

# STC Amendment Proposal Form

CA049

## **1. Title of Amendment Proposal**

Amendment to Section K, to provide OFTOs with the capability to respond to Reactive Power Instructions within 2 minutes

## **2. Description of the Proposed Amendment (mandatory field)**

Section K of the STC will be amended to oblige offshore transmission systems to provide OFTOs with the capability to change the reactive output at the Interface Point in accordance with an instruction given by NGET within 2 minutes of receiving that instruction

## **3. Description of Issue or Defect that Proposed Amendment seeks to Address (mandatory field)**

To keep voltages within limits as system conditions change, the System Operator instructs Generators to vary the reactive power at the Grid Entry Point. The Grid Code places an obligation on Generators to implement these instructions within 2 minutes of receipt.

As the capacity of offshore transmission systems increases, NGET will become increasingly reliant on the OFTO's reactive capability at the Interface Points to control voltages on the onshore network. As this reactive capability will be displacing the capability provided by onshore Generators, OFTOs will be required to vary the reactive output within 2 minutes of an instruction being received. An amendment to STCP 01-1 (PA065) has been proposed which will place an obligation on OFTOs to meet this deadline. However for this to be possible the offshore transmission systems must be capable of being operated in this way and therefore it is proposed to include an obligation to this effect in Section K of the STC.

## **4. Impact on the STC (information should be given where possible)**

### Indicative Legal Text

Amendment to Section K:

### **REACTIVE CAPABILITY AND VOLTAGE CONTROL**

2.1 All Offshore Transmission Systems must be capable of delivering Reactive Power at the Interface Point as described in paragraphs 2.2 and 2.3 of Section K below. The Reactive Power capability that an Offshore Transmission System must be able to provide at the Interface Point may be delivered using a combination of Plant owned by the Offshore Transmission Owner concerned and Plant owned by a Generator or Generators connected to that Offshore Transmission System. Where Generator Plant is out of service, these Reactive Power capability requirements will be reduced pro rata to the maximum Active Power capability of Generator Plant in service.

***2.2 All Offshore Transmission Systems must be designed to enable the OFTO to comply within two minutes of an instruction being received from NGET relating to a change in Reactive Power or voltage set point at the Interface Point***

**5. Impact on other frameworks e.g. BSC, CUSC, Grid Code** *(information should be given where possible)*

None identified

**6. Impact on Core Industry Documentation** *(information should be given where possible)*

None identified

**7. Impact on Computer Systems and Processes used by STC Parties** *(information Offshore transmission networks which have been built or at an advanced stage of design may not be capable of meeting the obligation. Therefore a derogation against modification of a start date for obligation to become active may be required.*

None identified

**8. Details of any Related Modifications to Other Industry Codes** *(where known)*

An amendment to STCP 01-1 (PA065) has been proposed which will place an obligation on OTFOs to respond to an instruction to change reactive output within 2 minutes

**9. Justification for Proposed Amendment with Reference to Applicable STC Objectives** *(mandatory field)*

STC Objectives

(b) development, maintenance and operation of an efficient, economical and co-ordinated system of electricity transmission;

The modification will ensure that offshore transmission networks are built in way which will enable NGET to use the reactive capability at the interface point in a timely manner for the purpose of managing voltages on the onshore network. This will mitigate the cost of managing onshore voltages by avoiding :-

- Running generation for voltage control
- Installing additional compensation equipment onshore

<b>Details of Proposer</b> Organisation's Name	Brian Taylor National Grid
Capacity in which the Amendment is being proposed (i.e. STC Party or other Party as designated by the Authority pursuant to STC section B7.2.2.1 (b))	STC Party

<b>Details of Proposer's Representative</b> Name Organisation Telephone Number Email Address	Brian Taylor National Grid Electricity Transmission plc 01189 363458 brian.taylor@nationalgrid.com
<b>Details of Representative's Alternate</b> Name Organisation Telephone Number Email Address	Audrey Ramsay National Grid Electricity Transmission plc 01189 363633 audrey.ramsay@nationalgrid.com
<b>Attachments (Yes/No):</b>	

**Notes:**

1. Those wishing to propose an Amendment to the STC should do so by filling in this "Amendment Proposal Form" that is based on the provisions contained in Section 7.2 of the STC.
2. The Committee Secretary will check that the form has been completed, in accordance with the requirements of the STC, prior to submitting it to the Committee. If the Committee Secretary accepts the Amendment Proposal form as complete, then she/he will write back to the Proposer informing them of the reference number for the Amendment Proposal and the date on which the Committee will consider the Proposal. If, in the opinion of the Committee Secretary, the form fails to provide the information required in the STC, then he/she may reject the Proposal. The Committee Secretary will inform the Proposer of the rejection and report the matter to the Committee at their next meeting. The Committee can reverse the Committee Secretary's decision and if this happens the Committee Secretary will inform the Proposer.

The completed form should be returned to:

Lucy Hudson  
STC Committee Secretary  
Regulatory Frameworks  
National Grid  
National Grid House  
Warwick Technology Park  
Gallows Hill  
Warwick, CV34 6DA

Or via e-mail to: [Lucy.Hudson@nationalgrid.com](mailto:Lucy.Hudson@nationalgrid.com)