



**GRID CODE
CONSULTATION DOCUMENT**

**Grid Code Requirements for the GB Transmission
System Study Network Data File**

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 and forms the basis of the subsequent Report to the Authority

Consultation Ref	G/08
Issue	1.0
Date of Issue	18 December 2008
Responses required by	30 January 2009
Prepared by	National Grid

DOCUMENT LOCATION

National Grid website:

<http://www.nationalgrid.com/uk/Electricity/Codes/gridcode/consultationpapers/>

DISTRIBUTION

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

A. INTRODUCTION

1. Paragraph 2 of Condition C14 of the Transmission Licence granted to the National Grid Electricity Transmission plc ("National Grid") provides that National Grid shall, in consultation with Authorised Electricity Operators liable to be materially affected thereby, periodically review the Grid Code and its implementation. That paragraph also requires National Grid, following such review, to send to the Authority:-
 - (a) a report on the outcome of such review;
 - (b) any proposed revisions to the Grid Code as National Grid (having regard to the outcome of such review) reasonably thinks fit for the achievement of the objectives set out in sub-paragraph (b) of Condition C14 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 National Grid in the course of the review) arising during the consultation process and subsequently maintained.
2. This review examines the existing Grid Code provisions for the GB Transmission System Study Network Data File and proposes amendments to the requirements such that additional User clarity and transparency are incorporated within the Code.
3. The proposed changes to the Grid Code were discussed with the Grid Code Review Panel (GCRP) during 2008 culminating in a paper to the 20th November Panel. Panel Members agreed that National Grid should issue a Consultation Paper regarding the proposed changes.
4. Comments upon the proposed changes within this consultation should be sent to National Grid by **30 January 2009** as detailed in section C. The comments will be reviewed and responded to.
5. Following this consultation, National Grid will prepare a Report to the Authority detailing National Grid's recommended changes to the Grid Code and all comments/responses received from Authorised Electricity Operators through this consultation. Once sent to the Authority this report will be made available on National Grid's website.
6. Where Authorised Electricity Operators' responses have been marked as confidential they will not be published within the version of the Report to the Authority placed on the National Grid website.
7. The revisions to the Grid Code proposed by National Grid and sent to the Authority, require approval by that body and will, if approved, come into force on such date (or dates) of which you will be notified by National Grid, in accordance with the Authority's approval.

B. DESCRIPTION OF THE PROPOSED AMENDMENTS AND THEIR EFFECTS

8. Background

- 8.1 The Grid Code clauses (OC2.4.1.3.3 (i), OC2.4.1.3.4 (d), OC2.4.1.3.5 (a)) relate to the provision of the GB Transmission System Study Network Data File (GBTSSNDF) by National Grid to Network Operators. The GBTSSNDF is inclusive of National Grid's view of the expected output from Generating Units, based on submitted OC2 data.
- 8.2 The data held in the GBTSSNDF allows a Network Operator to study the operation of their sub-transmission network with that of the transmission system. This is particularly important for complex interconnected sub-transmission networks where a co-ordinated approach is particularly valuable.
- 8.3 A number of Network Operators have requested that National Grid provides them with a regular update of the GBTSSNDF on a weekly basis for the week-ahead timescale using a new form of network modelling data. It is anticipated that the numbers of this type of request will increase in the future given the projected increase in the number of complex interconnected sub-transmission networks.
- 8.4 The Grid Code currently allows Network Operators to choose whether they want National Grid to provide an equivalent network model (option (x) and / or (y)) or for National Grid to provide the GBTSSNDF (option (z)).
- 8.5 The provision of GBTSSNDF is subject to both National Grid and the applicable Network Operator agreeing that the information should be exchanged.
- 8.6 Grid Code clause OC2.4.1.3.4 (d) obliges National Grid to provide updates to the GBTSSNDF during year 0. This provision appears in the section heading 'Operational Planning Phase' with no duplicate provision under the section heading 'Programming Phase' which Users may have expected¹.
- 8.7 In the absence of any explicit statement to limit the exchange of the GBTSSNDF (option z) to the Operational Planning Phase it is construed that the obligation extends into the Programming Phase. From a User perspective this lack of clarity may potentially lead to confusion regarding the scope of the provisions.

9. Proposed Grid Code Changes

- 9.1 It is proposed to amend the Grid Code such that the current wording and obligations regarding the exchange of the GBTSSNDF explicitly applies to the Programming Phase and adequately describes what the GBTSSNDF represents. It will provide greater transparency and clarity to Users regarding the scope of the existing clauses and to avoid unnecessary confusion.

¹ The Glossary and Definition inform Users that headings are only inserted for convenience and should be ignored when construing the Grid Code.

9.2 The existing definition of GBTSSNDF will also be amended such that the meaning provides an accurate and succinct description of what the data file consists of; improving User understanding of the data file.

9.3 The proposed legal changes to the Operating Code 2 (Operational Planning and Data Provision) and Glossary and Definitions are shown in Appendix A.

10. Impact on GB Transmission System

10.1 The proposed changes would not have any adverse impact on planning, maintenance and operation of the GB Transmission System.

11. Impact on Grid Code Users

11.1 The proposals will provide greater User understanding regarding the exchange of the GBTSSNDF to permitted User groups.

12. Assessment Against Grid Code Objectives

12.1 The proposed changes outlined in G/08 Consultation document would better facilitate Grid Code Objectives:

iii) to promote the security and efficiency of the electricity generation, transmission and distribution system in Great Britain

by ensuring that the Grid Code provides additional clarity and transparency to Users regarding the GBTSSNDF.

13. Impact on Industry Documents

13.1 *Impact on Core Industry Documents*

13.1.1 Grid Code Consultation G/08 (GB Transmission System Study Network Data File) has no impact upon Core Industry Documents.

13.2 *Impact on other Industry Documents*

13.2.1 Grid Code Consultation G/08 (GB Transmission System Study Network Data File) has no impact upon other Industry Documents.

14. Environmental Impact Assessment

14.1 Grid Code Consultation G/08 (GB Transmission System Study Network Data File) will have no additional environmental impact as it is clarifying an existing administrative provision.

C. RESPONSES

15. This section will contain a summary of responses received during the Consultation and will be completed as part of the Report to the Authority.

16. Views are invited upon the proposals outlined in this report. Especially views on the following areas would be welcomed:

- Impact of the proposals on Grid Code Users.

17. Your formal responses may be:-

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National Grid Electricity Transmission plc
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Appendix A: Proposed Grid Code Changes

Proposed Changes to Glossary and Definitions

GB Transmission System Study Network Data File

A computer file produced by NGET which in NGET's view provides an appropriate representation of containing details of transmission plant and **Large Power Stations** and the configuration of the connection between them, together with data on **Demand** and on the **GB Transmission System** for a specific point in time. The computer file will include information and data on Demand on the GB Transmission System and on Large Power Stations including Genset power output consistent with Output Useable and NGET's view of prevailing system conditions.

~~These details, when read together as represented in the file, form NGET's view of an appropriate representation of the GB Transmission System for technical analysis purposes only. The file will only deal with the GB Transmission System~~

Proposed Changes to OC2 (Operational Planning and Data Provision)

OC2.4.1.3.3 (i) (z) (3) the data contained in the **GB Transmission System Study Data Files** represents NGET's view of indicative operating conditions although the actual conditions may be different ~~only and should be used for technical analysis only on the basis that it only represents a view and that operating conditions may be different in the event;~~

OC2.4.1.3.3 (i) (z) (5) the data from the **GB Transmission System Study Network Data Files** received by each **Network Operator** must only be used by that **User** in operating that **Network Operator's User System** and must not be used for any other purpose or passed on to, or used by, any other business of that **User** or to, or by, any person within any other such business or elsewhere.

OC2.4.1.3.5 Programming Phase

(a) By 1600 hours each Thursday

(i) **NGET** shall continue to update a preliminary **GB Transmission System** outage programme for the eighth week ahead, a provisional **GB Transmission System** outage programme for the next week ahead and a final day ahead **GB Transmission System** outage programme for the following day.

(ii) **NGET** will notify each **Generator** and **Network Operator** and each **Non-Embedded Customer**, in writing of those aspects of the preliminary **GB Transmission System** outage programme which may operationally affect each **Generator** (other than those aspects which may operationally affect **Embedded Small Power Stations** or **Embedded Medium Power Stations**) or **Network Operator** and each **Non-Embedded Customer** including in particular proposed start dates and end dates of relevant **GB Transmission System**

~~outages and changes to information supplied to NGET pursuant to OC2.4.1.3.3(i)(x) and (y) (if OC2.4.1.3.3(i)(z) does not apply).~~

NGET will also notify changes to information supplied by NGET pursuant to OC2.4.1.3.3(i)(x) and (y) except where in relation to a User information was supplied pursuant to OC2.4.1.3.3(i)(z). In that case:-

1. NGET will, by way of update of the information supplied by it pursuant to OC2.4.1.3.3(i)(z), make available the GB Transmission System Study Network Data Files for the next week ahead and
2. NGET will notify each relevant Network Operator, as soon as reasonably practicable after it has updated the GB Transmission System Study Network Data Files covering the next week ahead that it has done so, and
3. The provisions of OC2.4.1.3.3(i)(z)(2), (3) and (5) shall apply to the provision of data under this part of OC2.4.1.3.5(a)(ii) as if set out in full.

NGET may make available the GB Transmission System Study Network Data Files for the next week ahead where NGET and a particular User agree, and in such case the provisions of OC2.4.1.1.3.3(i)(x) and (y) and the provisions of OC2.4.1.3.4(d) and OC2.4.1.3.5(a) which relate to OC2.4.1.1.3.3(i)(x) and (y) shall not apply. In such case the provisions of this OC2.4.1.3.5(a)(ii)2 and 3 shall apply to the provision of the data under this part of OC2.4.1.3.5(a)(ii) as if set out in full.

NGET will also indicate where a need may exist to arm an **Operational Intertripping** scheme, emergency switching, emergency **Demand** management or other measures including the issuing of other operational instructions or notifications or **Emergency Instructions** to **Users** in accordance with **BC2** to allow the security of the **GB Transmission System** to be maintained within the **Licence Standards**.