STCP 04-4 Version 006 Provision of Asset Operational Information

STC Procedure Document Authorisation

Party	Name of Party Representative	Signature	Date
The Company			
National Grid Electricity Transmission plc			
SP Transmission Ltd			
Scottish Hydro-Electric Transmission Ltd			
Offshore Transmission Owners			

STC Procedure Change Control History

Issue 001	23/12/2004	BETTA Go-Live Version
Issue 002	20/04/2005	Issue 002 incorporating STCAP001
Issue 003	25/10/2005	Issue 003 incorporating PA034 & PA037
Issue 004	24/06/2009	Issue 004 incorporating changes for Offshore Transmission
Issue 005	01/04/2019	Issue 005 incorporating changes for National Grid Legal Separation
Issue 006	25/04/2023	Issue 006 incorporating use of 'The Company' definition as made in the STC PM0130
Issue 007	23/06/2023	Issue 007 incorporating changes to facilitate the Electricity System Restoration Standard

1 Introduction

1.1 Scope

1.1.1 This procedure covers the Parties' responsibilities with respect to the provision of Plant and/or Apparatus operational information where there is any issue or changes to Operational Capability Limits (OCLs) including:

- Any Services Reduction to a TO's Transmission Services, which includes:
  - a) any change to the ratings associated with a TO's Transmission System; and
  - b) any technical limitations on Plant and/or Apparatus that could affect the operation of a TO's Plant and/or Apparatus.
- Any enhancements to the OCLs made available by the TO or requested by The Company.

1.1.2 For the avoidance of doubt, this procedure specifically excludes the obligations and processes associated with the provision of standing data, control telephony and of real time data.

1.1.3 This procedure specifically excludes the obligations and processes covered by the information exchange associated with STCP 11-1(Outage Planning).

1.1.4 This procedure specifically excludes the obligations and processes covered by the information exchange, associated with STCP 9-2 (Site and Public Safety) and STCP 3-1 (Post Event Analysis).

1.1.5 Operational information covered by this procedure is:

- OCLs which apply to Services Reductions or enhancements to Normal Capability Limits (NCL), including ratings and technical limitations;
- miscellaneous operational information that may impact on the operation of the TO's network; and,
- operational safety bulletins.

1.1.6 This document applies to The Company, as defined in the STC and meaning the licence holder with system operator responsibilities, and TOs. For the purposes of this document, the TOs are:

- NGET;
- SPT ;
- SHETL; and
- 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

1.2 Objectives

1.2.1 The process specifies the following:

- the responsibilities of The Company and the TOs in relation to the provision of asset operational information that may impact on the operation of the TOs' Transmission System;
- the requirements for the provision of other operational information; and,
- the means of communication to be used in the provision of operational information.

1.3 Background

1.3.1 Where The Company agrees an Outage, the relevant Transmission Services are deemed to be wholly withdrawn, where not otherwise specified. Any further specification of OCLs for outages is covered in STCP 11-1 (Outage Planning).

1.3.2 A TO is responsible for notifying The Company of any Services Reduction associated with its Transmission System. Initially the TO will inform The Company of the Service Reduction and then use the Operational Capability Limit Record (OCLR, as per Appendix B) to confirm all Services Reductions to The Company.

1.3.3 The TO is responsible for notifying The Company of any issue or any change to an OCL associated with that TO's Transmission System.

1.3.4 The Company is responsible for notifying the TO of any change to the operational integrity of Plant and/or Apparatus of which The Company is aware that could affect the operation of the TO's Plant and/or Apparatus. This includes any Event or circumstance that could affect the TO's ability to provide Transmission Services.

1.3.5 A TO may notify The Company of OCLs that may exceed the NCLs, and of any conditions that apply to the use of such OCLs.

2 Key Definitions

2.1 For the purposes of STCP 4-4:

2.1.1 **Enhanced OCL**. means the temporary assignment of a higher OCL to a specific item of Plant and/or Apparatus.

2.1.2 **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.

2.1.3 **OCLR** is the document produced by the TO as per Appendix B.

2.1.4 **Operational Effect** 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.

3 Procedure

3.1 Rating Limitations and Plant & Equipment Technical Limitations pertaining to Operational Capability Limit Records

3.1.1 Where the TO becomes aware of the need to issue, modify or cancel an OCL on any item of Plant and/or Apparatus that may affect the operation of its Transmission System the TO shall:

- verbally inform The Company of the OCL and, if deemed appropriate by the TO, any other TO;
- provide The Company with a Service Restoration Proposal unless otherwise agreed;
- confirm as soon as practicable to The Company (and if deemed appropriate by the TO, any other TO) any enduring changes to an OCL through an OCLR. The OCLR of the issued, modified or cancelled OCL will include any limitations or conditions that apply; and,
- along with The Company make a record of the issue, modification or cancellation of the OCL in accordance with internal procedures.

3.1.2 When informed of a change to an OCL, The Company shall immediately take such action as necessary to return the TO's Plant and/or Apparatus to the new OCL.

3.1.3 When The Company becomes aware of any Event or circumstance that could affect the TO's ability to provide Transmission Services, they shall inform the relevant TO(s).

3.1.4 Where The Company has exceeded an OCL, they shall inform the TO as soon as practicable. Where appropriate, The Company and the TO shall issue a report as described in STCP3-1 (Post Event Analysis). If the TO becomes aware that The Company has exceeded an OCL, that TO shall inform The Company.

3.2 General Conditions with respect to OCLR

3.2.1 For the avoidance of doubt, there may be more than one OCLR in respect of any piece of Plant or Apparatus.

3.2.2 The TO shall use all reasonable endeavours to ensure that two or more OCLRs in place simultaneously on the same piece of Plant or Apparatus contain consistent information. If two or more such OCLRs are in place all conditions shall apply simultaneously, i.e. the most restrictive condition shall apply.

3.2.3 If either a TO or The Company becomes aware that either any information in an OCLR is unclear, or that apparently inconsistent OCLRs for the same Plant or Apparatus are in place, they shall promptly inform the other Party. The TO shall, as soon as reasonably practicable, clarify the relevant OCLRs and remove any apparent inconsistencies. This may include, as appropriate, issuing new OCLRs and cancelling existing OCLRs.

3.3 Assessment of an Enhanced OCL

3.3.1 An Enhanced OCL is issued where the TO considers it is acceptable to operate Plant and /or Apparatus above its NCL (which may include limitations and restrictions). In such cases, the TO shall also assign a default OCL, which shall become effective if the Enhanced OCL is suspended because those limitations and restrictions can no longer be maintained.

3.3.2 An Enhanced OCL may be advised by the TO or requested by The Company.

3.3.3 The Company may request a temporary enhancement to the NCL (or current OCL) that requires the TO to assign a higher OCL to a specific item of Plant and/or Apparatus. This shall be achieved by the TO in its discretion assigning an Enhanced OCL, which may contain conditions and limitations as detailed in the relevant OCLR. Where The Company considers it necessary to have an Enhanced OCL, The Company shall request permission from the TO using the proforma in Appendix C.

3.3.4 On receipt of a request for an Enhanced OCL, the TO shall carry out an initial assessment and inform The Company of its intention or otherwise to proceed with a formal assessment.

3.3.5 The Company shall support the TO by providing information and data, where necessary, to complete the formal assessment. The TO shall be responsible for all aspects of the formal assessment and shall ensure that it is carried out in line with Good Industry Practice.

3.3.6 On completion of the formal assessment, the TO shall advise The Company, and other TO if appropriate, of their decision, confirming or otherwise, acceptance of the request for an Enhanced OCL, and complete section 2 of the proforma in Appendix C.

3.3.7 In the case of acceptance, the TO shall complete an OCLR as described in section 3.4.

3.3.8 The Company shall inform the relevant TO of any User's permission to operate their Plant and/or Apparatus in excess of its capability, in line with User specified ratings either permanently or temporarily and any restrictions applied.

3.4 Creation of an Enhanced OCL

3.4.1 To create an Enhanced OCL, the TO shall complete an OCLR which will include, any limitations and restrictions that may apply to the relevant Plant or Apparatus, and the applicable default OCL that will apply on suspension of the Enhanced OCL upon notice

from the TO. Consideration should be given to cancelling any outstanding OCLRs on the Plant or Apparatus if it improves the clarity of the new enhanced OCLR.

3.4.2 As a condition of an Enhanced OCL, the TO may stipulate that on each and every occasion the Enhanced OCL is to be used, it must first be confirmed by the TO.

3.4.3 The TO shall manage all site issues including, but not limited to, access restrictions and technical restrictions arising from the TO formal assessment, associated with operation at the Enhanced OCL.

3.4.4 The TO can require that the use of the Enhanced OCL be withdrawn, either temporarily or permanently.

3.4.5 The TO can specify in the conditions and/or limitations of the OCLR a duration for the enhanced OCLR to be effective for. Once this time limit has been reached The Company shall take such action as necessary to return Plant and/or Apparatus to the NCL, or default OCL stated on the OCLR.

3.5 Temporary Suspension of Enhanced OCLs

3.5.1 Where temporary suspension of the Enhanced OCL is required by the TO, the TO shall notify The Company and if appropriate the other TO. The Company shall immediately take such action as necessary to return the operation of the Plant and/or Apparatus to its default OCL.

3.5.2 During temporary suspension of an Enhanced OCL, the form in Appendix B and/or Appendix C shall not be cancelled. Temporary suspension should only be used where the duration is not expected to exceed 12 hours.

3.5.3 As soon as the operation of the Plant and/or Apparatus has been returned to its default OCL or below, The Company shall inform the TO and the temporary suspension will be deemed to have taken place.

3.5.4 Both The Company and the TO shall agree and record the cancellation of any temporary suspension once the TO has advised The Company that operation can resume, in line with the Enhanced OCL as detailed on the form in Appendix B and/or Appendix C, as appropriate.

3.6 Permanent Cancellation of Enhanced OCLs

3.6.1 Where permanent cancellation of an Enhanced OCL is required by a TO, that TO shall notify The Company and other TO if appropriate. A new OCLR should be issued before or simultaneously with the cancellation of the enhanced OCLR detailing any continuing OCL on the Plant and Apparatus or confirming that the Plant and Apparatus is returning to its NCL. The Company shall take such action as necessary to return Plant and Apparatus to the level stated in the new OCLR prior to cancellation of the enhanced OCLR.

3.6.2 Where The Company has taken action in line with 3.6.1 and the relevant TO has issued any appropriate continuing OCL both Parties shall agree and confirm the cancellation of the enhanced OCL. The Company and the relevant TO shall cancel the OCLR that contained the enhanced OCL by completing the cancellation section of the form in Appendix B, specifying a return to the NCL or continuing OCL. Section 3 of the form in Appendix C shall then be completed by both Parties. Both The Company and the relevant TO shall record the cancellation of any enhanced OCL.

3.7 Management of Outstanding Operational Capability Limitations

3.7.1 Where The Company is in receipt of an OCLR that has been issued for a period of 24 hours or more, extending beyond the Control Phase, The Company may:

- Discuss with the TO, the provision of a revised rating schedule, in addition to the OCLR, that would take into account the change for the duration of the limits where appropriate.
- Discuss with the TO the OCL change, the current Service Restoration Proposal and if appropriate, the need for an Outage or other actions to clear the limitations.

3.7.2 Where The Company is in receipt of an OCL that has been outstanding for a period longer than indicated on the Service Restoration Proposal, The Company may discuss the OCL, the Service Restoration Proposal, and if appropriate the need for an Outage or other actions to clear the OCL.

3.7.3 When an OCL is permanent, the NCL and Services Capability Specification shall be revised by the relevant TO.

3.8 Operational Safety Bulletins

3.8.1 When the TO is in receipt of an operational safety bulletin, that may have an Operational Effect on a TO's Transmission System, the TO shall:

- inform The Company and, if deemed appropriate by the TO, any other TO;
- where agreed, fax a copy of the operational safety bulletin to The Company and, if appropriate, to the other TO; and
- act on the information provided in the operational safety bulletin and STCP9-2 (Site and Public Safety).

3.8.2 Where The Company is in receipt of an operational safety bulletin that may have an Operational Effect on the TOs' Transmission System, The Company shall:

- inform the relevant TO(s);
- where agreed, fax a copy of the operational safety bulletin to the TO(s); and
- act on the information provided in the operational safety bulletin and in accordance with STCP9-2 (Site and Public Safety).

3.9 Miscellaneous information

3.9.1 Where a TO is in receipt of any information, that it reasonably believes may have an Operational Effect on the TOs' Transmission System (for example the inability to enact a Restoration Plan), the TO shall discuss the effect of the information with The Company and, if deemed appropriate, the other TO.

3.9.2 Where The Company is in receipt of miscellaneous information, that may have an Operational Effect on the TOs' Transmission System (for example the inability to enact a Restoration Plan), The Company shall discuss the effect of the information with the relevant TO(s).

Appendix A: Flow Diagram

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.

STCP 4-4 Provision of Asset Operational Information
External
SO
TO
Enhanced Operational Capability Limits
TO initiated changes
SO requests a temporary enhancement to the NCL using the Enhanced OCL Request Record (Appendix C)
TO receives request for an Enhanced OCL. Carry out an initial assessment and inform SO of intention or otherwise to undertake formal assessment
SO informed of TO's intention or otherwise to undertake formal assessment
Is the TO to carry out a formal assessment?
Yes
Does TO require information and/or data for formal assessment
Yes
No
No
If necessary, request information and/or data to assist in TO's formal assessment
Receive request for information and/or data to assist in the TO's formal assessment. Provide information and/or data
Receive information and/or data, if provided. Complete formal assessment.
Advise SO and other TO, if appropriate, acceptance or otherwise of the request for an Enhanced OCL and complete section 2 of Appendix C
Receive section 2 of Appendix C
END
No
Is there need to create an Enhanced OCL?
Other TO(s) informed
Yes
Go to A
Inform TO of any User's permission to operate their Plant and/or Apparatus in excess of its capability
Receive notification of User's permission to operate Plant and/ or Apparatus in excess of its capability

STCP 4-4 Provision of Asset Operational Information
External
SO
TO
Creating an Enhanced OCL
A
TO advises that an Enhanced OCL is required and completes an OCLR (Appendix B) advising of ratings limitation and restrictions.
SO receives OCLR and operate the Plant and/or Apparatus under the revised OCL taking account of the limitations and restrictions that may have been included in the OCLR. The operation at this level shall continue until the specified time limit expires or until OCLR is withdrawn.
Is there a need to cancel an outstanding OCLR on the Plant and Apparatus?
Yes
Go to B
No
TO manages all site issues associated with the operation of the Enhanced OCL
Is there a need to withdraw the Enhanced OCL?
No
Yes
Is there a requirement within OCLR to confirm use of Enhanced OCL when used?
No
End
Yes
Does SO need to use the Enhanced OCL?
No
Yes
Confirm use of Enhanced OCL with TO
TO receives request to use Enhanced OCL and provides response to that request to SO
Receives confirmation or otherwise to use Enhanced OCL

STCP 4-4 Provision of Asset Operational Information
External
SO
TO
Withdrawal of Enhanced OCL
B
Is withdrawal of OCL a temporary withdrawal?
Yes
No
Notify SO and, if appropriate, other TO
Notified of temporary withdrawal of OCL. Take action to return Plant and/or Apparatus to its default OCL or below. Inform TO that this has taken place
Receive notification that temporary withdrawal has occurred. Advise SO when operation can resume at the Enhanced OCL
Advised that operation can resume at Enhanced OCL
Agree cancellation of temporary suspension
Record the cancellation of the Enhanced OCL
Record the cancellation of the Enhanced OCL
Notify SO of permanent cancellation of Enhanced OCL. Create a new OCLR detailing any continuing OCL or confirm return to NCL. Send OCLR to SO.
Receive notification of permanent cancellation and receive continuing OCLR or NCL. Take action to return Plant and/or Apparatus to the level stated in the continuing OCLR or NCL. This can be done prior to receipt of cancelled OCLR
Agree cancellation of OCLR advising the Enhanced OCL
Complete the cancellation section of the OCLR relating to the Enhanced OCL. Complete Section 3 of Appendix C and record the cancellation of the Enhanced OCL
Complete the cancellation section of the OCLR relating to the Enhanced OCL. Complete Section 3 of Appendix C and record the cancellation of the Enhanced OCL

STCP 4-4 Provision of Asset Operational Information
External
SO
TO
Management of Operational Capability Limits
OCL issued for a period of 24 hours or more
SO and TO discuss OCL and if appropriate the need for outage or other actions to clear de-rating/limitation
SO and TO may discuss provision of new rating schedule
SO receives revised proforma
As agreed TO provides new revised proforma
SO in receipt of a OCL that has been outstanding for a period longer than indicated in on the records resolution priority section
SO and TO discuss OCL and if appropriate the need for an outage or other actions to clear OCL.

STCP 4-4 Provision of Asset Operational Information
External
SO
TO
Operational Safety Bulletins (OSB)
Receive information on OSB that may have an Operational Effect on the TO's Transmission System
TO in receipt of OSB that may have an Operational Effect on its Transmission System. Inform SO and, if appropriate, the other TO
Other TO(s) informed of OSB
Where agreed, fax a copy of the OSB to SO and, if appropriate, the other TO. Act in accordance with the OSB and STCP9-2
Receive OSB
SO in receipt of OSB that may have an Operational Effect on the TO's Transmission System. Inform relevant TO(s)
Receive information on OSB that may have an Operational Effect the TO's Transmission System
Where agreed, fax a copy of the OSB to relevant TO(s). Act in accordance with the OSB and STCP9-2
Receive OSB

Appendix B1: Onshore TO Standard Forms/Certificates

Number	

Operational Capability Limits Record

Number prefix "B" NGET "C" SPT "D" SHETL "E" The Company

Issuing unit (tick) #		The NGET		Company		SPT		SHETL	TL		Rating	
									The Company USE ONLY			

Substation name and voltage #	name	voltage
Circuit		

#	Plant Group (tick one group only)
	Circuit breakers / Switch disconnectors
	Disconnectors
	Instrument Transformer
	Overhead Line
	Cable
	Protection
	Reactors
	Substation Auxiliaries
	SVCs / MSCs / Synch Comps
	Transformers / Quad Boosters
	Others

	Date	Time	Issued on behalf of T.O.	Acknowledged on behalf of The Company
Issue				
Cancellation				

Service Restoration Proposal - Description		Immediate Consideration
		Next Outage
		Permanent

Description of OCL
Conditions and limitations.
Default OCL if applicable

Change to Rating if applicable			
Original pre-fault continuous rating		Original post-fault continuous rating	
New pret-fault continuous rating		New post-fault continuous rating	
New enhanced rating		Duration (mins)	

Appendix B2: Offshore TO Standard Forms/Certificates

Number	

Operational Capability Limits Record

OFFSHORE

Number prefix "E" The Company ; "F+Identification Code"

Issuing unit (tick) # The Company ☐ OFFSHORE ☐ Offshore TO company name : ……	TL ☐ Rating ☐ The Company USE ONLY

Platform/ Substation name and voltage #	name	voltage
Circuit		

# Plant Group (tick one group only)	
	Circuit breakers / Switch disconnectors
	Disconnectors
	Instrument Transformer
	Overhead Line
	Cable
	Protection
	Reactors
	Substation Auxiliaries
	SVCs / MSCs / Synch Comps
	Transformers / Quad Boosters
	Others

	Date	Time	Issued on behalf of T.O.	Acknowledged on behalf of The Company
Issue				
Cancellation				

Service Restoration Proposal - Description		Immediate Consideration
		Next Outage
		Permanent

Description of OCL
Conditions and limitations.
Default OCL if applicable

Change to Rating if applicable			
Original pre-fault continuous rating		Original post-fault continuous rating	
New pre-fault continuous rating		New post-fault continuous rating	
New enhanced rating		Duration (mins)	

Supporting Information:

Completion of the Operational Capability Limits Record

B.1 The numbers will be prefixed by a letter to denote the issuing Control location

B.2 On Appendix B1 this will be:

B for National Grid Electricity Transmission plc

C for SP Transmission Ltd.

D for Scottish Hydro-Electric Transmission Ltd.

E for The Company

On Appendix B2 this will be:

E for The Company

F for Offshore TO + agreed [three letter identification] code

B.3 The TO will complete the Issuing unit box by ticking the appropriate box or filling in the TO company name.

B.4 On receipt of the OCLR The Company will tick the relevant box to indicate that the Operational Capability Record relates to a technical limitation or rating

B.5 The TO will tick the correct plant group applicable to the problem (one box only)

B.6 The TO will fill in the relevant sections of Platform/Substation name/voltage and Circuit, together with the details of the problem and or supporting information.

B.7 The TO will fill in the Service Restoration Proposal Description section where appropriate providing details on resolution of the problem and indicate that it is for immediate consideration, next outage or is permanent where available.

B.8 The TO will complete, where relevant, details of the original pre-fault and post-fault ratings, and the new pre-fault and post-fault ratings.

B.9 The TO will then fax the form to The Company, and the other TO where necessary.

B.10 On receipt of the Operational Capability Limit Record, The Company will discuss its contents with the relevant TO and tick the relevant box to indicate that the Operational Capability Record relates to a technical limitation or rating.

B.11 The Company will acknowledge receipt of the OCLR including time and date, both parties filling in the corresponding boxes on each copy of the form.

B.12 When modifying an OCL, the TO will cancel the original OCLR before issuing a new OCLR where the equipment and affected parameter are the same

Appendix C

Enhanced OCL Request Record

REQUEST FOR ENHANCED PLANT AND APPARATUS OCL.

PART 1.

To:_____ Company_____

From:_____(The Company)

The Company request permission to operate the following Plant and Apparatus

at _____Platform / Substation at an enhanced OCL for the following reasons:-_

_____
_____
_____

The required OCL is :-
Applicable start time for enhanced OCL

Time:_____ Date:_____

Applicable end time for enhanced OCL

Time:_____ Date:_____

Requested by:_____ Time:_____ Date:_____
(On behalf of The Company)

PART 2.

I grant / refuse permission for The Company to operate the Plant and Apparatus detailed above at the enhanced OCL. Any limitations and/or restrictions that apply are detailed in Operational Capability Limit Record No…….:-

_____
_____
_____

Signed by:_____ Time:_____ Date:_____
(On behalf of TO)

PART 3.

Cancellation of permission for The Company to operate the Plant and Apparatus detailed above in excess of their default OCL.

Signed by:_____ Time:_____ Date_____
(On behalf of TO)

Acknowledged by:_____ Time:_____ Date_____
(On behalf of The Company)

Appendix D: Abbreviations & Definitions

Abbreviations

SHETL	Scottish Hydro-Electric Transmission Limited
SPT	SP Transmission Limited
STCP	System Operator –Transmission Owner Code Procedure (as defined as Code Procedures in the STC)
TO	Transmission Owner

Definitions

STC definitions used:
Apparatus
Good Industry Practice
Normal Capability Limits
The Company
NGET
Operational Capability Limit (OCL) Outage
Party
Plant
Restoration Plan
Services Capability Specification
Services Reduction
Services Restoration Proposal
Transmission Services
Transmission System

Grid Code definitions used:
Control Phase
Event
Operational Effect