

Our Ref:

Your Ref:

Date: 30th March 2005

Commercial
Industry Codes

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To: All Recipients of the Serviced
Grid Code

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Dear Sir/Madam

THE SERVICED GRID CODE – ISSUE 3 REVISION 8

Revision 8 of Issue 3 of the Grid Code has been approved by the Authority for implementation on **30 March 2005**.

I have enclosed the replacement pages that incorporate the agreed changes necessary to update the serviced copies of the Grid Code Issue 3 held by you to Revision 8 standard.

The enclosed note indicates the changes that are necessary to incorporate the pages and also attached is a brief summary of the changes made to the text.

Please note that your Grid Code Servicing arrangements will cease on 31st December 2005 and will not be renewed. If you require e-mail notification of Grid Code updates becoming available on the Industry Information website please forward your e-mail address to:

david.payne@ngtuk.com

The notification will provide a direct link to the update file in .pdf format which you will be able to download to the folder of your choice.

Yours faithfully



D Payne
Industry Codes



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No 2366977

THE GRID CODE – ISSUE 3 REVISION 8

INCLUSION OF REVISED PAGES

Title Page

Planning Code **PC** - **Pages 1/2**

General Conditions **GC** - **Pages 1/2, 5 to 8**

Revisions **Page 8**

NOTE: See Page 1 of the Revisions section of the Grid Code for details of how the revisions are indicated on the pages.

NATIONAL GRID COMPANY plc
THE GRID CODE – ISSUE 3 REVISION 8

SUMMARY OF CHANGES

The changes arise from the implementation of modifications proposed in Ofgem/DTI Consultation **67/05** (Ofgem/DTI BETTA consultation on Information Exchange under the STC – The development of Schedule 3 and associated STC and Grid Code changes).

1. Planning Code

Amendment to PC.1.1

2. General Conditions

Addition of GC.12.2. and amendment to GC.4.2 (b) and GC.4.3 (c)(xi)

THE GRID CODE

Issue 3

**Revision 8
30 March 2005**

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PLANNING CODE

PC.1 INTRODUCTION

PC.1.1 The **Planning Code** ("PC") specifies the technical and design criteria and procedures to be applied by **NGC** in the planning and development of the **GB Transmission System** and to be taken into account by **Users** in the planning and development of their own **Systems**. It details information to be supplied by **Users** to **NGC**, and certain information to be supplied by **NGC** to **Users**. In Scotland, **NGC** has obligations under the **STC** to inform **Relevant Transmission Licensees** of data required for the planning of the **GB Transmission System**. **NGC** may pass on **User** data to a **Relevant Transmission Licensee** where **NGC** is required to do so under a provision of the **STC** current as at 1 April 2005. Those categories of **User** information that **NGC** is permitted to disclose to a **Relevant Transmission Licensee**, where required to do so by a provision of the **STC**, are set out in Schedule Three of the **STC** ('Information and data exchange specification').

PC.1.2 The **Users** referred to above are defined, for the purpose of the **PC**, in PC.3.1.

PC.1.3 Development of the **GB Transmission System**, involving its reinforcement or extension, will arise for a number of reasons including, but not limited to:

- (a) a development on a **User System** already connected to the **GB Transmission System**;
- (b) the introduction of a new **Connection Site** or the **Modification** of an existing **Connection Site** between a **User System** and the **GB Transmission System**;
- (c) the cumulative effect of a number of such developments referred to in (a) and (b) by one or more **Users**.

PC.1.4 Accordingly, the reinforcement or extension of the **GB Transmission System** may involve work:

- (a) at a substation at a **Connection Site** where **User's Plant** and/or **Apparatus** is connected to the **GB Transmission System**;
- (b) on transmission lines or other facilities which join that **Connection Site** to the remainder of the **GB Transmission System**;
- (c) on transmission lines or other facilities at or between points remote from that **Connection Site**.

PC.1.5 The time required for the planning and development of the **GB Transmission System** will depend on the type and extent of the necessary reinforcement and/or extension work, the need or otherwise for statutory planning consent, the associated possibility of the need for a public inquiry and the degree of complexity in undertaking the new work while maintaining satisfactory security and quality of supply on the existing **GB Transmission System**.

PC.2 OBJECTIVE

PC.2.1 The objectives of the **PC** are:

- (a) to promote **NGC/User** interaction in respect of any proposed development on the **User System** which may impact on the performance of the **GB Transmission System** or the direct connection with the **GB Transmission System**;
- (b) to provide for the supply of information to **NGC** from **Users** in order that planning and development of the **GB Transmission System** can be undertaken in accordance with the relevant **Licence Standards**, to facilitate existing and proposed connections, and also to provide for the supply of certain information from **NGC** to **Users** in relation to short circuit current contributions; and
- (c) to specify the **Licence Standards** which will be used in the planning and development of the **GB Transmission System**; and
- (d) to provide for the supply of information required by **NGC** from **Users** in respect of the following to enable **NGC** to carry out its duties under the **Act** and the **Transmission Licence**:
 - (i) **Mothballed Generating Units**; and
 - (ii) capability of gas-fired **Generating Units** to run using alternative fuels.

NGC will use the information provided under PC2.1(d) in providing reports to the **Authority** and the **Secretary of State** and, where directed by the **Authority** or the **Secretary of State** to do so, **NGC** may publish the information. Where it is known by **NGC** that such information is intended for wider publication the information provided under PC2.1(d) shall be aggregated such that individual data items should not be identifiable.

PC.3 SCOPE

PC.3.1 The **PC** applies to **NGC** and to **Users**, which in the **PC** means:

- (a) **Generators**;
- (b) **Network Operators**; and
- (c) **Non-Embedded Customers**.

The above categories of **User** will become bound by the **PC** prior to them generating, operating or consuming, as the case may be, and references to the various categories (or to the general category) of **User** should, therefore, be taken as referring to them in that prospective role as well as to **Users** actually connected.

GENERAL CONDITIONS

GC.1 INTRODUCTION

GC.1.1 The **General Conditions** contain provisions which are of general application to all provisions of the **Grid Code**. Their objective is to ensure, to the extent possible, that the various sections of the **Grid Code** work together and work in practice for the benefit of all **Users**.

GC.2 SCOPE

GC.2.1 The **General Conditions** apply to all **Users** (including, for the avoidance of doubt, **NGC**).

GC.3 UNFORESEEN CIRCUMSTANCES

GC.3.1 If circumstances arise which the provisions of the **Grid Code** have not foreseen, **NGC** shall, to the extent reasonably practicable in the circumstances, consult promptly and in good faith all affected **Users** in an effort to reach agreement as to what should be done. If agreement between **NGC** and those **Users** as to what should be done cannot be reached in the time available, **NGC** shall determine what is to be done. Wherever **NGC** makes a determination, it shall do so having regard, wherever possible, to the views expressed by **Users** and, in any event, to what is reasonable in all the circumstances. Each **User** shall comply with all instructions given to it by **NGC** following such a determination provided that the instructions are consistent with the then current technical parameters of the particular **User's System** registered under the **Grid Code**. **NGC** shall promptly refer all such unforeseen circumstances and any such determination to the Panel for consideration in accordance with GC.4.2(e).

GC.4 THE GRID CODE REVIEW PANEL

GC.4.1 **NGC** shall establish and maintain the **Panel**, which shall be a standing body to carry out the functions referred to in paragraph GC.4.2.

GC.4.2 The **Panel** shall:

- (a) keep the **Grid Code** and its working under review;
- (b) review all suggestions for amendments to the **Grid Code** which the **Authority** or any **User** or any **Relevant Transmission Licensee** (in respect of PC.6.2, PC Appendix A and C, CC.6.1, CC.6.2, CC.6.3, OC8 and GC.11, OC7.6, OC9.4 and OC9.5) may wish to submit to **NGC** for consideration by the **Panel** from time to time;
- (c) publish recommendations as to amendments to the **Grid Code** that **NGC** or the **Panel** feels are necessary or desirable and the reasons for the recommendations;
- (d) issue guidance in relation to the **Grid Code** and its implementation, performance and interpretation when asked to do so by any **User**;

- (e) consider what changes are necessary to the **Grid Code** arising out of any unforeseen circumstances referred to it by **NGC** under GC.3; and
- (f) consider and identify changes to the **Grid Code** to remove any unnecessary differences in the treatment of issues in Scotland from their treatment in England and Wales.

GC.4.3 The **Panel** shall consist of:

- (a) a Chairman and up to 4 members appointed by **NGC**;
- (b) a person appointed by the **Authority**; and
- (c) the following members:
 - (i) 3 persons representing those **Generators** each having **Large Power Stations** with a total **Registered Capacity** in excess of 3 GW;
 - (ii) a person representing those **Generators** each having **Large Power Stations** with a total **Registered Capacity** of 3 GW or less;
 - (iii) 2 persons representing the **Network Operators** in England and Wales;
 - (iv) a person representing the **Network Operators** in Scotland;
 - (v) a person representing the **Suppliers**;
 - (vi) a person representing the **Non Embedded Customers**;
 - (vii) a person representing the **Generators** with **Small Power Stations** and/or **Medium Power Stations** (other than **Generators** who also have **Large Power Stations**);
 - (viii) a person representing the **BSC Panel**;
 - (ix) a person representing the **Externally Interconnected System Operators**;
 - (x) a person representing **Generators** with **Novel Units**; and
 - (xi) a person representing each **Relevant Transmission Licensee** (in respect of PC.6.2, PC Appendix A and C, CC.6.1, CC.6.2, CC.6.3, OC8 and GC.11, OC7.6, OC9.4 and OC9.5).

each of whom shall be appointed pursuant to the rules issued pursuant to GC.4.4.

GC.4.4 The **Panel** shall establish and comply at all times with its own rules and procedures relating to the conduct of its business, which shall be approved by the **Authority**.

GC.4.5 **NGC** shall consult in writing all **Authorised Electricity Operators** which are liable to be materially affected in relation to all proposed amendments to the **Grid Code**

GC.10 MATTERS TO BE AGREED

Save where expressly stated in the **Grid Code** to the contrary where any matter is left to **NGC** and **Users** to agree and there is a failure so to agree the matter shall not without the consent of both **NGC** and **Users** be referred to arbitration pursuant to the rules of the **Electricity Supply Industry Arbitration Association**.

GC.11 GOVERNANCE OF ELECTRICAL STANDARDS

GC.11.1 In relation to the **Electrical Standards** the following provisions shall apply.

GC.11.2 (a) If a **User**, or in respect of (a) or (b) to the annex, **NGC**, or in respect of (c) or (d) to the annex, the **Relevant Transmission Licensee**, wishes to:-

- (i) raise a change to an **Electrical Standard**;
- (ii) add a new standard to the list of **Electrical Standards**;
- (iii) delete a standard from being an **Electrical Standard**,

it shall activate the **Electrical Standards** procedure.

(b) The **Electrical Standards** procedure is the notification to the secretary to the **Panel** of the wish to so change, add or delete an **Electrical Standard**. That notification must contain details of the proposal, including an explanation of why the proposal is being made.

GC.11.3 Ordinary **Electrical Standards** Procedure

- (a) Unless it is identified as an urgent **Electrical Standards** proposal (in which case GC.11.4 applies) or unless the notifier requests that it be tabled at the next **Panel** meeting, as soon as reasonably practicable following receipt of the notification, the **Panel** secretary shall forward the proposal, with a covering paper, to **Panel** members.
- (b) If no objections are raised within 20 Business Days of the date of the proposal, then it shall be deemed approved pursuant to the **Electrical Standards** procedure, and **NGC** shall make the change to the relevant **Electrical Standard** or the list of **Electrical Standards** contained in the Annex to this GC.11.
- (c) If there is an objection (or if the notifier had requested that it be tabled at the next **Panel** meeting rather than being dealt with in writing), then the proposal will be included in the agenda for the next following **Panel** meeting.
- (d) If there is broad consensus at the **Panel** meeting in favour of the proposal, **NGC** will make the change to the **Electrical Standard** or the list of **Electrical Standards** contained in the Annex to this GC.11.
- (e) If there is no such broad consensus, including where the Panel believes that further consultation is needed, **NGC** will establish a **Panel** working

group if this was thought appropriate and in any event **NGC** shall undertake a consultation of **Authorised Electricity Operators** liable to be materially affected by the proposal.

- (f) Following such consultation, **NGC** will report back to **Panel** members, either in writing or at a **Panel** meeting. If there was broad consensus in the consultation, then **NGC** will make the change to the **Electrical Standard** or the list of **Electrical Standards** contained in the Annex to this GC.11.
- (g) Where following such consultation there is no broad consensus, the matter will be referred to the **Authority** who will decide whether the proposal should be implemented and will notify **NGC** of its decision. If the decision is to so implement the change, **NGC** will make the change to the **Electrical Standard** or the list of **Electrical Standards** contained in the Annex to this GC.11.
- (h) In all cases where a change is made to the list of **Electrical Standards**, **NGC** will publish and circulate a replacement page for the Annex to this GC covering that list and reflecting the change.

GC.11.4 Urgent **Electrical Standards** Procedure

- (a) If the notification is marked as an urgent **Electrical Standards** proposal, the **Panel** secretary will contact **Panel** members in writing to see whether a majority who are contactable agree that it is urgent and in that notification the secretary shall propose a timetable and procedure which shall be followed.
- (b) If such members do so agree, then the secretary will initiate the procedure accordingly, having first obtained the approval of the **Authority**.
- (c) If such members do not so agree, or if the **Authority** declines to approve the proposal being treated as an urgent one, the proposal will follow the ordinary **Electrical Standards** procedure as set out in GC.11.3 above.
- (d) If a proposal is implemented using the urgent **Electrical Standards** procedure, **NGC** will contact all **Panel** members after it is so implemented to check whether they wish to discuss further the implemented proposal to see whether an additional proposal should be considered to alter the implementation, such proposal following the ordinary **Electrical Standards** procedure.

GC.12 CONFIDENTIALITY

GC.12.1 **Users** should note that although the **Grid Code** contains in certain sections specific provisions which relate to confidentiality, the confidentiality provisions set out in the **CUSC** apply generally to information and other data supplied as a requirement of or otherwise under the **Grid Code**.

GC.12.2 **NGC** has obligations under the **STC** to inform **Relevant Transmission Licensees** of certain data. **NGC** may pass on **User** data to a **Relevant Transmission Licensee** where **NGC** is required to do so under a provision of the **STC** current as at 1 April 2005. Those categories of **User** information that **NGC** is permitted to disclose to a **Relevant Transmission Licensee**, where required

to do so by a provision of the **STC**, are set out in Schedule Three of the **STC** ('Information and data exchange specification').

GC.13 RELEVANT TRANSMISSION LICENSEES

GC.13.1 It is recognised that the **Relevant Transmission Licensees** are not parties to the **Grid Code**. Accordingly, notwithstanding that Operating Code No. 8 Appendix 2 ("OC8B"), OC7.6, OC9.4 and OC9.5 refer to obligations which will in practice be performed by the **Relevant Transmission Licensees** in accordance with relevant obligations under the **STC**, for the avoidance of doubt all contractual rights and obligations arising under OC8B, OC7.6, OC9.4 and OC9.5 shall exist between **NGC** and the relevant **User** and in relation to any enforcement of those rights and obligations OC8B, OC7.6, OC9.4 and OC9.5 shall be so read and construed. The **Relevant Transmission Licensees** shall enjoy no enforceable rights under OC8B, OC7.6, OC9.4 and OC9.5 nor shall they be liable (other than pursuant to the **STC**) for failing to discharge any obligations under OC8B, OC7.6, OC9.4 and OC9.5.

GC.13.2 For the avoidance of doubt nothing in this **Grid Code** confers on any **Relevant Transmission Licensee** any rights, powers or benefits for the purpose of the Contracts (Rights of Third Parties) Act 1999.

GC.14 BETTA TRANSITION ISSUES

GC.14.1 The provisions of the Appendix to the **General Conditions** apply in relation to issues arising out of the transition associated with the designation of amendments to the **Grid Code** by the **Secretary of State** in accordance with the provisions of the Energy Act 2004 for the purposes of Condition C14 of **NGC's Transmission Licence**.

GC.15 *Embedded Exemptable Large and Medium Power Stations*

GC.15.1 This GC.15.1 shall have an effect until and including 31st March 2006.

(i) CC.6.3.2, CC.6.3.7, CC.8.1 and BC3.5.1; and

(ii) Planning Code obligations and other Connection Conditions;

shall apply to a **User** who owns or operates

(a) an **Embedded Exemptable Large Power Station**, or

(b) an **Embedded Exemptable Medium Power Station** in Scotland

except where and to the extent that, in respect of that **Embedded Exemptable Large Power Station** or **Embedded Exemptable Medium Power Station**, **NGC** agrees or where the relevant **User** and **NGC** fail to agree, where and to the extent that the **Authority** consents.

Annex to the General Conditions

The **Electrical Standards** are as follows:-

(a)	NGTS 1	Ratings and General Requirements for Plant, Equipment, Apparatus and Services for the National Grid System and Direct Connections to it	Issue 5 Dec-03
	NGTS 2.1	Substations	Issue 4 Dec-03
	NGTS 3.1.1	Substation Interlocking Schemes	Issue 3 Dec-03
	NGTS 2.2	Switchgear for the National Grid System	Issue 4 Dec-03
	NGTS 3.2.1	Circuit-breakers and Switches	Issue 3 Dec-03
	NGTS 3.2.2	Disconnectors and Earthing Switches	Issue 4 Dec-03
	NGTS 3.2.3	Metal-Oxide Surge Arresters for use on 132, 275 & 400 kV Systems	Issue 4 Dec-03
	NGTS 3.2.4	Current Transformers for Protection and General Use on the 132 kV, 275 kV and 400 kV Systems	Issue 5 Dec-03
	NGTS 3.2.5	Voltage Transformers for use on the 132 kV, 275 kV and 400 kV Systems	Issue 4 Dec-03
	NGTS 3.2.6	Current and Voltage Measurement Transformers for Settlement Metering of the 33 * 66 kV, 132 kV, 275 kV and 400 kV Systems	Issue 2 Dec-03
	NGTS 3.2.7	Bushings for the National Grid System	Issue 3 Dec-03
	NGTS 3.2.9	Post Insulators for Substations	Issue 3 Dec-03
	NGTS 3.3.2	Dry-Type Reactors	Issue 3 Dec-03
	NGTS 3.3.3	Co-ordinating Gaps	Issue 1 Sep-92
	NGTS 2.6	Protection	Issue 3 Nov-98
	NGTS 3.6.3	Busbar Protection for 400 kV and 275 kV Double Busbar Switching Stations	Issue 3 Dec-96
	NGTS 3.6.8	Circuit-Breaker Fail Protection	Issue 3 Mar-99
	NGTS 3.11.1	Capacitors and Capacitor Banks	Issue 3 Dec-03

CODE	PAGE	CLAUSE
PC	1	PC.1.1 amended
GC	1	GC.4.2 (b) amended
GC	2	GC.4.3 (c) (xi) amended
GC	6/7	GC.12.2 added

