# STCP Amendment Proposal Form

PA007

| 1. | Title of Amendment Proposal   |
|----|---|
|    | STCP 08-2 – Incorporation of Outstanding Change Requests  |
|    |   |
| 2. | Description of the Proposed Amendment (mandatory field)   |
|    | Incorporation of the following Change Requests that were outstanding at BETTA Go-<br>Live:  |
|    | C226  |
|    | This Change Request is attached at Attachment 1 to this STCP Amendment<br>Proposal Form.  |
|    | Appendices B and C have been interchanged to ensure consistency with other STCPs that have the Definitions section as the final Appendix in the document. All references to such appendices within the main document have been updated accordingly.   |
|    | Minor changes to the Headers and Footers within the document are also proposed.<br>These changes serve to ensure that the name of the STCP and its Issue Number<br>and date are clearly visible on all pages.   |
|    | The following text has also been inserted before each of the Flow Diagrams within the STCPs clarifying that the text of the STCP has precedence in the event there is any disparity between the text and the flow diagrams:   |
|    | "Note that the Process Diagrams shown in this Appendix [B] 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."  |
|    | This statement was included in some but not all STCPs during drafting and its inclusion here allows a consistent approach to be taken across all STCPs.   |
|    | All of the above changes are reflected within the change-marked STCP attached as<br>Attachment 2 to this STCP Amendment Proposal Form.  |
| 3. | Description of Issue or Defect that Proposed Amendment seeks to Address (mandatory field)   |
|    | Prior to Go-Live a number of changes to "signed off" STCPs were identified by the User Groups. The incorporation of these Change Requests before Go-Live was not however deemed by the same User Groups as critical for Go-Live and it was agreed between the Parties that such Change Requests should be considered and where appropriate incorporated within the STCP following Go-Live. This STCP Amendment Proposal therefore summarises the outstanding Change Requests for this STCP and outlines draft legal text that would give effect to those outstanding Change Requests. |
| 4. | Impact on the STC (information should be given where possible)  |
|    | Effects on STCP 08-2 Circuit Live Trip & DAR Tests Issue 001 are as detailed in the change marked version attached at Attachment 2 to this STCP Amendment Proposal.   |
| 5. | Impact on other frameworks e.g. CUSC, BSC (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

- NONE
- 9. <u>Justification for Proposed Amendment with Reference to Applicable STC</u> <u>Objectives</u> (mandatory field)

Although these changes were not deemed as critical for Go-Live it is the view of the proposer that should these Change Requests now be incorporated within STCP 8-2 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.

| <b>Details of Proposer</b><br>Organisation's Name   | National Grid Company plc  |  |  |  |
|---|--|--|--|--|
| Capacity in which the<br>Amendment is being proposed  | STC Dorth  |  |  |  |
| (i.e. STC Party or other Party as<br>designated by the Authority pursuant to<br>STC section B7.2.2.1 (b))   | STC Party  |  |  |  |
| Details of Proposer's Representative<br>Name<br>Organisation<br>Telephone Number<br>Email Address   | Mark Duffield<br>National Grid Company plc<br>01926 654971<br><u>mark.duffield@ngtuk.com</u> |  |  |  |
| Details of Representative's Alternate<br>Name<br>Organisation<br>Telephone Number<br>Email Address  | Ben Graff<br>National Grid Company plc<br>01926 656368<br>Ben.Graff@ngtuk.com                |  |  |  |
| Attachments (Yes/No): Yes<br>If yes, title and number of pages of each attachment:<br>Attachment 1 (xx Pages): Original Change Requests<br>Attachment 2 (xx Pages): Revised legal text for STCP 08-2: Circuit Live Trip & DAR Tests |  |  |  |  |

#### 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

| ID   | Raised On  |      | Description   | Affected                | Business         | CDA                    | Status   | DG1 | Last    | Comments   |
|------|------------|------|---|-------------------------|------------------|------------------------|----------|-----|---------|--|
|      |            | Body |   | Category 2<br>Documents | Owner            | Owner                  |          |     | Updated |  |
| C226 | 12/05/2005 |      | Changes required to reflect the agreed<br>comments as described in the CDA<br>Consistency Form dated 5th April 2005<br>relating to STCP 8-2 Circuit Live Trip & DAR<br>Tests. | STCP 08-2               | Chris<br>Whitley | Nadim<br>Al-<br>Hariri | Accepted | X   |         | 12 May 05: CR raised<br>12 May 05: OPUG accepted<br>the CR |

# Attachment 1: Incorporated Outstanding Change Requests

#### **Change Request**

(Yellow Shaded Boxes For CDA Use Only)

| CDA CR ID                                    | C226   | - 11         | Statu    | S <sup>1</sup> | Accepted       | d                    |
|--|--|--------------|----------|----------------|----------------|----------------------|
|  |  |              |          |                |                | -                    |
| Company CR ID                                |  |              | ASSO     | ciated CR's    |                |                      |
| Description of Char                          | nge  |              |          |                |                |                      |
|  | Changes required to reflect the agreed comments as described in the CDA Consistency Form dated |              |          |                |                |                      |
| 5th April 2005 relatin<br>Reasons for Change |  | cuit Live Ir | ip & D/  | R Tests.       |                |                      |
|  |  |              |          |                |                |                      |
| To reflect the comme form is attached.       | ents agreed by OP  | UG that we   | ere rais | ed within the  | CDA Cons       | sistency checks. The |
| Affected Category 2                          | 2 Document(s) <sup>2</sup>   |              |          | DG's Inform    | ed             |                      |
| STCP8-2 Circuit Live                         | Trip & DAR Tests   | s, Issue 1   |          | OPUG           |                |                      |
| Originating Body <sup>3</sup>                | OPUG   |              |          | HLIA ID        |                |                      |
| Raised On                                    | 12 <sup>th</sup> May 2005  |              |          | DLIA ID        |                |                      |
| Business Owner                               | Chris Whitley  |              |          | Time Impac     | t⁴             |                      |
| CDA Owner                                    | Nadim Al-Hariri  |              |          | Effort Impac   | ≿t⁵            |                      |
| <group> Agreed Ac</group>                    | tion – <i><dat< i="">e&gt;</dat<></i>  |              |          |                |                |                      |
|  |  |              |          |                |                |                      |
| Change Request So                            | ource Document   |              |          |                |                |                      |
|  |  |              |          |                |                |                      |
| STCP8-2 Consistency<br>Form.doc              |  |              |          |                |                |                      |
| Document Version                             | Document Version Included In STCP8-2   |              |          | Live Trip & D  | AR Tests,      | Issue 2              |
| To Be Included In                            | 🗖 Testing  | )            | STCP [   | Drafting       | Post "Go-Live" |                      |

<sup>&</sup>lt;sup>1</sup> One of Raised, HLIA Submitted, DLIA, DLIA Submitted, Accepted, Rejected or Pending.

<sup>&</sup>lt;sup>2</sup> Identifies the directly affected Category 2 documents. A full list of affected Category 1 & 2 documents will be identified by the HLIA.

<sup>&</sup>lt;sup>3</sup> One of DG1, DG2, DG3, DG4, Ofgem/DTI or Companies.

<sup>&</sup>lt;sup>4</sup> One of Red (impact on critical path), Amber (impact on plan but not critical path) or Green (no impact on plan)

<sup>&</sup>lt;sup>5</sup> One of High (>5 Working Days), Amber (>1 and <5 Working Days) or Green (<1 Working Day)

# **Category 2 Document Consistency Form**

| Consistency Form Status |  |                         |            | ng DG/User<br>o Review | Consistency Form Version      |                | n D0.1   |     |
|-------------------------|--|-------------------------|------------|------------------------|-------------------------------|----------------|----------|-----|
| Doo                     | cument Name  | STCI                    | P8-2 Circ  | uit Live Trip & D      | AR Tests                      | Version        | Issue    | -   |
|                         |  |                         |            |                        |                               |                | 18/3/2   | 005 |
|                         |  |                         |            |                        |                               | Review Ref     | 1        |     |
| Rev                     | Reviewer Tony  |                         |            |                        |                               | Date           | 18/03/05 |     |
| Ch                      | ecked by   | Nadii                   | n Al-Hari  | ri                     | Date                          | 04/04/         | 05       |     |
| Cat                     | tegory 2 Doc   | uments –                | Detailed L | evel Processes a       | nd STCPs                      |                |          |     |
| <b>C</b> : 1            | ndicates docur   | ments have              | been chec  | ked for consisten      | cy and <mark>no action</mark> | required.      |          |     |
| <b>A</b> : I            | ndicates docur   | ments have              | been chec  | ked for consisten      | cy and <mark>action ma</mark> | y be required. |          |     |
| <b>N</b> : /            | <b>N</b> : Indicates documents are related but <b>are unavailable</b> to be checked for consistency. |                         |            |                        |                               |                |          |     |
| D<br>G                  | ld   | Issue STCP/ Name Action |            |                        |                               |                | Action   |     |
| 1                       | 1     8-2     Issue 1     STCP     Internal Consistency  |                         |            |                        |                               | Α              |          |     |

|   | • =  | 1000.0     | 0.0. |                                   |   |
|---|------|------------|------|-----------------------------------|---|
| 0 | -    | Designated | -    | SO-TO Code                        | С |
| 1 | 1-1  | Issue 2    | STCP | Operational Switching             | С |
| 1 | 11-1 | Issue 2    | STCP | Outage Planning                   | С |
| 0 | -    | 09/03/04   | _    | STC Procedure Drafting Guidelines | C |

#### Key:

**Cat** (Category of comment) I Inconsistency comment C Other type of comment Q Question **Type** (Type of comment) O Inconsistent with Other doc. D Inconsistent within review doc. F Clarification/Format/ Grammatical Sevty (Impact Severity) H(igh) e.g. Process will not work M(edium) e.g. Work-a-round required L(ow) e.g. Cosmetic

Eff (Effort to correct) H(igh) More than 4 hours M(edium) More than 10 minutes but less than 4 hours L Up to 10 minutes

#### **Consistency Form Status**

Author Review -Sent to Author for reviewOwning DG Review -Sent to owning DG for agreed actionsOther DG Review -Sent to other DG's affected for agreeing actionsIssued -Issued

|    | tegory 2<br>cument | Internal Consistency  | Internal Consistency |          |           |            |  |
|----|--------------------|---|----------------------|----------|-----------|------------|--|
| ld | Sect               | Comment   | Cat                  | Тур<br>е | Sevt<br>y | Effo<br>rt | Proposed/Agreed<br>Action  |
| 1  | Typos              | <ul> <li>1.2.2 "parties" should be capitalised</li> <li>3.2.3 remove additional space in the penultimate line between "Apparatus" and "will"</li> <li>Appendix A "Appendix B" in the first line should either read "Appendix A" or just "Appendix"</li> <li>1.1.1 in the 3<sup>rd</sup> line put "Circuit" in front of "Live Trip and DAR Tests"</li> <li>1.1.3 put "Circuit" in front of "Live Trip and DAR Tests"</li> <li>3.4.3 in the last line "Programme" should be lower case</li> </ul> | C                    | F        | L         | L          | Proposed Action:<br>Amend as stated<br>Agreed Action:<br>1.2.2 Agreed<br>3.2.3 Agreed<br>Appendix A : Use<br>"Appendix"<br>1.1.1 Agreed<br>1.1.3 Agreed<br>3.4.3 Agreed  |
| 2  | 3.3.2              | 3.1.2 Change "Affected Parties" to<br>"affected Parties"<br>"[6] weeks". Either remove the<br>brackets or state on the front page<br>that this remains an outstanding issue   | С                    | F        | L         | L          | 3.1.2 Agreed<br>Proposed Action:<br>Amend as stated<br>Agreed Action:<br>Remove brackets   |
| 3  | 3.3.6              | <ul> <li>"[5] days". Either remove the brackets or state on the front page that this remains an outstanding issue.</li> <li>Is this meant to be 5 Business Days or 5 (calendar) days?</li> </ul>  | C                    | F        | L         | L          | Proposed Action:<br>Amend as stated.<br>Agreed Action:<br>Remove brackets add<br>"business"  |
| 4  | 4.1.2              | Suggest adding that a Dispute can be raised in accordance with Schedule H of the STC  | С                    | F        | L         | L          | Proposed Action:<br>Amend as stated.<br>Agreed Action: Agreed  |
| 5  | 3.4.2              | According to this section the carrying<br>out of the tests will be in accordance<br>with STCP1-1 and the Tests<br>programme. STCP1-1 refers back to<br>this process as the process for the<br>carrying out of the tests. Should the<br>Tests be carried out in accordance<br>with the Tests Programme only?<br>A similar comment has been raised in<br>the consistency form for 1-1<br>(comment 19).  |                      | 0        | М         | М          | Proposed Action:<br>Decide under what<br>process the Tests are<br>carried out and update<br>the respective<br>processes accordingly.<br>Agreed Action:<br>Disagree.<br>The reference is to<br>carry out the Tests in<br>accordance with the<br>requirements of STCP<br>1-1 which covers the<br>switching methodology,<br>the Tests programme<br>covers the sequence of<br>testing. |

# **BETTA CDA**

|    | egory 2<br>cument           | Internal Consistency   |     |          | Versio    | on         | N/A  |  |
|----|-----------------------------|--|-----|----------|-----------|------------|--|--|
| ld | Sect                        | Comment  | Cat | Тур<br>е | Sevt<br>y | Effo<br>rt | Proposed/Agreed<br>Action  |  |
| 6  | Swim Lane                   | This requires updating. It currently reflects the Level 2 process.   | I   | D        | М         | М          | Proposed Action:<br>Redraw the swim lanes<br>to be consistent with<br>the text<br>Agreed Action:<br>Agreed Swim Lanes<br>updated in line with<br>text.   |  |
| 7  | Appendix C<br>- Definitions | Missing definitions:<br>Party (STC)<br>User (STC)<br>Good Industry Practice (STC)<br>Normal Capability Limit (STC)<br>Operational Capability Limit (STC)<br>Business Day (STC) (if comment 3<br>accepted)<br>Circuit Breaker Fail Protection<br>Systems (not in Grid Code!)<br>Circuit Breaker Fail (not in Grid<br>Code!) | С   | F        | L         | L          | Proposed Action:<br>Add to Definition<br>section.<br>Agreed Action:<br>Agreed all missing STC<br>definitions added.<br>Use small 'p' and small<br>'s' in 3.2.6 and add<br>definition for Circuit<br>Breaker Fail only. |  |

Attachment 2: Revised Legal Text for STCP 08-2 Live Trip & DAR Tests

# STCP <u>0</u>8-2: Circuit Live Trip & DAR Tests

# STCP Procedure Document Authorisation

| <b>Company</b> | Name of Representative | Signed off (date) |
|----------------|------------------------|-------------------|
| NGT            |                        |                   |
| <del>SP</del>  |                        |                   |
| SSE            |                        |                   |

| Company                                     | <u>Name of Party</u><br><u>Representative</u> | <u>Signature</u> | Date |
|---|---|------------------|------|
| National Grid<br>Company plc                |   |                  |      |
| SP Transmission Ltd                         |   |                  |      |
| Scottish Hydro-Electric<br>Transmission Ltd |   |                  |      |

## STC Procedure Change Control History

Issue 1 18/3/5

#### Outstanding issues to be resolved post company sign-off

| Issue 001  | 18/03/2005 | BETTA Go-Live Version         |  |  |
|--|------------|-------------------------------|--|--|
| Issue 002  | 26/05/2005 | Issue 002 incorporating PA007 |  |  |
| Dispute resolution process - further details if needed |            |                               |  |  |

Dispute resolution process – further details if needed

## 1 Introduction

#### 1.1 Scope

- 1.1.1 This procedure describes the arrangements and processes across the NGC TO interface for Circuit Live Trip and DAR Tests as part of maintenance activities within the licensed area of a TO. This does not include <u>Circuit</u> Live Trip and DAR Tests associated | with commissioning or decommissioning activities, which are the subject of STCP 19-4 Commissioning and Decommissioning.
- 1.1.2 Circuit Live Trip and DAR Tests are complementary to the testing of Protection Apparatus and its associated electrical signalling that takes place when control of protection equipment is transferred to a TO under a Transmission Status Certificate (TSC).
- 1.1.3 Any requests for <u>Circuit</u> Live Trip and DAR Tests will be made by the TO. It is not anticipated that NGC shall submit any requests under this procedure.
- 1.1.4 The primary information exchange between NGC and TO for planning and implementing Circuit Live Trip and DAR Tests is set out in this procedure. Elements of information exchange mechanisms described in the STC, STCP 1-1 Operational Switching and STCP11-1 Outage Planning may also be used, where appropriate, in the planning and operation of Circuit Live Trip and DAR Tests.
- 1.1.5 This procedure applies to NGC and each TO where, for the purpose of this document, the TOs are:
  - SPT; and
  - SHETL.

#### 1.2 Objectives

- 1.2.1 This procedure specifies the following:
  - the responsibilities of NGC and the TO(s) in relation to Circuit Live Trip and DAR Tests;
  - the requirements for exchange of information across the NGC TO interface;
  - the means of communication to be used across the NGC TO interface.
- 1.2.2 It is designed to enable the <u>partiesParties</u> to discharge their responsibilities under the STC and to ensure that responsibilities are clear.

#### 2 Key Definitions

#### 2.1 For the purposes of STCP 8-2:

- 2.1.1 **Circuit Breaker Fail** means Protection Apparatus designed to operate as back-up Protection on the failure of a Circuit Breaker to trip following receipt of a trip command from an associated tripping relay.
- 2.1.2 **Circuit Live Trip and DAR Tests** means the planned switch out of Plant and Apparatus by Protection Apparatus, and restoration of that Plant and Apparatus in whole or in part by automatic or manual means.

#### 3 Process

#### 3.1 General

3.1.1 Whenever possible Circuit Live Trip and DAR Tests should be planned in advance but this does not exclude the possibility of agreeing tests at shorter notice, including Control Phase timescales.

STCP8-2 Issue 001STCP 08-2 Circuit Live Trip & DAR Tests 18<sup>th</sup>-March 2005

- 3.1.2 Circuit Live Trip and DAR Tests shall be planned and carried out by the Affected affected Parties such that, with the exception of the Plant and Apparatus subject to the test, there is minimal impact on the GB Transmission System.
- 3.1.3 NGC shall remain responsible for the operational management of the GB Transmission System during any testing.
- 3.1.4 The TO shall be responsible for managing the Tests programme in accordance with the requirements of this procedure.

#### 3.2 Planning Process

- 3.2.1 The TO shall submit all Outage requests for the Circuit Live Trip and DAR Tests in accordance with STCP 11-1 Outage Planning.
- 3.2.2 Any request for such an Outage shall be flagged as 'Circuit Live Trip & DAR Tests', where the circuit will be fully restored by DAR action, and flagged as an 'in-service' Outage request. Although in principle these Circuit Live Trip and DAR Test Outages do not form part of security analysis, the Operational Effect of a DAR sequence failure or the need to restore the circuit manually shall be considered as part of the Outage planning process.
- 3.2.3 Any work requiring either auto isolation of some part of the Plant and Apparatus involved in the Tests, or Plant and Apparatus to remain out of service as a result of the testing, shall be separately requested as an Outage in accordance with STCP 11-1 Outage Planning and will be considered in security analysis. Such Plant and Apparatus will be returned to service in accordance with STCP 1-1 Operational Switching, as appropriate.
- 3.2.4 Plant and Apparatus to be switched out of service by operation of Protection Apparatus as part of planned maintenance work will be treated as an Outage request under STCP 11-1 Outage Planning and included in security studies on that basis, with the Outage booking commented with 'Switch out by protection'.
- 3.2.5 Initiation of a Circuit Live Trip and DAR Test will normally be by operation of Protection Apparatus. If Circuit Live Trip and DAR Tests are planned on Plant and Apparatus with no associated DAR facility, the resource and time needed to restore that Plant and Apparatus to service by manual switching shall be considered for operational impact as part of the planning liaison.
- 3.2.6 Consideration shall be given by NGC and the TO, when scheduling Circuit Live Trip and DAR Tests, to the possible interaction with Circuit Breaker Fail Protection Systems, systems, voltage changes and automatic switching systems. Appendix C\_B | provides further information and guidance.
- 3.2.7 As part of the planning of Circuit Live Trip and DAR Tests on cross TO boundary circuits, liaison and agreement shall take place between the TOs involved. The requesting TO shall take the lead in co-ordinating discussions and reaching agreement with the other affected TO(s). The requesting TO shall be responsible for liasing with NGC regarding such outcome of discussions.
- 3.2.8 No Circuit Live Trip and DAR Tests will take place on circuits where the Tests would result in operation of an Operational Intertripping Scheme unless this is the stated purpose of the Tests and agreement for the Tests has been reached with all affected parties prior to the Tests.
- 3.2.9 NGC shall be responsible for obtaining the agreement of an affected User or affected TO to Circuit Live Trip and DAR Tests as soon as reasonably practicable. Tests will only be carried out if and when agreement for the Tests has been reached with the affected User or affected TO.

#### 3.3 Tests programmes

STCP8-2 Issue 001<u>STCP 08-2 Circuit Live Trip & DAR Tests</u> 18<sup>th</sup> March 2005<u>Issue 002 – 26/05/2005</u>

- 3.3.1 Where more than a single Circuit Live Trip and DAR Test is proposed on a circuit a written programme of Tests shall be provided by the TO unless agreed otherwise by NGC. The Tests programme shall detail the equipment involved, the sequence of Tests and any Operational Effects (or possible Operational Effects). Such Circuit Live Trip and DAR Tests will normally be planned to take place at the start or completion of an Outage of the circuit.
- 3.3.2 The TO will use reasonable endeavours to provide the proposed programme of Circuit Live Trip and DAR Tests to NGC in the Operational Planning Phase, normally a minimum of [6]6 weeks prior to the date of testing. It is accepted, however that such Circuit Live Trip and DAR Tests may be requested by the TO at shorter notice.
- 3.3.3 NGC and the TO may agree break points in the Tests programme such that the TO can complete sections of the Tests programme without further reference to NGC.
- 3.3.4 NGC will assess the implications of the proposed Tests programme and liase with each affected User and affected TO, seek their agreement to the Tests programme and collate and co-ordinate the response to the TO as soon as reasonably practicable.
- 3.3.5 If the Tests programme is not acceptable to NGC, an affected User or affected TO then NGC shall refuse the submitted Tests programme and will inform the TO as soon as reasonably practicable. The TO may choose to revise and re-submit the Tests programme to NGC or initiate a dispute. Any revised Tests programme will be assessed by NGC, an affected TO and affected User in accordance with this procedure.
- 3.3.6 The TO will use reasonable endeavours to ensure the agreed Tests programme is made available to NGC at least [5] days <u>5 Business Days</u> in advance of testing.

#### 3.4 **Operational Process**

- 3.4.1 NGC shall be responsible for operational liaison in order to obtain agreement from an affected User or affected TO for the Tests to proceed in the Control Phase. Where a Tests programme is used NGC shall inform each affected User and affected TO prior to the start of the Tests if NGC intends to allow the TO to become the operational contact for the Tests.
- 3.4.2 Tests shall be carried out in accordance with the requirements of STCP 1-1 Operational Switching and the Tests programme if appropriate for Plant and Apparatus under NGC operational control (not released to the TO) and will normally be carried out under a verbal Switching Method agreement recorded by NGC and the TO.
- 3.4.3 When NGC has given permission for the TO to carry out Circuit Live Trip and DAR Tests the TO shall contact affected Users and advise that the TO has become the point of operational contact for the Tests <a href="Programmeprogramme">Programmeprogramme</a> and that the test will shortly commence.
- 3.4.4 Prior to Circuit Live Trip and DAR Tests on cross TO boundary circuits, operational liaison and agreement shall take place between the TOs involved. The requesting TO shall take the lead in co-ordinating discussions and reaching agreement with the other affected TO(s). The requesting TO shall be responsible for liasing with NGC regarding such outcome of discussions.
- 3.4.5 In the event of failure of Tests (e.g. failure of a circuit breaker to re-close in programmed sequence) the TO shall contact NGC as soon as reasonably practicable, and seek agreement to vary the Tests programme to allow restoration of the circuit and re-testing as appropriate.
- 3.4.6 If during Tests, an unexpected alarm or event occurs that the relevant TO believes has or may have an Operational Effect on the proposed Tests programme, the TO shall contact NGC as soon as reasonably practicable to discuss the implications of the unexpected alarm or event. Parties shall use reasonable endeavours to agree the subsequent actions to be followed in a timely manner.
- 3.4.7 If during Tests, NGC becomes aware of any reason to stop or delay the Tests they shall contact the TO as soon as reasonably practicable to discuss and agree any action that may be required.

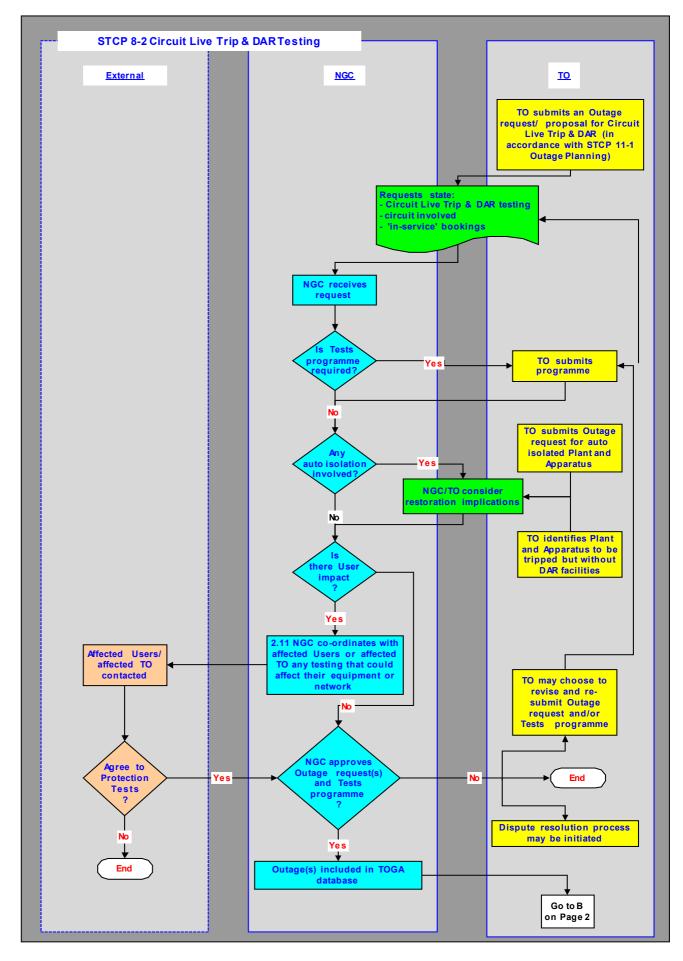
#### **4Disputes**

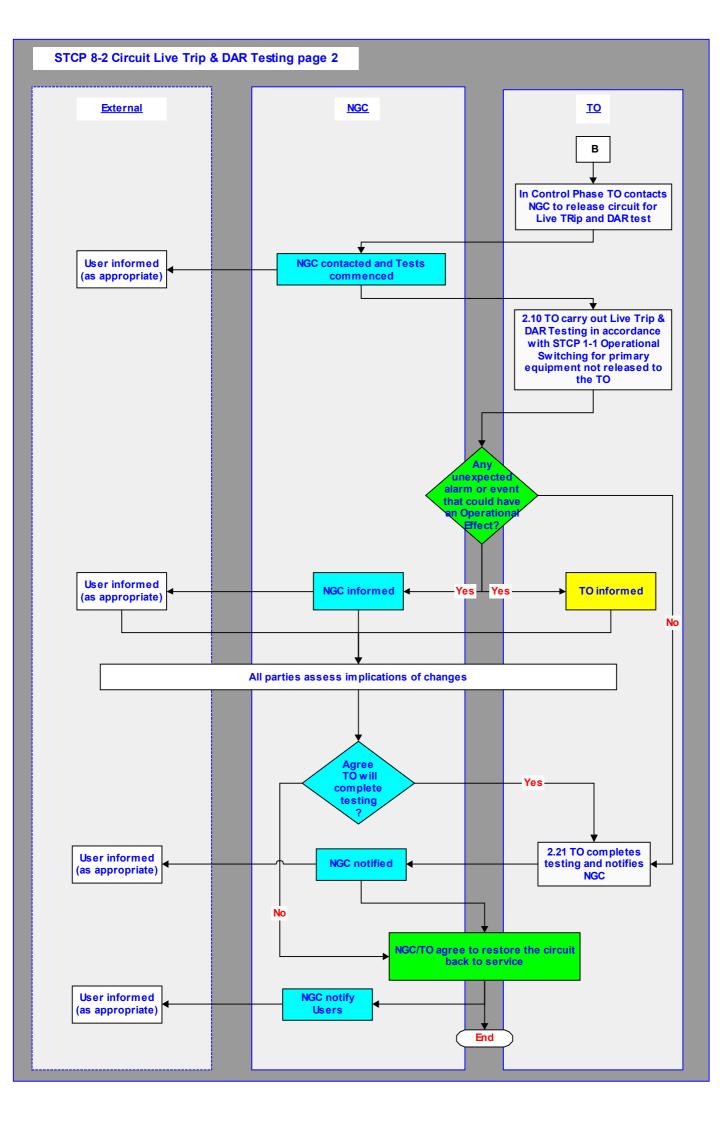
- 4.1.1In the event that there is a dispute regarding the acceptability or otherwise of a Circuit Live Trip and DAR Tests programme or associated Outage, the Tests shall not take place until the Dispute has been resolved.
- 4.1.2Any affected party may initiate a Dispute in the event that agreement cannot be reached.

# Appendix A: Process Diagrams

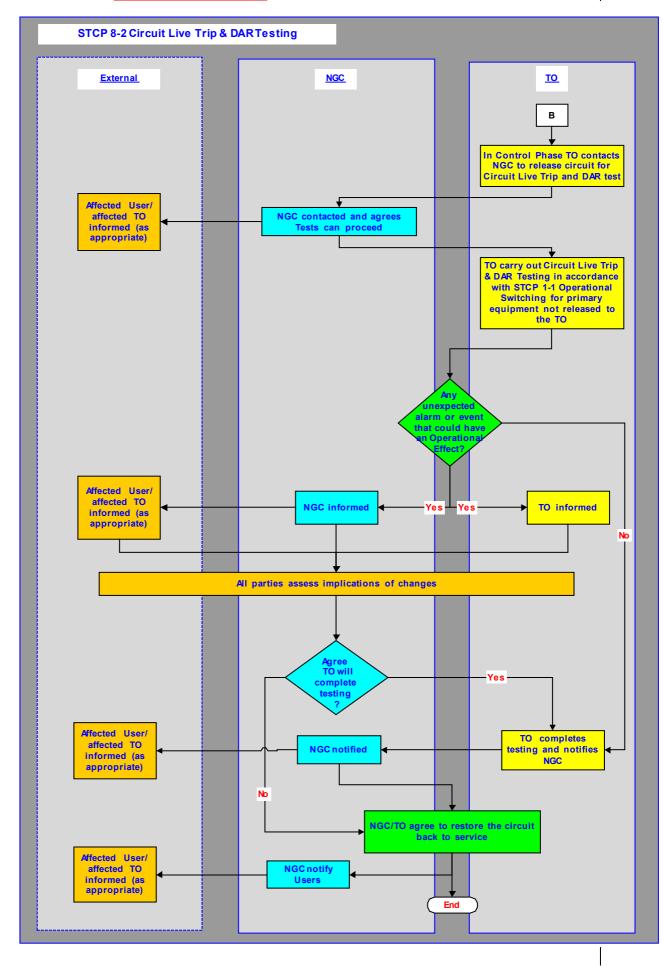
Note that the Process Diagrams shown in this <u>Appendix Bappendix</u> are for information only. In the event of any contradiction between the process represented in this <u>Appendix appendix</u> and the process described elsewhere in this STCP, then the text elsewhere in this STCP shall prevail.

STCP8-2 Issue 001STCP 08-2 Circuit Live Trip & DAR Tests 18<sup>th</sup> March 2005Issue 002 – 26/05/2005





STCP8-2 Issue 001STCP 08-2 Circuit Live Trip & DAR Tests 18<sup>th</sup> March 2005Issue 002 – 26/05/2005



## Appendix B Issues to be considered for Circuit Live Trip and DAR Tests

#### B.1 Voltage Criteria

B1.1 Guidance on the acceptable transient voltage change for planned Circuit Live Trip and DAR Tests is contained in the GBSQSS.

B1.2 <u>Consideration shall be given as to the control arrangements available (e.g. telecommand of tap change controls) to ensure Good Industry Practice can be followed to ensure the voltage change is minimised by bringing equipment associated with the testing to minimum MVAr import/export conditions.</u>

#### B.2 <u>Circuit Restrictions</u>

B2.1 <u>Trip testing shall normally take place with 'Circuit Breaker Fail' ('CBF') protection in</u> service where installed to assist in the rapid clearance of a fault.

B2.2 For circuits with charging currents that exceed 80% of 'CBF' current check settings, there is a risk that if the circuit breaker fails to open a back trip could be initiated. Where NGC conclude the consequences of this are acceptable, the 'CBF' can remain in service. Where it is not acceptable for operational reasons (e.g. loss of supply would result) the 'CBF' protection can be switched out at the relevant end provided Intertripping exists to ensure remote end clearance of genuine faults.

B2.3 <u>The TO shall identify those circuits where the charging current is likely to exceed 80% of the 'Circuit Breaker Fail' current check setting.</u>

B2.4 The operation of auto-reclose schemes, during Circuit Live Trip Tests of circuits, may result in circuits returning under DAR which could bring the site above the Normal Capability Limit of the switchgear. In such cases Tests should only be carried out where agreement has been reached on fault level management. Further guidance is available in STCP 4-4 'Provision of Operational Information'. Different auto-reclose schemes deal with this temporary potential over stressing in differing ways; some can configure the site to the pre-fault arrangement automatically; others require manual intervention.

B2.5 <u>The TO will identify those circuits associated with sites where auto-reclose schemes may</u> result in temporary overstressing of switchgear and agree fault level management measures to be implemented during the Tests.

B2.6 Some circuits on the transmission system are monitored by generation or demand disconnection schemes. Circuit Live Trip Tests shall not be undertaken on circuits which, if tripped, would cause subsequent tripping of generator or other circuits, unless this is the specific intention of the Tests and all affected parties have agreed the Tests may take place.

#### B.3 Other Considerations

B3.1 <u>Consideration shall be given to the consequences of DAR failure and the means to ensure rapid restoration of a circuit by other means. This may involve the TO ensuring attendance can be arranged at sites involved within an agreed time period.</u>

B3.2 <u>Circuit Live Trip and DAR Tests should not normally take place during periods of predicted or actual local adverse weather conditions.</u>

B3.3 <u>Consideration shall be given by the TO and NGC to existing Operational Capability Limits</u> affecting equipment when evaluating their suitability for Circuit Live Trip and DAR Tests.

#### Appendix **B**-<u>C</u> – Definitions & Abbreviations

#### **BC**.1 Abbreviations

| DAR   | Delayed Auto Reclose                                |
|-------|---|
| NGC   | National Grid Company                               |
| SHETL | Scottish Hydro Electric Transmission Ltd            |
| SPT   | Scottish Power Transmission                         |
| STC   | System Operator – Transmission Owner Code           |
| STCP  | System Operator – Transmission Owner Code Procedure |
| ТО    | Transmission Owner                                  |

#### **BC**.2 Terms defined in the STC:

**Business Day** 

Dispute

**GB** Transmission System

**Operational Effect** 

Outage

Tests

Party

User

Good Industry Practice

Normal Capability Limit

**Operational Capability Limit** 

#### **BC**.3 Terms defined in the Grid Code:

Apparatus

**Circuit Breaker** 

Circuit Breaker Fail

**Control Phase** 

Good Industry Practice

**Operational Intertripping Scheme** 

**Operational Planning Phase** 

Plant

**Protection** 

**Protection Apparatus** 

#### **<u>CB.4</u>** Terms defined in other STCPs

Transmission Status Certificate Switching Method STCP1-1: Operational Switching STCP1-1: Operational Switching

Appendix C Issues to be considered for Circuit Live Trip and DAR Tests

#### **C.1Voltage Criteria**

C1.1Guidance on the acceptable transient voltage change for planned Circuit Live Trip and DAR Tests is contained in the GBSQSS.

C1.2Consideration shall be given as to the control arrangements available (e.g. telecommand of tap change controls) to ensure Good Industry Practice can be followed to ensure the voltage change is minimised by bringing equipment associated with the testing to minimum MVAr import/export conditions.

#### **C.2Circuit Restrictions**

C2.1Trip testing shall normally take place with 'Circuit Breaker Fail' ('CBF') protection in service where installed to assist in the rapid clearance of a fault.

C2.2For circuits with charging currents that exceed 80% of 'CBF' current check settings, there is a risk that if the circuit breaker fails to open a back trip could be initiated. Where NGC conclude the consequences of this are acceptable, the 'CBF' can remain in service. Where it is not acceptable for operational reasons (e.g. loss of supply would result) the 'CBF' protection can be switched out at the relevant end provided Intertripping exists to ensure remote end clearance of genuine faults.

**C2.3The TO shall identify those circuits where the charging current is likely to exceed 80% of the 'Circuit Breaker Fail' current check setting.** 

C2.4The operation of auto-reclose schemes, during Circuit Live Trip Tests of circuits, may result in circuits returning under DAR which could bring the site above the Normal Capability Limit of the switchgear. In such cases Tests should only be carried out where agreement has been reached on fault level management. Further guidance is available in STCP 4-4 'Provision of Operational Information'. Different auto-reclose schemes deal with this temporary potential over stressing in differing ways; some can configure the site to the pre-fault arrangement automatically; others require manual intervention.

C2.5The TO will identify those circuits associated with sites where autoreclose schemes may result in temporary overstressing of switchgear and agree fault level management measures to be implemented during the Tests.

C2.6Some circuits on the transmission system are monitored by generation or demand disconnection schemes. Circuit Live Trip Tests shall not be undertaken on circuits which, if tripped, would cause subsequent tripping of generator or other circuits, unless this is the specific intention of the Tests and all affected parties have agreed the Tests may take place. C.3Other Considerations

C3.1Consideration shall be given to the consequences of DAR failure and the means to ensure rapid restoration of a circuit by other means. This may involve the TO ensuring attendance can be arranged at sites involved within an agreed time period. STCP8-2 Issue 001STCP 08-2 Circuit Live Trip & DAR Tests 18<sup>th</sup> March 2005Issue 002 – 26/05/2005

C3.2Circuit Live Trip and DAR Tests should not normally take place during periods of predicted or actual local adverse weather conditions.

C3.3Consideration shall be given by the TO and NGC to existing Operational Capability Limits affecting equipment when evaluating their suitability for Circuit Live Trip and DAR Tests.