

THE NATIONAL GRID COMPANY plc

Revisions to the Grid Code

Consultation Paper F/01

ENERGY DATA

24th September 2001

A. Introduction

1. The National Grid Company plc ("National Grid"), in accordance with its obligations under paragraph 2 of Condition 8A 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. This review relates to the Grid Code requirement under the Planning Code for Users to provide information on their Energy use and the form in which that data is supplied. The proposed changes to the Grid Code were discussed at the Grid Code Review Panel meeting held on 13th September 2001. Panel members agreed that National Grid should issue a Consultation Paper.
3. Following receipt of comments from those authorised electricity operators which it has consulted by this Paper, National Grid intends, in accordance with paragraph 2 of Condition 8A 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 National Grid (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 8A 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.
4. The revisions to the Grid Code proposed by National Grid 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 National Grid, in accordance with the Authority's approval.

B. DESCRIPTION OF THE PROPOSED AMENDMENTS AND THEIR EFFECTS**5. Background**

5.1 The Planning Code (PC) currently requires all Users with Demand to provide information of historical and future Energy use (PC.A.4). Originally this data was readily available from Regional Electricity Company's (REC) supply businesses. However with the separation of the REC's into Distribution and Supply Businesses the data will be almost impossible to supply in the form currently required under the Grid Code.

6. The Proposed Changes

6.1 It has been ascertained that each Network Operator is already required to make a return to Ofgem on energy supplied into a series of 'energy baskets', as defined in the Network Operators licences. These 'tariff baskets' are defined as follows:

- LV1 (day time units to domestic/small commercial premises with an Economy 7 or similar tariff supplied at 415V)
- LV2 (night time units to domestic/small commercial premises with an Economy 7 or similar tariff supplied at 415V)
- LV3 (units supplied at 415V other than LV1 and LV2)
- HV (units supplied at 11kV)
- EHV (units supplied at voltages above 11kV)

6.2 National Grid has considered this option and can confirm that data supplied in this form does not prevent it from carrying out its statutory duties.

6.3 It is proposed therefore that the PC should be amended to reflect the collection of Energy data in this form. This also affects the Data Registration Code (DRC).

6.4 It is also proposed to delete the text of PC.A.4.1.4 and PC.A.4.1.5. This text is concerned with Network Operators collecting Demand and Active Energy data from Suppliers and was relevant when PES's had an obligation to tariff customers but is no longer relevant.

6.5 The proposed Grid Code changes are as shown in Appendix 1.

B. COMMENTS

7. National Grid 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 National Grid by 26th October 2001. The comments will be reviewed and responded to and National Grid will then prepare its report to the Authority.

8. Your formal responses may be:-

Posted to: Mr David Payne
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The National Grid Company plc
National Grid House
Kirby Corner Road
Coventry
CV4 8JY

Faxed to: 024 7642 3298

Emailed to: david.payne@uk.ngrid.com

Appendix 1

EXTRACT FROM PC

Forecast Data, Registered Data and Estimated Registered Data

- PC.A.1.5 As explained in PC.5.4 and PC.5.5, **Planning Data** is divided into:
- (i) those items of **Standard Planning Data** and **Detailed Planning Data** known as **Forecast Data**; and
 - (ii) those items of **Standard Planning Data** and **Detailed Planning Data** known as **Registered Data**; and
 - (iii) those items of **Standard Planning Data** and **Detailed Planning Data** known as **Estimated Registered Data**.
- PC.A.1.6 The following paragraphs in this Appendix relate to **Forecast Data**:
- 3.2.2(b), (h), (i) and (j)(part)
 - 4.2.1
 - ~~4.2.3~~
 - 4.3.1
 - 4.3.2
 - 4.3.3
 - 4.3.4
 - 4.3.5
 - 4.5(a)(ii) and (b)(ii)
 - 4.6.1
 - 5.2.1.
 - 5.2.2
- PC.A.1.7 The following paragraphs in this Appendix relate to **Registered Data** and **Estimated Registered Data**:
- 2.2.1
 - 2.2.4
 - 2.2.5
 - 2.2.6
 - 2.3.1
 - 2.4.1
 - 3.2.2(a), (c), (d), (e), (f), (g), (j) (part) and (k)
 - 3.4.1
 - 3.4.2
 - 4.2.3
 - 4.5(a)(i), (a)(iii), (b)(i) and (b)(iii)
 - 5.3.1
 - 6.2
 - 6.3
- PC.A.1.8 The data supplied under PC.A.3.3.1, although in the nature of **Registered Data**, is only supplied upon application for a **Master Connection and Use of System Agreement** and **Supplemental Agreement** or for a new or varied **Supplemental Agreement**, as

together with **Active Energy** requirements relating thereto being and to be met by each of the **Suppliers** supplying **Customers** in the **User System**.

(b) Therefore, in formulating its **Demand** and **Active Energy** requirements forecast, each **Network Operator** will only include in the **Demand** it expects to be met together with **Active Energy** requirements relating thereto:-

(i) that **Demand** together with **Active Energy** requirements relating thereto in respect of which there is a contractual arrangement to meet (whether or not that **Demand** and those **Active Energy** requirements exist at the date of the forecast);

(i) any anticipated development in **Demand** and **Active Energy** requirements relating to that contractual arrangement;

(ii) any anticipated development in **Demand** and **Active Energy** requirements relating to **Tariff Customers** generally (whether or not a contractual arrangement then exists); and

(iv) where a contractual arrangement exists, or where a person is anticipated to be a **Tariff Customer**, for only a portion of the period for which data is required, will include an assumption for the remainder of that period (which will be identified as an assumption in the data submission) unless it is aware that that **Demand** will be met by other **Users** acting as **Suppliers**, which will be reflected in any event in its **Demand** and **Active Energy** requirements forecast.

The **Demand** and **Active Energy** requirements forecast may include specific reservations on particular aspects of the forecast.

PC.A.4.2 **Demand (Active and Reactive Power) and Active Energy Data**

PC.A.4.2.1 **User's Total System Demand (Active Power) and Active Energy**

Forecast daily **Demand (Active Power)** profiles, as specified in (a), (b) and (c) below, in respect of each of the **User's User Systems** (each summated over all **Grid Supply Points** in each **User System**) are required for:

(a) peak day on each of the **User's User Systems** (as determined by the **User**) giving the numerical value of the maximum **Demand (Active Power)** that in the **Users'**

opinion could reasonably be imposed on the **NGC Transmission System**;

- (b) day of peak **NGC Demand (Active Power)** as notified by **NGC** pursuant to PC.A.4.2.2;
- (c) day of minimum **NGC Demand (Active Power)** as notified by **NGC** pursuant to PC.A.4.2.2;

~~and the annual **Active Energy** requirement for each of the **User's User Systems** (each summated over all **Grid Supply Points** in each **User System**) is required, subdivided into the following categories of **Customer**:~~

~~Domestic,
Farms,
Commercial,
Industrial,
Traction,
Public Lighting and
User System losses.~~

~~A separate return is required for off-peak tariffs for Domestic and Commercial **Customers**.~~

~~The annual **Active Energy** used on each of the **User's User Systems** (each summated over all **Grid Supply Points** in each **User System**) both outturn and weather corrected is required in the above categories in respect of the preceding **NGC Financial Year**.~~

In addition, the total **Demand (Active Power)** in respect of the time of peak **NGC Demand** in the preceding **NGC Financial Year** in respect of each of the **User's User Systems** (each summated over all **Grid Supply Points** in each **User System**) both outturn and weather corrected shall be supplied.

PC.A.4.2.2

No later than calendar week 17 each year **NGC** shall notify each **Network Operator** and **Non-Embedded Customer** in writing of the following, for the current **NGC Financial Year** and for each of the following seven **NGC Financial Years**, which will, until replaced by the following year's notification, be regarded as the relevant specified days and times under PC.A.4.2.1:

- a) the date and time of the annual peak of the **NGC Demand**;
- b) the date and time of the annual minimum of the **NGC Demand**.

PC.A.4.2.3.

The total annual **Active Energy** used on each of the **User's User Systems** (each summated over all **Grid Supply Points** in each **User System**) in the preceding **NGC Financial Year**, both outturn

and weather corrected, together with a prediction for the current financial year, is required. Each **Active Energy** submission shall be subdivided into the following categories of **Customer** tariff:

LV1
LV2
LV3
HV
EHV
Traction
Lighting

In addition the total **User System** losses, and the **Active Energy** provided by **Small** and **Medium Power Stations** shall be supplied.

PC.A.4.2.34

All forecast **Demand (Active Power)** and **Active Energy** specified in PC.A.4.2.1 and PC.A.4.2.3 shall:

- (a) be such that the profiles comprise average **Active Power** levels in 'MW' for each time marked half hour throughout the day;
- (b) in the case of PC.A.4.2.1(a), (b) and (c), be that remaining after any deductions reasonably considered appropriate by the **User** to take account of the output profile of all **Embedded Small Power Stations** and **Embedded Medium Power Stations** and **Customer Generating Plant**;
- (c) in the case of PC.A.4.2.1(a) and (b), be based on **Annual ACS Conditions** and in the case of PC.A.4.2.1(c) and the details of the annual **Active Energy** required under PC.A.4.2.1-3 be based on **Average Conditions**.

EXTRACT FROM DRC

SCHEDULE 10

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DATA DESCRIPTION	Out-turn Energy		F.Yr.	F.Yr.	F.Yr.	F.Yr.	F.Yr.	UPDATE TIME F.Yr.	DATA CAT F.Yr.	
	Actual	Weather Corr.	0	1	2	3	4	5	6	7
<p>Active Energy Data</p> <p>Total annual Active Energy requirements under average conditions of each User-Network Operator and each Non-Embedded Customer in the following tariff baskets:- categories:-</p> <ul style="list-style-type: none"> -Domestic LV1 LV2 LV3 HV EHV Industrial Traction Lighting User System Losses Energy from Embedded Small and Medium Generating Plant Off-Peak:- <ul style="list-style-type: none"> Domestic Commercial 									Wk.24	SPD

NOTES:

- 'F. yr.' means 'NGC Financial Year'
- Demand and Active Energy Data (General)

Demand and Active Energy data should relate to the point of connection to the **NGC Transmission System** and should be net of the output (as reasonably considered appropriate by the **User**) of all **Embedded Small Power Stations, Medium Power Stations** and **Customer Generating Plant**. ~~Demand met by Suppliers supplying Customers within the User System should be included.~~ Auxiliary demand of **Embedded Power Stations** should be included in the demand data submitted by the **User** at the **Connection Point**. **Users** should refer to the **PC** for a full definition of the **Demand** to be included.

- Demand** profiles and **Active Energy** data should be for the total **System** of the **Network Operator**, including all **Connection Points**, and for each **Non-Embedded Customer**. **Demand Profiles** should give the numerical maximum demand that in the **User's** opinion could reasonably be imposed on the **NGC Transmission System**.
- In addition the demand profile is to be supplied for such days as NGC may specify, but such a request is not to be made more than once per calendar year.