STCP Amendment Proposal Form

PA039

1. Title of Amendment Proposal

STCP 16-1 – Consequential changes due to the incorporation of STCP22-1

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

Proposal requests minor amendments to STCP16-1 in order to ensure that the correct terminology is used when referring to STCP22-1 (Production of Models for GB System Planning).

The changes do not posed any new requirements or change the current arrangements within the STCP.

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

The incorporation of STCP22-1 into Schedule 2 of the STC, introduced new terminology. STCP16-1 makes reference to STCP22-1 and it important that the correct terminology is referred too. This amendment proposes minor amendment to STCP16-1 to reflect new STCP22-1 terminology.

4. <u>Impact on the STC</u> (information should be given where possible)

None

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. <u>Details of any Related Modifications to Other Industry Codes</u> (where known)

None

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

It is the view of the proposer that should these changes should be incorporated within all STCPs. This would better facilitate the following Applicable STC Objectives:

- the development, maintenance and operation of an efficient, economical and coordinated system of electricity transmission
- protection of the security and quality of supply and safe operation of the GB
 Transmission System insofar as it relates to the interactions between transmission licensees
- promotion of good industry practice and efficiency in the implementation and administration of the arrangements described in the STC.

Details of Proposer Organisation's Name	National Grid plc				
Capacity in which the Amendment is being proposed	STC Party				
(i.e. STC Party or other Party as designated by the Authority pursuant to STC section B7.2.2.1 (b))	STOFAILY				
Details of Proposer's Representative Name Organisation Telephone Number Email Address	Andrew Truswell National Grid 01926 656388 Andrew.Truswell@ngtuk.com				
Details of Representative's Alternate Name Organisation Telephone Number Email Address	Ben Graff National Grid Company plc 01926 656368 Ben.Graff@ngtuk.com				
Attachments (Yes/No): Yes Attachment 1: Revised Legal Text for STC	CP 09-2				

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 NGT House Warwick Technology Park Gallows Hill Warwick, CV34 6DA

Or via e-mail to: STCTeam@uk.ngrid.com

Attachment 1: Revised Legal Text for STCP 09-2 Public and Site Safety

STCP 16-1 Issue 0012 Investment Planning

STC Procedure Document Authorisation

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

STC Procedure Change Control History

Issue 001	26/05/2005	First Issue following BETTA Go-Live
Issue 002	20/10/2005	Issue 002 incorporating PA034, PA037 and PA039

1 Introduction

1.1 Scope

- 1.1.1 This procedure applies to NGCNGET and each TO. For the purposes of this document, TOs are:
 - SPT; and
 - SHETL.

1.2 Objectives

1.2.1 This STCP describes the processes and procedures for investment planning and, individual project development across both the NGCNGET -TO and TO-TO interfaces.

2 Key Definitions

2.1 For the purposes of STCP 16-1:

- 2.1.1 **Distribution Network Operator** means a holder of a Distribution Licence.
- 2.1.2 **Investment Planning Study Guidelines** means a document agreed between NGET and the TOs that specify various agreed details in relation to updating the Investment Plan, including the programme and assumptions made in the studies.
- **2.1.22.1.3 Joint Planning Committee (JPC)** means the committee formed under section 4.1.1.
- 2.1.32.1.4 **Joint System Development Liaison group (JSDL)** means the groups formed under section 4.1.2.
- **2.1.42.1.5 Operational Assessment** means an estimate of the system constraint costs against the Project Listings proposed by the relevant TOs.
- 2.1.52.1.6 Project Listings means a summary of proposed projects to modify the GB Transmission System corresponding to a set of planning assumptions, i.e. to accommodate new connections, modification to existing connections, and GB Transmission System reinforcements. Each entry on the Project Listing will have referenced a completed Project Listing Document (see Appendix DAppendix C).
- 2.1.62.1.7 Project Listing Document (PLD) means a document describing a specific project or set of projects to modify the GB Transmission System (see Appendix CAppendix B).
- **2.1.7**2.1.8 **Relevant Standards** means the GB Security and Quality of Supply Standard (GB SQSS).
- 2.1.9 **Replacement Notice** is as defined in the CUSC (Section 2.17).
- 2.1.82.1.10 Week 24 Data Submission means that data which is submitted to NGCNGET by Users in week 24 (as defined in Grid Code).

3 General Provisions

- 3.1.1 Nuclear Site Licence Provisions Agreement
- 3.1.2 When following this process where this may interact with, impact upon or fall within the boundary of a Nuclear Site Licence holder's site, or may otherwise have any form of affect and/or implication for a nuclear power station consideration must be given to the relevant provisions of the applicable Nuclear Site Licence Provisions Agreement, the CUSC Bilateral Connection Agreement for that site, paragraph 6.9.4 of the CUSC and Section G3 of the STC to ensure compliance with all of these obligations.

4 Procedure

4.1 Committees/Liaison Groups

- 4.1.1 Joint Planning Committee
- 4.1.1.1 The Joint Planning Committee (JPC), consisting of named representatives from NGCNGET and each TO, shall facilitate the co-ordination between the Parties of investment planning and the production of the SYS. The JPC shall meet quarterly, however the frequency of the meeting can be varied with the agreement of all Parties.
- 4.1.1.2 It is envisaged that agenda items for consideration at a meeting may include, for example:
 - the production of draft Investment Planning Demand backgrounds and the Investment Planning Ranking Orders by NGCNGET;
 - the agreement of tolerances for the Boundary of Influence studies;
 - the production of Investment Planning and SYS Models by Parties;
 - resolution of modelling issues, including contingencies and tolerances for consistency checking;
 - review and consistency checking of the GB Models for Investment Planning and SYS production;
 - the production of Project Listings and supporting Project Listing Documents (PLDs) by all Parties;
 - the Operational Assessment performed by NGCNGET;
 - the programme for annual production of Project Listings and supporting PLDs. (NB this is envisaged as an annual process but could be updated on an ad-hoc basis); and proposed and issued Grid Code and/or SQSS derogations.
- 4.1.1.3 The quarterly meetings may be supplemented with ad-hoc meetings as required. The JPC does not preclude separate bilateral TO-TO, or TO-NGCNGET meetings.
- 4.1.1.4 The JPC may appoint sub-groups as appropriate to consider specific issues. It is envisaged that such sub-groups, for example, may be set up to consider:
 - dynamic models of new generators;
 - System stability; or
 - modelling consistency issues.
- 4.1.2 Joint System Development Liaison Group
- 4.1.2.1 A Joint System Development Liaison group (the JSDL) may be formed with a User for the purpose of investment planning co-ordination. Such groups shall be organised by NGCNGET and formed at the request of NGCNGET or a TO.
- 4.1.2.2 The JSDL shall consist of named representatives from the relevant User, NGCNGET and the relevant TO or TOs. The JSDL shall meet twice a year, although the frequency of the meetings can be varied with the agreement of all members of the JSDL. The agenda at the meeting may include, for example:
 - all parties' relevant projects from the Project Listings, including infrastructure and asset replacement projects;
 - Information about Grid Supply Points (DNOs only);
 - Information about Outages; or
 - Information about general issues.

4.2 Production of Investment Planning Project Listings

- 4.2.1 The JPC shall, at the first meeting of the calendar year, discuss and agree the programme, and key milestones for delivery of, the annual investment plan, which shall be documented in the agreed Investment Planning Study Guidelines.
- 4.2.2 The Parties shall review the Boundaries of Influence and produce the Hybrid GB Investment Planning Model and Summer Minimum GB Investment Planning Model in accordance with STCP 22-1 Production of Models for GB System Planning.
- 4.2.3 Each Party shall perform analysis on these Models based on the requirements of the Relevant Standards, including any sensitivity analysis considered relevant. Both the deterministic and economic requirements of the Relevant Standards shall be taken into account in any analysis.
- 4.2.4 Each Party shall consider future infrastructure reinforcements when considering any non-compliance with the Relevant Standards identified by the security analysis. Each Party shall also consider any new connection or asset replacement projects that are required, and will look to co-ordinate any future infrastructure reinforcements with such projects. Each Party shall also consider enduring changes to the capability of existing assets.
- 4.2.5 Each Party will produce a Project Listing, which is a summary of projects that will propose changes to its Transmission System, to make the Transmission System compliant with Relevant Standards.
- 4.2.6 For each Party's projects, that Party shall produce an initial PLD, in such detail as is reasonably practicable and appropriate at the time, which may include the following items:
 - project name;
 - brief narrative;
 - any changes to node and line data;
 - · schematic diagram;
 - key dates (including commissioning date, date by which stage by stage drawings will be available and date of initial Commissioning Panel meeting); and,
 - outline Outage requirements (circuits, duration, order and Emergency Return to Service Times).
- 4.2.7 Where a TO identifies a number of options for system reinforcement or modification that meet the deterministic and economic requirements of the Relevant Standards, they may request additional data from NGCNGET in order to complete a more detailed economic comparison of the options. Additional data may include estimates of MWh & MVArh costs, constraint volumes and constraint locations.
- 4.2.8 NGCNGET shall provide any data to the TO as reasonably requested in 4.2.7, to facilitate economic comparison of TO options. The data will not however, be detailed about the economics of any particular generator.
- 4.2.9 Each Party shall provide a Project Listing and associated PLDs to other Parties for each project within their Boundary of Influence to facilitate the co-ordination of TOs' Transmission Investment Plans and the NGC Investment Plan, and Outage planning.
- 4.2.10 The TOs shall provide NGCNGET with the complete Project Listing, the associated PLDs and complete TO Models Datasets representing the changes at this stage. All projects in the Project Listing will be used to form the Transmission Investment Plan or the NGCNGET Investment Plan for each of the Parties.
- 4.2.11 All Parties shall review projects which fall within their Boundary of Influence that have been provided by other Parties in 4.2.9. Parties shall review and provide comments on these projects to consider whether they are co-ordinated, economic, and efficient.
- 4.2.12 **NGCNGET** shall collate the Project Listings and perform an Operational Assessment.

- 4.2.13 The initial Operational Assessment will be based on the Investment Planning Background with any additional sensitivities agreed by the JPC. The Operational Assessment shall be based on node and line data and include:
 - a calculation of constraint costs during the construction phase, based on the Outage information provided in the PLDs; and,
 - an estimate of enduring constraint costs, based on average circuit availabilities and plausible planned Outage scenarios.
- 4.2.14 NGCNGET shall prepare separate Operational Assessment reports for each TO based on the results of the Operational Assessment. NGCNGET shall send to the TO a first draft of its Operational Assessment report. The Operational Assessment report will make suggestions and comments on:
 - problematic Outages and Outage combinations;
 - problematic transmission reinforcements;
 - · operational complexity issues; and
 - Outages that impact on Users.
- 4.2.15 All Parties shall consider the first draft of their Operational Assessment report and the reviews carried out under 4.2.11. Where suggested changes to the timing of Outages can be accommodated without a detrimental impact on the TOs capital programme, the relevant PLD will be updated, and revised TO ModelsDatasets, Project Listing and revised PLDs provided to NGCNGET, by the TOs.
- 4.2.16 If required, NGCNGET shall re-perform the Operational Assessment to reflect any agreed changes to the PLD(s). Where necessary, NGCNGET shall then revise and send to the relevant TO its Operational Assessment report.
- 4.2.17 If NGCNGET is not satisfied that the comments made in the draft Operational Assessment report have been properly considered by a TO, NGCNGET can contact the TO to set out the concerns.
- 4.2.18 Affected Parties can hold a meeting in order to try and resolve any disagreement. If the disagreement is resolved, then the TO shall update their PLDs and Project Listing or NGCNGET acknowledge the TO's final Project Listings.
- 4.2.19 Any updated Project Listing and PLDs will be sent to all relevant Parties by NGCNGET as appropriate.
- 4.2.20 If Parties cannot resolve the dispute, any of the Parties may refer the matter to the Authority, in accordance with the STC.
- 4.2.21 Based on the determination of the Authority, any changes required to the TOs Project Listing and PLDs will be re-issued to all affected Parties as appropriate.
- 4.2.22 NGCNGET shall provide information on longer-term Project Listings on the GB Transmission System that could affect Users, as part of the JSDLs' regular meetings. The information will be provided in the same form that it appears in the final PLD.
- 4.2.23 NGCNGET shall review the final PLD and identify developments on the GB Transmission System that could impact on Transmission Connection Assets. NGCNGET shall issue a Replacement Notice associated with these projects to Users as soon as reasonably practicable (ideally at least two years ahead of the need to start construction works). The Replacement Notice shall be in the form of a written letter, detailing the key reasoning for the proposals. For the avoidance of doubt, this notice does not place an obligation on the TOs to carry out this work.
- 4.2.24 Following the issue of the Replacement Notice, NGCNGET and the relevant TO shall meet the Users if required to discuss the engineering and economic reasons for the project, and to consider options, programme and costs associated with the replacement.

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4.3 Quarterly Investment Plan Update

4.3.1 Each TO shall make a formal update to its Investment Plan every quarter (including Project Listing, any changed PLDs and appropriate datasetsTO Models). Any material changes in between the quarterly updates (including schemes changing status from planned to firm and new schemes being added to the plan) shall be notified as soon as possible via an email to NGCNGET and the appropriate TO if within Boundary of Influence. Any Party may request further details about proposed changes, e.g. updated datasetsmodels or PLDs if required.

4.4 Changes to Planning Assumptions

4.4.1 At any time, NGCNGET may produce new Planning Assumptions either as a consequence of a TO requesting additional information from NGCNGET (this may follow the TO receiving notification from NGCNGET of a disconnection notice), or if NGCNGET decides it is appropriate to produce new Planning Assumptions. In such cases, the Parties shall agree which parts of the process in section 4.2 shall be followed to produce revised Project Listings and their associated revised or new Project Listing Documents.

4.5 Detailed Option Development

4.5.1 Economic Analysis

- 4.5.1.1 At the discretion of the TO, the TO shall work up an option in detail, using the consistent data Models. This will include detailed analysis of the chosen option against the latest Investment Planning Ranking Orders and Investment Planning Demand background, and will enable the production of a more detailed Outage programme.
- 4.5.1.2 Should the TO wish to carry out further economic analysis, NGCNGET shall provide economic data at the request of the TO. For the avoidance of doubt, the data will not be detailed about the economics of any particular User.
- 4.5.1.3 Based on the options available for the project, the relevant TO shall confirm the preferred solution to address a particular need. This will enable a firm assessment of the Outage proposals for the project to be undertaken by the TO, and an assessment of the Outage plan to be undertaken by NGCNGET. The TO shall also assess the impact of the project on other projects in its licensed area.
- 4.5.1.4 **NGCNGET** shall provide comments on the project to the relevant TO. This will include for example:
 - minor changes to timing to enable best fit with other projects;
 - changes to design to minimise constraints;
 - any impact on NGCNGET assets; and
 - estimate of impact, if any, on User assets.
- 4.5.1.5 Following receipt of any comments from NGCNGET, the TO shall assess NGCNGET 's comments, and revise the project accordingly. At the TO's discretion the status of the project within Project Listings will then be flagged as "firm". At this stage the scheme can still be changed. Any resulting changes in Outages shall be requested in accordance with STCP 11-1 Outage Planning.

4.5.2 Changes to **NGCNGET** assets

4.5.2.1 If changes to NGCNGET assets are required as a result of a TO project, NGCNGET shall consider the necessary works. These works will be added to NGCNGET Project Listings and flagged as "firm".

4.5.3 User Works and changes to Transmission Connection Assets

4.5.3.1 NGCNGET shall identify if there are changes to Transmission Connection Assets or a requirement for User works.

4.5.4 No User Works or changes to Transmission Connection Assets

4.5.4.1 Where the works do not involve changes to Transmission Connection Assets and do not trigger User works, NGCNGET shall confirm that no TO Construction Offer shall be required and the works may proceed.

4.5.5 Changes to Transmission Connection Assets

- 4.5.5.1 If there are changes to Transmission Connection Assets, NGCNGET shall request a TO Construction Offer, and the TO shall make an offer to NGCNGET using relevant parts of STCP 18-1.
- 4.5.5.2 If Transmission Connection Assets require replacement, NGCNGET shall make an offer for asset replacement to the User, in accordance with the GB CUSC. This offer shall be issued no sooner than 6 months after the asset Replacement Notice in section 4.2.23.

4.5.6 User works required

- 4.5.6.1 If User works are required, NGCNGET shall submit a Modification Notification to the User in accordance with the GB CUSC.
- 4.5.6.2 Upon receipt of the Modification Notification, the User will submit a Modification Application, in accordance with the GB CUSC.
- 4.5.6.3 Upon receipt of the Modification Application from the User, in accordance with the GB CUSC, NGCNGET shall make a Modification Offer. The process for Modifications is outlined in STCP 18-1 Connection and Modification Application
- 4.5.6.4 Following the signing of the Modification Offer by the User within the offer validity period, NGCNGET shall sign the TO Construction Offer and the TO may proceed with the construction of the project in accordance with STCP 19.2 Construction Process and Scheme Closure.
- 4.5.6.5 Should the User not sign the Modification Offer within the offer validity period, the works cannot proceed and the User or NGCNGET (with the agreement of the TO) can take the application to the Authority to settle any dispute under the terms of the CUSC.
- 4.5.6.6 Notwithstanding paragraphs 4.5.3.1 to 4.5.6.5, in the event of either a failure of a TO asset in situ, or an urgent safety issue, NGCNGET and the TO shall consult with the User(s) as far as reasonably practicable prior to the replacement of the affected asset. NGCNGET shall advise the User of the change, and as soon as possible make an offer for the replacement, which may be accepted or referred to the Authority, in accordance with the CUSC.

Appendix A: Definitions

Abbreviations

DNO	Distribution Network Operator
GB SQSS	GB Security and Quality of Supply Standard
JPC	Joint Planning Committee
JSDL	Joint System Development Liaison Group
PLD PLD	Project Listing Document
SHETL	Scottish Hydro Electric Transmission Ltd
SPT	SP Transmission Ltd
SRS	Site Responsibility Schedules
STC	System Operator Transmission Owner Code
SYS	Seven Year Statement
то	Transmission Owner

STC definitions used:

- -Authority
- -Commissioning
- -cusc
- -Customer
- Distribution Licence
- Emergency Return To Service
- -GB
- **GB Transmission System**
- -Grid Code
- -Host TO
- Modification
- NGC Investment Plan
- -Outage
- -Party
- Seven Year Statement
- Transmission Connection Assets
- -Transmission Investment Plan
- TO Construction Offer
- TO Construction Agreement
- -Transmission Investment Plan
- -User

Grid Code Definitions Used

- Grid Supply Points

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CUSC Definitions Used

- Bilateral Agreement
- Modification Notification
- Modification Application
- Modification Offer
- Replacement Notice

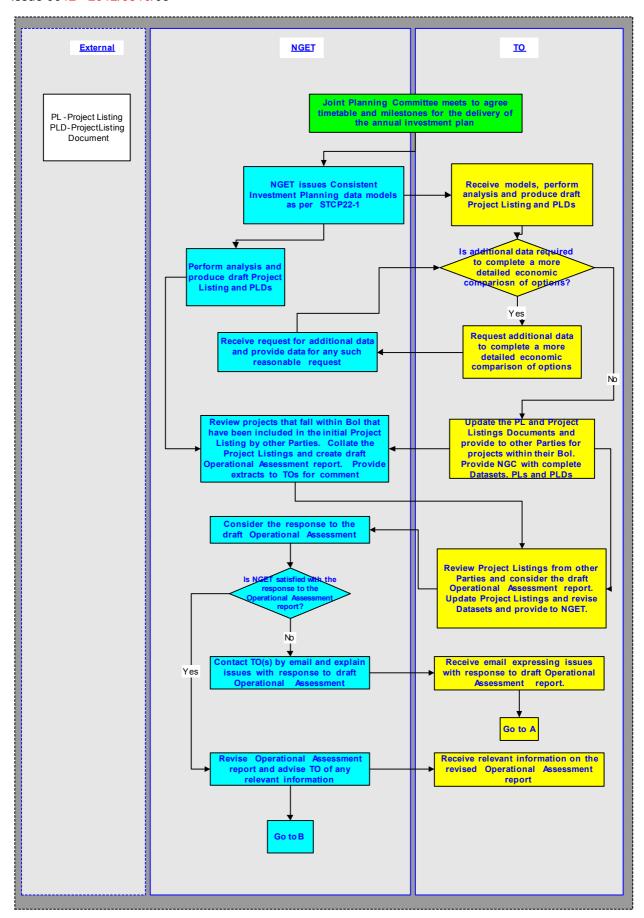
Definitions used in the document that are covered in other STCPs

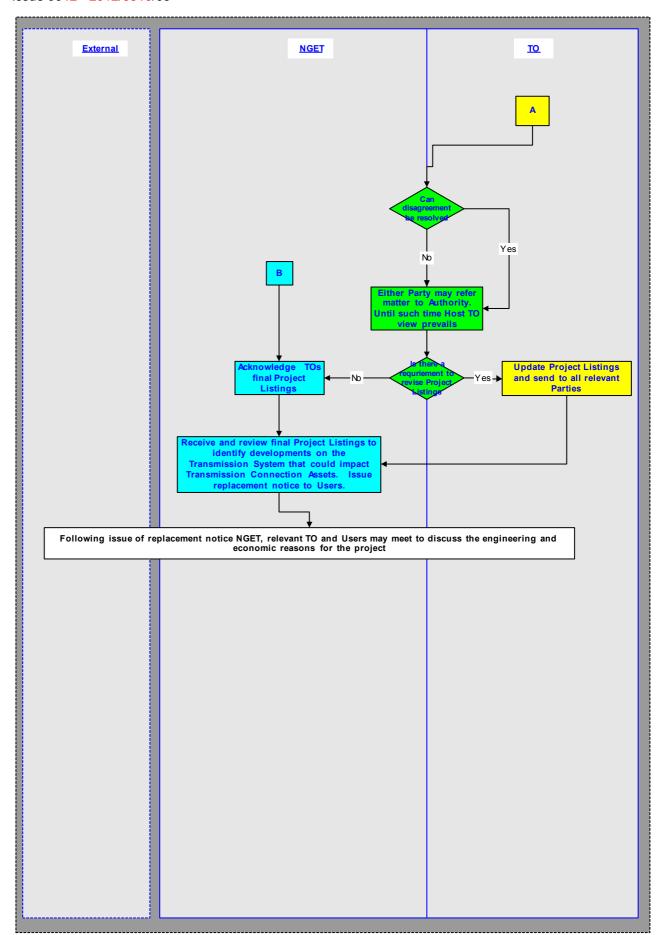
- Boundary of Influence as defined in STCP 22-1.
- Commissioning Panel as defined in STCP19-4
- Dataset as defined in STCP 22-1.
- Host TO as defined in STCP18-1
- Hybrid GB Investment Planning Model as defined in STCP 22-1
- Investment Planning as defined in STCP22-1
- Minimum GB Investment Planning Model as defined in STCP 22-1
- Models as defined in STCP 22-1.
- Ranking Order as defined in STCP 22-1

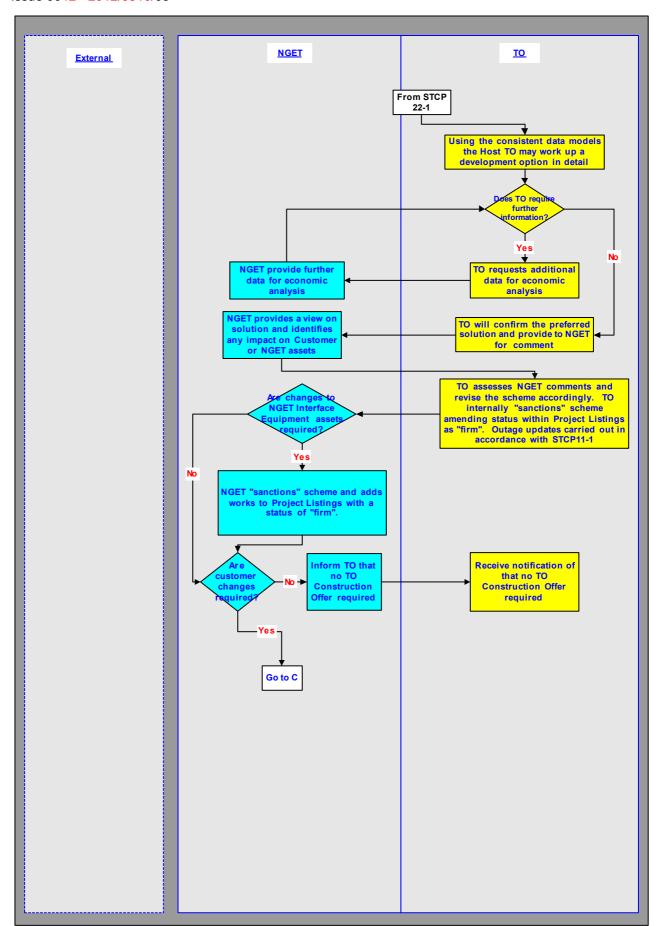
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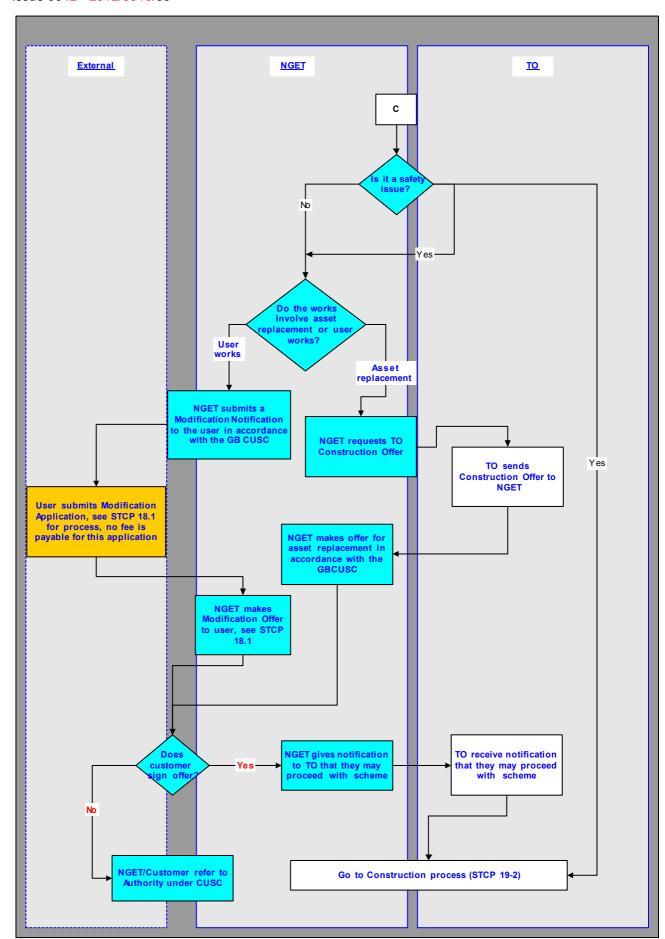
Appendix AB: Flow Diagram

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 A and the process described elsewhere in this STCP, then the text elsewhere in this STCP shall prevail.









Appendix CB Project Listing Document

Project Listing	Docume	nt												
Project Number														
Project Name														
Description														
Scheme Driver														
Project Status							1							
Document Referer	nce													
Planning Backgrou														
Version Number of														
Project List Item A	uthorisation	1												
	Company													
	Representa	ative												
	Date													
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Indicative Outages														
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Commissioning Da	ate Swings svoil	ablo					-							
Stage by stage dra First commissioning	awii igs avaii na panel	abie												
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Node & Line Data		uit Identifica			Parameters				Rating		1			
Data type	From	То	ID	R	Х	В	Тар	Summer	Spr/Aut	Winter				
Other Data	Parameter1	Parameter2	Parameter3	Parameter4	Parameter5	Parameter6	Parameter7	Parameter8	Parameter9	Parameter10				

Appendix CD Project Listing

Project Listing	
Planning Background	SYS 20Oct2004
Version	1
Last Updated	19/May/2005
Comments	

Company	Material Impact	Scheme Driver	Commissioning Date	Project Status	Version	Last Updated	Replacement?	User Works?

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Appendix D: Abbreviations & Definitions

Abbreviations

DNO Distribution Network Operator

GB SQSS GB Security and Quality of Supply Standard

JPC Joint Planning Committee

JSDL Joint System Development Liaison Group

PLD Project Listing Document

SHETL Scottish Hydro-Electric Transmission Ltd

SPT SP Transmission Ltd

SRS Site Responsibility Schedules

STC System Operator Transmission Owner Code

SYS Seven Year Statement
TO Transmission Owner

Definitions

STC definitions used:

Authority

CUSC

Customer

Distribution Licence

Emergency Return To Service

GB

GB Transmission System

Grid Code

Modification

NGET

NGET Investment Plan

Outage

Party

Seven Year Statement

Transmission Connection Assets

Transmission Investment Plan

TO Construction Offer

TO Construction Agreement

Transmission Investment Plan

User

Grid Code Definitions Used

STCP 16-1 Investment Planning

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Grid Supply Points

CUSC Definitions Used

- Bilateral Agreement
- Modification Notification
- Modification Application
- Modification Offer
- Replacement Notice

Definitions used in the document that are covered in other STCPs

- Boundary of Influence as defined in STCP 22-1.
- Commissioning Panel as defined in STCP19-4
- Host TO as defined in STCP18-1
- Hybrid GB Investment Planning Model as defined in STCP 22-1
- Investment Planning as defined in STCP22-1
- Summer Minimum GB Investment Planning Model as defined in STCP 22-1
- TO Model as defined in STCP 22-1
- Ranking Order as defined in STCP 22-1
- Host TO as defined in STCP18-1