

STCP Amendment Proposal Form

PA042

1. Title of Amendment Proposal

STCP 20-1 – Consequential changes due to the incorporation of STCP22-1

2. Description of the Proposed Amendment (mandatory field)

Proposal requests minor amendments to STCP20-1 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 pose any new requirements or change the current arrangements within the STCP.

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

The incorporation of STCP22-1 into Schedule 2 of the STC, introduced new terminology. STCP20-1 makes reference to STCP22-1 and it is important that the correct terminology is referred to. This amendment proposes minor amendments to STCP20-1 to reflect new STCP22-1 terminology.

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

None

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

None

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

None

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

None

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

None

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

It is the view of the proposer that 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 co-ordinated 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 Electricity Transmission plc
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	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 STCP20-1	

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 STCP20-1 (Seven Year Statement)

STCP20-1 Issue 001 Seven Year Statement

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	Issue 001 following BETTA Go-Live
Issue 002	25/11/2005	Issue 002 incorporating PA034, PA037 & PA042

~~**Draft changes to go with issue of 22-1. Needs to be merged with definition changes, changes to NGC etc.**~~

1 Introduction

1.1 Scope

1.1.1 This procedure describes the process for producing and publishing the Seven Year Statement (SYS).

1.1.2 This procedure applies to **NGGNGET** and each TO. For the purposes of this document, TOs are:

- SPT; and
- SHETL.

1.1.3 This procedure defines the tasks, formal documentation, interface requirements, timescales and responsibilities that apply to **NGGNGET** and the TOs.

1.1.4 **NGGNGET** shall be responsible for preparing and publishing the SYS in accordance with its Transmission Licence. This will include:

- submitting proposed changes to the SYS Form to the Authority for approval;
- creating and updating the Demand and generation backgrounds (for Great Britain) and SYS Networks (for the **NGGNGET**'s Transmission System);
- carrying out analysis on the **NGGNGET**'s Transmission System;
- producing the relevant commentaries;
- collating and compiling the SYS document; and
- making the SYS publicly available.

1.1.5 Each TO shall be responsible for supporting **NGGNGET** in producing and publishing the SYS in accordance with the agreed **SYS** Study Guidelines. This will include:

- Creating and update the SYS Networks (for that TO's Transmission System);
- carrying out analysis on it's Transmission System;
- producing the deliverables (tables, figures, text etc.) to be included in the SYS; and
- producing the relevant commentaries.

1.2 Objectives

1.2.1 The objective of this procedure is to detail how the Seven Year Statement process will be addressed across the **NGGNGET** ~ TO interface and the TO ~ TO interface, so as to ensure that responsibilities are clear and Transmission Licence conditions are satisfactorily discharged.

2 Key Definitions

2.1 For the purposes of STCP 20-1:

- 2.1.1 **Boundary Capability** means the firm Transmission capability of a boundary between any two areas of the GB Transmission System in accordance with GB SQSS.
- 2.1.2 **Consultation Freeze Date** means the 1st of September annually. This is the date that **NGCNGET** cease to consider comments for that year.
- 2.1.3 **Stakeholders** means any user of the SYS, and includes TOs.
- 2.1.4 **SYS Study Guidelines** means a document agreed between **NGCNGET** and TOs that specifies details of the analysis work for the SYS. It includes: generic Planning Assumptions, the SYS Programme, TO and **NGCNGET** deliverables and the format they will be presented, contingencies and rules of comparison (i.e. acceptable tolerances) for consistency checking, outlines of the analysis work to be carried out (i.e. scenarios and sensitivities)
- 2.1.5 **SYS Form** means the scope and format of the Seven Year Statement
- 2.1.6 **SYS Form Outline** means the document that **NGCNGET** shall submit to the Authority which records all the proposed changes that **NGCNGET** wishes to make to the SYS Form. An explanation for each of the changes will also be provided in the document.
- 2.1.7 **SYS Network** is the connectivity network used in the creation of the SYS model.
- 2.1.8 **SYS Update** means an update to the SYS in accordance with the Transmission Licence Standard Conditions C11, paragraph 3.

3 Procedure

3.1 Consultation and Contents/Format Approval

- 3.1.1 Following the Consultation Freeze Date, **NGCNGET** shall evaluate any responses that relate solely to **NGCNGET**'s contribution to the SYS. **NGCNGET** and each TO shall jointly evaluate responses that are related solely to the TOs' contributions to the SYS in a 'SYS Form Outline' meeting, if required.
- 3.1.2 Not less than 5 Business Days prior to the SYS Form Outline meeting **NGCNGET** shall forward any Stakeholders responses to be discussed at the meeting, for consideration by the TOs. The Parties shall endeavour to agree any changes to the SYS Form that will impact on the TOs SYS deliverables within 20 Business Days of closure of the Consultation Freeze Date.
- 3.1.3 Following the SYS Form Outline meeting, **NGCNGET** shall produce a draft of the SYS Form Outline document containing the proposed changes to the SYS Form, highlighting any changes from the previous year's SYS format. This document will include possible changes to the TOs' deliverables.
- 3.1.4 **NGCNGET** shall circulate the draft of the SYS Form Outline to each TO, who shall then submit comments to **NGCNGET**. **NGCNGET** shall incorporate comments from each TO into the SYS Form Outline where appropriate. When the SYS Form Outline

has been finalised and agreed by the Parties it shall be formally signed off by a company representative within 30 Business Days of the Consultation Freeze Date.

- 3.1.5 If **NGCNGET** and TO fail to agree upon the SYS Form for the next SYS, either Party may raise a dispute in accordance with the STC.
- 3.1.6 **NGCNGET** shall submit the revised SYS Form Outline document, incorporating the Stakeholder's comments as appropriate, to the Authority for approval within 5 Business Days of the Parties formally signing off the SYS Form Outline (see 3.1.4).
- 3.1.7 Following the submission of the SYS Form Outline document to the Authority, **NGCNGET** and where relevant the TOs, shall make themselves available to the Authority to discuss any aspects of the SYS Form that may be of concern to the Authority, or which the Authority may wish to alter.
- 3.1.8 **NGCNGET** shall produce and submit to the TOs' draft **SYS** Study Guidelines, based on the previous years' **SYS** Study Guidelines, updated to reflect any changes required to the submitted SYS Form. This may also include any updates required to improve the efficiency of the SYS production, identified from the previous years' experience.
- 3.1.9 The draft **SYS** Study Guidelines will include a SYS Programme and an associated list of deliverables with target dates. **NGCNGET** shall submit, to the TOs, the draft **SYS** Study Guidelines 10 Business Days after the submission to the authority of the SYS Form.
- 3.1.10 The TOs shall respond to **NGCNGET** within 10 Business Days, with any issues or changes they would like to make to the draft **SYS** Study Guidelines document.
- 3.1.11 **NGCNGET** shall revise the draft **SYS** Study Guidelines to reflect the TOs' comments where appropriate, and re-submit it to the TOs for agreement, within 10 Business Days of receiving the TOs' comments.
- 3.1.12 **NGCNGET** and each TO may meet to review any outstanding issues associated with the draft Study Guidelines.
- 3.1.13 **NGCNGET** and TOs shall continue to produce the SYS taking account of the proposed SYS Form Outline document, the existing SYS Form and the draft **SYS** Study Guidelines
- 3.1.14 When **NGCNGET** has received the SYS Form conclusions of the Authority and any amendments to the SYS Form Outline document, **NGCNGET** shall notify the TOs of these amendments.
- 3.1.15 **NGCNGET** shall revise the draft Study Guidelines to reflect any changes to SYS Form and submit the revised **SYS** Study Guidelines to the TOs as soon as possible after the confirmation of the SYS Form from the Authority, but not longer than 10 Business Days after that confirmation.
- 3.1.16 The TOs shall respond to **NGCNGET** within 10 Business Days, with any comments they would like to make to the **SYS** Study Guidelines document.
- 3.1.17 **NGCNGET** shall revise the **SYS** Study Guidelines to reflect the TOs' comments where appropriate, and submit it to the TOs' for final agreement, within 10 Business Days of receiving the TOs' comments.
- 3.1.18 **NGCNGET** shall arrange a meeting with all the TOs' to discuss any changes in detail. When the **SYS** Study Guidelines have been finalised and agreed by all Parties it shall be signed off by each of the Parties.

3.2 GB Model Creation

3.2.1 Parties shall create Preliminary GB SYS Models in accordance with STCP 22-1.

3.3 Analysis and Commentaries

3.3.1 **NGCNGET** and each of the TOs shall carry out analysis work in accordance with the agreed **SYS** Study Guidelines. This will include:

- Determining any reinforcements required to make the Preliminary GB SYS Models compliant with the GB SQSS. Details of these reinforcements will be contained within Project Listing Documents and will be exchanged, with whole datasets, in accordance with STCP22-1;
- determining fault levels for each transmission node in their network;
- determining loading on each part of their Transmission System;
- determining forecast power flows on each part of their Transmission System;
- determining Boundary Capabilities, and
- carrying out such additional studies as maybe required to identify opportunities for connection and use of the GB Transmission System.

3.3.2 Parties will follow the procedures in STCP22-1 to allow **NGCNGET** to provide TOs with the Final Compliant GB SYS Models.

3.3.3 Each TO shall provide draft commentaries on their Transmission System Boundary Capabilities to **NGCNGET**. These shall include areas of opportunities and those boundaries that are close to their Boundary Capability limits. The TOs shall submit these draft commentaries to **NGCNGET** in accordance with the agreed **SYS** Study Guidelines (format and **SYS** Programme).

3.3.4 **NGCNGET** shall use the draft commentaries on the TOs' Transmission System Boundary Capabilities to evaluate the opportunities available to customers seeking to connect to and/or make use of the GB Transmission System. **NGCNGET** shall discuss the availability of opportunities with each TO that exists on that TO's Transmission System. Following discussions with each TO, **NGCNGET** shall prepare the commentary indicating those parts of the GB Transmission System most suited to new connections and transport of further quantities of electricity.

3.3.5 **NGCNGET** shall prepare commentaries on ancillary service opportunities, including:

- Frequency response;
- voltage support, and
- reactive market in accordance with the agreed **SYS** Form.

To assist **NGCNGET** in producing the commentary on voltage support, each TO shall submit to **NGCNGET** any additional reactive compensation equipment that the TO considers to be required on their Transmission System over the next seven years.

3.3.6 **NGCNGET** shall prepare commentaries on GB electrical demands and GB energy requirements, including existing and future generation plant margins and penetration of embedded generation, in accordance with the agreed **SYS** Form and **SYS** Study Guidelines.

~~3.3.6~~

3.4 Production and Publication

- 3.4.1 ~~NGCNGET~~ and each of the TOs shall produce outputs from their network analysis, including the relevant text, in accordance with the **SYS** Study Guidelines. Each TO shall submit to ~~NGCNGET~~ the completed outputs in accordance with the **SYS** Programme.
- 3.4.2 ~~NGCNGET~~ shall use the outputs from the TOs to prepare a draft of the **SYS**, (including the text, figures, tables and appendices) in accordance with the agreed **SYS** Form.
- 3.4.3 In accordance with the **SYS** Programme, ~~NGCNGET~~ shall send the relevant sections of the draft **SYS** document to the relevant TO for comment. The TO shall provide comments back to the ~~NGCNGET~~ within 10 Business Days of receiving the relevant sections of the draft **SYS** document.
- 3.4.4 ~~NGCNGET~~ shall evaluate the comments from the TOs and redraft the **SYS** document incorporating the TOs' comments as appropriate. ~~NGCNGET~~ shall re-circulate the relevant sections of the document to the TOs for final comments in line with the dates set out by the **SYS** Programme.
- 3.4.5 The TOs shall provide to ~~NGCNGET~~, from the appropriate company representative, agreement to the relevant sections of the **SYS** Programme in the form of a company letter (in accordance with the **SYS** Programme). If required, ~~NGCNGET~~ shall arrange a meeting with the TOs to discuss any outstanding comments and gain editorial agreement.
- 3.4.6 ~~NGCNGET~~ shall publish the **SYS** in accordance with its Transmission Licence.

3.5 Quarterly/Periodic Update Process

- 3.5.1 A calendar month before the publication of a SYS Update, ~~NGCNGET~~ shall notify each TO, by email that an update to the SYS is going to be produced. The notification will include the first draft of the SYS Update, based upon information currently available to ~~NGCNGET~~, and request the TOs to verify any changes to any committed schemes in the period since the previous SYS or SYS Update.
- 3.5.2 ~~NGCNGET~~ shall also provide to the TOs additional technical information, relating to generators that have entered into connection agreements since the previous SYS or SYS Update was produced.
- 3.5.3 As soon as reasonably practicable and in any event within 10 Business Days of the receipt of the notification, each TO shall provide to ~~NGCNGET~~, by email, confirmation of any changes to the committed schemes as well as any new committed schemes, which require inclusion in the SYS Update. For any new committed schemes, the TOs shall produce Project Listing Documents and ~~Datasets-TO Models~~ in accordance with STCP 16-1.
- 3.5.4 On receipt of the confirmation from the TOs and details of any relevant changes, ~~NGCNGET~~ shall revise the draft SYS Update accordingly and within 5 Business Days circulate to the TOs a second draft for final comments.
- 3.5.5 As soon as reasonably practicable and in any event within 3 Business Days of the receipt of the second draft of the SYS Update, each TO shall provide to ~~NGCNGET~~ with final comments and approval to publish.
- 3.5.6 ~~NGCNGET~~ shall make any final amendments to the SYS Update in line with the TOs final comments and publish the SYS Update in accordance with its Transmission Licence. ~~Appendix A – Definitions~~

Abbreviations

All defined in STC:

- ~~□GB SQSS – Security and Quality of Supply Standard~~
- ~~□SHETL – Scottish Hydro-Electric Transmission Ltd~~
- ~~□SPT – SP Transmission Ltd~~
- ~~□STC – System Operator – Transmission Owner Code~~
- ~~□SYS – Seven Year Statement~~
- ~~□TO – Transmission Owner~~

Definitions (other than those defined in Key Definitions)

STC definitions used:

- ~~□Authority~~
- ~~□Business Days~~
- ~~□GB~~
- ~~□GB Transmission System~~
- ~~□NGC~~
- ~~□Party~~

STCP20-1 Seven Year Statement

Issue 0024 – 2625/0511/2005

- ~~□ Planning Assumptions~~
- ~~□ Seven Year Statement~~
- ~~□ SYS Programme~~
- ~~□ Transmission~~
- ~~□ Transmission Licence~~
- ~~□ Transmission Owner~~
- ~~□ Transmission System~~

~~**Grid Code definitions used:**~~

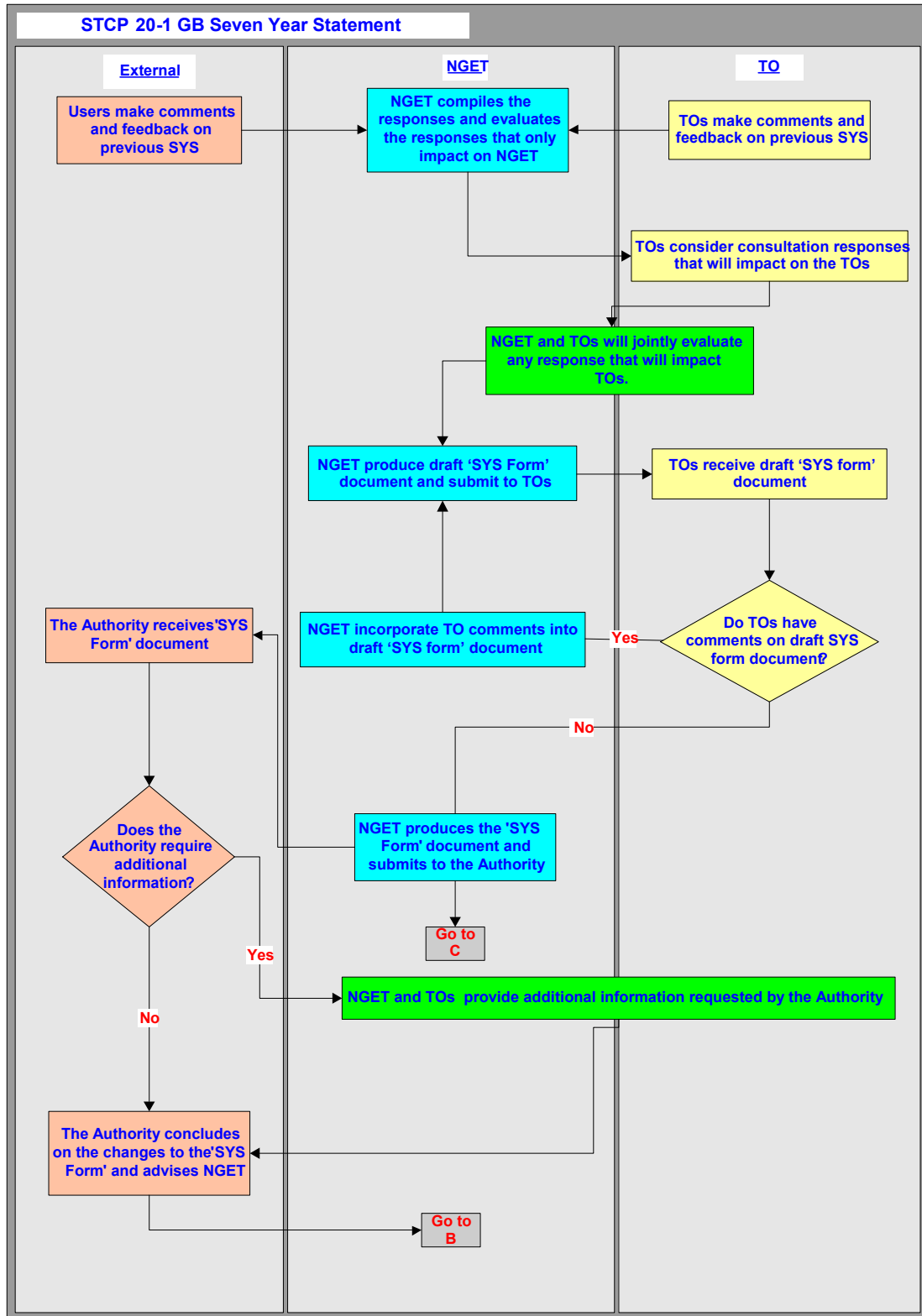
- ~~□ Frequency~~

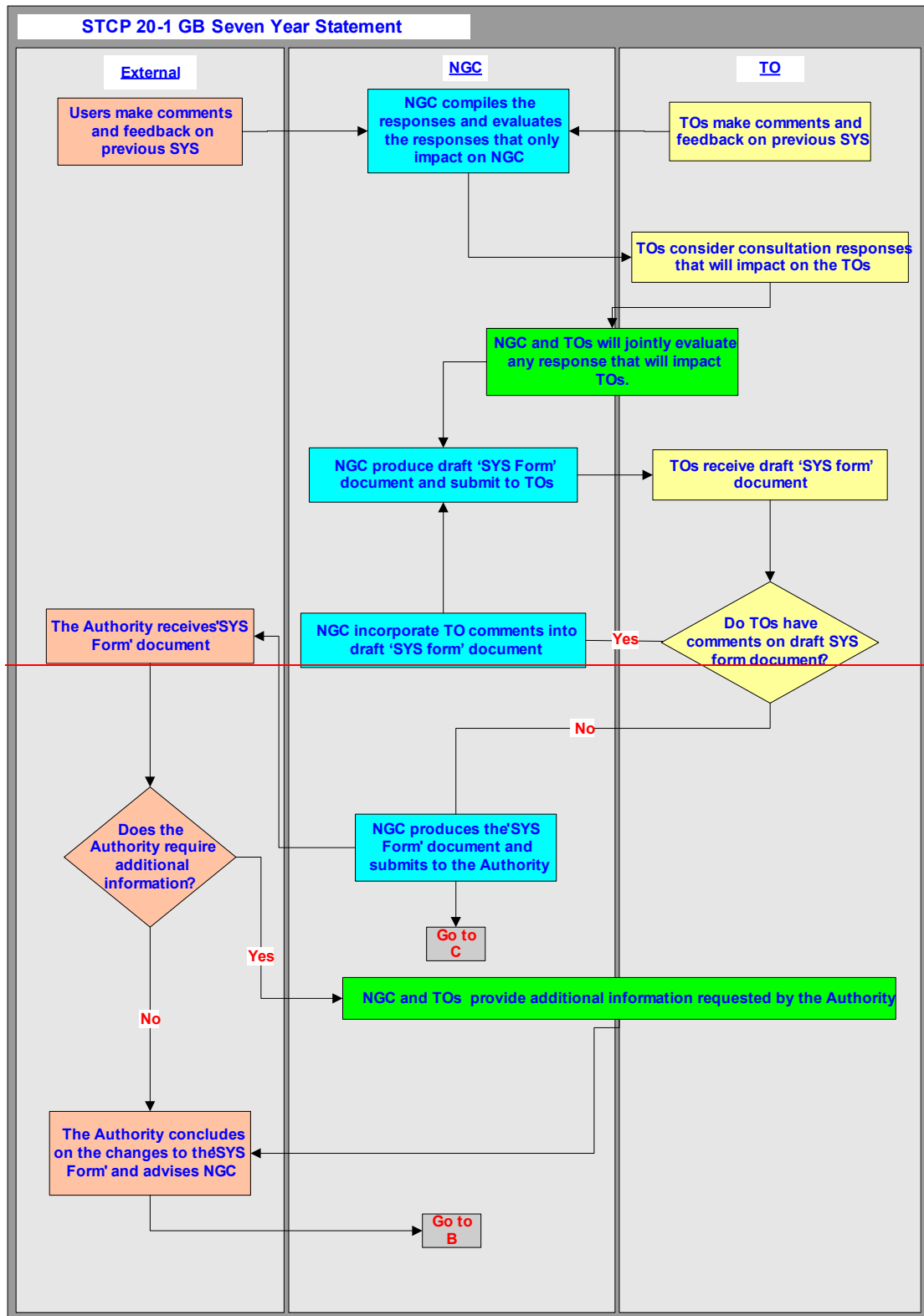
~~**Definitions used in the document that are covered in other STCPs**~~

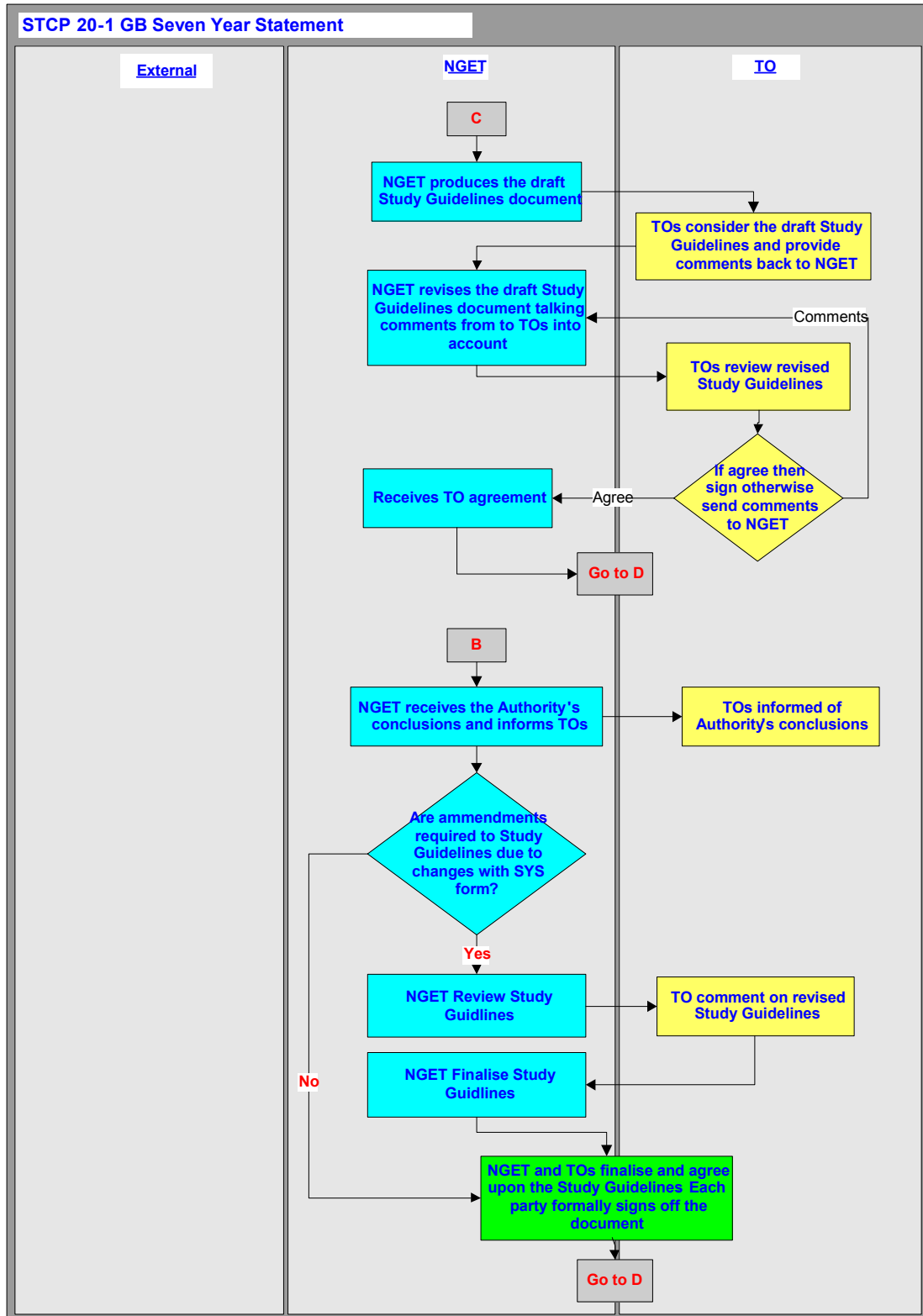
- ~~□ **Datasets** means as defined STCP 22-1.~~
- ~~□ **Final Compliant GB SYS Models** means as defined STCP 22-1.~~
- ~~□ **TO Model** means as defined STCP 22-1.~~
- ~~□ **Preliminary GB SYS Models** means as defined STCP 22-1.~~
- **Project Listing Document** means as defined STCP 16-1.

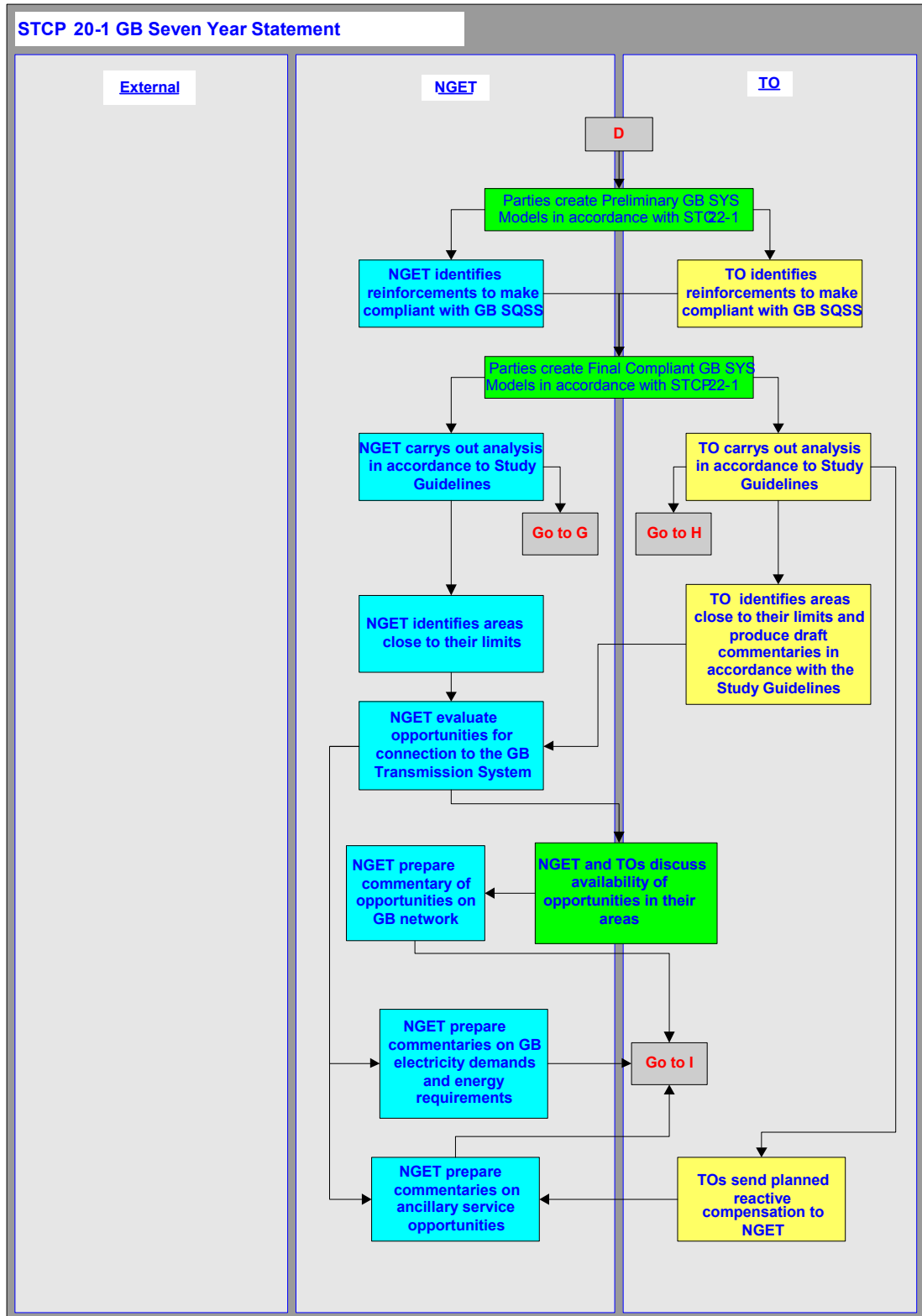
Appendix ~~B~~A: Flow Diagram

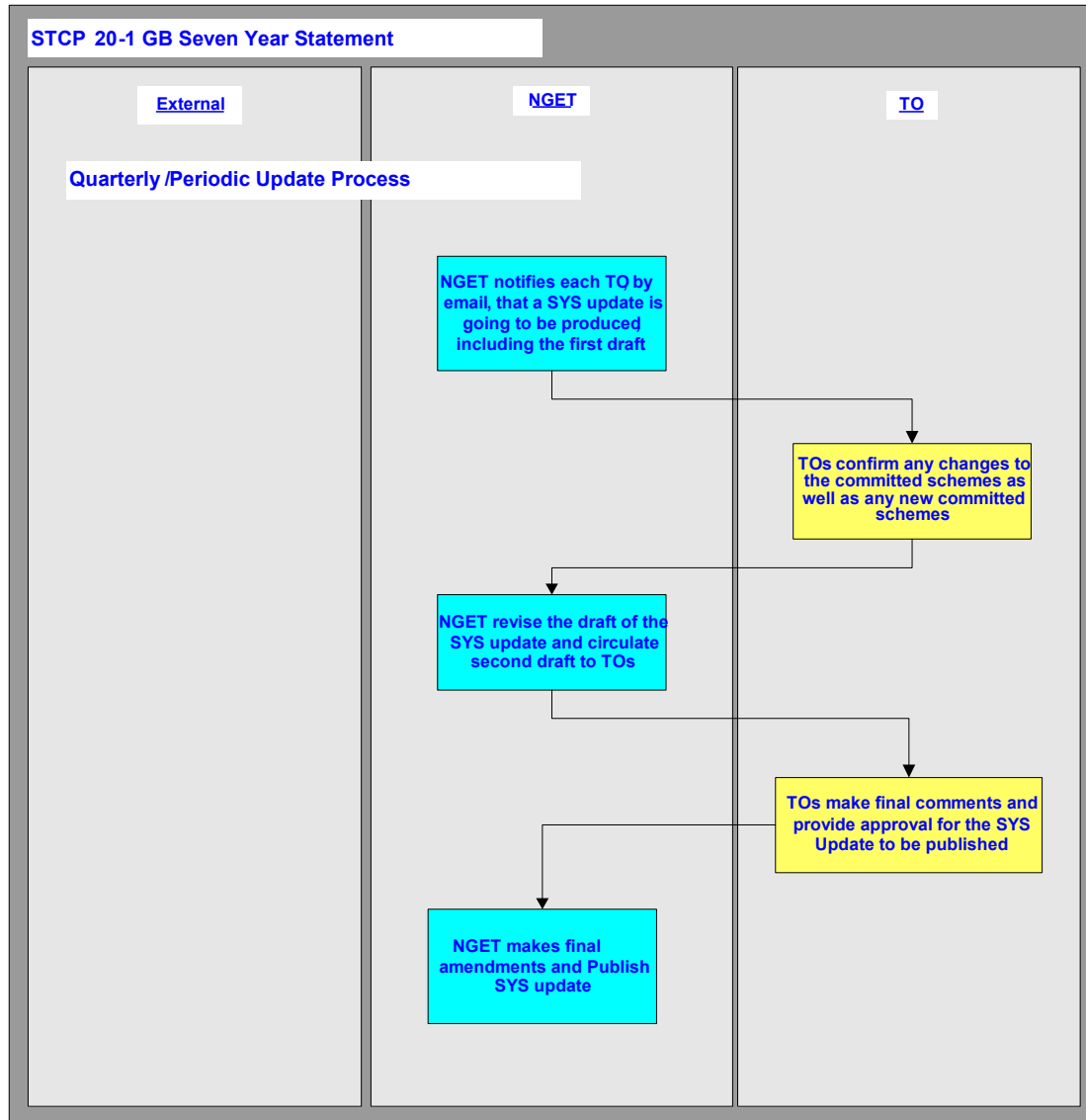
Note that the Flow Diagrams shown in this Appendix ~~B~~A are for information only. In the event of any contradiction between the process represented in this Appendix and the process described elsewhere in this STCP, then the text elsewhere in this STCP shall prevail.











Appendix B: Abbreviations & Definitions

Abbreviations

GB SQSS	Security and Quality of Supply Standard
SHETL	Scottish Hydro-Electric Transmission Ltd
SPT	SP Transmission Ltd
STC	System Operator – Transmission Owner Code
SYS	Seven Year Statement
TO	Transmission Owner

Definitions

STC definitions used:

Authority

Business Days

GB

GB Transmission System

NGET

Party

Planning Assumptions

Seven Year Statement

SYS Programme

Transmission

Transmission Licence

Transmission Owner

Transmission System

Grid Code definitions used:

Frequency

Definitions used in the document that are covered in other STCPs:

Final Compliant GB SYS Models means as defined STCP 22-1.

TO Model means as defined STCP 22-1.

Preliminary GB SYS Models means as defined STCP 22-1.

Project Listing Document means as defined STCP 16-1.