STCP Amendment Proposal Form

PA044

1. Title of Amendment Proposal

Changes to STCP 19-4 Issue 004 Commissioning and Decommissioning.

2. <u>Description of the Proposed Amendment</u> (mandatory field)

It was requested by the TO:-

- i) to address the lack of emphasis on decommissioning activities in the procedure
- ii) to use the established SO/TO data exchange control process to simplify where practicable the documentation layout and issue within this procedure
- iii) to recognise the current use of the Transmission System access meeting as a means of monitoring commissioning documentation progress within this procedure.

3. <u>Description of Issue or Defect that Proposed Amendment seeks to Address</u> (mandatory field)

The proposed amendments seek:-

- i) to address the lack of emphasis and to refine the interface between the SO and TO in the (primarily) decommissioning process.
- li) to simplify the HVSCC document layout and issue process by using the SO/TO data exchange control processes put in place since Go-Live
- lii) to properly reflect the use that takes place of the monthly SO/TO Transmission System access meeting as a means of monitoring progress on commissioning and decommissioning documentation
- iv) provide additional clarification on the process detail where experience has shown this to be required.
- **4.** <u>Impact on the STC</u> (information should be given where possible)

The proposed amendment would require changes to STCP 19-4 (would become issue 004).

5. <u>Impact on other frameworks e.g. CUSC, BSC</u> (information should be given where possible)

None.

6. <u>Impact on Core Industry Documentation</u> (information should be given where possible)

None.

7. <u>Impact on Computer Systems and Processes used by STC Parties</u> (information should be given where possible)

None.

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

None.

9. <u>Justification for Proposed Amendment with Reference to Applicable STC Objectives</u> (mandatory field)

The Amendment proposes that STC 19-4 be modified to address weaknesses in the procedure identified through experience to date and to make efficient use of other established processes. This will refine the existing the interface between the SO and TO and hence more efficiently discharge the obligations imposed upon Transmission Licenses and the Act.

Details of Proposer Organisation's Name	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
Details of Proposer's Representative Name Organisation Telephone Number Email Address	Layton Jones National Grid 0118 936 3158 Layton.Jones@uk.ngrid.com
Details of Representative's Alternate Name Organisation Telephone Number Email Address	Andrew Truswell National Grid 01926 656388 Andrew.Truswell@uk.ngrid.com
Attachments (Yes/No): Yes	

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:
Lilian Macleod
STC Committee Secretary
Commercial Frameworks
National Grid
National Grid House
Warwick Technology Park
Gallows Hill
Warwick, CV34 6DA
Or via e-mail to: STCTeam@uk.ngrid.com

Attachment 1: Revised Legal Text for STC19-4 Commissioning and Decommissioning

Issue 003 4 - 25/10/2005 **20/01/2006**

STCP 19-4 Issue 0034 Commissioning and Decommissioning

STC Procedure Document Authorisation

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

STC Procedure Change Control History

Issue 001	16/03/2005	BETTA Go-Live Version
Issue 002	04/07/2005	Issue 002 incorporating PA029
Issue 003	25/10/2005	Issue 003 incorporating PA034 & PA037
Issue 004	20/01/2006	Issue 004 incorporating PA044

Introduction

1.1 Scope

- 1.1.1 This document sets out the procedure for the commissioning and decommissioning of new, or modified Connection or infrastructure assets on the TO Transmission System, and describes the associated responsibilities and requirements of Parties.
- 1.1.2 Where commissioning and decommissioning activities are required to restore faulted Plant and/or Apparatus to service, the stated timescales for notification and production of the documentation and certification required in accordance with this procedure may not be achievable. In such circumstances the principles of the procedure should be followed.
- 1.1.3 This procedure shall also be used for the commissioning of a Connection provided by a TO and the first energisation of that Connection. As a User is involved, the additional requirements of STCP 19-3 Operational Notifications and Compliance Testing should be followed.
- 1.1.4 Technical data relating to proposed Transmission System changes shall be exchanged between all affected Parties, to ensure that all affected Parties are made aware of the sequence, timing and extent of any proposed changes, and allow each affected Party to predict the effect of the change.
- 1.1.5 Some data exchanged as part of commissioning or decommissioning will form part of the TO Service Capability Specification (SCS). Such data will be updated in accordance with the SCS update process. Some of the certificates used for commissioning / decommissioning may also trigger updates to the SCS.
- 1.1.6 This procedure applies to NGET and each TO. For the purposes of this document, TOs are:
 - SPT; and
 - SHETL.

1.2 Objectives

- 1.2.1 This process specifies the following:
 - the responsibilities of Parties, in relation to commissioning and decommissioning activities;
 - the requirements for the exchange of information related to commissioning and decommissioning activities across the NGET ~ TO interface; and
 - the means of communication to be used across the NGET ~ TO interface.

2 Key Definitions

2.1 For the purposes of STCP 19-4:

- 2.1.1 **Acceptance Certificate** means the document exchanged between the TO and NGET to record the completion of Off-load Testing and On-load Testing.
- 2.1.2 **Commissioning Method Statement** means an approved step-by-step procedure defining On-load Testing activities which do not require a switching methodology issued from NGET.
- 2.1.3 **Commissioning Panel** means a panel chaired by the relevant TO to manage and facilitate the commissioning and decommissioning of Plant and/or Apparatus.

- 2.1.4 Commissioning Switching Programme means proposed sequence of switching to energise, load and facilitate the commissioning or decommissioning of Plant and/or Apparatus. This programme will be prepared and issued by the TO and approved by NGET and any affected Users, and signed by NGET, the TO and any affected Users. This is also referred to as the commissioning Operational Switching programme in STCP 01-1.
- 2.1.5 Decommissioning Report means the document used by the TO to notify NGET of Plant and/or Apparatus decommissioned and no longer available for operational service or configuration by NGET.
- 2.1.6 HV Safety Rules means the rules used by the TO to manage safety in respect of transmission assets connected to or remaining within safety distances of the GB Transmission System.
- 2.1.7 **HV System Change Certificate** means document used by the TO to notify NGET of permanent or long term changes to the GB Transmission System relating to additions, removals or changes to names or nomenclature of Plant and/or Apparatus.
- 2.1.8 **Off-load Testing** means the inspections, tests and off-load switching operations carried out as part of the Stage 1 Commissioning Programme.
- 2.1.9 **On-load Testing** means the tests and switching operations carried out as part of the Stage 2 Commissioning Programme.
- 2.1.10 **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
- 2.1.11 **Risk of Trip** means a formal acknowledgement involving specified in-service Plant or Apparatus of a risk materially beyond the normal level of risk of an imminent Services Reduction where it is not possible to remove, through reasonable endeavour, all tripping risks associated with a planned activity and that the trip event does not result in unacceptable System operating conditions.
- 2.1.12 **Stage 1 Commissioning Panel** means a panel chaired by the relevant TO and whose responsibilities are described in 3.1 and 3.2 below.
- 2.1.13 **Stage 1 Commissioning Programme** means a series of inspections, tests and offload switching operations prepared, approved and carried out by the TO or nominee to verify that Plant and/or Apparatus is suitable for energisation.
- 2.1.14 **Stage 2 Commissioning Panel** means a panel chaired by the relevant TO and whose responsibilities are described in 3.1 and 3.3 below.
- 2.1.15 Stage 2 Commissioning Programme means a series of inspections, tests and on-load switching operations prepared by the TO and approved and carried out jointly by the TO and NGET that verify Plant and/or Apparatus is suitable for operational service.
- 2.1.16 SCADA means Supervisory Control And Data Acquisition system i.e. the system used to monitor, operate and control the Transmission System (including outstations). Where the term NGET SCADA is used this refers to a Supervisory Control And Data Acquisition system owned by NGET and where the term TO SCADA is used this refers to a Supervisory Control And Data Acquisition system owned by a TO.
- 2.1.17 **TO nominated Contractor(s)** means the representative(s) of the Company or Companies assigned by the TO to carry out work on their behalf.

3 Procedure

3.1 Establishing the Commissioning Panels

3.1.1 The relevant TO shall set up, chair and provide secretarial support for the Stage 1 and Stage 2 Commissioning Panels.

- 3.1.2 An inaugural Commissioning Panel meeting shall be in accordance with the agreed timetable in the TO Construction Offer as defined in STCP18-1, the Project Listing Document or as subsequently agreed by the TO and NGET. The inaugural Commissioning Panel meeting shall normally include representatives from both the Stage 1 and Stage 2 Commissioning Panels.
- 3.1.3 At the inaugural Commissioning Panel meeting the split of responsibilities between the Stage1 and Stage 2 Panels shall be confirmed.
- 3.1.4 The Stage 1 Commissioning Panel shall be responsible for developing a Stage 1 Commissioning Programme covering the Off-load Testing and preparation of Commissioning documents, as specified in this procedure, to allow the TO to connect, disconnect and rename Plant and/or Apparatus. The Stage 1 Commissioning Panel will consist of the TO, the TO nominated Contractor(s) and if appropriate due to a Connection, User and NGET representatives.
- 3.1.5 Stage 2 Commissioning Panel shall be responsible for developing a Stage 2 Commissioning Programme and ensuring the necessary commissioning documentation is in place to allow the initial energisation and On-load Testing of Plant and/or Apparatus. The Stage 2 Commissioning Panel will consist of the TO, NGET and where appropriate, User representatives.
- 3.1.6By agreement on an individual basis with NGET the TO may, as an alternative to holding a Stage 2 Commissioning Panel, progress the commissioning documentation as part of their Stage 1 Commissioning Panel, and report progress on a monthly basis to the joint NGET/TO Transmission System access meeting as referred to in STCP 11-1 section 4. It is then the responsibility of the TO and NGET representatives at the Transmission System access meeting to ensure that the obligations normally undertaken under the Stage 2 Commissioning Panel and as outlined in section 3.3 are fulfilled. The TO representatives at the Transmission System access meeting will feedback any comments or concerns of the TO or NGET representatives on the proposed commissioning programme or documentation to the Stage 1 Commissioning Panel.
- 3.1.6 With the agreement on an individual scheme basis with the TO, NGET may, as an alternative to participating to the Stage 1 and Stage 2 Commissioning Panels, seek progress reports from the TO on the commissioning documentation and report on a monthly basis to at the joint NGET/TO Transmission System access meeting as referred to in STCP 11-1 Section 4. The TO and NGET representatives at the Transmission System access meeting will feedback any comments or concerns on the proposed commissioning programme or documentation to the Stage 1 Commissioning Panel. It is expected that this process would only apply to small or simple schemes.
- 3.1.7 When commissioning or decommissioning assets relating to interconnector circuits the affected Parties may agree to set up a single Stage 1 Commissioning Panel for the project, or to hold separate Stage 1 Commissioning Panels for their own work with a nominated TO representative to co-ordinate across the Panels. There shall be a joint Stage 2 Commissioning Panel.
- 3.1.8 Appropriate parts of the minutes of the Stage 1 and Stage 2 Commissioning Panel meetings shall be circulated to NGET and TO representatives of both Commissioning Panels.
- 3.1.9 In those instances where a User is being connected, the additional requirements of STCP 19-3 Operational Notifications and Compliance Testing shall be followed.
- 3.1.10 The Stage 1 & 2 Commissioning Panels will be responsible for appropriate Compliance issues when they have been passed to the Commissioning Panel under STCP 19-3 Operational Notifications and Compliance Testing.

3.2 Stage 1 Commissioning Panel

3.2.1 The Stage 1 Commissioning Panel shall prepare and progress the documentation, certificates and technical data detailed in section 3.2.

- 3.2.2 The Stage 1 Commissioning Panel shall be responsible for developing the Off-load Testing and programme documentation. Off-load Testing will include but is not limited to:
 - pre-commissioning inspections;
 - · off-load commissioning tests; and
 - pre-energisation inspections.
- 3.2.3 The Stage 1 Commissioning Programme will include a plan which defines the timing and staging of the Off-load Testing work, and the planned date for the start of On-load Testing. This date will be made available to the Stage 2 Commissioning Panel.
- 3.2.4 The TO will be responsible for delivering operational data and technical information prior to Plant and/or Apparatus being commissioned. This requirement relates to the TO Service Capability Specification (SCS) for such items as:-
 - · Normal Capability Limits;
 - Protection and DAR schedules;
 - schedule of technical data (including but not limited to branch impedances);
 - written description of Plant, Apparatus and Operational Intertripping operation;
 - details of operational procedures (where appropriate); and
 - operational diagrams.

Other applicable information not forming part of the SCS are:

- The 'Modification of Facilities' certificate and associated spreadsheet (STCP 04-1 Real Time Data Change Management, Appendix C);
- Commissioning Switching Programme; and
- Grid Code compliance data exchange (for which the TO is responsible).

Appendix C summarises these requirements together with the target timescale for completion.

- 3.2.5 The TO shall monitor the preparation and scheduling of these activities as part of the Stage 1 Commissioning Panel against the target timescales in Appendix C and report progress to the Stage 2 Commissioning Panel.
- 3.2.6 Some parts of the initial data submissions may be based on generic type data where final connection arrangements or measured data will not be available until later in the construction process. This should be reviewed by the TO throughout the commissioning process to ensure the best quality data is being submitted as it becomes available.
- 3.2.7 Where a Connection is involved, the Stage 1 Commissioning Panel will progress the requirements of the STCP 19-3 Operational Notifications and Compliance Testing timetable to ensure Grid Code compliance of the User's Plant and/or Apparatus. NGET shall require the exchange of technical and non-technical data and information between the User and TO as required to meet commissioning requirements. If a User fails to provide any such data or information, the TO may require NGET to obtain the appropriate data or information.
- 3.2.8 The TO shall provide a HV System Change Certificate(s) (HVSCC) (contained in Appendix D Attachment A) to indicate the effective time, date and details when, through their SCS submission, Plant and Apparatus is to be added or removed from the TO's Transmission System, or is subject to a name or nomenclature change.
- 3.2.9 The Stage 1 Commissioning Panel will schedule and progress an HVSCC to the target timescale in Appendix C and report progress to the Stage 2 Commissioning Panel. Where only removal of plant and apparatus from the GB Transmission System is involved the timescales for the provision of the final issue of the HVSCC to NGET may be relaxed. The target timescale may be reduced to [two] weeks in advance of the planned change date providing that this will not affect notification of further planned changes involving plant and apparatus additions or name and nomenclature changes at that location in the intervening period.

3.2.10 The HVSCC consists of:

- Part 1 which details the proposed time and date of the change;
- Part 2 which is signed in Control Phase on completion of the change;
- Part 3 in which the TO provides details of the proposed change and references any associated Operation Diagram or equivalent diagrams.
- 3.2.11 The TO will complete parts 1 and 3 of the draft HVSCC and forward the copy to NGET. NGET will return any comment on the draft HVSCC within 14 days of receipt where reasonably practicable.
- 3.2.12 Where the proposed effective time/date of the system change is revised the new proposed effective time/date should added to part 1 and the form forwarded to NGET using the normal data exchange process. If more than three revisions take place a new copy of the certificate using the same certificate number and part 3 details should be completed and copied to NGET.
- 3.2.153.2.13 The TO will prepare and issue the final HVSCC ahead of the proposed change to the target timescales in Appendix D Attachment A.
- 3.2.14 If any further changes are necessary to part 3 of the certificate a new certificate should be issued.
- 3.2.15 On completion of the system change then part 2 of the HVSCC will be signed and exchanged by the TO and NGET in Control Phase and issued to confirm the change has taken place. For the avoidance of doubt, the completion issue of this the signed certificate does not by itself make Plant and Apparatus available or unavailable to NGET for operational service or configuration.
- 3.2.16 Where the system change involves removal of Plant and/or Apparatus from operational service the system a Decommissioning Report will be provided on completion of the change.
- 3.2.17 The TO will provide an Operation Diagram or equivalent of the Transmission site, incorporating Plant and/or Apparatus numbering and nomenclature. In the early stages of work construction other drawings may be used but these must be supplemented by the Operation Diagram or equivalent to the target timescales in Appendix C. The Operation Diagram, or equivalent, will form part of the SCS. The Stage 1 Commissioning Panel will schedule and progress the preparation of the Operation Diagram or equivalent and report progress to the Stage 2 Commissioning Panel.
- 3.2.18 The TO will provide Site Responsibility Schedules (SRS) to meet the target timescales in Appendix C. The format of the schedule used by each Party shall be as stated in the Grid Code. The Stage 1 Commissioning Panel will schedule and progress the SRS to the target timescale in Appendix B and report progress to the Stage 2 Commissioning Panel. A copy of the relevant SRS(s) must be available prior to the start of On-load Testing or decommissioning for the sites involved.
- 3.2.19 Real time data change management documentation exchange shall be carried out in accordance with STCP 04-1 Real Time Data Change Management and STCP 04-4 Provision of Asset Operational Information. The Stage 1 Commissioning Panel will schedule and progress the data exchange required to the target timescale in Appendices B and C and report progress to the Stage 2 Commissioning Panel.
- 3.2.20 The completion of Off-load Testing will be marked by completion—issue of the signed Acceptance Certificate Part 1 which also confirms agreement to proceed to On-load Testing for the purpose of Plant and/or Apparatus being put into service. Part 1 of the Acceptance Certificate will be completed by the TO and signed and exchanged to NGET to acknowledge when the required Off-load Testing is completed, and the new Plant and/or Apparatus is ready for first energisation.

3.2.21 When decommissioning is taking place under this procedure, the Stage 1 Commissioning Panel shall be responsible for defining the decommissioning process. If the TO deems that decommissioning is such that no Stage 1 Commissioning Panel is necessary the TO and NGET will agree to discuss the decommissioning process further at System access meetings called under STCP 11-1 Outage Planning. The requirements of this procedure will be followed regarding certificates and technical data required to be issued as part of the decommissioning of Plant and/or Apparatus.

3.3 Stage 2 Commissioning Panel

- 3.3.1 The Stage 2 Commissioning Panel shall monitor the progress of the documentation and certificates provided through the Stage 1 Commissioning Panel and the technical data detailed below in readiness for the On-load Testing.
- 3.3.2 Where a User is involved there are additional Grid Code compliance requirements placed on affected Parties, STCP 19-3 Operational Notifications and Compliance Testing provides further guidance.
- 3.3.3 Where a User is involved NGET shall ensure that the data and information provided by the User pursuant to Grid Code obligations accurately represents the Plant and/or Apparatus installed or removed by the User including name and nomenclature changes advised by the User. NGET shall exchange information provided by the User as part of commissioning with the TO, in accordance with the requirements STCP 19-3 Operational Notifications and Compliance Testing.
- 3.3.4 The Stage 2 Commissioning Programme will be prepared by the TO and shall include:-
 - a plan which details the delivery dates for the required documentation;
 - the Commissioning Switching Programme or Commissioning Method Statements approved jointly by the TO, NGET and any affected User; and.
 - post commissioning inspections to be carried out by the TO or nominee.
- 3.3.5 The On-load Testing will be carried out jointly by NGET and the TO in accordance with the requirements of STCP 01-1 Operational Switching.
- 3.3.6 Where commissioning does not involve an agreed Switching Method, Commissioning Method Statements shall be prepared by the TO and approved by NGET (and Users as appropriate).
- 3.3.7 The Commissioning Switching Programme and any Commissioning Method Statements shall include both the method of first energisation and the On-load Testing of the Plant and/or Apparatus to be commissioned to the System.
- 3.3.8 The TO is responsible for the preparation, issue and change management (unique version nos. etc.) of the draft and approved Commissioning Switching Programme, in accordance with the target time scales shown in Appendix C. A model form for a Commissioning Switching Programme is shown in Appendix E. This form or similar containing the information shown may be used.
- 3.3.9 NGET will receive the draft Commissioning Switching Programme for comment and will liaise with affected Users and respond to the TO with details of required changes in accordance with the timetable shown in Appendix C.
- 3.3.10 Complex Commissioning Switching Programmes shall contain break points where commissioning can be safely halted, to be continued later.
- 3.3.11 The final Commissioning Switching Programme shall be approved by NGET and any affected Users, and signed by NGET, the TO and any affected Users.

- 3.3.12 Relevant Operation Diagrams or equivalent shall be referenced in the Stage 2 Commissioning Switching Programme, and a copy of the referenced diagrams shall be confirmed available between all Parties involved prior to the start of On-load Testing or decommissioning at the sites involved.
- 3.3.13 If it is necessary to modify the content of an approved Commissioning Switching Programme either prior to, or during, implementation, the following process shall be followed:
 - Prior to implementation, the TO will contact the Stage 2 Commissioning Panel NGET and affected User representatives to agree and approve any essential changes. If agreement cannot be reached any Party may raise a dispute. The approved revised programme will be re-issued by the TO with a revised unique version issue number.
 - Immediately prior to the start of the Commissioning Switching Programme the TO shall confirm to NGET the unique version issue number for the Commissioning Switching Programme to be used.
 - Following commencement of the Commissioning Switching Programme should a need for subsequent changes to the programme be identified the programme will be temporarily suspended. The TO shall be responsible for obtaining the agreement to changes and modification to the Commissioning Switching Programme from NGET and affected Users involved in the development of the Commissioning Programme or their nominee. The TO will be responsible for ensuring all copies of the Commissioning Switching Programme in use are amended in line with the agreed changes. Changes at this stage are normally due to site or real time System changes and are handled in the Control Phase. In extreme circumstances the Commissioning Switching Programme may have to be abandoned for re-planning and referral back to the Stage 2 Commissioning Panel.
- 3.3.14 Where commissioning does not involve Operational Switching, the TO shall be responsible for preparation of any Commissioning Method Statements required during On-load Testing. Commissioning Method Statements shall be approved by NGET (and Users as appropriate).
- 3.3.15 The TO is responsible for notifying NGET of any potential Operational Effect on the GB Transmission System associated with a Commissioning Method Statement of which they are or become aware. NGET may require a change to the Commissioning Method Statement to minimise or alleviate the potential Operational Effect. Any such change to a Commissioning Method Statement must also be approved by NGET (and Users as appropriate).
- 3.3.16 A separate Commissioning Method Statement should be prepared for each stage of multi-stage work. The target timescales for preparing and issuing Commissioning Method Statements are the same as for Commissioning Switching Programmes and are specified in Appendix C.
- 3.3.17 The TO will sign Part 1 of the Acceptance Certificate as confirmation that all Off-load Testing and inspections are completed and the asset is ready for On-load Testing. The TO will provide a copy of the signed Acceptance Certificate to NGET and NGET will acknowledge the Part 1 certificate.
- 3.3.18 Prior to the start of the On-load Testing the following documentation will be confirmed as available between NGET and TO for all sites involved and the issue and revision numbers of individual items checked, including:
 - Operation Diagram(s) or equivalent;
 - Site Responsibility Schedule(s);
 - Commissioning Switching Programme; and
 - Acceptance Certificate (Part 1 signed by TO).

- 3.3.19 When the Commissioning Switching Programme has been successfully completed and the TO has carried out final inspections, the TO shall sign Part 2 of the Acceptance Certificate. This will confirm completion of the On-load Testing and that the Plant and/or Apparatus is commissioned and made available for operational service and configuration by NGET. Part 2 of the Acceptance Certificate will be signed and exchanged by the TO and NGET. Completion of this Acceptance Certificate may be used by the TO to activate the entries in accordance with their SCS update process.
- 3.3.20 At this time the TO will also declare as Services Reductions (in accordance with STCP 04-4 Provision of Asset Operational Information), any known defects or limitations associated with the asset that could affect the operational use of the asset, and will progress the resolution of these issues. This may result in the issue of an Operational Capability Limit Record against the asset.
- 3.3.21 Any Plant or Apparatus being decommissioned under this procedure shall be covered by a Decommissioning Report. A pro-forma of the Decommissioning Report can be found in Appendix D Attachment C. The Decommissioning Report will be issued in the Control Phase by the TO and signed and exchanged by the TO and NGET.
- 3.3.22 Decommissioning results in the Plant and/or Apparatus being declared permanently unavailable by the TO for operational service and configuration by NGET. Completion of the Decommissioning Report this form-may be used by the TO to update the SCS in accordance with their SCS update process. The Decommissioning Report provides notification that the Plant and/or Apparatus is decommissioned, and confirms whether the Plant and/or Apparatus either remains within safety distance, or where the TO considers there to be safety implications.
- 3.3.23 Where Plant and/or Apparatus is outside safety distance and has been physically disconnected, it shall be declared as having been removed from the GB Transmission System, through issue completion of a HV System Change Certificate and Decommissioning Report (option B) to indicate this.
- 3.3.24 Where the Plant and/or Apparatus is physically disconnected but remains within safety distance and therefore subject to the TO HV Safety Rules this may necessitate the Plant and/or Apparatus being retained (but shown disconnected) on the Operation Diagram, or equivalent, and retained in the TO and NGET SCADA databases. Subject to the SCS update process tThis Plant and/or Apparatus would not form part of the system made available by the TO to remain in the SCS but would be defined as non-operationaland the.The Decommissioning Report (option A) will be issued to indicate this. When this requirement subsequently ceases a Decommissioning Report Option B will be issued together with a HV System Change Certificate.
- 3.3.25 It is envisaged a final joint meeting of the Stage 1 and Stage 2 Commissioning Panels shall be called by the TO at an appropriate time after the Plant and/or Apparatus has been commissioned. Any outstanding issues shall be addressed at this meeting.

3.4 Commissioning Outages

3.4.1 All Outages of Transmission Plant and/or Apparatus associated with commissioning and or decommissioning, will be recorded in the NGET Outage Database as outlined under STCP 11-1 Outage Planning. In the case of new Plant and/or Apparatus that will be subject to commissioning, these will be included prior to the date of connection of the Plant and/or Apparatus to the GB Transmission System. These entries in the database must be agreed by NGET and will be flagged as not yet commissioned.

Typical Outage requests are:

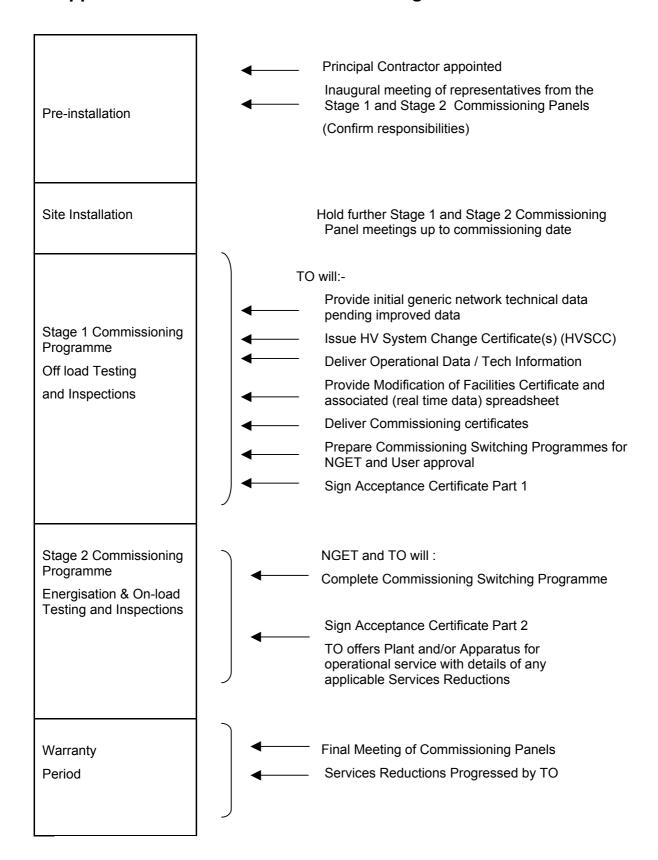
- Risk of Trip circuits;
- proximity Outage circuits;
- primary Outages;

STCP19-4 Commissioning and Decommissioning

Issue 003 4 - 25/10/2005 20/01/2006

- new Outage requests (including the addition of new basic data entries and removal of redundant basic data entries);
- other Outages required to implement the Commissioning Switching Programme;
- other information entries to indicate resource restrictions such as circuit name or nomenclature changes requiring significant safety documentation changes or switching programme involvement;

Appendix A: Overview of Commissioning Process



Appendix B: Commissioning & Decommissioning Certificate Requirements

ITEM	ACTIVITY	SOURCE	TARGET TIMESCALES
1	HV System Change Certificate (HVSCC)	STCP19 -4	(1) 9 WEEKS in advance of Plant and/or Apparatus being connected to or disconnected from the System, a DRAFT HVSCC is provided to NGET by the TO, parts 1 and 3 completed-up to Part 3. Part 2 is signed by NGET and a copy exchanged with the TO. Acknowledgement of receipt will be in accordance with the Data Exchange process.
			NGET will provide comment to the TO on the draft HVSCC within 14 days of receipt and the TO and NGET will agree the content of the FINAL HVSCC
			(2) 4 WEEKS in advance of Plant and/or Apparatus being connected to or disconnected from the System, an AGREEDthe FINAL HVSCC is issued to NGET by the TO, parts 1 and 3 completed up to Part 3. Part 2 is signed by NGET and a copy exchanged with the TO, Acknowledgement of receipt will be in accordance with the Data Exchange process.
			(2) 3 DAYS in advance of Plant and/or Apparatus connected to the System, the FINAL HVSCC is issued to NGET by the TO completed up to Part 3. Part 2 is signed by NGET and a copy exchanged with the TO.
			(3) When the change Date document becomes effective Part 4-2 of the FINAL HVSCC is signed and exchanged by the TO and NGET in Control Phase.
			Note time scales for disconnecting Apparatus or Plant from the system can be relaxed as per item 3.2.9
2	Acceptance Certificate	STCP 19-4	(1) Part 1 of the Acceptance Certificate is signed by TO and acknowledged by NGET in Control Phase on completion of Off-Load Testing and prior to first energisation.
			(2) Part 2 of the Acceptance Certificate is signed and exchanged by the TO and NGET in Control Phase on completion of Stage-On-load Testing.
3	Decommissioning Report	STCP 19-4	(1) Issued by TO in Control Phase immediately following decommissioning of Plant and/or Apparatus
4	Real Time Data Management	STCP 04-1	(1) Issued by TO not less than 6 weeks in advance of the planned database change implementation date that aligns to either:-
	Modification of Facilities Certificate	STCP 04-4	(a) the planned date the Plant and/or Apparatus becomes subject to or is removed from TO Safety Rules
			(a) the planned date the Plant and/or Apparatus is connected to or is disconnected /removed from the Transmission System, or the Plant and/or Apparatus numbering or nomenclature changes
			or the Plant and/or Apparatus numbering or nomenclature changes
			or
			b) the planned date of commissioning of Plant and/or Apparatus .

Appendix C: Operational Data and Technical Information Requirements

ITEM	ACTIVITY	SOURCE	TARGET TIMESCALES
1	Normal Capability Limits	SCS	(1) 12 WEEKS in advance of ENERGISATION date, recipients receive schedule from Asset Owner
2	Protection and DAR Schedules	SCS	(1) 12 WEEKS in advance of ENERGISATION date, recipients receive schedule from Asset Owner
3	Schedule of Technical Data (including but not limited to branch impedances);	scs	 (1) Asset Owner provides Generic data at outset of scheme (2) 20 wks in advance of ENERGISATION date Asset Owner provides update or confirms generic data (3) Further updates as more accurate data becomes available
4	Written Description (a) Operational tripping (b) Equipment Operation	SCS	(1) Requirement confirmed at Stage 2 Commissioning Panel(2) To be provided prior to first energisation where applicable
5	Details of operational procedures	SCS	(1) Requirement confirmed at Stage 2 Commissioning Panel (2) To be provided prior to first energisation where applicable
6	Operation Diagram or equivalent	scs	 (1) 9 WEEKS in advance of ENERGISATION date, or on issue of HVSCC, draft new/revised diagram /sheet issued by TO for comment (2) 4 WEEKS in advance of ENERGISATION/HVSCC, final diagram/sheet issued and circulated by the TO.
7	Modification of Facilities (Real Time Data spreadsheet)	STCP 04-1	(1) Not less than 6 weeks in advance of the planned database change implementation date that aligns to either (a) the planned date the Plant and/or Apparatus is connected to or is removed from the Transmission System, or the Plant and/or Apparatus numbering, or nomenclature changes or the capability changes with or without a physical change to the Plant or Apparatus (b) the planned date of commissioning of Plant and/or Apparatus
8	Commissioning Switching Programme Commissioning Method Statements	STCP 19-4	 6 WEEKS in advance of Equipment ENERGISATION draft issued. 4 WEEKS in advance of ENERGISATION, comments returned. 2 WEEKS in advance of ENERGISATION, signatures obtained. 1 WEEK in advance of ENERGISATION, final issued.
9	Site Responsibility Schedule	Grid Code	 6 weeks in advance of either the issue of HVSCC, or energisation/decommissioning of secondary Plant and/or Apparatus, draft SRS circulated by the TO. 2 weeks in advance of either issue of HVSCC or energisation /decommissioning of secondary Plant and/or Apparatus, final SRS issued and circulated by the TO. 3 DAYS in advance of HVSCC, or energisation/decommissioning copies signed by all parties and circulated by the TO.
10	Grid Code compliance data	STCP19-3	See STCP 19-3 'Operational Notifications and Compliance Testing'

Issue 003 4 - 25/10/2005 20/01/2006

Appendix D – Attachment A:

HV SYSTEM CHANGE CERTIFICATE (HVSCC)

Location:		Certifi	cate No.	
Date :				
To:			(NGET	·)
From:			(SPT /SHE	ΞTL)
PART 1: NOTIC	CE			
DRAFT / FINAL	¹ proposed effecti	ive time and date :-		
*Revise table be certificate	low in event of effec	ctive time/date change - for any cha	nges to PART 3 re-issue	
Proposed	Date	Time		
Revision 1*	Date	Time	Date revised	
Revision 2*	Date	Time	Date revised	
Revision 3*	Date	Time	Date revised	
(For more than 3	changes issue a n	new copy of this certificate retaining	all other data unchanged.)	
Tick below where	e applicable.			
☐ The Plant a	nd Apparatus sched	duled in PART 3A will be removed f	rom the GB Transmission System.	
☐ The Plant a change.	and Apparatus sch	eduled in PART 3B is subject to a	a circuit name/nomenclature	
		led in PART 3C will be declared as for configuration by NGET.	part of the GB Transmission	
	Please return o	comments on a DRAFT certificate	within 14 days of receipt	
PART 2: DECLA	ARATION			
The following H.	V. System changes	have now taken effect :		
(Mark sections a	pplicable below)			
		eduled in Part 3A has been removed port to this effect will be completed		
☐ The change	scheduled in Part	3B has become effective.		
		eduled in Part 3C is declared as p for operational service or configurat		
Issued by:		Date:	Time:	
	(SPT/SHET	L)		_
Acknowledged:		Date:	Time:	
, and the second	(NGET)			
		_		

¹ Delete as appropriate

STCP19-4 Commissioning and Decommissioning

Issue 003 4 - 25/10/2005 20/01/2006

Appendix D - Attachment A (contd.)

HV System Change Certificate Part 3

B: *Name and / or Nomenclature Change Old Plant and/or Apparatus Identification and Location: New Plant and Apparatus Identification and Location: C: *Plant and/or Apparatus being added to the GB Transmission System Description	A: * Plant and/or Apparatus being removed from the GB Transm	nission System
Old Plant and/or Apparatus Identification and Location: New Plant and Apparatus Identification and Location: C: * Plant and/or Apparatus being added to the GB Transmission System	Description	
Old Plant and/or Apparatus Identification and Location: New Plant and Apparatus Identification and Location: C: * Plant and/or Apparatus being added to the GB Transmission System		
Old Plant and/or Apparatus Identification and Location: New Plant and Apparatus Identification and Location: C: * Plant and/or Apparatus being added to the GB Transmission System		
Old Plant and/or Apparatus Identification and Location: New Plant and Apparatus Identification and Location: C: * Plant and/or Apparatus being added to the GB Transmission System		
Old Plant and/or Apparatus Identification and Location: New Plant and Apparatus Identification and Location: C: * Plant and/or Apparatus being added to the GB Transmission System		
Old Plant and/or Apparatus Identification and Location: New Plant and Apparatus Identification and Location: C: * Plant and/or Apparatus being added to the GB Transmission System		
Old Plant and/or Apparatus Identification and Location: New Plant and Apparatus Identification and Location: C: * Plant and/or Apparatus being added to the GB Transmission System		
Old Plant and/or Apparatus Identification and Location: New Plant and Apparatus Identification and Location: C: * Plant and/or Apparatus being added to the GB Transmission System	ı	
Old Plant and/or Apparatus Identification and Location: New Plant and Apparatus Identification and Location: C: * Plant and/or Apparatus being added to the GB Transmission System	P: *Name and / or Namonalatura Change	
C: * Plant and/or Apparatus being added to the GB Transmission System		New Plant and Apparatus Identification and Location
	Old Plant and/or Apparatus identification and Location.	New Plant and Apparatus Identification and Location.
	C * Plant and/or Apparatus being added to the CP Transmission	Custom
Description		i System
	Description	
	ı	
	ı	
	ı	
		, , , , , , , , , , , , , , , , , , ,

^{*} Mark any sections not required with N/A

Appendix D – Attachment A:

HV SYSTEM CHANGE CERTIFICATE

Location	Certificate No
To:	
-(NGET)	
From:	
(SPT/SHETL)	
PART 1: NOTICE	
This DRAFT / AGREED / FINAL ¹ H.V. System Chang	ge Certificate is effective from
Date Time	
Tick below where applicable.	
☐ The Plant and/or Apparatus scheduled in Part	t 3A will be removed from the GB Transmission System.
☐ The Plant and/or Apparatus scheduled in Part	t 3B is subject to a circuit name/nomenclature change.
The Plant and/or Apparatus scheduled in Parabut is NOT made available for configuration by	t 3C will be declared as part of the GB Transmission Systen y NGET.
Please retain a copy of this document and any attach	n ed diagrams.
Signed: Date	e
(SPT/SHETL)	
PART 2: ACKNOWLEDGEMENT	
To be returned to (SPT/SHETL) by: Time	Date
, , ,	
- I acknowledge receipt of this DRAFT / AGREED / FI	INAL ¹ HV System Change Certificate.
Signed: Date	•
——————————————————————————————————————	5

¹ Delete as appropriate

Appendix D - Attachment A (contd.)

HV System Change Certificate Part 3	Location	Certificate No
Accorded now / revised Operation Dingram (or equi	valent) Beforence and Issue n	umbor
Associated new / revised Operation Diagram (or equi		<u> </u>
A: * Plant and/or Apparatus being removed from the GB Transmission Syste	m	
Description		
B: *Name and / or Nomenclature Change		
Old Plant and/or Apparatus Identification and Location:	New Plant and Apparat	us Identification and Location:
C: * Plant and/or Apparatus being added to the GB Transmission System		
Description		

^{*} Mark those sections not required N/A

Issue 003 4 - 25/10/2005 20/01/2006

Appendix D - Attachment A (contd.):

HV SYSTEM CHANGE CERTIFICATE (contd.)

Location C	ertificate No
PART 4: DECLARATION	
The following H.V. System changes have now taken effect:	
(Tick below where applicable.)	
The Plant and/or Apparatus scheduled in Part Transmission System .	3a is removed from the GB
☐ The change scheduled in Part 3b becomes effective	.
The Plant and/or Apparatus scheduled in Part 30 Transmission System but not available for operat NGET.	
Signed Date	
Signed Date	
Appendix D: Attachment B	
ACCEPTANCE CERTIFICATE - PART 1	
LOCATION:	Certificate Nº:

PART 1: STAGE 1 COMPLETION

STCP19-4 Commissioning and Decommissioning

Issue 003 4 - 25/10/2005 20/01/2006

EXCEPTIONS / LIMITATIONS

The Plant and/or Apparatus scheduled below has satisfactorily completed the Stage 1 Commissioning Programme, in accordance with the conditions of contract. The Plant and/or Apparatus may now be energised and tested in accordance with the Stage 2 Commissioning Programme. Exceptions / Limitations are specified below.

DESCRIPTION OF PLANT and/or APPARATUS
(include drawing references as appropriate)

Issue 003 4 - 25/10/2005 20/01/2006

Appendix D: Attachment B (contd.)

ACCEPTANCE CERTIFICATE - PART 2

LOCATION:	ON: Certificate N°:			
PART 2: STAC	GE 2 COMPLETION			
the Stage 2 C configuration requirements	commissioning Programme to NGET with the follow	PART 1 of this certificate has satisfaction and is made available for operation wing Exceptions / Limitations. All service and configuration of the	onal service and drawings and	
Date:		Time:		
EXCEPTIONS	/ LIMITATIONS			
Issued by:	(SPT/SHETL)	Date:	Time:	
Confirmed:	(NGET)	Date:	Time:	

Appendix D - Attachment C

DECOMMISSIONING REPORT

LOCATION Report No					
I HEREBY GIVE NOTICE that the Plant and/or Apparatus scheduled below was decommissioned and is no longer available for operational service or configuration by NGET					
*A	The Plant and/or Apparatus is disconnected from the GB Transmission System and is no longer available for operational service but the TO considers there to be safety implications and as such remains in the operational drawings in the SCS and identified as non-operational.				
*B	The Plant and/or Apparatus is no longer part of the GB Transmission System . (Complete parts (a) and (c) of Section 2 below). A completed HV System Change Certificate for the removal of the HV Equipment is also attached.				
(*Delete as appropriate.)					
PART 1 - DESCRIPTION AND LOCATION OF PLANT AND/OR APPARATUS (include drawing references as appropriate)					
PART 2 (a) REASON FOR DECOMMISSIONING					
(b)	DISCONNECTION DETAILS				
Signed	Date Time				
PART 3 - ACKNOWLEDGEMENT					
I acknowledge receipt of the above notice					
Signed					

Appendix E : Suggested Commissioning Switching Programme Model

(Front Sheet)

			Programme No		
SCHEME NUMBER AND TITLE :					
OUTAGE NO :					
TRANSMISSION OWNER :					
LOCATION :					
PLANT AND/OR APPARATUS :					
COMMISSIONING ENGINEER:					
DATE OF TESTS :					
PREPARED BY :					
APPROVED BY SPT / SHETL					
AFFROVED DI CITIONELL					
Signature Date					
APPROVED BY NGET					
Signature		Date			
APPROVED BY USER (where applicable)					
Signature		Date			
Company					
PERSONNEL NOMINATED TO AGREE POST- APPROVAL CHANGES					
Transmission Owner	NGET		User (where applicable)		

Commissioning switching programmes should adhere to the suggested categories and format where practical

(NB: Some switching programmes may not require the full detail specified in each category).

E1 Purpose of the Switching Programme

- (a) Briefly describe the purpose of the project.
- (b) List the Plant and/or Apparatus to be commissioned.
- (c) Briefly list the key stages of the Commissioning Switching Programme.

Complex Commissioning Switching Programmes should contain break points where commissioning can be safely halted to be continued later.

E2 Diagrams

List of the Operation Diagram or equivalent for reference whilst executing the Commissioning Switching Programme. (A copy should of each be available to each person involved in the commissioning).

E3 Unproven Protection Equipment

List of the protection equipment to be commissioned and which may be required to operate whilst executing the Commissioning Switching Programme, but as a result of being unproven, cannot be relied upon to perform in the intended manner. Briefly state the corresponding zone that each respective item of equipment protects.

E4 Temporary Protection & Automatic Switching Arrangements

- (a) List the temporary protection, and any automatic switching arrangements in force during the equipment energisation and On-load test period.
- (b) State the temporary protection range of cover and fault clearance time(s). (To be obtained from the Commissioning Officer).
- (c) Identify points in the programme where there is unavoidable depletion of protection. Identify the back-up protection which may operate and the estimated fault clearance time.
- (d) Confirm that all parties involved in commissioning are in possession of any temporary protection setting sheets (including rating and protection schedules if, exceptionally, they are required). Confirm that settings have been applied, to the temporary protection: this may alternatively be carried out in Section H9 of the Switching programme.

E5 Personnel

List the names of personnel participating in the tests with a brief statement of their respective roles and responsibilities including Users and Customers where applicable.

NB: These may be entered on the day.

E6 Communications

(a) List pertinent telephone numbers.

NB: These may be entered on the day.

E7 Documentation

Confirm with NGET that all commissioning certificates have been provided and that testing documentation is complete to the TO's requirements.

E8 Initial Conditions

- (a) Confirm the Transmission Status Certificate (TSC) on the Plant and/or Apparatus to be commissioned has been cancelled.
- (b) Confirm the status of disconnectors with NGET.

STCP19-4 Commissioning and Decommissioning

Issue 003 4 - 25/10/2005 20/01/2006

- (c) Confirm the status of all circuit breakers with NGET.
- (d) Confirm the status of all alarms with NGET
- (e) Confirm the transformer tap position, and the position of any other Plant and/or Apparatus which has a range selector with NGET.
- (f) Confirm the state of protection equipment with NGET. (A circuit is usually energised with all protection normal and in service).
- (g) Confirm to NGET that auto switching / reclose and Automatic Voltage Control (AVC) equipment is switched out of service. (A circuit is usually energised with these items out of service).

E9 Equipment Energisation and On-load Testing

The following should be stated in the Contents Sheet:

- (a) The stated switching sequence.
- (b) Clearly state when an item of Plant and/or Apparatus is being energised for the first time.
- (c) Clearly state the locations at which phasing tests will take place.
- (d) Clearly state the locations at which check or System synchronisation close of circuit breakers will take place.
- (e) Indicate any checks to be carried out on high voltage equipment.
- (f) Indicate On-load testing to be carried out*.
- (g) State sequence of events required to disable any temporary protection.
- NB: (1) *The minimum levels of primary current to enable On-load testing to be carried out should be stated.
 - (2) At the end of each On-load test it shall be confirmed that CT test links and relay settings are returned to normal.

E10 Restoration

- (a) Reconfigure the Power System to NGET circuit selection requirements.
- (b) Confirm the status of all Plant and/or Apparatus at the end of the tests.
 - (i) All protection switched into service;
 - (ii) Temporary Protection systems disabled;
 - (iii) All relay settings normal.

E11 On-load Auto Switching / Reclose Tests

- (a) These should be carried out in accordance with a schedule of such tests. The form should closely accord with that of the DAR schedule.
- (b) The schedule should specify:
 - (i) The starting conditions;
 - (ii) The type of test to be simulated;
 - (iii) The protection to be operated;
 - (iv) The circuit breakers which trip and re-close; any disconnectors that open;
 - (v) Point at which trip relays reset;
 - (vi) Time in seconds corresponding to the above.

Issue 003 4 - 25/10/2005 20/01/2006

E12 AVC or Other Automatic Equipment Tests

(a) These should be carried out in accordance with a schedule of such tests.

NB: If, to facilitate the On-load testing, the Plant and/or Apparatus is required to be temporarily altered or changed in any way whatsoever, both the change and associated restoration shall be recorded.

Appendix F: Abbreviations & Definitions

Abbreviations

HVSCC HV System Change Certificate SCS Service Capability Specification

SHETL Scottish Hydro-Electric Transmission Limited

SPT SP Transmission Limited
SRS Site Responsibility Schedules

TO Transmission Owner

Definitions

STC definitions used:

Apparatus Connection

GB Transmission System

Grid Code NGET

Normal Capability Limits

Outages Parties Plant Protection Safety Rules

Service Capability Specification

Services Reduction

Site Responsibility Schedule

TO Construction Offer Transmission Owner Transmission System

User

Grid Code definitions used:

Control Phase
Operation Diagram
Operational Effect
Operational Intertripping
Operational Switching

Definition used from other STCPs:

NGET Outage Database STCP 11-1:Outage Planning

Operational Capability Limit Record (STCP 04-4: Provision of Asset Operational

Information)

Switching Method STCP 01-1:Operational Switching