###### *STCP 09-2 Issue 006 Public and Site Safety*

##### *STC Procedure Document Authorisation*

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| **Party** | **Name of Party Representative** | **Signature** | **Date** |
| National Grid Electricity System Operator Ltd |  |  |  |
| National Grid Electricity Transmission plc |  |  |  |
| SP Transmission Ltd |  |  |  |
| Scottish Hydro-Electric  Transmission Ltd |  |  |  |
| Offshore Transmission Owners |  |  |  |
| Competitively Appointed Transmission Owners |  |  |  |

##### *STC Procedure Change Control History*

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| Issue 001 | 09/12/2004 | BETTA Go-Live Version |
| Issue 002 | 04/07/2005 | Issue 002 incorporating PA023 |
| Issue 003 | 05/10/2005 | Incorporating PA036 and PA037 |
| Issue 004 | 13/01/2006 | Incorporating PA040 |
| Issue 005 | 24/06/2009 | Issue 005 incorporating changes for Offshore Transmission |
| Issue 006 | 01/04/2019 | Issue 006 incorporating changes for National Grid Legal Separation |
| Issue 007 | Xx/xx/xxxx | Insert concept of Competitively Appointed Transmission Owners |

1. **Introduction**

## Scope

### This procedure applies to NGESO and each TO and describes the processes required to be established by NGESO and each TO:

### to maintain public and site safety on a TO’s Transmission System; and

### to ensure appropriate actions are taken in response to safety information received regarding a TO’s Transmission System.

### The following are outside the scope of this document:

### the application of safety measures for TO circuits released from service by a Transmission Status Certificate, which rests with the relevant TO and Users; and

### the arrangements necessary between NGESO and each TO to ensure the User compliance regarding safety matters, including Users’ Grid Code obligations.

### NGESO and each TO recognise that safety is of paramount importance and that all decisions and actions shall be taken in light of this.

### For the purposes of this document, the TOs are:

### NGET;

### SPT; and

### SHETL

### Competitively Appointed Transmission Owners

### All Offshore Transmission Licence holders as appointed by OFGEM

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.

## Objectives

### The objective of STCP 09-2 is to outline the roles and responsibilities of NGESO and each TO for the management of public and site safety, including those required for:

### safeguarding life;

### communications with the public;

### communications with the emergency services;

### communications with TO staff and contractors;

### re-energisation policy;

### site safety;

### potential switchgear over-stressing; and

### the number of circuit breaker operations permissible before maintenance.

# Key Definitions

## For the purposes of STCP09-2 (Public and Site Safety):

### **Event** and **Safety Rules** are 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.

# Public and Site Safety

## Safeguarding Life

### Upon receipt of a communication concerning site or public safety within their licensed area, a TO shall follow its risk assessment processes, operational procedures and guidelines to decide and, where appropriate, implement actions required to ensure and/or maintain acceptable levels of safety as far as reasonably practicable.

### When immediate action is required to safeguard life, Plant and/or Apparatus a TO may de-energise the necessary Plant and/or Apparatus without reference to NGESO or Users even if the de-energisation of such Plant and/or Apparatus will result in the loss of generation and/or Demand.

### When requested by a User to carry out an immediate action to de-energise User controlled plant in order to safeguard life, Plant and/or Apparatus a TO may operate the necessary Plant and/or Apparatus without reference to NGESO or another User even if the de-energisation of such Plant and/or Apparatus will result in the loss of generation and/or Demand.

### Where any actions identified pursuant to section 3.1.2 or 3.1.3 would, if implemented, result in the TO’s Transmission System operating outside of the relevant security standards, then the TO shall wherever practicable, liaise with NGESO as part of the risk assessment process before implementing such actions. The risk assessment process should take into account the potential wider safety and system impacts of these actions. For the avoidance of doubt, this does not preclude the TO from switching TO Plant and/or Apparatus out of service in order to safeguard life, Plant and/or Apparatus without the agreement of NGESO.

### A TO shall contact NGESO without delay following any actions taken pursuant to section 3.1.2, section 3.1.3 or section 3.1.4. Once contact is established with NGESO, the TO shall inform NGESO of the relevant Event(s) and any actions taken pursuant to section 3.1.2, section 3.1.3 or section 3.1.4. NGESO and the TO shall then agree any further post Event actions where appropriate. Following such consultation between NGESO and the TO, NGESO shall be responsible for any post Event liaison with Users, where appropriate, regarding the actions taken pursuant to section 3.1.2, section 3.1.3 or section 3.1.4.

### Where time allows liaison shall take place between a TO and NGESO to discuss and agree any actions on that TO’s Transmission System required to safeguard life, Plant or Apparatus. Such agreed actions shall be implemented in accordance with STCP 01-1: Operational Switching. NGESO will be responsible for liaising with User(s), where applicable and where time allows, to mitigate the impact of any such actions upon User(s), before any release of TO Plant and/or Apparatus from operational service pursuant to this section 3.1.6.

## Communications

### Each TO is responsible for the management of all communications regarding public and site safety on the TO’s Transmission System between that TO and members of the public, the emergency services and local authorities. All public emergency calls shall be directed to the relevant TO call centre or TO control room as appropriate.

### When NGESO receives information that may have site or public safety implications on a TO’s Transmission System, NGESO shall advise the relevant TO immediately. For the avoidance of doubt, the relevant TO shall be responsible for the management of further communications where required regarding site or public safety following the notification of information pursuant to this section 3.2.2 by NGESO to the relevant TO.

### When a TO receives information that may have site or public safety implications on another TO’s Transmission System, the TO shall advise the other TO immediately. For the avoidance of doubt, the TO that owns the TO’s Transmission System impacted by the information relating to site or public safety shall be responsible for the management of further communications where required regarding site or public safety following the notification of information pursuant to this section 3.2.3 by a TO to the other TO.

## Re-energisation Policy

### Following the automatic or manual de-energisation of a TO’s Plant and/or Apparatus the TO shall assess and determine the availability of such Plant and/or Apparatus in accordance with the relevant TO policy and procedures. These TO policies and procedures are outlined in Appendix A of STCP 02-1: Alarm Event and Fault Management. The NGESO, shall,provide guidance to the TO as to the risks and implications to the wider system of the circuit remaining out of service.

### When the TO determines that such de-energised Plant and/or Apparatus is available for re-energisation the TO shall inform NGESO as soon as reasonably practicable in accordance with STCP 02-1 Alarm and Event Management and STCP 04-4 Provision of Asset Operational Information.

## Site Safety

### All site safety issues other than those contained within STC Section C, Part One, Paragraph 6 are the responsibility of each TO. Such site safety issues for which each TO is responsible include, but are not limited to:

### Safety Rules;

### procedures relating to site safety issues;

### authorisations; and

### site access restrictions.

### Each TO shall notify NGESO, of all relevant safety bulletins, technical limitations, operational restrictions, special network arrangements or any other related document as appropriate at each site. NGESO and each TO shall ensure compliance with these notifications in the planning and instruction of actions in accordance with STCP 01-1: Operational Switching.

### NGESO shall be responsible for ensuring that the National Electricity Transmission System is operated in such a way that Plant and Apparatus is not operated or potentially (with respect to licence security standards) operated outside its TO specified (normal & enchanced capability) rating. The TO will support this process through the provision of the Services Capability Specification, changes to the Operational Capability Limits and other operational information known to the TO and agreed as relevant with NGESO.

## Switchgear

### NGESO shall inform the relevant TO of any User’s permanent or temporary permission to operate that User’s switchgear in excess of its specified normal or enhanced capability rating as appropriate and of any restrictions or safety bulletins that shall be applied when operating that User’s switchgear in excess of its specified normal or enhanced capability rating.

## Management of Fault Levels

3.6.1 In assessing compliance of fault levels against the fault capabilities of breakers and substations the following conditions apply

3.6.2 NGESO shall use Good Industry Practice in creating and running fault level studies in respect of the expected maximum fault levels on each TO Transmission System. These studies shall be carried out at least daily. The studies shall also be updated (applying Good Industry Practice) by NGESO whenever the condition of, or the running arrangements of the National Electricity Transmission System have changed such that the previous expected maximum fault levels on a TO Transmission System are no longer valid.

* + 1. NGESO shall share the results of a daily peak study for each TO’s Transmission System on a daily basis with the relevant TO. NGESO shall also share the results of any updated study whenever reasonably requested by a TO. Sharing of results will provide each TO with NGESO’s expectation of fault levels and enable comparison with the TO’s own fault level calculations.
    2. Under these conditions, the Parties agree that NGESO shall be compliant with the requirement to operate each TO’s Transmission System within the technical limits of the Site Capability Specification (SCS) and any relevant OCLs in respect of fault levels provided that the results of these studies show that Transmission System is being operated such that the fault levels are less than 100% of the relevant technical limits. If comparison of the NGESO results and a TO’s calculations cause the TO concern, then the TO will explicitly submit OCLs for fault capability with an appropriate safety margin, until such concerns are mutually resolved.

## Circuit Breaker Operations

### The TO shall monitor the number of circuit breaker operations and use reasonable endeavours to advise NGESO of any circuit breaker that is approaching the maximum number of circuit breaker operations. An overview of the TO policies and procedures used to manage this process is contained within Appendix B of STCP 02-1: Alarm and Event Management.

### To increase the number of permissible operations above the advised maximum level of circuit breaker operations, NGESO must request and be granted permission from the relevant TO. A record of such agreement shall be logged by NGESO and the relevant TO.

### ***Appendix A: Process Diagrams***

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: Abbreviations & Definitions*

***Abbreviations***

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| CATO  NGET  SPT | Competitively Appointed Transmission Owners  National Grid Electricity Transmission  SP Transmission Ltd |
| SHETL | Scottish Hydro Electric Transmission Ltd |

TO Transmission Owner

***Definitions***

**STC definitions used:**

Apparatus

Code Effective Date

NGESO

Operational Capability Limits (OCL)

Plant

Services Capability Specifications (SCS)

Transmission System

Users

**Grid Code definitions used:**

Demand

Event

Safety Rules

**Definition used from other STCPs:**

|  |  |
| --- | --- |
| Transmission Status Certificate | STCP 01-1 Operational Switching |