



National Grid

GRID CODE CONSULTATION DOCUMENT

Re-Declaration of Availability of Frequency Sensitive Mode

The purpose of this document is to consult on the above Grid Code Modification Proposal with authorised electricity operators liable to be materially affected by the proposed changes

Consultation Ref	C/05
Issue	1
Date of Issue	1 July 2005
Responses required by	29 July 2005
Prepared by	National Grid

DOCUMENT LOCATION

National Grid website:

http://www.nationalgridinfo.co.uk/grid_code/mn_consultation_papers.html

DISTRIBUTION

Name	Organisation
AEO's	Various
GCRP Members/Alternates	Various
Interested Parties	Various
National Grid Industry Information Website	

A. Introduction

1. National Grid Company plc ("National Grid"), in accordance with its obligations under paragraph 2 of Condition C14 of the Transmission Licence, believes that the time has come to review, in consultation with authorised electricity operators liable to be materially affected thereby, the Grid Code and its implementation in certain respects.
2. Following the Authorities decision on CUSC Amendment Proposal CAP047 (Introduction of a competitive process for the provision of Mandatory Frequency Response) to be implemented from 1st October 2005, NGC has reviewed the impacts. NGC believes that it would be appropriate for the Grid Code to formally adopt a process for re-declaring operational frequency capability. This process has already been adopted informally through the exchange of faxes between NGC and Generators to cover shortfall in real time. A similar process is already covered in the Balancing Code for Reactive capability. It is proposed that this change to the Grid Code would be made in conjunction with revisions to Generators Mandatory Services Agreements ("MSAs") as part of the implementation of CAP047.
3. The proposed changes to the Grid Code were presented by NGC and discussed at the Grid Code Review Panel meeting held on 19th May 2005. At this stage, proposed revised text for Grid Code was presented, and following some further discussion it was agreed that a Consultation Paper would be issued.
4. Following receipt of comments from those authorised electricity operators which it has consulted by this Paper, NGC intends, in accordance with paragraph 2 of Condition 14 of the Transmission Licence, to send to the Authority :-
 - (a) a report on the outcome of its review, including this consultation process;
 - (b) the proposed revisions to the Grid Code which NGC (having regard to the outcome of such review) reasonably thinks fit for the achievement of the objectives of the Grid Code referred to in sub-paragraph (b) of paragraph 1 of Condition 14 of the Transmission Licence; and
 - (c) any written representations or objections from authorised electricity operators (including any proposals by such operators for revisions to the Grid Code not accepted by NGC in the course of the review) arising during the consultation process and subsequently maintained.
5. The report will also be made publicly available on NGC's website.
6. The revisions to the Grid Code proposed by NGC and sent to the Authority then require approval by that body and will, if approved, come into force on such date (or dates) of which you will be notified by NGC, in accordance with the Authority's approval.
7. All responses received related to this consultation will be included on NGC's Industry Information microsite except where it is indicated that the response is to be treated as confidential.

B. DESCRIPTION OF THE PROPOSED AMENDMENTS AND THEIR EFFECTS

8. Background

8.1 There has been an informal mechanism in place for many years, managed by NGC, which facilitates the withdrawal of frequency response services from generators in real time.

8.2 Under existing and CAP047 arrangements a situation could be envisaged whereby a unit develops a technical issue that results in a requirement for it to withdraw from the provision of Frequency Response. Formally, the only mechanism that exists to withdraw (and still enabling the set to run) is through the submission of prices, either in the Balancing Mechanism (Bid and Offer prices) or through CAP047 arrangements. However, under CAP047 prices can only be modified on a monthly basis even if the unit is only unavailable for a matter of hours or a few days.

8.3 NGC do not believe it appropriate that the pricing mechanism under the CUSC (or the BM in existing arrangements) should be used to indicate or manage short term restrictions to frequency response. Such a practice could unduly restrict the volume of response available to the market at certain times and affect the volume of bids and offers realistically available in the balancing mechanism.

8.4 In addition, the existing informal exclusion arrangements have resulted in information being submitted on both a BMU or Generation Unit basis as required. This reflects the existing arrangements in the MSAs. However the MSAs through the Plant Configuration Factor only provide for the situations where a unit is unavailable to deliver its MW capability and assumes that if synchronised all units are capable of delivering frequency response at all times. NGC is proposing to revise the MSAs on implementation of CAP047 to acknowledge this exclusion process and enable the Plant Configuration Factor to be applied to Frequency Response provision. Therefore NGC is proposing that the exclusion process be adopted as a formal process under the Grid Code.

9. Proposed Changes

9.1 It is proposed that the informal mechanism currently managed by NGC is formalised through a Grid Code modification. This process would require the generator to send a fax transmission to NGC detailing that the unit is unavailable for operation in Frequency Sensitive Mode giving reasons for the unavailability and a predicted return to service time which would be confirmed by a further redeclaration.

9.2 It is proposed to add a new section BC2.6.1(h). This is based on the existing informal process and the existing text associated with the reactive capability redeclaration process in the Balancing Codes.

9.3 It is further proposed to add a new Appendix 4 to BC2 including the proforma included in Appendix 4 Annexure 1

- 9.4 The proposed text of Appendix 4 also contains a clarification that the exclusion process is to reflect operational problems of a limited timescale. In the event that a unit appeared to become unavailable for an extended period through this process NGC may seek to clarify the capability required by the Connection Conditions through the process described in OC5. Should a generator wish to reflect commercial issues in its willingness to carry frequency response this should be reflected through the CUSC commercial processes and not this BC2 process.
- 9.5 The proposed Grid Code changes are attached as Appendix 1.

C. COMMENTS

10. NGC would be grateful to receive your comments on, or any suggestions you may have in relation to, these proposed amendments to the Grid Code. Comments would be welcomed and should be sent to NGC by **29 July 2005**. The comments will be reviewed and responded to and NGC will then prepare its report to the Authority.
11. Unless otherwise marked as confidential any responses containing objections to the proposals which are maintained will be published on our website in the copy of the Report to the Authority referred to in paragraphs 3 and 4.
12. Your formal responses may be:-

Posted to: **David Payne**
Commercial, Commercial Frameworks
National Grid Company plc
NGT House
Warwick Technology Park
Gallows Hill
Warwick
CV34 6DA

Emailed to: david.payne@ngtuk.com

APPENDIX 1

Proposed changes to Grid Code BC2 Text

BC2.6.1

h) Submissions of revised availability of **Frequency Sensitive Mode** may be made by facsimile transmission, using the format given in Appendix 4 to **BC2**. This process should only be used for technical restrictions to the availability of **Frequency Sensitive Mode**.

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Appendix 4 – Submission of availability of Frequency Sensitive Mode

BC2.A.4.1. For the purpose of submitting availability of **Frequency Sensitive Mode**, this process only relates to the provision of response under the **Frequency Sensitive Mode** and does not cover the provision of response under the **Limited Frequency Sensitive Mode**.

BC2.A.4.2. The following provisions apply to the faxed submission of the **Frequency Sensitive Mode** availability:

(a) The fax must be transmitted to NGC (to the relevant location in accordance with GC6) and must contain all the sections relevant to Appendix 4 - Annexure1 but with only the data changes set out. The “notification time” must be completed to refer to the time of transmission, where the time is expressed in London time.

(b) Upon receipt of the fax, NGC will acknowledge receipt by sending a fax back to the User. The acknowledgement will either state that the fax has been received and is legible or will state that it (or part of it) is not legible and will request re-transmission of the whole (or part) of the fax.

(c) Upon receipt of the acknowledging fax the User will, if requested re-transmit the whole or part of the relevant part of the fax.

(d) The provisions of paragraph (b) and (c) then apply to the re-transmitted fax.

BC2.A.4.3 The **User** shall ensure the availability of operating in the **Frequency Sensitive Mode** is restored as soon as reasonably practicable. In the event of a sustained unavailability of **Frequency Sensitive Mode** NGC may seek to confirm compliance with the relevant requirements in the CCs through the process in OC5.

APPENDIX 4 – Annexure 1

To: NGC Transmission Control Centre
From: [Company Name and Location]

Submission of availability of Frequency Sensitive Mode

Notification Time

HRS:MIN DD/MM/YY
__:__ __/__/__

GENERATING UNIT *	
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Start Time / Date (if not effective immediately)

The above unit is unavailable / available to operate in Frequency Sensitive Mode.

Limited Frequency Sensitive Mode must be maintained.

Please provide brief description of reason for unavailability of **Frequency Sensitive Mode** (e.g. Testing, technical problem)

<p>If declaring Unavailability Predicted End Time / Date (to be confirmed by re-declaration):</p>
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Re-declaration made by (signature) _____

- **For a CCGT the re-declaration is for an individual CCGT unit and not the entire module**

Receipt Acknowledgement from NGC

Time: Date: Signature:
