STCP08-3 - Operational Tests and System Tests Issue 007 – 04 March 2024

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***STCP 08-3 Issue 007: Operational Tests and***

***System Tests***

***STC Procedure Document Authorisation***

|  |  |  |  |
| --- | --- | --- | --- |
| **Party** | **Name of Party  Representative** | **Signature** | **Date** |
| The Company |  |  |  |
| National Grid Electricity Transmission |  |  |  |
| SP Transmission Ltd |  |  |  |
| Scottish Hydro-Electric Transmission Ltd |  |  |  |
| Offshore Transmission Owners |  |  |  |
| Competitively Appointed Transmission Owners |  |  |  |

***STC Procedure Change Control History***

|  |  |  |
| --- | --- | --- |
| Issue 001 | 16/03/2005 | BETTA Go-Live Version |
| Issue 002 | 26/05/2005 | Issue 002 incorporating PA008 |
| Issue 003 | 25/10/2005 | Issue 003 incorporating PA034 and PA037 |
| Issue 004 | 24/11/2009 | Issue 004 incorporating changes for Offshore Transmission |
| Issue 005 | 01/04/2019 | Issue 005 Incorporating changes for Offshore Transmission |
| Issue 006 | 25/04/2023 | Issue 006 incorporating use of ‘The Company’ definition as made in the STC PM0130 |
| Issue 007 | 04/03/2024 | Issue 007 PM0128 Implementation of the Electrical System Restoration Standard – PM0132 Implementation of the Electrical System Restoration Standard Phase II |

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**1 Introduction**

**1.1 Scope**

1.1.1 This procedure applies to the arrangements and processes across the interfaces between The Company, as defined in the STC and meaning the licence holder with system operator responsibilities, and the TOs for System Tests or operational tests including System Restoration Tests and Power Island tests including the facilitation of Distribution Restoration Zone tests where applicable as part of a Distribution Restoration Zone Plan. This procedure does not include tests associated with commissioning activities, which are the subject of STCP 19-4 Commissioning and Decommissioning.

1.1.2 System Tests or operational tests may involve single items of Plant and Apparatus through to whole sections of the National Electricity Transmission System.

1.1.3 System Tests or operational tests may be proposed by The Company or the TO.

1.1.4 This procedure describes the data exchange requirements between The Company and the TOs to facilitate planning and implementation of System Tests or operational tests.

1.1.5 This procedure applies to The Company and each TO where, for the purpose of this document, the TOs are:

* NGET;
* SPT;
* SHETL;
* All Offshore Transmission Licence holders as appointed by Ofgem; and
* All Competitively Appointed Transmission Licence holders as appointed by Ofgem.

In the event that specific conditions or exceptions are made in the document relating to an Onshore TO or Offshore TO these will be prefixed appropriately.

**1.2 Objectives**

1.2.1 This procedure specifies the following:

* the responsibilities of The Company and the TO in relation to System Tests or operational tests, including System Restoration Tests, Power Island tests and the facilitation of Distribution Restoration Zone tests undertaken by Network Operators;
* the requirements for exchange of information across The Company - TO interface in relation to these Tests; and
* the means of communication to be used across The Company - TO interface.

1.2.2 This procedure is designed to enable the Parties to discharge their responsibilities under the STC and to ensure that responsibilities are clear.

**2 Key Definitions**

***2.1 For the purposes of STCP 08-3:***

2.1.1 **Operational Effect** is as defined in the Grid Code as at the Code Effective Date and for purposes of this STCP only, not as defined in the STC.

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2.1.2 **Tests Proposer** means the Party proposing Tests.

2.1.3 **Tests Proposal** means an outline provided in writing of the actions proposed to be carried out as part of Tests involving Plant and Apparatus forming part of the National Electricity Transmission System.

**3 Process**

**3.1 General**

3.1.1 All Tests shall be planned to ensure all Plant and Apparatus remains within the applicable capability limits specified by the asset owner and carried out such that there is minimal impact on the National Electricity Transmission System. All Outage requests for Tests shall be progressed in accordance with STCP 11-1 Outage Planning.

3.1.2 System Restoration Tests may involve energisation of Plant to the National Electricity Transmission System or connection of Demand remote from the Anchor Plant or synchronisation of Top Up Restoration Plant. In the case of a Distribution Restoration Zone test which includes Transmission equipment, this would be initiated by the Network Operator and may involve one or more Restoration Contractors who own and operate plant connected to the Network Operator’s System. To facilitate these tests, the Network Operator will need to liaise with The Company in which case there may be occasions where The Company and the TO in coordination with the Network Operator configure the TO’s network to facilitate the Distribution Restoration Zone test.

3.1.3 Operation of some Plant and Apparatus may be temporarily transferred to the TO by formal agreement between The Company and the TO as part of the Tests programme.

3.1.4 The Company shall be responsible for obtaining the agreement with a User for Tests to proceed. If The Company gives permission for the TO to act as the point of contact, the TO shall contact and advise the User that the TO has become the point of contact and that Tests shall commence shortly. The category of Tests (either minor or major) shall be agreed by the Parties involved as part of operational liaison. Major Tests are those considered sufficiently complex by a party to require a detailed Tests programme to be submitted in accordance with Section 3.2 below. Tests categorised as minor shall not require a detailed Tests programme to be submitted. Tests may include switching Plant out of service using Protection Apparatus. Tests relating to System Restoration would generally be completed in accordance with the relevant Restoration Plan as provided for in OC9.4.7.6.2 of the Grid Code and/or the general testing requirements of OC5.7 of the Grid Code.

3.1.5 From 31st December 2026 onwards, TO’s are required to confirm annually they comply with the applicable requirements of OC5.7 of the Grid Code. From 1st January 2024 until 31st December 2026, evidence to support the work TO’s are making as to how they will satisfy these requirements shall be provided by submitting Part III of DRC Schedule 16 of the Grid Code. From 31st December 2026, TO’s are required to comply with the requirements of Section C Part Three of the STC. This data shall be provided in accordance with STCP 12-1 annually during calendar week 24.

**3.2 Tests Procedure Preparation**

**Tests Proposal**

3.2.1 If the Tests Proposer is a TO, then the following provisions shall apply:

3.2.1.1 The TO shall be responsible for providing the Tests Proposal to The Company in accordance with this procedure.

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3.2.1.2 The TO shall, as soon as reasonably practicable, submit a Tests Proposal to The Company. Where practicable, this Tests Proposal shall be submitted to The Company a minimum of 13 weeks prior to the date of the Tests. The TO shall endeavour to ensure sufficient detail is included in the Tests Proposal to allow the affected parties to assess the impact of the Tests on the National Electricity Transmission System and User Systems.

3.2.1.3 The TO shall be responsible for change control of the Tests Proposal and shall issue a revised Tests Proposal to The Company, as soon as reasonably practicable. The Company shall be responsible for liaising with an affected User or affected TO accordingly.

3.2.1.4 The Company shall, as soon as reasonably practicable, provide to each affected User or other affected TO a copy of the Tests Proposal and all updates thereof.

3.2.1.5 The Company and the TO shall assess the implications and agree the category of the Tests as soon as reasonably practicable. The Company shall liaise with each affected User and/or affected TO and seek their agreement to the Tests Proposal and collate and co-ordinate their responses to the TO.

3.2.1.6 If the Tests Proposal is not acceptable to The Company, an affected User or affected TO, The Company shall refuse the Tests Proposal and shall immediately inform the TO. That TO may choose to revise and re-submit the Tests Proposal in accordance with this procedure or raise a dispute.

3.2.2 If the Tests Proposer is The Company, then the following provisions shall apply:

3.2.2.1 The Company shall, as soon as reasonably practicable, submit a Tests Proposal to each affected TO and/ or affected User in accordance with this procedure. Where practicable, this Tests Proposal shall be submitted to the TO a minimum of 13 weeks prior to the date of the Tests. The Company shall endeavour to ensure sufficient detail is included in the Tests Proposal to allow the parties to assess the impact of the Tests Proposal on the TO assets and User Systems. In the case of a Distribution Restoration Zone test, The Company shall be the Tests Proposer and will coordinate the test with the Network Operator and each affected TO.

3.2.2.2 The Company shall be responsible for change control of the Tests Proposal and shall issue to each affected TO and/or affected User, as soon as reasonably practicable, a copy of the Tests Proposal and all updates thereof. The Company shall be responsible for liaising with each affected User or affected TO.

3.2.2.3 The Company and each affected TO shall assess the implications and agree the category of the Tests as soon as reasonably practicable. The Company shall liaise with each affected User and/or affected TO and seek their agreement to the Tests Proposal.

3.2.2.4 If the Tests Proposal is not acceptable to an affected User or affected TO, The Company may choose to revise and re-submit the Tests Proposal to each affected TO and/or affected User in accordance with this procedure or raise a dispute.

**Detailed Tests Programme**

3.2.3 If the Tests Proposer is a TO, then the following provisions shall apply:

3.2.3.1 As soon as practical after agreement to the Tests Proposal, the TO shall provide an Outage request to The Company detailing the Plant and Apparatus involved in accordance with STCP 11-1 Outage Planning and STCP 11-2 Outage Data Exchange.

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3.2.3.2 The TO will provide, as soon as reasonably practicable, a draft Tests programme, taking account of any asset related issues, to a level of detail including, but not limited to, the content shown in Appendix B.

3.2.3.3 The TO shall be responsible for change control of the draft Tests programme and shall issue, as soon as reasonably practicable, revised draft Tests programmes, where appropriate, to The Company. The Company shall be responsible for liaising with the TO, any affected User and/or affected TO.

3.2.3.4 The Company shall provide to each affected User and/or affected TO a copy of the draft Tests Programme and all updates thereof.

3.2.3.5 The Company shall liaise on the implications of the Tests programme with each affected User and/or affected TO and seek their agreement to the Tests programme. The Company shall collate and co-ordinate the responses to the TO.

3.2.3.6 The Company and the TO shall each assess the implications on the Tests programme:

* The Company shall assess the National Electricity Transmission System implications;
* the TO shall assess the implications of the Tests programme on that TO assets and advise The Company of any asset related issues;
* The Company and the TO shall agree any changes required to the Tests programme; and
* The Company will liaise with each affected User and/or affected TO to confirm their agreement to the Tests programme changes.

3.2.3.7 When all issues raised have been addressed to the reasonable satisfaction of all parties and the draft Tests programme agreed by all parties, the agreed Tests programme shall be issued by the TO to The Company. This shall normally be at least 15 Business Days prior to the commencement date of Tests unless otherwise agreed.

3.2.3.8 The Company shall provide as soon as reasonably practicable to each affected User

and/or affected TO a copy of the agreed Tests programme and all updates thereof.

3.2.3.9 In the event that The Company is informed that a party has identified a need for essential changes to the agreed Tests programme, The Company shall inform the relevant TO as soon as reasonably practicable. That TO shall be responsible for change control and, as soon as reasonably practicable, issue an amended Tests programme to The Company. Any essential changes made must be agreed and acknowledged by The Company. The Company shall be responsible for liaising with each affected User and/or affected TO to obtain their agreement to the Tests programme changes.

3.2.3.10 In the event that that there is a dispute regarding the acceptability or otherwise of a Tests programme or associated Outage the Tests shall not take place until the dispute has been resolved.

3.2.4 If the Tests Proposer is The Company, then the following provisions shall apply:

3.2.4.1 On agreement of the Tests Proposal, The Company shall agree an Outage request with each affected TO for the Plant and Apparatus involved in the Tests. Each TO shall then submit any required Outage requests as soon as practicable, and in accordance with STCP 11-1 Outage Planning and STCP 11-2 Outage Data Exchange.

3.2.4.2 The Company will provide to each affected TO, as soon as reasonably practicable, a draft Tests programme to a level of detail, including but not limited to the content shown in Appendix B.

3.2.4.3 The Company shall be responsible for change control of the draft Tests programme and shall provide to each affected TO and each affected User, as soon as reasonably practicable, a copy of the Tests programme and all updates thereof.

3.2.4.4 The Company shall liaise on the implications of the Tests programme with each affected User and/or affected TO and seek their agreement to the Tests programme.

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3.2.4.5 The Company and each affected TO shall assess the implications of the Tests programme. The Company shall assess the National Electricity Transmission System implications and convey the implications to all affected parties. Each TO shall assess the implications of the Tests programme on that TO’s assets and advise The Company of any asset-related issues. The Company and the TO shall agree any changes required to the Tests programme. The Company will liaise with each affected User and/or affected TO and confirm their agreement to the Tests programme changes.

3.2.4.6 When all issues raised have been addressed to the reasonable satisfaction of all parties, and the draft Tests programme agreed by all parties, the agreed Tests programme shall be issued by The Company to each affected TO and/or affected User. This shall normally be at least 15 Business Days prior to the commencement date of Tests, unless otherwise agreed.

3.2.4.7 In the event that The Company is informed that a party has identified a need for

essential changes to the agreed Tests programme, The Company shall be responsible for change control and issue of the amended Tests programme. Any essential changes made must be agreed and acknowledged by The Company and each affected TO, as soon as reasonably practicable. The Company shall be responsible for liaising with each affected User and/or affected TO to obtain their agreement to the Tests programme changes.

3.2.4.8 In the event that that there is a dispute regarding the acceptability or otherwise of a Tests programme or associated Outage, the Tests shall not take place until the dispute has been resolved.

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**Planning Process Associated with Tests Requirements**

3.2.5 If the Tests Proposer is a TO, then the following provisions shall apply:

3.2.5.1 Plant or Apparatus switched out of service by operation of Protection Apparatus in preparation for maintenance work shall be treated as an Outage request under STCP 11­1 Outage Planning. The Outage booking shall include the comment 'Switch out by protection’.

3.2.5.2 The Company shall assess the National Electricity Transmission System implications of the Tests (including the proposed time, date and extent of the Tests Proposal) and convey the implications to all affected parties. The Company shall liaise with and co­ordinate the responses to the TO from each affected User and affected TO. The TO shall assess the asset implications of the Tests and both the TO and The Company shall agree the acceptability or otherwise of the Tests as part of normal operational liaison.

3.2.5.3 The Company and each affected TO shall use reasonable endeavours to ensure that sufficient information is exchanged and facilities are provided where reasonably requested in order to support the planning and implementation of the Tests, and ensure that System conditions for the period of the Tests can be sufficiently modelled and monitored. The Company shall be responsible for obtaining information reasonably requested by the TO from a User.

3.2.5.4 Prior to commencement of the Tests, the viability of the Tests’ requirements shall be regularly reviewed by The Company and the TO and the Tests may be subject to a delay at any time. Parties shall each use reasonable endeavours to ensure that any such delay is kept to a minimum. Where Tests are delayed, the process to agree alternative Test arrangements shall follow the process outlined in this procedure. The Company shall be responsible for keeping the TO informed of any delays associated with or advised by other parties.

3.2.5.5 The TO shall confirm the asset Operational Capability Limits and notify The Company of any Services Reduction Risks on assets associated with the proposed Tests.

3.2.6 If the Tests Proposer is The Company, then the following provisions shall apply:

3.2.6.1 The Company shall assess the National Electricity Transmission System implications of the Tests (including the proposed time, date and extent of the Tests) and convey the implications to all affected parties. The Company shall liaise with and co-ordinate the response from each affected User and affected TO. Each affected TO shall assess the asset implications of the Tests and both the TO and The Company shall agree the acceptability or otherwise of the Tests as part of normal operational liaison.

3.2.6.2 The Company, and each affected TO shall use reasonable endeavours to ensure sufficient information is exchanged and facilities are provided, where reasonably requested, in order to support the planning and implementation of the Tests and to ensure that System conditions for the period of the Tests can be sufficiently modelled and monitored. The Company shall be responsible for obtaining information reasonably requested by the TO from a User.

3.2.6.3 Prior to commencement of the Tests, the viability of the Tests’ requirements shall be regularly reviewed by The Company and the TO. This may result in Tests being delayed. Parties shall each use reasonable endeavours to ensure that any such delay is kept to a minimum. Where Tests are delayed the process to agree an alternative Tests programme must follow the process outlined in this procedure. The Company shall be responsible for keeping the TO informed of any delays associated with other parties.

3.2.6.4 The TO shall confirm the asset Operational Capability Limits and notify The Company of any Services Reduction Risks on assets associated with the proposed Tests.

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**3.3 Operational Process**

3.3.1 The Company shall be responsible for operational liaison and obtaining agreement from an affected User or affected TO for Tests to proceed:

3.3.1.1 Information exchange for Outages required as part of a Tests Programme shall take place in accordance with the requirements of STCP 11-1 Outage Planning.

3.3.2 The Company shall co-ordinate the Tests. Where operation of Plant and Apparatus is transferred to the TO as part of the agreed Tests programme, The Company shall inform each affected User and/or each affected TO prior to the transfer of operation.

3.3.3 In the Control Phase, the Tests shall be carried out in accordance with the requirements of STCP 1-1 Operational Switching and the Tests programme. The Company shall inform each affected User and/ or each affected TO at the start of the Tests.

3.3.4 When Tests have commenced, any change in System, site or Test conditions that could affect or invalidate the Tests or have an Operational Effect must be communicated to other parties as soon as reasonably practicable. The Tests shall be suspended until all parties involved have assessed the implications of the change in System, site or Tests conditions. Where operation of Plant and Apparatus had been transferred to the TO, this shall be transferred back to The Company. The Company shall co-ordinate any communications with each affected User or affected TO on agreement reached to complete, delay or cancel the Tests programme and inform of the transfer of operation of Plant and Apparatus back to The Company.

3.3.5 Tests may be suspended or cancelled by any party during periods of predicted or actual local adverse weather conditions. The TO shall be made aware by The Company, as soon as reasonably practicable, of requests by an affected User or affected TO for suspension or cancellation of Tests.

3.3.6 In the event of a failure of communications between the TO and The Company or the Tests site during the Tests, then the Tests programme shall be suspended on completion of the agreed instruction until satisfactory communications are restored and agreement is reached to continue with the Tests programme.

3.3.7 When Tests are complete, or operation of Plant and Apparatus is transferred back to The Company due to a suspension or cancellation of the Tests, The Company shall inform any affected User or affected TO, as soon as reasonably practicable.

**4 Other Considerations**

4.1.1 Tests shall normally only be carried out by The Company or a TO on Plant and Apparatus in operational service when the results of off-load Tests would not be sufficiently rigorous in the reasonable opinion of either Party to confirm the continued satisfactory performance of the Plant or Apparatus involved.

4.1.2 The Company and the relevant TO shall give consideration to relevant existing operating restrictions or notified Services Reductions or Services Reduction Risks when evaluating a Tests Proposal or Tests programme.

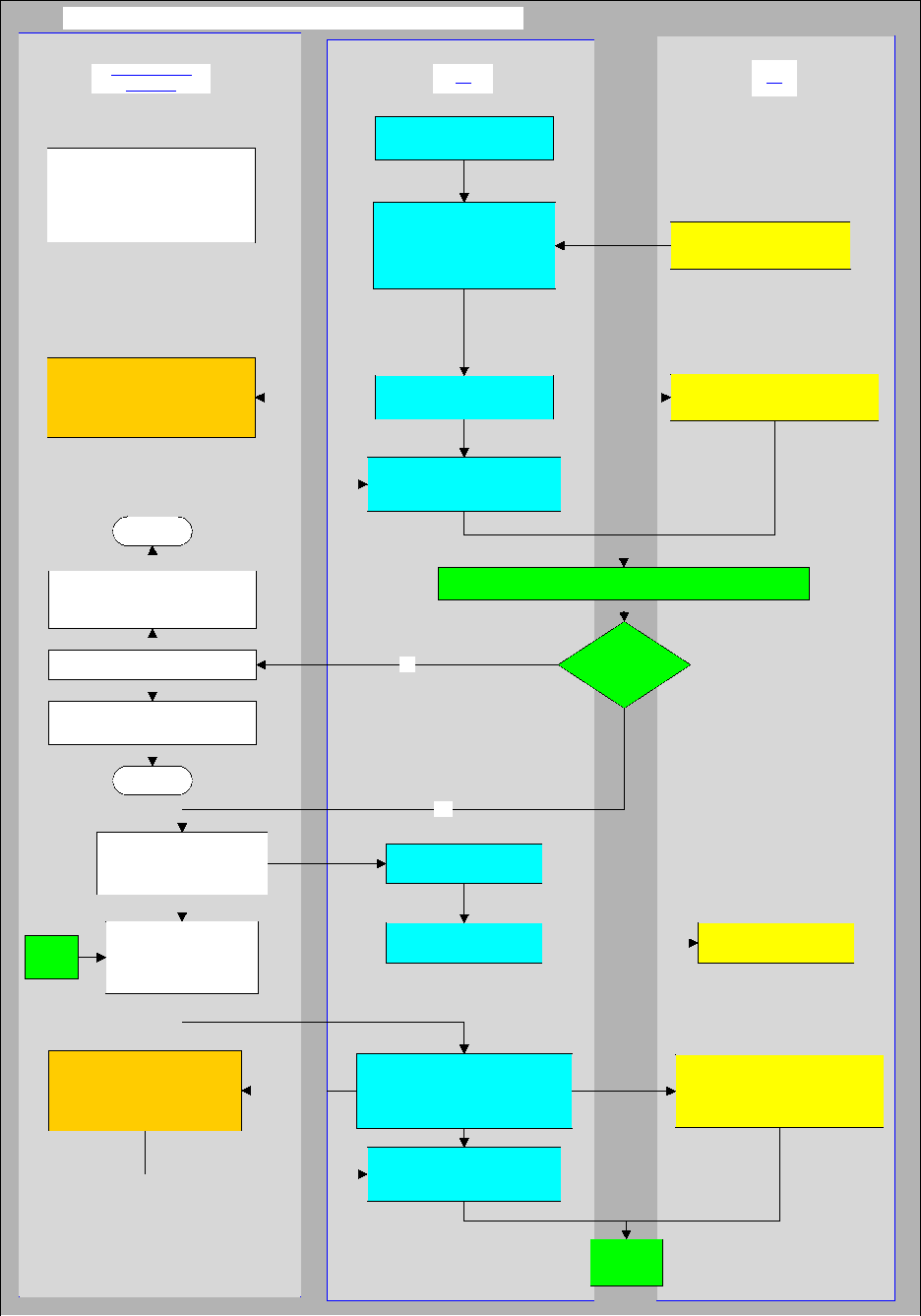
4.1.3 No Tests shall take place that could result in operation of an Operational Intertripping scheme unless this is the stated purpose of the Tests and agreement has been reached with all affected parties.

4.1.4 Where testing of an Operational Intertripping scheme is not the stated purpose of testing, then no Tests shall take place involving a circuit associated with an Operational Intertripping scheme unless the Operational Intertripping scheme is not required in service in the opinion of The Company for the duration of the Tests. The scheme must be deselected from service by a means agreed with all affected parties.

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**Appendix B: 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.



**B**

**The Tests proposer may be SO or TO - this procedure illustrates this by use of the external column forTests proposer actions**

**amend Tests proposal and resubmit**

**SO contacts affected Users/TO to   
obtain agreement to and   
response on the detailed Tests   
programme**

**Dispute resolution process may be**

**Affected Users/TO contacted and given details of Tests proposal for assessment of implications and responds**

**Tests proposer may choose to**

**Tests proposer informed**

**Tests proposer prepares and**

**External / Test proposer**

**submits outage request**

**Tests proposer submits   
draft/ revised detailed   
Tests programme**

**initiated**

**End**

**End**

**STCP 8-3 Operational/System Tests**

**SO receives draft/ revised detailed   
Tests programme and informs TO and   
affected Users/TO**

**proposal from Tests proposer**

**SO receives responses from**

**SO receives responses from**

**Outage included in Outage**

**Tests proposal submitted**

**SO receives outline Tests**

**SO informs Host TO and**

**No**

**SO receives Outage**

**affected Users/TO**

**affected Users/TO**

**affected Users/TO**

**request for Tests**

**Yes**

**database**

**SO**

**SO/TO assess implications of Tests proposals**

**proposals agreed ?**

**Outline Tests**

**Goto A page 2**

**Host TO receives Tests proposal**

**TO receive copy of detailed Tests**

**Tests proposal submitted**

**TO receives database**

**programme**

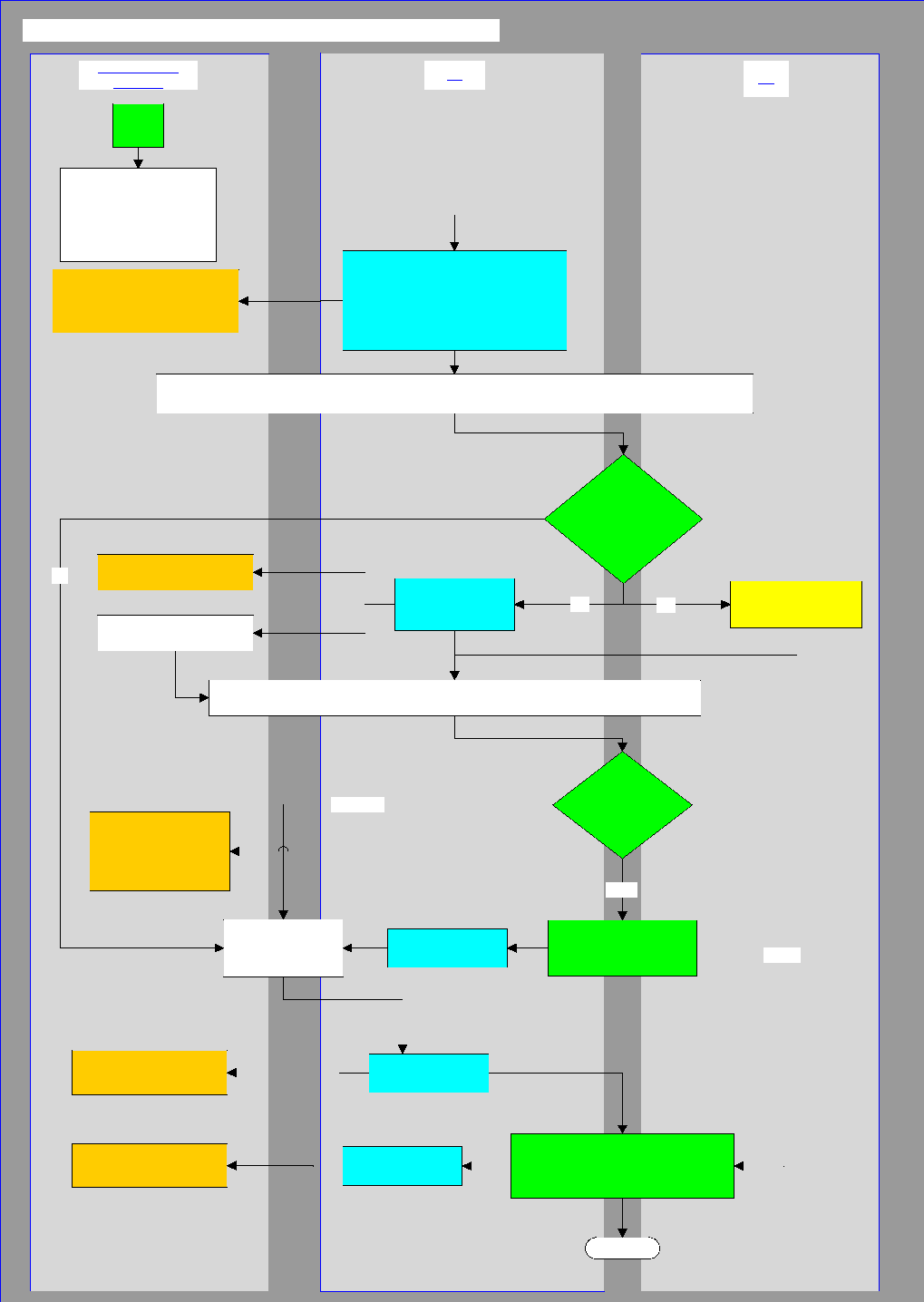
**updates**

**TO**

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**No**

**In Control Phase Tests   
proposer contacts SO to   
start Operational / System   
Tests**

**Affected Users/ affected TO**

**informed (as appropriate)**

m es

**Affected Users/ affected** pogrme

**Affected Users/ affected**

**Affected Users/affected   
TO informed Tests to be   
recommenced**

**External / Test**

ternal / T   
**proposer**

**Affected Users/ affected**

**Tests proposer informed**

**TO informed**

**TO informed**

**C**

y

**STCP 8-3 Operational/System Tests**

**TO informed**

**2.13 TO and SO carry out Tests programme in conjunction with Tests proposer**

**Detailed Tests   
programme   
completed**

**Tests proposer, SO and TO assess implications of changes**

**Complete**

**SO contacted by Tests propooser.   
Operational / System Tests in   
accordance with agreed Tests   
programme and STCP 1-1 'Operational   
Switching'**

**SO informed**

q

**SO informed**

**SO informed**

**SO informed**

**SO**

**SO / TO restore transmission system**

**After delay period SO /   
TO agree to continue   
Tests**

r inform   
**Is there   
a chang in the**required ?   
**system, site or testing   
conditions ?**

**Yes**

**to normal running**

**Agree to   
complete,delay or   
cancel   
Tests ?**

**Delay**

**End**

**Yes**

O**TO**

**TO informed**

**Cancel**

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***Appendix B: Tests Programme***

B1 A detailed Tests programme for major testing shall:

B.1.1 have a unique identifier allocated by the Tests Proposer and indicate the current version and issue number;

B.1.2 define the means of communication and location of all parties involved in the Tests; B.1.3 follow an agreed change control process for changes to the Tests programme;

B.1.4 specify any associated documentation and diagrams forming part of the Tests programme and ensure these shall be accessible to all recipients of the Tests programme;

B.1.5 identify the Plant and Apparatus subject to the Tests and any other Plant and Apparatus that could be affected;

B.1.6 identify any Operational Effects or potential Operational Effects associated with the Tests;

B.1.7 identify any Services Reductions or Services Reduction Risks associated with the Tests;

B.1.8 outline the initial conditions of the Plant and Apparatus subject to the Tests;

B.1.9 detail any temporary protection settings or Protection Apparatus required for the purposes of the Tests together with the settings applied; and,

B.1.10 provide a detailed Tests schedule with location, action, any expected result and/or

Operational Effect identified for each item of the Tests programme.

B2 For complex Tests breakpoints should be identified where the Tests programme can be

suspended and restarted without undue risk and with minimum disruption.

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***Appendix C: Abbreviations & Definitions***

***Abbreviations***

SHETL Scottish Hydro-Electric Transmission Limited

SPT SP Transmission Ltd

STC System Operator Transmission Owner Code

TO Transmission Owner

***Definitions***

**STC definitions used:**

Apparatus

Distribution Restoration Zone Plan

National Electricity Transmission System

NGET

Operational Capability Limits

Outage

Party

Plant

Restoration Contractor

Restoration Plan

SHET

SPT

Service Reduction

Service Reduction Risk

System

System Restoration

Tests

The Company

Transmission Owner

User

**Grid Code definitions used:**

Anchor

Anchor Restoration Contract

Control Phase

Demand

Distribution Restoration Zone

Network Operator

Operational Effect

Operational Intertripping

Power Island

Protection ApparatusRestoration Plan

System Tests

Top Up Restoration Contract

Top Up Restoration Plant

**Definition used from other STCPs:**

The Company Outage Database – STCP11-1