

# STCP Amendment Proposal Form

PA017

**1. Title of Amendment Proposal**

STCP 16-1 – Creation of new STCP and incorporation within Schedule 2 of the STC

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

The creation of STCP 16-1: Investment Planning and its incorporation within Schedule 2 of the STC.

It is proposed that this STCP Amendment becomes effective on 26<sup>th</sup> May 2005.

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

Prior to BETTA Go-Live the STC Parties identified a number of STCPs that while necessary were not required to be introduced before the BETTA Go-Live Date of 1 April 2005.

Since the BETTA Go-Live Date the development of these STCPs has progressed to such a stage that a number of these STCPs are now ready to be formally created and incorporated with Schedule 2 of the STC. This STCP Amendment Proposal proposes that STCP 16-1: Investment Planning is created and incorporated within Schedule 2 of the STC.

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

Introduction of STCP 16-1: Investment Planning, which is attached at Attachment 1 to this STCP Amendment Proposal.

**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)**

Although the introduction of this STCP was not deemed as critical for Go-Live it is the view of the proposer that should this STCP now be created and incorporated within Schedule 2 of the STC 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.

|   |  |
|---|--|
| <b>Details of Proposer</b><br>Organisation's Name   | National Grid Company plc  |
| Capacity in which the Amendment is being proposed<br>(i.e. STC Party or other Party as designated by the Authority pursuant to STC section B7.2.2.1 (b))            | STC Party  |
| <b>Details of Proposer's Representative</b><br>Name<br>Organisation<br>Telephone Number<br>Email Address  | Mark Duffield<br>National Grid Company plc<br>01926 654971<br><a href="mailto:mark.duffield@ngtuk.com">mark.duffield@ngtuk.com</a> |
| <b>Details of Representative's Alternate</b><br>Name<br>Organisation<br>Telephone Number<br>Email Address   | Ben Graff<br>National Grid Company plc<br>01926 656368<br><a href="mailto:Ben.Graff@ngtuk.com">Ben.Graff@ngtuk.com</a>             |
| <b>Attachments (Yes/No): Yes</b><br>If yes, title and number of pages of each attachment:<br>Attachment 1 (xx Pages): Legal text for STCP 16-1: Investment Planning |  |

**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 Company plc

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

Or via e-mail to: [STCTeam@uk.ngrid.com](mailto:STCTeam@uk.ngrid.com)

**Attachment 1: Legal Text for STCP 16-1 Investment Planning**

# ***STCP 16-1 Issue 001 Investment Planning***

## ***STC Procedure Document Authorisation***

| <b>Company</b>                           | <b>Name of Party Representative</b> | <b>Signature</b> | <b>Date</b> |
|--|-------------------------------------|------------------|-------------|
| National Grid Company 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 |
|-----------|------------|-------------------------------------|

## **1 Introduction**

### **1.1 Scope**

1.1.1 This procedure applies to NGC 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 NGC-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 **Joint Planning Committee (JPC)** means the committee formed under section 4.1.1.

2.1.3 **Joint System Development Liaison group (JSDL)** means the groups formed under section 4.1.2.

2.1.4 **Operational Assessment** means an estimate of the system constraint costs against the Project Listings proposed by the relevant TOs.

2.1.5 **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 D).

2.1.6 **Project Listing Document (PLD)** means a document describing a specific project or set of projects to modify the GB Transmission System (see Appendix C).

2.1.7 **Relevant Standards** means the GB Security and Quality of Supply Standard (GB SQSS).

2.1.8 **Week 24 Data Submission** means that data which is submitted to NGC 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 NGC 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 NGC;
- 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 NGC;
- 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-NGC 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 NGC and formed at the request of NGC or a TO.

4.1.2.2 The JSDL shall consist of named representatives from the relevant User, NGC 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.

4.2.2 The Parties shall review the Boundaries of Influence and produce the Hybrid GB Investment Planning Model and 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 NGC in order to complete a more detailed economic comparison of the options. Additional data may include estimates of MWh & MVA<sub>h</sub> costs, constraint volumes and constraint locations.

4.2.8 NGC 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 NGC with the complete Project Listing, the associated PLDs and complete Datasets representing the changes at this stage. All projects in the Project Listing will be used to form the Transmission Investment Plan or the NGC 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 NGC 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 NGC shall prepare separate Operational Assessment reports for each TO based on the results of the Operational Assessment. NGC 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 Datasets, Project Listing and revised PLDs provided to NGC, by the TOs.

4.2.16 If required, NGC shall re-perform the Operational Assessment to reflect any agreed changes to the PLD(s). Where necessary, NGC shall then revise and send to the relevant TO its Operational Assessment report.

4.2.17 If NGC is not satisfied that the comments made in the draft Operational Assessment report have been properly considered by a TO, NGC 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 NGC acknowledge the TO's final Project Listings.

4.2.19 Any updated Project Listing and PLDs will be sent to all relevant Parties by NGC 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 NGC 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 NGC shall review the final PLD and identify developments on the GB Transmission System that could impact on Transmission Connection Assets. NGC 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, NGC 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.

### **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 datasets). 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 NGC and the appropriate TO if within Boundary of Influence. Any Party may request further details about proposed changes, e.g. updated datasets or PLDs if required.

#### **4.4 Changes to Planning Assumptions**

4.4.1 At any time, NGC may produce new Planning Assumptions either as a consequence of a TO requesting additional information from NGC (this may follow the TO receiving notification from NGC of a disconnection notice), or if NGC 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, NGC 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 NGC. The TO shall also assess the impact of the project on other projects in its licensed area.

4.5.1.4 NGC 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 NGC assets; and
- estimate of impact, if any, on User assets.

4.5.1.5 Following receipt of any comments from NGC, the TO shall assess NGC'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 NGC assets**

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

##### **4.5.3 User Works and changes to Transmission Connection Assets**

4.5.3.1 NGC 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, NGC 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, NGC shall request a TO Construction Offer, and the TO shall make an offer to NGC using relevant parts of STCP 18-1.

4.5.5.2 If Transmission Connection Assets require replacement, NGC 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, NGC 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, NGC 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, NGC 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 NGC (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, NGC and the TO shall consult with the User(s) as far as reasonably practicable prior to the replacement of the affected asset. NGC 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     | 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                         |

### **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

**CUSC Definitions Used**

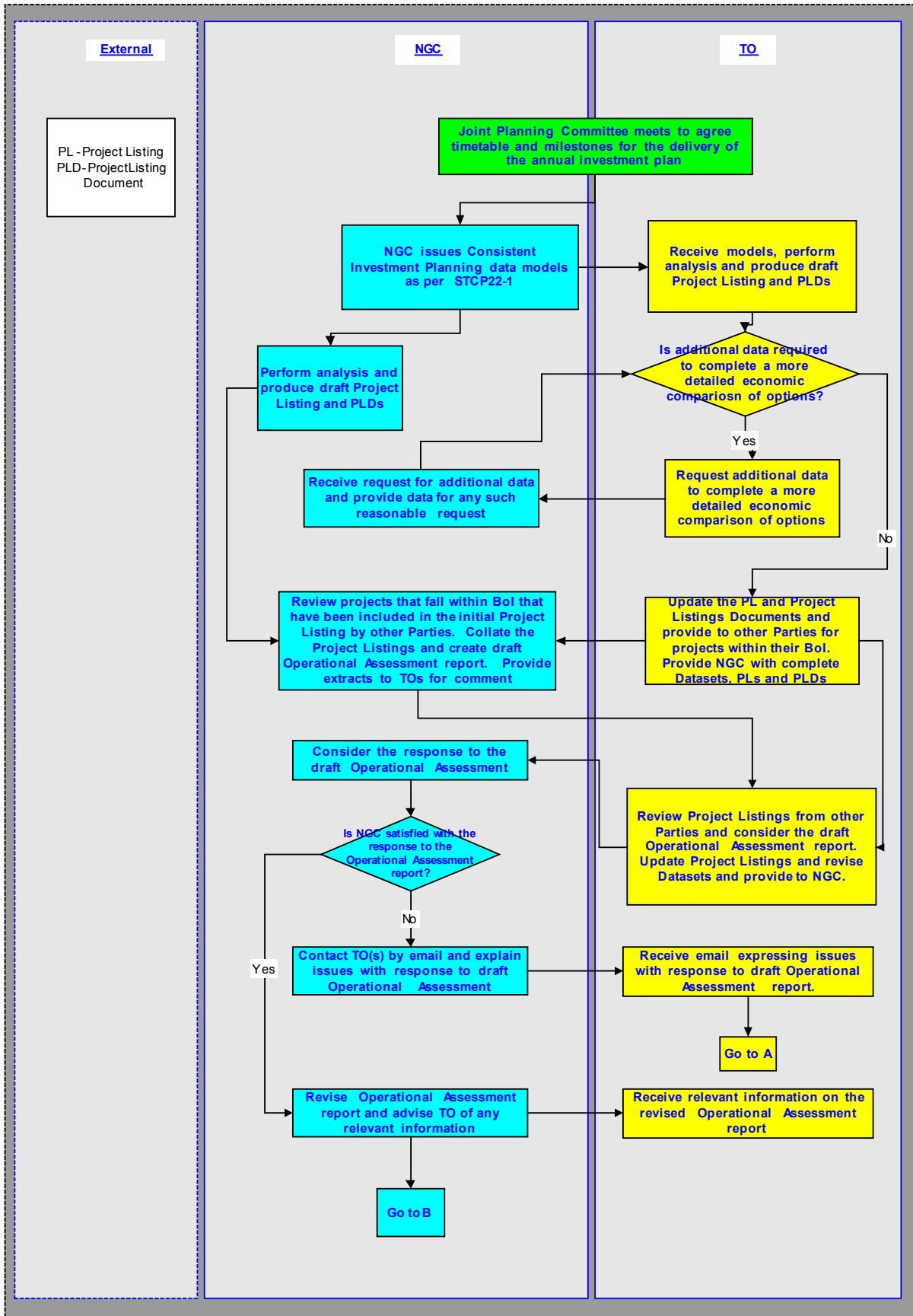
- Bilateral Agreement
- Modification Notification
- Modification Application
- Modification Offer
- Replacement Notice

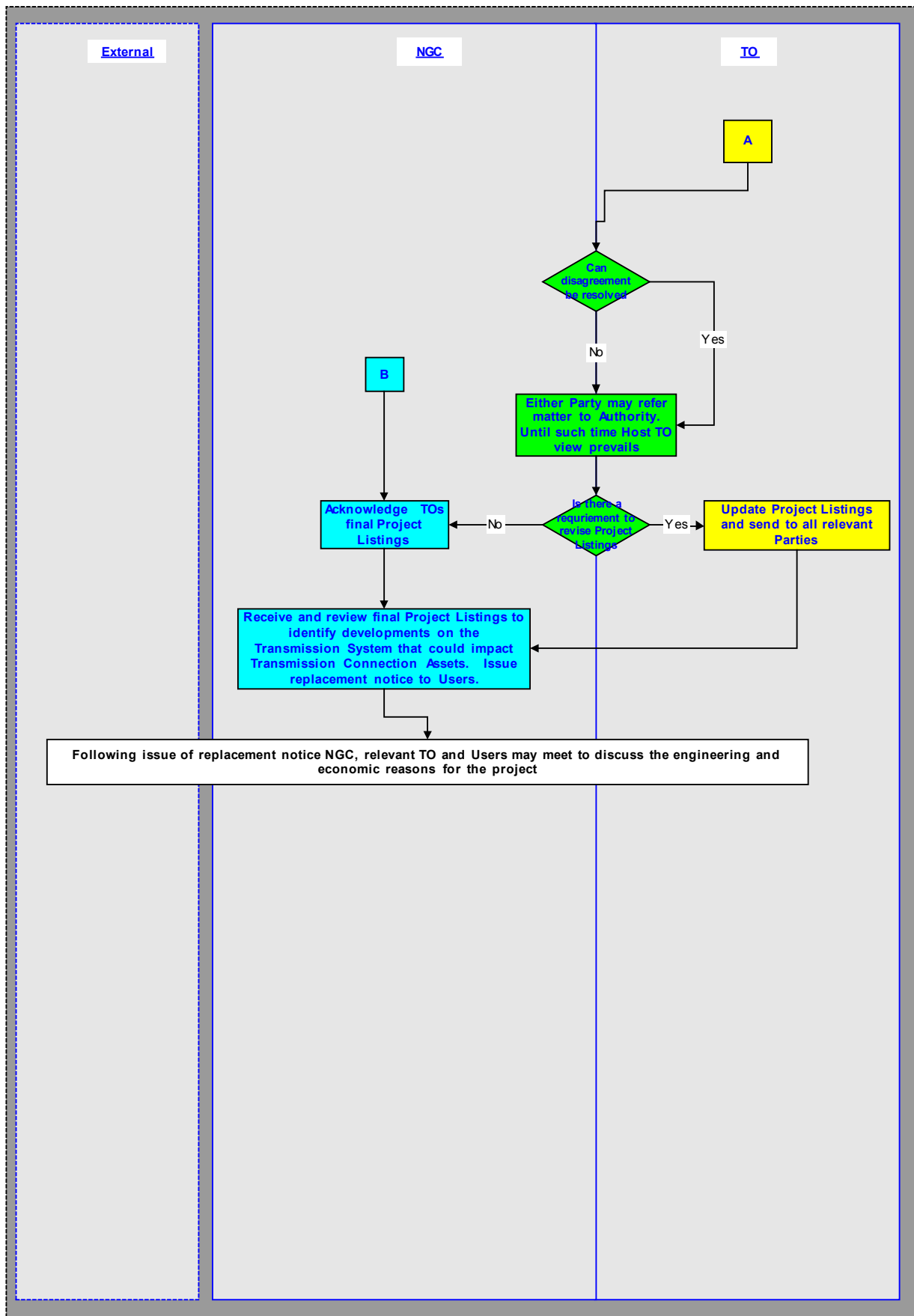
**Definitions used in the document that are covered in other STCPs**

- 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

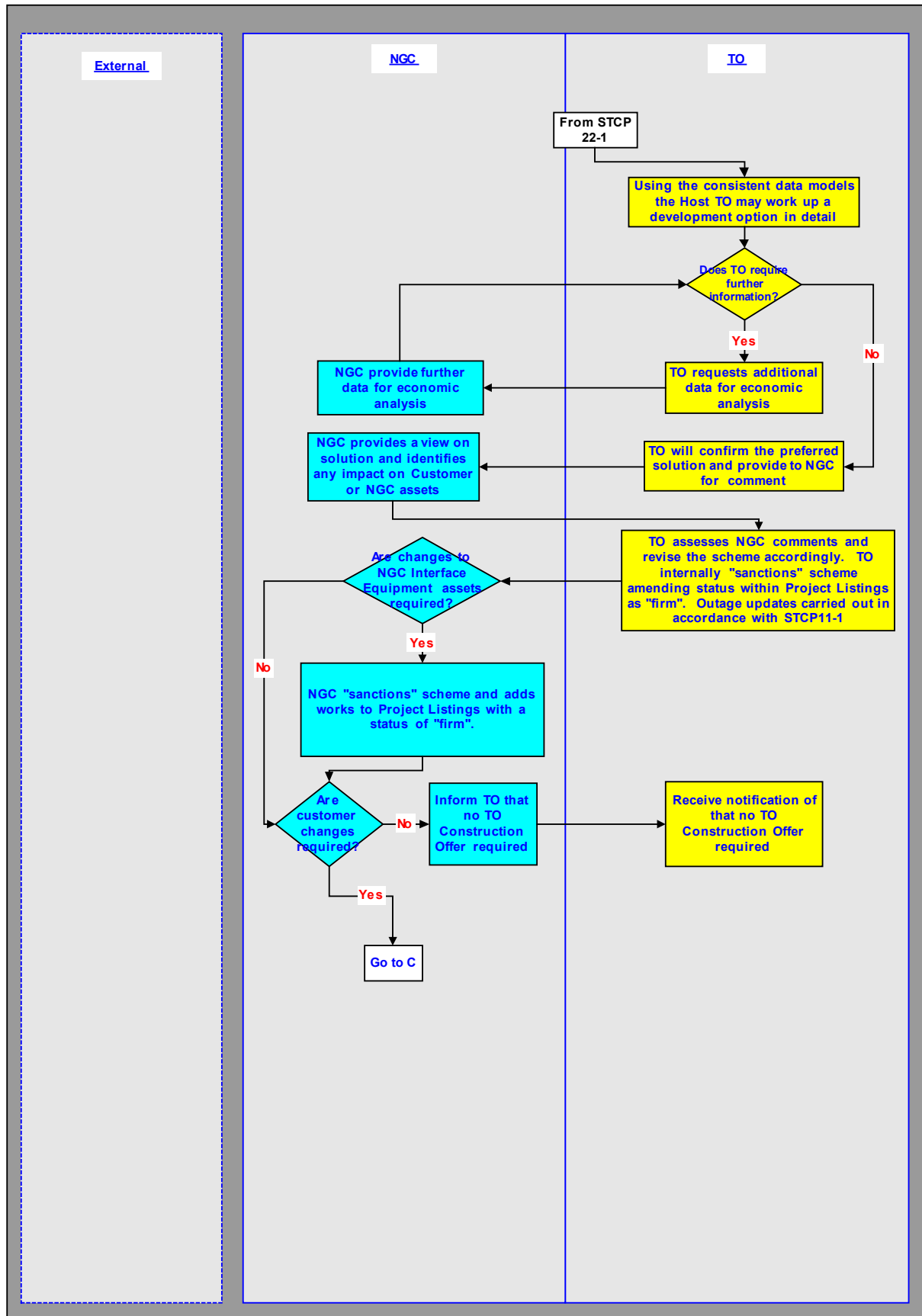
***Appendix B: Flow Diagram***

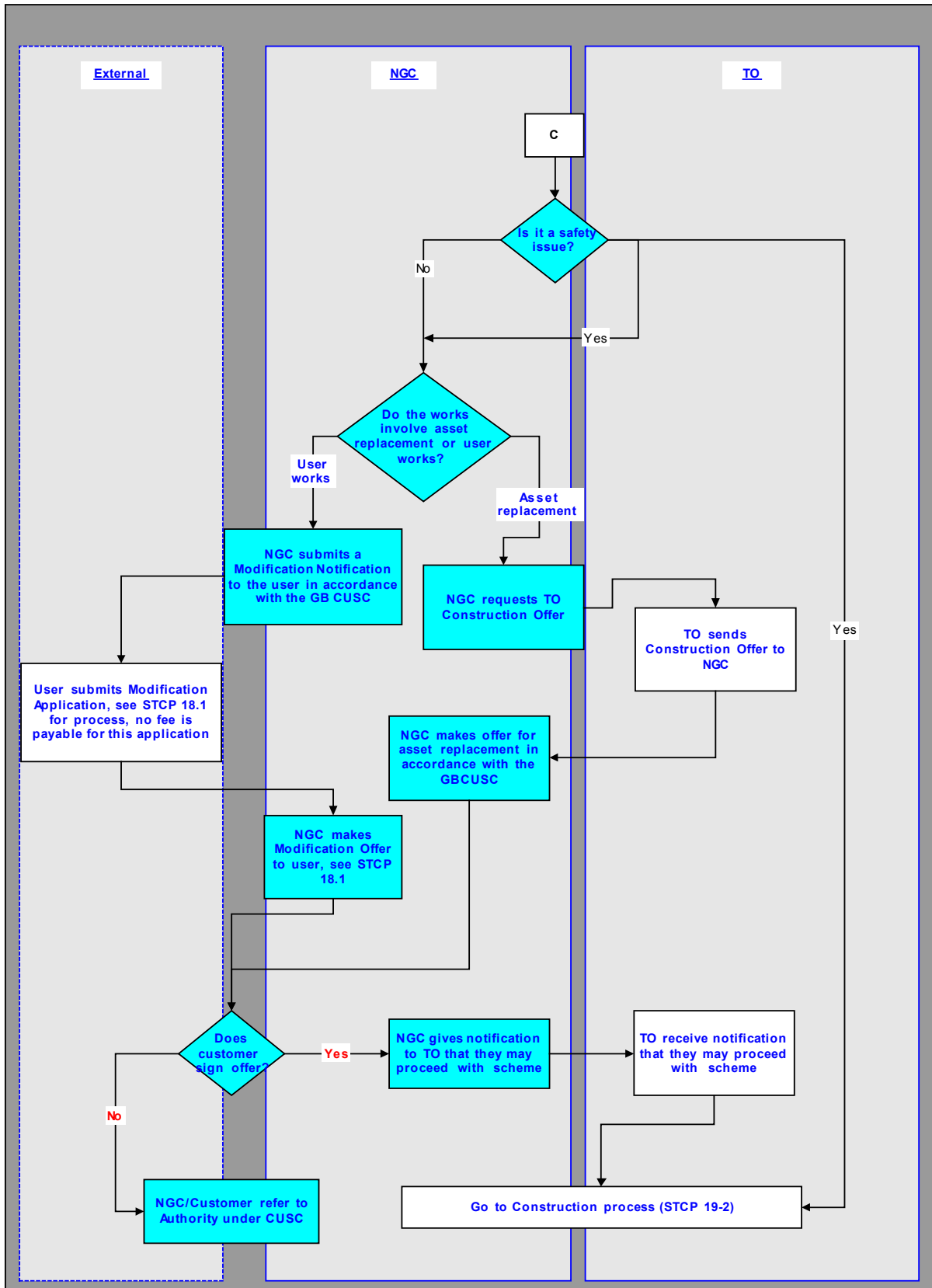
Note that the Process Diagrams shown in this Appendix are for information only. In the event of any contradiction between the process represented in this Appendix and the process described elsewhere in this STCP, then the text elsewhere in this STCP shall prevail.











### Appendix C Project Listing Document

|   |                        |            |            |            |            |            |            |            |            |             |  |
|---|------------------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|--|
| <b>Project Listing Document</b>   |                        |            |            |            |            |            |            |            |            |             |  |
| Project Number  |                        |            |            |            |            |            |            |            |            |             |  |
| Project Name  |                        |            |            |            |            |            |            |            |            |             |  |
| Description   |                        |            |            |            |            |            |            |            |            |             |  |
| Scheme Driver   |                        |            |            |            |            |            |            |            |            |             |  |
| Project Status  |                        |            |            |            |            |            |            |            |            |             |  |
| Document Reference  |                        |            |            |            |            |            |            |            |            |             |  |
| Planning Background   |                        |            |            |            |            |            |            |            |            |             |  |
| Version Number of Document  |                        |            |            |            |            |            |            |            |            |             |  |
| Project List Item Authorisation   |                        |            |            |            |            |            |            |            |            |             |  |
| Company   |                        |            |            |            |            |            |            |            |            |             |  |
| Representative  |                        |            |            |            |            |            |            |            |            |             |  |
| Date  |                        |            |            |            |            |            |            |            |            |             |  |
| Does this scheme trigger the replacement of Transmission Connection Assets?   |                        |            |            |            |            |            |            |            |            |             |  |
| Will the scheme trigger User works?   |                        |            |            |            |            |            |            |            |            |             |  |
| Material Impact   |                        |            |            |            |            |            |            |            |            |             |  |
| Comments  |                        |            |            |            |            |            |            |            |            |             |  |
| Schematic Diagram   |                        |            |            |            |            |            |            |            |            |             |  |
| <div style="display: flex; justify-content: space-between;"> <span>Symbol Library (copy &amp; paste as appropriate)</span> <div style="border: 1px solid black; padding: 2px;">XXXX2</div> </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;"> <span style="color: red;">Circuits, nodes, transformers and destinations</span> </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;"> <span>Text</span> <div style="border: 1px solid black; padding: 2px;">XXXX2</div> </div> |                        |            |            |            |            |            |            |            |            |             |  |
| Indicative Outages (where appropriate)  |                        |            |            |            |            |            |            |            |            |             |  |
| Enter OUTLINE outage needs by circuit, in <b>weeks</b> (use format <b>ww.d</b> ) for the appropriate outage years   |                        |            |            |            |            |            |            |            |            |             |  |
| Circuit   | Circuit ID             | 2005/06    | 2006/07    | 2007/08    | 2008/09    | 2009/10    | 2010/11    | 2011/12    |            |             |  |
|   |                        |            |            |            |            |            |            |            |            |             |  |
|   |                        |            |            |            |            |            |            |            |            |             |  |
|   |                        |            |            |            |            |            |            |            |            |             |  |
| Commissioning Date  |                        |            |            |            |            |            |            |            |            |             |  |
| Stage by stage drawings available   |                        |            |            |            |            |            |            |            |            |             |  |
| First commissioning panel   |                        |            |            |            |            |            |            |            |            |             |  |
| Node & Line Data  |                        |            |            |            |            |            |            |            |            |             |  |
| Data type   | Circuit Identification |            |            | Parameters |            |            | Tap        | Rating     |            |             |  |
|   | From                   | To         | ID         | R          | X          | B          |            | Summer     | Spr/Aut    | Winter      |  |
|   |                        |            |            |            |            |            |            |            |            |             |  |
|   |                        |            |            |            |            |            |            |            |            |             |  |
|   |                        |            |            |            |            |            |            |            |            |             |  |
|   |                        |            |            |            |            |            |            |            |            |             |  |
| Other Data  | Parameter1             | Parameter2 | Parameter3 | Parameter4 | Parameter5 | Parameter6 | Parameter7 | Parameter8 | Parameter9 | Parameter10 |  |
|   |                        |            |            |            |            |            |            |            |            |             |  |

**Appendix D Project Listing**

The screenshot shows a Microsoft Excel spreadsheet titled "SPT Project Listing SYS200ct2004 v1.xls". The spreadsheet contains a table of project data. The first row (row 1) is a header for the project listing. The second row (row 2) contains project details: Planning Background (SYS 20Oct2004), Version (1), Last Updated (21Apr2005), and Comments. The main data table starts at row 9. The columns are: Project Number, Project Name, Company, Material Impact, Scheme Driver, Commissioning Date, Project Status, Version, Last Updated, Replacement?, and User Works?. The first data row (row 10) shows: SPT TC6641, Busby - Giffnock 275kV No. 1 Circuit [Cable Ranked 9], SPT, NGC/SPT, Asset Replacement, 31-Oct-06, Firm, 1, 01-Oct-04, No, No. There are several callout boxes with the ID "Y1602366" pointing to specific cells in the spreadsheet, such as the Scheme Driver cell (E10) and the Replacement? cell (J10).

| Project Number | Project Name  | Company | Material Impact | Scheme Driver     | Commissioning Date | Project Status | Version | Last Updated | Replacement? | User Works? |
|----------------|---|---------|-----------------|-------------------|--------------------|----------------|---------|--------------|--------------|-------------|
| SPT TC6641     | Busby - Giffnock 275kV No. 1 Circuit [Cable Ranked 9] | SPT     | NGC/SPT         | Asset Replacement | 31-Oct-06          | Firm           | 1       | 01-Oct-04    | No           | No          |