method may be used to release intertrip and/or Protection signalling channels. The procedure in section 3.3.3 shall be followed.
- 3.10.6 The relevant TO will then manage the testing and/or work. STCP 08-1 Protection Testing will be followed as applicable.

3.11 Delayed Auto Reclose (DAR)

3.11.1 If The Company or a TO requires a DAR scheme to be switched out of service for operational or safety reasons, they shall contact the TO or The Company, as appropriate, to request the DAR to be switched out of service. A verbal Switching Method may be used and the procedure in section 3.3.3 shall be followed.

3.11.2 Where the DAR scheme is associated with a TO-TO or TO-The Company cross boundary circuit, The Company shall co-ordinate the request to switch the DAR scheme out of service with the relevant Parties and issue a verbal Switching Method to each Party as appropriate.

3.12 Busbar Protection Apparatus

- 3.12.1 Unless specifically released (through a verbal Switching Method), busbar Protection Apparatus will remain under the operational control of The Company at all times. No planned work or testing on busbar Protection Apparatus shall be carried out unless the TO has provided confirmation to The Company that they have a written method statement in place that sets out the actions to be taken to minimise the Operational Effects of the work or testing on the live National Electricity Transmission System. Prior to the release or agreement for work and/or testing of the busbar Protection Apparatus, The Company and the relevant TO(s) will discuss:
 - any measures to be taken as part of the method statement to mitigate any Operational Effects during testing and/or work;
 - the acceptability of any Operational Effects, where it is not possible to mitigate against all Operational Effects during testing and/or work; and
 - where appropriate, agree the any Operational Effects prior to releasing the busbar Protection Apparatus. This agreement should be recorded by both Parties.
- 3.12.2 Guidance on dealing with busbar Protection faults is outlined in STCP 02-1 Alarm and Event Management

3.13 Risk Of Trip

- 3.13.1 When work is required on Plant and/or Apparatus remaining in service and it is not possible to remove all reasonable tripping risks to the System through reasonable endeavours, a formal risk of trip shall be agreed between the relevant TO and The Company. The Company shall only agree to a risk of trip if The Company:
 - · has the agreement of Affected Users; and
 - is satisfied that the Operational Effect, if the trip occurred, would not result in unacceptable System operating conditions.
- 3.13.2 If Plant and/or Apparatus trips following agreement of a risk of trip, the TO should determine the cause of the trip and report the cause to The Company as soon as reasonable practicable.
- 3.13.3 If the cause of the trip is as a result of the agreed action, the Plant and/or Apparatus affected by the trip may be put back into operational service using a verbal Switching Method. If so, the procedure in section 3.3.3 shall be followed.
- 3.13.4 Prior to issuing a verbal Switching Method, The Company shall contact the Affected User(s) In accordance with GB Grid Code OC7 to discuss:
 - any Operational Effect on the Affected Users' Systems;
 - requirements for re-configuration of the Affected Users' Systems; and/or
 - any issues/restrictions associated with the Affected Users' Systems that may have an Operational Effect on the Switching Method and/or the National Electricity Transmission System.
- 3.13.5 The verbal Switching Method shall take into account any operational issues or requirements raised by the TO(s) and/or Affected User(s).
- 3.13.6 All necessary precautions should be taken by the TO to avoid further inadvertent tripping.

3.14 Commissioning / Decommissioning

- 3.14.1 The process for commissioning or decommissioning of Plant and/or Apparatus is detailed in STCP 19-4 Commissioning/Decommissioning. If Operational Switching takes place as part of the process, and The Company and the relevant TO have agreed that a Switching Programme is correct and in sufficient detail, The Company may, if appropriate, agree that the TO may complete a number of steps at a time. This agreement, including the steps that shall be carried without further reference to The Company, will be recorded by both TO and The Company.
- 3.14.2 If the relevant TO conducts any commissioning and/or trip testing that may have an Operational Effect on the System, the process in 3.4.2 Planned Release of equipment on a TO's Transmission System shall be followed.

3.15 Change of Conditions

- 3.15.1 If at any time The Company or the relevant TO becomes aware of a change of conditions that has a reason to delay or stop the Operational Switching or Outage they shall notify the other Party and either The Company or the relevant TO (as appropriately agreed between the Parties at the time) shall inform the Affected User(s) as soon as practicable. Changes of condition include:
 - · Operational changes including System Restoration;
 - · Changes in weather conditions;
 - Change in resource availability;
 - Safety issues; and
 - · Changes to commercial/market conditions

3.16 Remote Control Facilities

3.16.1 Under the STC, the default arrangement is that OFTO Network Assets, including voltage control equipment, are operated by the OFTO at the request of The Company. However it is acceptable under the STC for The Company and OFTO to enter into an agreement under which The Company operates the assets directly. To facilitate such agreements it may be expedient to build this operational capability into the OFTO's SCADA and TCI. Please refer to STCP 4-6 for details of the telecontrol interface requirements.

3.17 System Restoration

3.17.1 Under a System Restoration, special provisions shall apply as detailed in section 3.3.6, 3.3.7, and 3.7.10 of this STCP 01-1. Please also refer to the System Restoration requirements in STCP 06-1, Grid Code OC9, Grid Code OC5.7, Grid Code CC7.10, CC.7.11, ECC.7.10 and ECC.7.11.

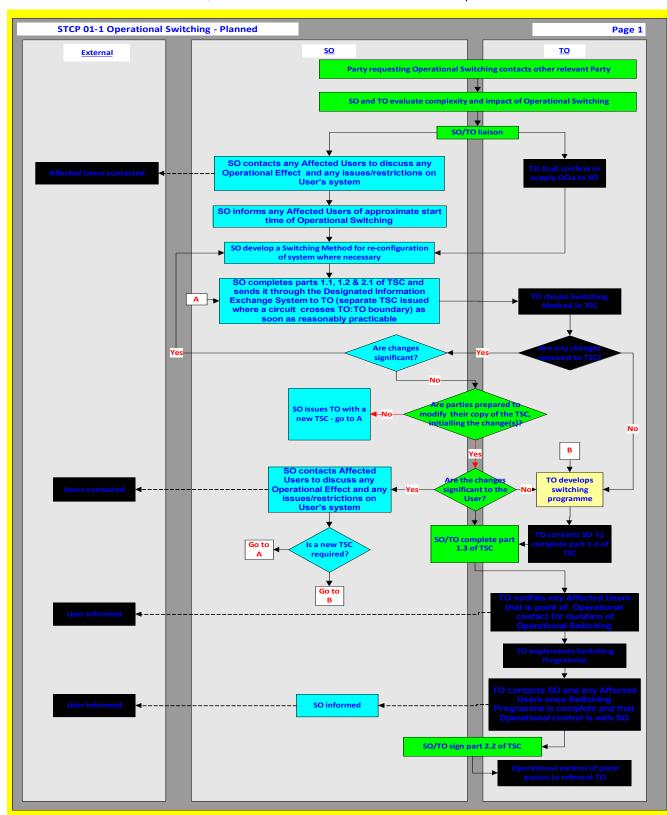
4 Dispute Resolution

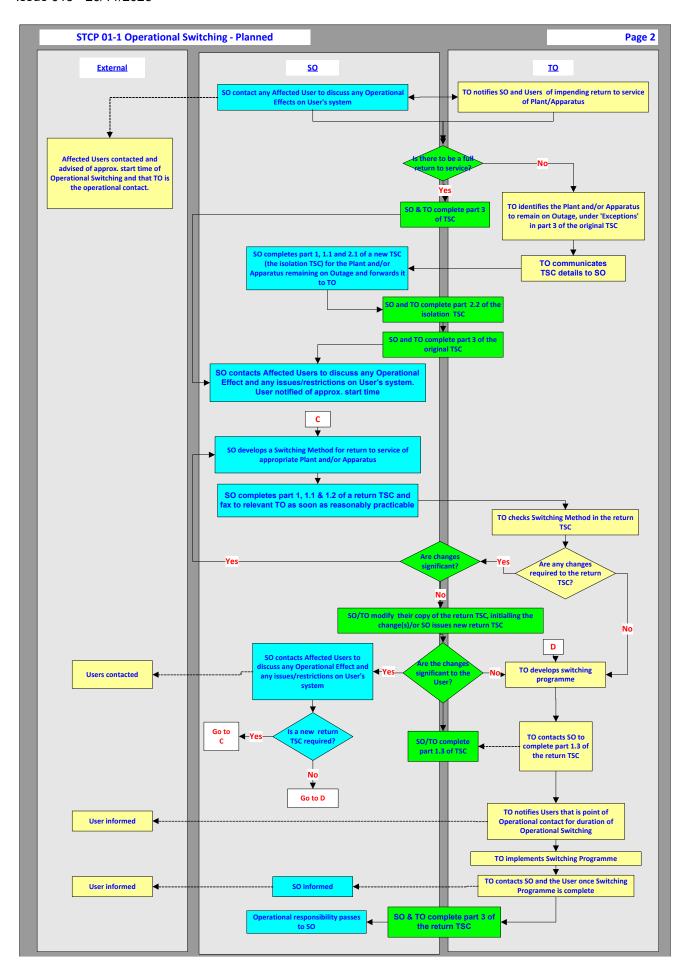
4.1 Objections

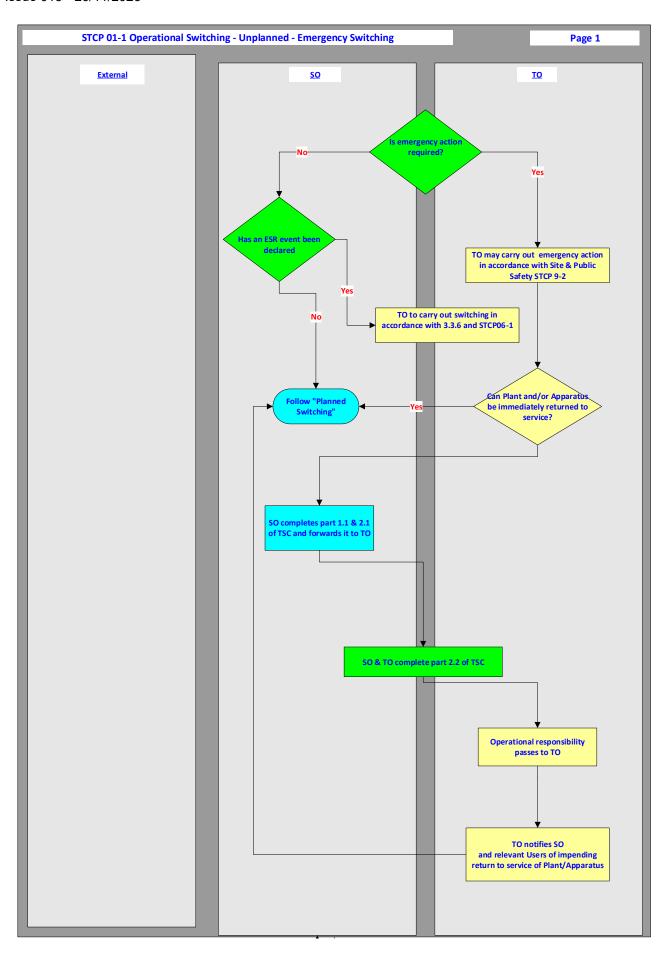
4.1.1 In the event of an objection or failure to agree by either Party, to an Operation or sequence of Operations, including a declaration that it would compromise the security of the National Electricity Transmission System or place personnel in an unsafe environment, every reasonable attempt will be made to resolve the matter at the time. If the objection or failure to agree arises on safety grounds, then the proposed Operation shall not be carried out and an alternative Switching Method shall be proposed by The Company, where practicable. If the objection or failure to agree arises from operational or commercial concerns, The Company will, after considering the objection or failure to agree, decide if it is appropriate to continue with the operation or sequence of operations. A formal dispute may be raised by either Party.

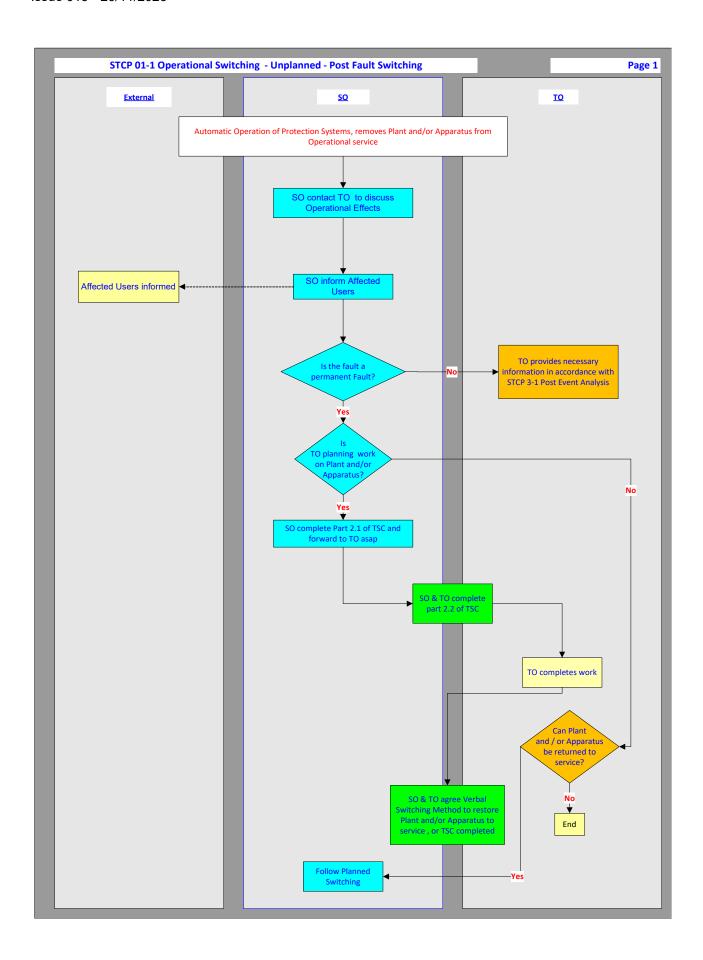
Appendix A: Operational Switching Process [Circuit release/return]

Note that the Process Diagrams shown in this Appendix A are for information only. In the event of any contradiction between the process represented in this Appendix and the process described elsewhere in this STCP, then the text elsewhere in this STCP shall prevail.









Appendix B: Transmission Status Certificate (TSC) Completion

A Transmission Status Certificate (TSC) will be used to formally sanction the release of Plant and/or Apparatus, or for activities such as a complex re-configuration, transferring operational authority to the relevant TO for Operational Switching in accordance with an agreed Switching Method.

Transmission Status Certificate Pro-forma

Each TSC will use a unique code, generated by The Company with a prefix. Examples of these for Onshore TOs are SST (for SHETL) or SPT (for SPT). Unique codes will be allocated for Offshore TOs and CATOs as appropriate. If required, the TO may use their own additional code.

Part 1.0 Activity

To include details of the reconfiguration or Outage booking, E.g. Kilmarnock South SGT1 maintenance.

Part 1.1: System Identification

To include that part of the TO's Transmission System required on Outage, including any equipment that it is required for Operational Switching time. e.g. a transformer Outage may require the release of part of a mesh or a circuit for Operational Switching time.

Examples of identification

The full circuit/ equipment name will be identified along with the appropriate voltage level. e.g. Bonnybridge – Cumbernauld 2 132kV circuit.

SHETL use a circuit identification code. This will be used in addition to the full circuit / Plant / Apparatus name. e.g. Beauly – Blackhillock HB1 275kV circuit

Part 1.2: Method

The method detailed in part 1.2 of the TSC is a high level methodology, which shall identify in a clear and unambiguous manner, the actions required by The Company of the TO. It relies on the expertise of the relevant TO to develop a detailed Operational Switching programme in line with the TO's safety rules and procedures. Where necessary to avoid doubt, the method shall be more specific (e.g. open CB X500).

It shall include the method of Operational Switching for the release of equipment detailed in 2.1 including the Operational Switching out and return to service of those parts of the TO's Transmission System not required on Outage, but required for Operational Switching time. It will;

- stipulate the order in which Operational Switching is to be carried out
- be unambiguous and in sufficient detail to allow the relevant TO to develop a formal, detailed Operational Switching programme for implementation.
- detail any requirements for selection/ de-selection of operational intertrips
- detail the requirement for any specific operational liaison with the Affected User(s).
- Where completing a series of switching operations in strict order is not essential,
 e.g. when de-loading a number of transformers to facilitate the de-energising of a circuit, the relevant switching operations may be listed horizontally, identifying to the

TO that these switching operations may be carried out in any order that aligns with the operational requirements of the TO..

Where the Outage involves a TO–TO or TO– The Company circuit, reference shall be made to the need for operational liaison between the relevant parties and to the TSC number relevant to the other party.

For operations on the SHETL Transmission System, the SHETL circuit code detailed in section 1.1 may be used in place of or in addition to the circuit name.

Part 1.3 Start time

For planned Operational Switching, the TSC will normally be sent via a Designated Information Exchange System to the relevant TO sometime prior to the reconfiguration or Outage commencing. The TO will contact The Company when staff have arrived on site and the TO is ready to proceed. Both Parties will then review the content of the TSC. If the content of the TSC is correct part 1.3 will be completed by exchange of names date and time, sanctioning the Operational Switching.

Part 2.1 System Released

System Identification

The part of the TO's Transmission System required on Outage will be clearly defined geographically. The standard four-letter Substation code or other identification code(s) as agreed from time to time between a TO and The Company may be used to identify location.

In the case of operations on the SHETL System, the circuit code(s) may be used in place of or in addition to the circuit name.

Boundaries

The boundary Plant (disconnector or circuit breaker) or disconnection point of the circuit at each geographical location will be identified. Wherever practicable the maximum possible amount of System should be released e.g. bus section and bus coupler switches should be included with a busbar and circuits isolated on busbar isolators. This will avoid the requirement for an additional TSC for work on additional equipment.

The relevant TO will have operational control of the boundary equipment. When operation of boundary equipment will have an impact on the live System the relevant TO will make The Company aware of the impending operation.

Any change in operational status of the boundary Plant and/or Apparatus (e.g. from open to closed) will be noted under Exceptions in part 3 when the circuit is handed back by the relevant TO.

In the case of a partial return of Plant / Apparatus, the operational status (open or closed) of the Plant and/or Apparatus that forms the new boundary from the National Electricity Transmission System will be noted under Exceptions.

Interface with other Transmission Owner/ User

Identification of a safety interface between the relevant TO, the Affected User(s) and / or other TO, shall be identified by the substation, Affected User name and circuit names. Four letter

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substation codes or other identification codes as agreed from time to time between a TO and The Company may be used where appropriate.

2.2 System Released from operational service

Once the items in part 2.1 have been checked and agreed by both Parties, formal release of the circuit shall be indicated by exchange of names date and time.

Part 3: Certificate Cancellation

When returning equipment to operational service, the relevant TO shall return the equipment fully available, with all safety precautions removed. Any exceptions shall be identified and communicated to The Company. This shall include any part of the TO's Transmission System remaining out of service and changes in Plant and/or Apparatus state. The TSC shall then be completed by The Company and the TO through an exchange of names, time and date, confirming the availability of the Plant and/or Apparatus for operational service and cancelling that TSC.

When the TSC is used solely to communicate an Operational Switching method, e.g. a complex re-switch not associated with an Outage, then completion of part 3 shall signify that the Operational Switching has been completed.

Appendix C: Standard Forms / Certificates

Transmission Status Certificate. Document No:

1. Activity		
1.1 System Identification		
1.2 Method		
4.0. Otaut Time		
1.3 Start Time Time Date	The Company	TO
2.1 System Released		
System IdentificationBoundaries		
Interface with other Tran	smission Owners/System Users	
2.2 System Released from	•	
Time Date	The Company	TO
3. Certificate Cancellation		
• Exceptions:		
Cancellation TimeTO	_ Date The Company	

TO Ref No:

E

nsmission Status Certificate. Document No:	TSC SPT00001	TO Ref No:
1. Activity		
Neilston SGT2 Maintenance		
1.1. System Identification		
Nielston – Windyhill 275kV cct Nielston 275/132kV SGT2 cct Neilston MC1		
1.2. Method		
NEIL2 de-load SGT2 cct		
 Switch out NEIL – WIYH 275kV cct de-energise from NEI 	L2	
NEIL2 Disconnect SGT2 cct		
• Switch in NEIL – WIYH 275kV cct energise from NEIL2		
1.3. Start Time		
Time Date The Company	10	
2.1. System Released		
System Identification		
NEIL 275/132kV SGT2 cct		
 Boundaries 		
Boundaries NEIL2 H13		
NEIL1 286 284		
Interface with other Transmission Owners/System Users		
N/A		
2.2. System Released from Operational Service		
Time Date The Company	TO	
3. Certificate Cancellation		
Exceptions:		

Cancellation Time_____ Date____ The Company_____

TO____

Fransmission Status Certificate.	Document No:	TSC SST00001	TO Ref No:

1. Activity	
Kintore – Tealing 1 XT1 275Kv Overhead Maintenance	
1.1 System Identification	_
Kintore – Tealing 1 XT1 275kV cct Kintore 275/132kV SGT3 Kintore –Tealing 2 XT2 275kV cct (for on load changeover)	
1.2 Method	
KINT2 complete on load changeover of XT2 cct to RB1	
KINT1 Deload SGT3 cct	
Switch out XT1 275kV cct_de-energise from KINT2	
KINT2 Disconnect XT1 cct	
KINT2 Energise SGT3 cct	
KINT1 Load SGT3 cct	
1.3 Start Time	
Time Date The Company TO	
2.1. System Released	
System Identification	
XT1 275kV cct	
Boundaries	
KINT2 L113	
TEAL2 L84 L86	
Interface with other Transmission Owners/System Users	
N/A	
2.2. System Released from Operational Service	
Time Date The Company TO	_
3. Certificate Cancellation	\dashv
Exceptions:	
Cancellation Time Date The Company	
TO	

Transmission Status Certificate. Document No: TSC SST00002 TO Ref No:

1. Activity		
-	75kV Overhead line main	t (SPT-SHETL Inter-connector cct)
1.1 System Identification		
Kintore – Kincardine XZ1 275kV	/ cct	
1.2 Method		
 Switch out XZ1 275kV cct d 	e-energise from KINC2 in liais	son with SPT (REF TSC - SPT 00002)
	v	,
1.3 Start Time		
	The Company	TO
	The Company	_10
2.1. System Released		
System Identification		
XT1 275kV cct		
• Boundaries		
KINT2 L26 L24		
Interface with other Transmis	sion Owners/System Users	
XZ1 275kV cct – with SI	•	
2.2. System Released from Ope	erational Service	
Time Date		то
711110	1110 001111111111	
3. Certificate Cancellation		
• Exceptions:		
Cancellation Time Dat	te The Company	
TO		

Transmission Status Certificate. Document No: TSC SPT00002 TO Ref No:

1. Activity
Kintore – Kincardine XZ1 275kV Overhead line maint (SPT-SHETL Inter-connector cct)
1.1 System Identification
Kintore – Kincardine XZ1 275kV cct
1.2 Method
 Switch out KINT – KINC XZ1 275kV cct de-energising from KINC2 in liaison with SHETL (REF TSC - SST 00002)
1.3 Start Time
Time Date The CompanyTO
2.1. System Released
System Identification
KINT- KINC XZ1 275kV cct
Boundaries
KINC2 L34 L36
Interface with other Transmission Owners/System Users
KINT – KINC XZ1 275kV cct with SHETL
2.2. System Released from Operational Service
Time Date The Company TO
3. Certificate Cancellation
• Exceptions:
Cancellation Time Date The Company TO

Post Fault Action Agreement Form . Document No: YYYXXXPFA TO Ref No:

2. Fault Contingency
2.1 Post Fault Switching System Identification
2.1 Fost Fault Switching System Identification
2.2 Method
2.3 Post Fault Action Agreement
TimeDateTOTO
1.3.1 Method to be invoked upon instruction from The Company.
·
1.4. Post Fault Action Cancellation
Cancellation Time Date The Company

		00=000=1	
Post Fault Action Agreemen	t Form. Document No	: SS10063PFA	TO Ref No:

1. Fault Contingency
Fault on the ERRO – BUMU EPN 132kV cct (during MD1 and MD2 cct fault outages)
1.1 Post Fault Switching System Identification
LYND 3: 2TO
CHAR1: 105
1.2 Method
LYND 3 : open 2TO CHAR 1 : Switch out Blocking on TCW cct at CHAR end only CHAR 1 : Close CB105 (to energise and load the LYND / BUMU CM1 / PCN 132kV cct)
1.3 Post Fault Action Agreement
Time Date The Company
1.3.1 Method to be invoked upon instruction from The Company.
1.4 Post Fault Action Cancellation
Cancellation Time Date The Company

Appendix D: Trigger Phrases

A formal understanding by all Parties of what each phrase used in the high-level code entails is vital to the safe and secure operation of the System. The trigger phrases shall encompass all actions and checks required, including operational liaison with Users, to fulfil both relevant TO responsibilities and those The Company responsibilities that will be discharged by the relevant TO in carrying out the operations specified in the method. For example, the responsibility to minimise voltage step change during a Operational Switching operation to deload a transformer or circuit. The following trigger phrases are included for clarification of the Operational Switching process.

De- Load / Load (-----) (Substation) load / deload (-----) kV circuit

This term acts as a trigger phrase to ensure all the required checks and actions are completed before an operation is carried out to close/ open a CB or other suitable device to load/de-load equipment, in accordance with procedures and safety rules. It will normally be a single action at one location, applying to a circuit end or transformer circuit.

De-Energise / Energise(-----)substation energise / de-energise (-----) kV circuit

This term acts as a trigger phrase to ensure all the required checks and actions are completed before an operation is carried out, in accordance with procedures and safety rules. It encompasses all the operations required, at one location, to de-energise or energise a circuit or equipment.

Switch in /Switch Out

Switch in /out (----) /(----) kV circuit energising / de-energising from (-----)substation

This term acts as a trigger phrase to ensure all the required checks and actions are completed before an operation is carried out, in accordance with procedures and safety rules. It encompasses all the operations required, at one or more locations, to de-load and de-energise, or energise and load a circuit or equipment, including which end to de- energise/energise from.

On load / Off load Select (-----) (Substation) On/Off load Select (-----) circuit(s) to (-----) BB

This term acts as a trigger phrase to ensure all the required checks and actions are completed before an operation is carried out to select a circuit or circuits from one busbar to another utilising either an on load or off load changeover. It encompasses all operations at a location to select a circuit or circuits from one busbar to another. The trigger phrase includes, where

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relevant, the operation to de-load and load the specified circuit(s) at the specified location to allow an off load changeover to be completed

Disconnect

(----) substation disconnect (----) circuit

This term acts as a trigger phrase to open the relevant device(s) to segregate equipment (for example a transformer) or circuit before restoring the associated circuit or equipment to service, when only required for Operational Switching time.

Reconnect

(----) substation reconnect (----) circuit

This term acts as a trigger phrase to close the relevant device(s) to segregate equipment (for example a transformer) or circuit before restoring the associated circuit or equipment to service, when only required for Operational Switching time.

Select to [Test/In/Out] [Protection / DAR / Protection Channels / Intertrip schemes / channels]

() circuit select to [Test/ In/Out First/Second/ Third/ Main protection/ Intertrip/ DAR]	
() substation select to test/in/ out First/Second/Third Main protection Zone 1 extension of	n
() kV circuit	
() Select to test/in/out First/Second/Third Main protection blocking on () kV circuit	
() select to test/in/out () operational intertrip scheme	

This term encompasses the operations required, at one or more locations, to select Protection Apparatus, protection channels, operational intertrip and DAR systems in and out of service, as well as change the settings of Protection Apparatus by Operational Switching blocking systems or Zone extension systems in and out of service. It implies that the relevant TO Control Engineer will Select the appropriate system and either switch it out of service or switch it in service.

Voltage Target

(-----) substation(s) Maintain Target Voltage xxx kV +/- deadband xxx kV

This term encompasses all the operations required, including selection of appropriate voltage targets on AVC schemes and tapping transformers, at one or more locations, to maintain System voltage within the deadband of the agreed target voltage, specified using a verbal recorded method.

Transformer Tapping

On (-----) Tap from position (x) to position (x)

This method encompasses the operation(s) required, including Operational Switching in/out controlling schemes, at one or more locations, to select a particular tap position on primary transmission equipment. (including Supergrid Transformer, Grid Transformer, Quad Booster and Reactor).

Trip and Auto Reclose Test

(-----) substation(s) Carry Out Trip & Auto Reclose Test on (-----) kV circuit from (----) Main Protection

This term acts as a trigger phrase to ensure all the required checks and actions are completed before an operation is carried out to trip the relevant circuit in accordance with procedures and

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safety rules. It encompasses all the operations required, at one or more locations, to cause operation of the appropriate protection.

Load to

Load (----) / (----) kV circuit to (amount/direction) at a ramp rate of (MW/minute)

This term acts as a trigger phrase to ensure all the required checks and actions are completed before an operation is carried out to change the load on a DC transmission line, in accordance with procedures and safety rules, and that the quantity, direction and speed of change are defined.

Appendix E: Abbreviations & Definitions

Abbreviations

CATO Competitively Appointed Transmission Owner

ESR Electricity System Restoration

HVSCC High Voltage System Change Certificate

OCL Operational Capability Limits

SPT SP Transmission plc

SHE-T Scottish Hydro Electric Transmission plc

TO Transmission Owner

STC System Operator Transmission Owner Code

TO Transmission Owner

TSC Transmission Status Certificate

Definitions

STC definitions used:

Apparatus

CATO Interface Point

Code Effective Date

Electricity System Restoration Standard National Electricity Transmission System

Network Operator The Company

NGET

Operational Capability Limits

Outage

Partial Shutdown

Party Plant

Protection

Restoration Contractor Restoration Plan

Services Reduction

Services Restoration Proposal

System

System Restoration

Total Shutdown

Transmission Owner

Transmission System

Grid Code definitions used:

Control Phase

Demand

Electricity System Restoration Standard

Event

Intertrip Apparatus

National Demand

Operation

Operational Effect

Operational Switching

Plant

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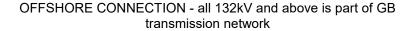
Programming Phase Protection Apparatus Safety Precautions System Restoration Region User

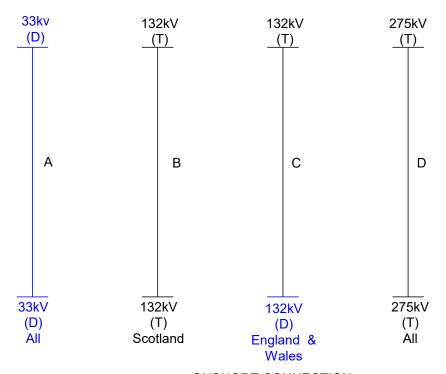
Definition used from other STCPs:

STCP 06-1 System Restoration

STCP 19-4 Commissioning Switching Programme STCP 11-1 The Company Outage Database

Appendix F: Examples of offshore to onshore connection arrangements





ONSHORE CONNECTION

132/275/400kV circuits are part of GB Transmission network in Scotland Only 275/400 circuits are part of GB Transmission network in England & Wales

T is a Transmission connection

D is a Distribution or DNO connection

Scenario A would be deemed Distribution as the equipment is operated at nominal system voltages below 132kV and therefore not subject to this procedure.

Scenarios B, C and D would be covered by this procedure