

STCP Amendment Proposal Form

PA019

1. Title of Amendment Proposal

STCP 06-2 – 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-Live:

C238.

This Change Request is attached at Attachment 1 to this STCP Amendment Proposal Form.

Minor changes to the Headers and Footers within the document are also proposed. These changes serve to ensure that the name of the STCP and its Issue Number 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 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 06-2 De-Synchronised Island Management 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. 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 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 06-2 this would better facilitate the following Applicable STC Objectives:

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

Details of Proposer Organisation's Name	National Grid Company plc
Capacity in which the Amendment is being proposed (i.e. STC Party or other Party as designated by the Authority pursuant to STC section B7.2.2.1 (b))	STC Party
Details of Proposer's Representative Name Organisation Telephone Number Email Address	Mark Duffield National Grid Company plc 01926 654971 mark.duffield@ngtuk.com
Details of Representative's Alternate Name Organisation Telephone Number Email Address	Ben Graff National Grid Company plc 01926 656368 Ben.Graff@ngtuk.com
Attachments (Yes/No): Yes If yes, title and number of pages of each attachment: Attachment 1: Original Change Requests Attachment 2: Revised legal text for STCP 06-2: De-Synchronised Island Management	

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

Attachment 1: Incorporated Outstanding Change Requests

ID	Raised On	Originating Body	Description	Affected Category 2 Documents	Business Owner	CDA Owner	Status	DG1	Last Updated	Comments
C238	03/06/2005	CRUG	Changes required to reflect the agreed comments as described in the CDA Consistency Form dated 18th February 2005 relating to STCP6-2 De-Synchronised Island Management.	STCP 06-2 Issue 001	Mike Lee	Nadim Al-Hariri	Accepted	X	03-Jun-05	3 June 05: CR raised 3 June 05: CRUG accepted the CR

Change Request

(Yellow Shaded Boxes For CDA Use Only)

CDA CR ID	C238	Status¹	Accepted
Company CR ID		Associated CR's	
Description of Change			
Changes required to reflect the agreed comments as described in the CDA Consistency Form dated 18th February 2005 relating to STCP6-2 De-Synchronised Island Management. For a breakdown of the comments see the consistency form.			
Reasons for Change			
To implement the agreed changes in the CDA Consistency form			
Affected Category 2 Document(s)²		DG's Informed	
STCP6-2 De-Synchronised Island Management, Issue 1		CRUG	
Originating Body³		HLIA ID	
Raised On	3 rd June 2005	DLIA ID	
Business Owner	Mike Lee	Time Impact⁴	
CDA Owner	Nadim Al-Hariri	Effort Impact⁵	
<Group> Agreed Action – <Date>			
Change Request Source Document			
 STCP6-2 Consistency Form.doc			
Document Version Included In			
To Be Included In	<input type="checkbox"/> Testing	<input checked="" type="checkbox"/> STCP Drafting	<input type="checkbox"/> Post "Go-Live"

¹ One of *Raised*, *HLIA Submitted*, *DLIA*, *DLIA Submitted*, *Accepted*, *Rejected* or *Pending*.

² Identifies the directly affected Category 2 documents. A full list of affected Category 1 & 2 documents will be identified by the HLIA.

³ One of DG1, DG2, DG3, DG4, Ofgem/DTI or Companies.

⁴ One of **Red** (impact on critical path), **Amber** (impact on plan but not critical path) or **Green** (no impact on plan)

⁵ 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		Issued		Consistency Form Version		I1.0	
Document Name	STCP6-2 De-Synchronised Island Management				Version	Issue 1	
						26/1/05	
					Review Ref	1	
Reviewer	Tony Mason				Date	18/02/05	
Checked by	Nadim Al-Hariri				Date	18/02/05	
Category 2 Documents – Detailed Level Processes and STCPs <i>C: Indicates documents have been checked for consistency and no action required.</i> <i>A: Indicates documents have been checked for consistency and action may be required.</i> <i>N: Indicates documents are related but are unavailable to be checked for consistency.</i>							
DG	Id	Issue	STCP/DL	Name	Action		
1	6-2	Issue 1	-	Internal Consistency	A		
0	-	Designated	-	SO-TO Code	A		
1	11-1	Issue 2	STCP	Outage Planning	A		
1	2-1	29/7/04	STCP	Alarm and Event Management	C		
1	1-1	15/11/04	STCP	Operational Switching	C		
1	8-3	Issue 1	Level 2				
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 review

Owning DG Review -

Sent to owning DG for agreed actions

Other DG Review -

Sent to other DG's affected for agreeing actions

Issued -

Issued

Category 2 Document		STCP11-1 Outage Planning			Version		N/A
Id	Sect	Comment	Cat	Type	Sevty	Effort	Proposed/Agreed Action
1	General	One of the acknowledged outstanding issues requiring resolution is the inclusion within 11-1 of consideration of a DIP being in place, where this is appropriate, prior to the placing of an outage.	I	O	H	L	Proposed Action: Update 11-1 to include text suggested on front page of STCP6-2 Agreed Action: Flag to STC Committee

Category 2 Document		STC – Schedule 3			Version		1884256-2
Id	Sect	Comment	Cat	Type	Sevty	Effort	Proposed/Agreed Action
1	General	The relevant sections of Schedule 3 are: 2.2.1(d) – Disclosure of Transmission Information for inclusion in the DIP 2.4.8 – Disclosure of past or present physical properties of User Plant and Apparatus 2.4.10 – Disclosure of Export and Import limits as part of implementation of the DIP. None of these sections appear to allow the Disclosure of Reactive Power and Frequency Response capabilities or necessary contracts to provide island services as required in section 2.2.3.1 of STCP6-2	I	O	H	L	Proposed Action: Consider change to S3 to allow Disclosure during development and implementation of a DIP. Agreed Action: Flag to STC Committee

Category 2 Document		Internal Consistency	Version		N/A		
Id	Sect	Comment	Cat	Type	Severity	Effort	Proposed/Agreed Action
1	Typos	<p>Footer – remove “draft 8”</p> <p>2.2.3.1 (2nd and 4th bullets) – “Load” and “The” should be lower case</p> <p>2.2.3.1 (2nd and 3rd bullet) – semi-colons should follow the points</p> <p>2.2.3.1 (4th bullet) – either remove “with relevant” or include the appropriate contracting party after “with relevant”</p> <p>2.2.3.1 (1st bullet), 2.3.3, 2.5.5 – “Power Island” should read “De-synchronised Island”</p> <p>2.2.3.2 (2nd and 3rd bullets) - semi-colons should follow the points</p> <p>2.1.3 (last line) – User’s should be Users</p> <p>2.2.1.3 – “If” should be in lower case</p> <p>2.3 (heading) – “Desynchronised” should be De-synchronised”</p> <p>2.3.6 – Appendix B should be Appendix A</p> <p>2.4.1 (2nd bullet) – “with” should be “within”</p> <p>2.4.1 – the start of the bullets should be in lower case</p> <p>2.5.2 (2nd line) – additional space between “achievable” and “and”.</p> <p>2.9.1 – Control should be lower case</p> <p>2.5.2 – un-capitalise “Voltage”</p> <p>2.5.4 – “switching” should be capitalised</p> <p>Many places – De-synchronised Island is correct (GC definition) and De-Synchronised is correct (GC definition). Use this convention consistently in the process</p> <p>Many places – Consistent use of Plant and Apparatus or Plant and/or Apparatus</p> <p>Appendix A (first line) – “(TSC)” should read “(DIOC)”</p> <p>Appendix A DIOC Pro-forma Part 2 – “from” should read “form”</p> <p>Appendix A DIOC Pro-forma Part 2 – “SO” should read “NGC”</p>	C	F	L	L	<p>Proposed Action:</p> <p>Not required for Go live. Change request required.</p> <p>Agreed Action:</p> <p>agreed</p>
2	General	<p>Where the GB Transmission System or the De-synchronised Island Procedure is referenced it should be clarified that this refers only to the GB Transmission System or the De-synchronised Island Procedure in SHETL’s area. This could be included as a statement within the Scope section of the process.</p>	C	F	L	L	<p>Proposed Action:</p> <p>Not required for Go live. Change request required.</p> <p>Agreed Action:</p> <p>No change</p>

Category 2 Document		Internal Consistency	Version		N/A		
Id	Sect	Comment	Cat	Type	Sevty	Effort	Proposed/Agreed Action
3	2.4.1	<p>“Voltages of +10% and –5% should not prevail for more than 15 minutes.” Does this mean “Voltages <i>outside the range</i> of +10% and –5% should not prevail for more than 15 minutes.”</p> <p>If this is so can the TO operate at +9.99% for an unlimited time?</p>	Q				<p>Proposed Action:</p> <p>Agreed Action:</p> <p>No change</p>
4	2.4.2	<p>This information has been transferred as part of the DIP. S2.4.2 is concerned with providing updates to the information provided in the DIP.</p> <p>Suggest rewording to:</p> <p>“NGC shall provide regular updates of information as detailed in sections 2.2.3.1 - 2.2.3.3 to the TO at the following intervals:</p>	I	D	L	L	<p>Proposed Action:</p> <p>Reword the section to consider the situation where the information has already been transferred.</p> <p>Raise Change Request to resolve.</p> <p>Agreed Action:</p> <p>agreed</p>
5	2.6.1	<p>In circumstances where there is a change in the conditions within the De-synchronised Island will there be an obligation to cancel the existing DIOC with the option of re-issuing a revised DIOC or transferring the De-synchronised Island back to NGC <u>or</u> is it possible to continue with the existing DIOC despite its divergence?</p> <p>If the latter is not allowed then this should be stated within the process.</p>	Q				<p>Proposed Action:</p> <p>Agreed Action:</p> <p>No change</p>
6	Definitions	<p>Missing definitions:</p> <p>Transmission System (STC definition)</p> <p>BM Unit (Grid Code)</p> <p>OC9 De-Synchronised Island Procedure (GC)</p> <p>Reserve (new definition required)</p> <p>Transmission (STC)</p> <p>Plant (STC)</p> <p>Apparatus (STC)</p> <p>User Site (STC)</p> <p>Good Industry Practice (STC)</p> <p>Emergency Switching (new definition required)</p> <p>Control Room (new definition required)</p>	C	F	L	L	<p>Proposed Action:</p> <p>Update definitions</p> <p>Not required for Go live. Change request required.</p> <p>Agreed Action:</p> <p>Agreed / highlighted used small letters</p>

Category 2 Document		<i>Internal Consistency</i>			Version		N/A
Id	Sect	Comment	Cat	Type	Sevty	Effort	Proposed/Agreed Action
7	Swim lane	There is no swim lane in the process	I	O	M	H	Proposed Action: Add swim lane and include in next version of the process via a CR. Agreed Action: None added

Attachment 2: Revised Legal Text for STCP 06-2 De-Synchronised Island Management

~~Document Ref : STCP 6.2 Version 0001~~ STCP 06-2 Issue 002 De-Synchronised **Island Management**

STC Procedure Document Authorisation

<u>Company</u>	<u>Name of Representative</u>	<u>Signed off (date)</u>
Ofgem		
NGT		
SP		
SSE		

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

STC Procedure Change Control History

Issue 1 26/01/05

~~Outstanding issues to be resolved pre company sign-off~~

~~The following text has been cut out of this STCP and needs to be reflected in STCP 11-1 Outage Planning:~~

~~NGC shall agree to the Outage request if the System conditions, applicable [Security Standards] (need to find definition —jh)— economics and the viability of establishing an agreed DIP in time for the Outage are acceptable. Planned De-Synchronised Island operation shall not take place without an agreed DIP being in place.~~

~~NGC shall consider whether the planned situation is covered by an existing DIP. Where this is not the case, NGC shall be responsible for developing an appropriate DIP. In such cases, the Outage request needs to reflect the timescales required for the development of the DIP. Agreement to the Outage request will also be conditional on NGC obtaining User's agreement to the DIP.~~

~~At the planning stage, NGC may agree, the proposed transfer of control of a De-Synchronised Island to the TO. When operation of the De-Synchronised Island is proposed to be transferred to the TO, under either an Outage or following an Event, the boundary of the De-Synchronised Island so transferred shall not include any Transmission Plant and Apparatus not wholly owned by that TO, or any User's System that has not agreed to De-Synchronised Island operation.~~

STCP 06-2 De-Synchronised Island Management

Issue 002 – 22/06/2005

~~Within STCP11 1, we also need to identify the need for a DIP and only grant an associated Outage if an appropriate DIP can be produced in time.~~

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

~~1. Dispute resolution process~~

Def

Issue 1	26/01/2005	BETTA Go-Live version
Issue 2	22/06/2005	Issue 002 incorporating PA019

nitions may

1 Introduction

1.1 Scope

- 1.1.1 This procedure shall be utilised in the event that parts of the Total System are operated or are intended to be operated as De-Synchronised Islands under specific Outage or contingency conditions. A De-SynchronisedDe-synchronised Island is a part of the Total System that is operating Out of Synchronism with the main GB Transmission System, but where there is no Total Shutdown or material Partial Shutdown (as determined by NGC). This procedure does not apply to Systems that operate permanently as a De-Synchronised-IslandDe-synchronised Island, e.g. Shetland.
- 1.1.2 De-SynchronisedDe-synchronised Island management is a joint process between NGC and the TO. For the purposes of this document, the TO is SHETL.
- 1.1.3 This procedure does not cover any arrangements that fall inside the scope of STCP 6-1 Black Start.
- 1.1.4 This procedure covers any De-SynchronisedDe-synchronised Island that includes:
- part of the GB Transmission System; or
 - is wholly within a User's System and includes a BM Unit registered with NGC and active in the Balancing Mechanism.
- 1.1.5 This procedure covers the arrangements and responsibilities of NGC and the TO, in relation to:
- the production of a Grid Code OC9 De-SynchronisedDe-synchronised Island Procedure, (DIP);
 - the planning, operation and management of De-Synchronised Islands, as part of the arrangements for an Outage on the GB Transmission System;
 - the operation and management of unplanned De-Synchronised Islands; and
 - re-synchronisation of a De-Synchronised Island, to the GB Transmission System.
- 1.1.6 It should be noted that the provisions of Grid Code OC9.5 (Re-Synchronisation of De-Synchronised Islands) covers the interface between NGC and User's, and where appropriate the TO.

1.2 Objectives

- 1.2.1 This document specifies the roles and responsibilities for De-SynchronisedDe-synchronised Island management in terms of:
- planning for a De-Synchronised Island;
 - producing a Grid Code OC9 De-SynchronisedDe-synchronised Island Procedure, (DIP);
 - transferring the operation of a De-SynchronisedDe-synchronised Island between NGC and the TO by means of a De-SynchronisedDe-synchronised Island Operating Certificate (DIOC);
 - establishing and operating a De-Synchronised Island;
 - liaison with Users; and
 - re-synchronisation of the De-SynchronisedDe-synchronised Island to the GB Transmission System.

2 Procedure

2.1 ~~De-Synchronised Island~~–De-synchronised Island– Outage Planning Process

- 2.1.1 When NGC receives an Outage request in accordance with STCP 11-1 Outage Planning that, if implemented, would require or could lead to ~~De-Synchronised~~De-synchronised Island running, NGC shall, in conjunction with the TO and Users, consider whether a new ~~De-Synchronised~~De-synchronised Island Procedure (DIP) is required or whether it is appropriate to review and revise an applicable existing DIP (as detailed in section 2.2).
- 2.1.2 Where the need for a DIP is identified and agreed, the associated Outage request will only be granted if NGC considers an appropriate DIP can be produced prior to the proposed Outage date. Agreement to the Outage request will also be conditional on NGC obtaining User's agreement to the DIP, where appropriate.
- 2.1.3 At the planning stage, NGC may agree the proposed transfer of control of a ~~De-Synchronised~~De-synchronised Island to the TO. When operation of the ~~De-Synchronised~~De-synchronised Island is proposed to be transferred to the TO, under either an Outage or following an Event, the boundary of the ~~De-Synchronised~~De-synchronised Island so transferred shall not include any Transmission Plant and/or Apparatus not wholly owned by that ~~TO, or any User's~~TO or any User's equipment.

2.2 ~~De-Synchronised~~De-synchronised Island Procedure (DIP)

2.2.1 Identification of need for a new DIP or changes to an existing DIP

- 2.2.1.1 NGC shall, in conjunction with other relevant parties within the proposed De-synchronised Island, be responsible for identifying the need for and agreeing the format and content of a DIP.
- 2.2.1.2 The principles that apply to establishing a new DIP under this STCP, shall also apply to any required changes to an existing DIP.
- 2.2.1.3 If NGC, or any TO which is a party to a DIP, becomes aware that a change is needed to a DIP it shall:
- in the case of NGC, initiate a discussion between NGC and the relevant TO to seek to agree the relevant change; or
 - ~~if~~ a TO becomes so aware, it shall contact NGC who shall then initiate such discussions.
- 2.2.1.4 Following the need for a change as identified in 2.2.1.3, NGC shall, in conjunction with the TO and other affected Users, review, update and re-issue DIPs as necessary.

2.2.2 Minimum DIP requirements

- 2.2.2.1 The DIP shall, as a minimum:
- include a record of which Users and User Sites are covered by the DIP;
 - include a record which of the three methods set out in the Grid Code OC9.5.2 (or combination of the three) shall apply, with any conditions as to applicability;

- set out what is required from NGC, the TO and each User in terms of each De-Synchronised Island, whether planned or unplanned; and
- set out what action should be taken if a DIP does not cover a particular set of circumstances.

2.2.2.2 The DIP shall establish responsibilities for re-synchronisation, including liaison with Users and establishing the required conditions.

2.2.3 DIP development

2.2.3.1 When developing the DIP, NGC shall be responsible for procuring from relevant Users the information necessary for the operation of the De-Synchronised Island. For example, this may include (but not limited to):

- a schedule of Transmission System connected Generating Units, with appropriate MW and Mvar range within the ~~Power~~De-synchronised Island and indicate whether these can be run as either block loads or on free governor action;
- ~~Load~~load profile and load duration ~~curves~~curves;
- confirmation of the Reactive Power and Frequency response capability of Generating Units within the proposed De-Synchronised ~~Island~~Island; and
- ~~The~~the co-ordination of the necessary contracts ~~with relevant~~ to provide island services within the proposed De-Synchronised Island.

2.2.3.2 Where it is the intention to transfer operation of the ~~De-Synchronised~~De-synchronised Island to the TO and issue a DIOC, the DIP should contain additional information, pertinent to safe and secure operation of the De-Synchronised Island, as agreed with the TO. For example, this may include (but not limited to):

- available Embedded generation;
- confirmation of sufficient generation to meet the ~~De-Synchronised~~De-synchronised Island Demand plus response and ~~Reserve requirements~~reserve requirements;
- confirmation of sufficient Mvar capability to meet the ~~De-Synchronised~~De-synchronised Island Demand plus ~~Reserve requirements~~reserve requirements;
- restoration and contingency arrangements;
- confirmation that relevant contracts will be in place;
- power System configuration including available levels of LF relay and DAR status; and
- the update frequency of the above information.

2.2.3.3 The DIP may also include any other relevant factors that NGC, the TO or Users believe are relevant and could have an impact on ~~De-Synchronised~~De-synchronised Island establishment or operation.

2.2.3.4 When requested by NGC, the TO shall provide all reasonable assistance in the development and production of a DIP.

2.2.3.5 When NGC has prepared a DIP, NGC shall send it to the TO for agreement. Once agreed, the DIP shall be signed by NGC and passed on to the TO for signature to provide confirmation of the agreement. NGC will also seek written confirmation of agreement from all relevant Users.

2.2.3.6 Once signed, the DIP shall become a Grid Code OC9 ~~De-Synchronised~~De-synchronised Island Procedure under this STCP and shall apply between NGC and the TO as if it were part of this STCP.

- 2.2.3.7 A copy of the DIP shall be issued by NGC to the TO accompanied by the issue number and the date of implementation.
- 2.2.3.8 NGC shall ensure, in so far as reasonably practicable, that each User shall comply with Grid Code OC9.5 (as amended from time to time), and any DIP signed as agreed by that User pursuant to Grid Code OC9.5.
- 2.2.3.9 If a DIP can not be agreed between NGC and the TO, this section 2.2 shall not apply. NGC may plan on the basis that if a DIP can be agreed with appropriate Users, it will be implemented in accordance with normal Grid Code provisions, with NGC undertaking the operation of the De-synchronised Island.

2.3 Transfer of a ~~De~~-synchronised Island

- 2.3.1 This section applies to De-Synchronised Islands where it is the intention to transfer operation of the ~~De-Synchronised~~De-synchronised Island to the TO.
- 2.3.2 If the TO and NGC are in agreement, NGC may pass operation of a ~~De-Synchronised~~De-synchronised Island to the TO, providing that a DIP is in place that covers the particular System conditions that are encountered or expected to be encountered.
- 2.3.3 NGC shall sanction ~~De-Synchronised~~De-synchronised Island establishment and operation, on the basis that all conditions relevant to the DIP and the effective operation of the ~~Power~~De-synchronised Island are satisfied. Any Outage that requires a DIP can only be taken when the conditions relevant to that DIP are in place.
- 2.3.4 The TO shall implement a DIP in accordance with its provisions or as otherwise agreed with NGC. The TO may issue instructions to Generating Units as provided for in the DIP.
- 2.3.5 Prior to formal transfer, NGC shall remain responsible for all aspects of operation within the proposed De-Synchronised Island.
- 2.3.6 Formal transfer shall take place by the issue of a DIOC by NGC and its acceptance by the TO. Formal transfer shall follow the guidelines in Appendix ~~B-A~~.
- 2.3.7 The necessary actions to create the ~~De-Synchronised~~De-synchronised Island shall be agreed and implemented in accordance with STCP1-1 Operational Switching and the agreed DIP.

2.4 TO Operation of a Planned Desynchronised Island

- 2.4.1 Once the DIOC has been accepted by the TO, the TO shall be responsible for the operation of that part of the System covered by the DIOC until the DIOC is cancelled. The ~~De-Synchronised~~De-synchronised Island should be operated in accordance with the requirements of the DIP, Good Industry Practice and the following voltage and Frequency criteria:
- ~~The~~the Frequency on the ~~De-Synchronised~~De-synchronised Island shall be nominally 50Hz and shall be controlled within the limits 49.5 – ~~50.5Hz-50.5Hz; and~~
 - ~~Voltage~~voltage levels on the GB Transmission System shall normally remain ~~with~~in +/- 5% of nominal. The minimum voltage is -10% and the maximum is + 10% of nominal. Voltages of +10% and -5% should not prevail for more than 15 minutes.
- 2.4.2 NGC shall provide to the TO all necessary information as detailed in sections 2.2.3.1 - 2.2.3.3 (or as otherwise agreed), to the TO to enable it to fulfil its duties under the DIP. NGC shall provide regular updates ~~to this~~of the

information as detailed in sections 2.2.3.1 - 2.2.3.3 to the TO at the following intervals:

- as agreed in the DIP;
- at the request of the TO; or
- if the Plant, Apparatus, Demand or System configuration changes significantly from that detailed in the DIP.

2.4.3 At any time during which a DIOC is in force for a particular ~~De-Synchronised~~De-synchronised Island NGC may, where it has good reason, cancel the DIOC and take back operation of the De-Synchronised Island. NGC shall notify Users accordingly.

2.4.4 At any time during which a DIOC is in force for a particular ~~De-Synchronised~~De-synchronised Island the TO may, where it has good reason, choose to cancel the DIOC and pass back operation of the ~~De-Synchronised~~De-synchronised Island to NGC. NGC shall notify Users accordingly.

2.4.5 NGC shall retain an overview of the operation of the ~~De-Synchronised~~De-synchronised Island that has been transferred to the TO by way of the DIOC. Whilst the DIOC is in place NGC shall not liaise with Users without agreement of the TO.

2.5 Operation of an Un-Planned De-synchronised Island

2.5.1 An Event can result in an unplanned De-Synchronised Island. In such circumstances section 2.5.2 - 2.5.5 shall apply whether or not there is a DIP in place.

2.5.2 It is accepted that in the initial phase, following an unplanned ~~De-Synchronised~~De-synchronised Island Event, normal operational standards may not be achievable and the Transmission System may be operated outside normal Voltage~~voltage~~ and Frequency criteria, provided that damage to Plant and/or Apparatus, or a safety hazard would not result.

2.5.3 If the resultant ~~De-Synchronised~~De-synchronised Island is not sustainable and is operating outside of normal parameters, then NGC shall liaise with the TO and Users to agree how the ~~De-Synchronised~~De-synchronised Island may be safely shutdown.

2.5.4 If the resultant ~~De-Synchronised~~De-synchronised Island is not sustainable and its continued operation would risk safety or cause damage to Plant and/or Apparatus the TO may take the decision to shutdown the ~~De-Synchronised~~De-synchronised Island using the Emergency~~emergency~~ Switching provisions of STCP1-1 Operational switching~~Switching~~ and Grid Code OC7.6.6. This would only apply where the normal liaison timescales would not permit the option in section 2.5.3 to be followed.

2.5.5 If the ongoing running of the Power~~De-synchronised~~ Island in its current form is not sustainable, but recoverable, then NGC may liaise with the TO and Users to agree a course of action to change the characteristics of the De-Synchronised Island, for example, by load reduction.

2.5.6 If the ~~De-Synchronised~~De-synchronised Island is sustainable, then NGC shall immediately liaise with the TO and all affected Users, informing Users of the situation and advising them of a De-synchronised Island under OC9.5 of the Grid Code.

2.5.7 In some circumstances immediate re-synchronisation may be possible, in which case, this will be carried out within the provisions of STCP1-1. If a period

of ~~De-Synchronised~~De-synchronised Island running is required in excess of that required for immediate re-synchronisation, NGC may make use of, where available, an existing DIP. Where there is no approved DIP, the TO shall assist NGC by provision (where appropriate) of relevant operational information.

- 2.5.8 If a ~~De-Synchronised~~De-synchronised Island is established and maintained where there is no DIP in place, the ~~De-Synchronised~~De-synchronised Island shall only be maintained where all affected Users who can be contacted have agreed to the continued operation.
- 2.5.9 NGC may with the agreement of the TO, pass operational responsibility of the ~~De-Synchronised~~De-synchronised Island to the TO, in line with any DIP. Transfer of operation to the TO shall be in accordance with section 2.53 and its continuing operation shall be in accordance with section 2.4.
- 2.5.10 In the case of Events causing an emergency situation it is accepted that it may be necessary to complete the Plant and/or Apparatus release before a DIOC is issued.

2.6 Change in conditions

- 2.6.1 A DIOC is only valid for the agreed configuration of the TO's Transmission System within the ~~De-Synchronised~~De-synchronised Island at the time of release. Further faults or Outages within the ~~De-Synchronised~~De-synchronised Island that have a lasting influence on the viability and or effectiveness of the ~~De-Synchronised~~De-synchronised Island must be brought to the attention of NGC who shall agree with the respective TO the most appropriate course of action. This may include the cancellation of the DIOC and the transfer of the ~~De-Synchronised~~De-synchronised Island back to NGC.

2.7 Re-synchronisation of De-synchronised Islands

- 2.7.1 Once the TO has completed the Outage (whether this be planned or unplanned), the Plant and/or Apparatus shall be made available to NGC in accordance with STCP 1.1 Operational Switching.
- 2.7.2 Re-synchronisation of the ~~De-Synchronised~~De-synchronised Island shall also be in accordance with STCP1-1 Operational Switching.
- 2.7.3 Following re-synchronisation of the De-Synchronised Island, the TO shall inform NGC of all relevant conditions within the transferred System and the DIOC shall be cancelled. Operation of the ~~De-Synchronised~~De-synchronised Island returns to NGC. NGC shall inform appropriate Users that normal operation has resumed.

2.8.12.8 ~~De-Synchronised~~De-synchronised Island Test Bookings

- 2.8.1 If a planned De-synchronised Island has not taken place for a period of greater than 12 months then NGC may choose to carry out a ~~De-Synchronised Island test. All De-Synchronised Island tests~~De-synchronised Island Test. All De-synchronised Island Tests shall be carried out in accordance with the provision of STCP 8.3 Operational/System Testing.
- 2.8.2 ~~De-Synchronised Island tests~~De-synchronised Island Tests should be agreed in accordance with STCP 11.1 Outage Planning and included in the Outage database for information.

2.9 Training

- 2.9.1 The TO shall ensure that its control room staff continue to remain trained and suitably skilled to operate a ~~De-Synchronised~~De-synchronised Island where ~~Control~~control is transferred to it under a DIP. NGC shall make available, where reasonably requested, suitable training resources and facilities to assist in this process.

Appendix A – De-synchronised Island Operating Certificate (DIOC) Completion

A De-synchronised Island Operating Certificate (~~TSC~~[\(DIOC\)](#)) will be used to formally sanction the transfer of operation of a De-synchronised Island from NGC to TO and vice versa. Part 1 of the certificate will be completed by NGC and faxed to the TO.

DIOC Pro-forma Part 1

Each DIOC will have a unique code, generated by NGC. If required, the TO may use their own additional code.

De-synchronised Island Definition

Textual description of extent of De-synchronised Island.

Grid / Supply Points

List of 4 figure codes of all Grid / Bulk supply points within the De-synchronised Island

Power Stations / Generating Units

List of all transmission / embedded BMU generation.

Boundary Circuits

List of Outaged ccts / apparatus forming the boundary to main System.

Applicable ~~De-Synchronised~~[De-synchronised](#) Island Procedure (DIP)

The title, number, version and date of the applicable DIP shall be entered in this section.

DIOC Pro-forma Part 2

De-synchronised Island Operational Release.

Once the TO has received the ~~from, form,~~ it will be checked for accuracy. Formal transfer will take place when the TO and NGC Control Engineer agree a time / date and each party signs its copy of the form. This shall be logged in the appropriate ~~Control Room~~[control room](#) logs.

DIOC Pro-forma Part 3

De-synchronised Island Operational Cancellation

At the point at which operation of the ~~De-Synchronised~~[De-synchronised](#) Island is to be transferred from TO to ~~SO, NGC,~~ the DIOC shall be cancelled. Part 3 of the DIOC form shall be completed by agreement of a time / date and each party signs its copy. This shall be logged in the appropriate ~~Control Room~~[control room](#) logs.

DE-SYNCHRONISED ISLAND OPERATION CERTIFICATE	DIOC No XXXX
Part 1 DE-SYNCHRONISED ISLAND DEFINITION GRID/ SUPPLY POINT(S) POWER STATION(S) / GENERATING UNIT(S) BOUNDARY CIRCUITS APPLICABLE DE-SYNCHRONISED ISLAND PROCEDURE (DIP)	
Part 2: DE-SYNCHRONISED ISLAND OPERATIONAL RELEASE NGC CONTROL PERSONDATE.....TIME..... TO CONTROL ENGINEER.....DATE.....TIME.....	
Part 3: DE-SYNCHRONISED ISLAND OPERATIONAL CANCELLATION NGC CONTROL PERSONDATE.....TIME..... TO CONTROL ENGINEER.....DATE.....TIME.....	

Appendix B

B1: Definitions

STC definitions used:

Total System

Outage

User

[Transmission System](#)

[Transmission](#)

[Plant](#)

[Apparatus](#)

[User Site](#)

[Good Industry Practice](#)

Grid Code definitions used:

[BM Unit](#)

[OC9 De-Synchronised Island Procedure](#)

De-Synchronised Island

Event

Out of Synchronism

Total Shutdown

Partial Shutdown

Generating Unit

Frequency

System

Black Start

Embedded

Demand

Reactive Power

Balancing Mechanism