

**MPID 154**

**EirGrid Business Readiness**

**Grid Code**

Date	25 <sup>th</sup> October 2006
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## **Introduction**

With effect from 1 July 2006 EirGrid plc. assumed the role of Transmission System Operator (TSO) pursuant to S.I. 445 (2000), as amended by S.I. 60 (2005). As a result, some modifications are required to the Grid Code. EirGrid plc. informed all Grid Code users in writing and by publication on its website of these proposed modifications. These modifications have yet to be discussed at the Grid Code Review Panel (GCRP), however, following a request from ESB National Grid (the TSO at that time) the Commission for Energy Regulation directed that from July 1<sup>st</sup> 2006 the Grid Code shall be deemed to have incorporated them. Following discussion of the modifications at the next GCRP, which is scheduled to take place on September 21<sup>st</sup> 2006, EirGrid shall formally seek the Commission's approval to modify the Grid Code in accordance with the normal procedure (cf. section GC.6 of the Grid Code).

The changes to be made to the Grid Code to take account of the requirements for EirGrid Business Readiness are outlined below. Not all instances of 'ESBNG' can automatically change to 'EirGrid' or 'TSO', as the provisions of the Infrastructure Agreement<sup>1</sup> must be taken into account.

## **Changes**

Most references to 'ESBNG' shall change to 'the TSO'. Some recent modifications to the code – WFPS1 and PCA4.10.1 already use the terminology 'the TSO'. However, in the UK code, 'NGC' is used and in the North, 'NIE' is used. The more generic form of 'TSO' is more suitable as it may reduce the number of modifications in the future for various reasons.

Summary of the required changes to the Grid Code for Business Readiness for EirGrid changeover:

**1. General Conditions**

All instances of ESBNG can change to *'the TSO'* or *'TSO'* as appropriate.

**2. Connection Conditions**

All instances of ESBNG can change to *'the TSO'* or *'TSO'* as appropriate:

**3. Planning Code**

Change the first sentence to read "The **Planning Code** applies to **TSO**, **TAO** and to the following **Users**:"

All instances of ESBNG can change to *'the TSO'* or *'TSO'* as appropriate except for:

- 1) In PC3 TAO to be added to the list
- 2) PC4.3.2 "ESBNG works" to change to *"connection works"* i.e.

change PC4.3.2 from

Any **Connection Offer** will provide that it must be accepted by the applicant **User** within the period stated in the **Connection Offer**, after which the **Connection Offer** will automatically lapse. Acceptance of the **Connection Offer** shall be effected by execution of the **Connection Agreement** by both parties which renders the **ESBNG** works relating to that **User Development** committed and binds both parties in accordance with its terms. Within 60 **Business Days** (or such longer period as **ESBNG** may agree in any particular case) of acceptance of the **Connection Offer** the **User** shall supply the data pertaining to the **User Development** as listed in the Appendix to this **Planning Code**.

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<sup>1</sup> The agreement due to be signed by Eirgrid, as the Transmission System Operator (TSO), and ESB, as the Transmission Asset Owner (TAO).

to

Any **Connection Offer** will provide that it must be accepted by the applicant **User** within the period stated in the **Connection Offer**, after which the **Connection Offer** will automatically lapse. Acceptance of the **Connection Offer** shall be effected by execution of the **Connection Agreement** by both parties which renders the **ESBNG connection** works relating to that **User Development** committed and binds both parties in accordance with its terms. Within 60 **Business Days** (or such longer period as **ESBNG** may agree in any particular case) of acceptance of the **Connection Offer** the **User** shall supply the data pertaining to the **User Development** as listed in the Appendix to this **Planning Code**.

4. **Planning Code Appendix**

All instances of ESBNG can change to *'the TSO'* or *'TSO'* as appropriate.

5. **OC1 – Demand Forecasting**

All instances of ESBNG can change to *'the TSO'* or *'TSO'* as appropriate.

6. **OC2 – Operational Planning**

All instances of ESBNG can change to *'the TSO'* or *'TSO'* as appropriate...

7. **OC3 – Interconnector Management**

All instances of ESBNG can change to *'the TSO'* or *'TSO'* as appropriate.

8. **OC4- System Services**

All instances of ESBNG can change to *'the TSO'* or *'TSO'* as appropriate except for:

1) OC4.4.3.3 – term ESBNG can be removed and replaced with *'the'*

9. **OC5- Demand Control**

All instances of ESBNG can change to *'the TSO'* or *'TSO'* as appropriate

10. **OC6 - Small-Scale Generator Conditions**

All instances of ESBNG can change to *'the TSO'* or *'TSO'* as appropriate

11. **OC7- Information Exchange**

All instances of ESBNG can change to *'the TSO'* or *'TSO'* as appropriate except for:

1) OC7.2.5.3.1 – delete the word 'ESBNG' in 'ESBNG Transmission Station'

2) OC7.2.5.3.2 - delete the word 'ESBNG' in 'ESBNG Transmission Station'

3) OC7.2.5.5.2 - We will not own the OPTEL system. The TAO will own the OPTEL system as agreed in the JTTA (Joint Team on Transfer of Assets).

Change OC7.2.5.5.2 from

OC7.2.5.5.2 **ESBNG** may provide one or more telephone extensions to be connected to the **ESBNG** private operational telephone system. This facility shall be reserved for operational purposes only, and shall be continuously attended by a person meeting the requirements of OC7.2.4.2.3, OC7.2.4.3.3, or OC7.2.4.4.3 (as appropriate) and answered without undue delay. **Users** shall be responsible for optimising the reliability and security of this telephone service including the provision at no charge of an uninterruptible power supply.

to...

OC7.2.5.5.2 **ESBNG** ~~The TSO~~ may ~~provide~~ *arrange the provision of* one or more telephone extensions to be connected to the ~~OPTEL ESBNG-private operational-telephone~~ system. This facility shall be reserved for operational purposes only, and shall be continuously attended by a person meeting the requirements of OC7.2.4.2.3, OC7.2.4.3.3, or OC7.2.4.4.3 (as appropriate) and answered without undue delay. **Users** shall be responsible for ~~optimising the reliability and security of this telephone service including~~ the provision at no charge of an uninterruptible power supply.

And define **OPTEL** as

**OPTEL:** The operational telephony system owned by **ESB** and used by the **TSO** for voice communication with **Users**.

- 4) OC7.2.5.7  
Access needs to be available to both the TSO and the TAO, but we propose to use the phrase “by the **TSO** or its service providers”

i.e. change OC7.2.5.7 from...

**OC7.2.5.7 Access and Security**

OC7.2.5.7.1 All SCADA, metering equipment, computer and communications equipment that interfaces with **ESBNG** and the information carried by it must be secure from unauthorised access. Procedures governing security and access shall be agreed with **Users** pursuant to the **Operation Instructions**, but shall allow for adequate access to the equipment and information by **ESBNG** for the purposes of maintenance, repair, testing and the taking of readings.

To...

**OC7.2.5.7 Access and Security**

OC7.2.5.7.1 All SCADA, metering equipment, computer and communications equipment that interfaces with **ESBNG the TSO** and the information carried by it must be secure from unauthorised access. Procedures governing security and access shall be agreed with **Users** pursuant to the **Operation Instructions**, but shall allow for adequate access to the equipment and information by **ESBNG the TSO or its service providers** for the purposes of maintenance, repair, testing and the taking of readings.

12. **OC8 – Operational Testing**  
All instances of ESBNG can change to ‘the TSO’ or ‘TSO’ as appropriate.
13. **OC9 – Emergency Control & Power System Restoration**  
All instances of ESBNG can change to ‘the TSO’ or ‘TSO’ as appropriate.
14. **OC10 – Monitoring, Testing & Investigation**  
All instances of ESBNG can change to ‘the TSO’ or ‘TSO’ as appropriate.
15. **OC11 – Safety Co-ordination**  
All instances of ESBNG can change to ‘the TSO’ or ‘TSO’ as appropriate except for:
- 1) OC11.1.4 ESBNG to change to ‘the TSO, the TAO’;
  - 2) OC11.2.3 It is currently being proposed to delete “by ESBNG” as part of a Grid Code Modification Proposal (MPID141).
  - 3) OC11.3 add ‘the TAO’ to the list .
- Note- there are other modifications required to OC11 (and CC.7.2.4.2) which are unrelated to the EirGrid switchover, but these shall be detailed in other documentation and are due to be presented to the Grid Code Review Panel in September 2006 as a separate modification.
16. **SCD1 – Generation Scheduling**  
All instances of ESBNG can change to ‘the TSO’ or ‘TSO’ as appropriate.
17. **SDC2 – Generation Dispatching**  
All instances of ESBNG can change to ‘the TSO’ or ‘TSO’ as appropriate.
18. **SDC2A – Generation Dispatching Appendix**  
All instances of ESBNG can change to ‘the TSO’ or ‘TSO’ as appropriate.
19. **Wind Farm Power Stations**  
There are no references to ESBNG.
20. **Acronyms**  
All instances of ESBNG can change to ‘the TSO’ or ‘TSO’ as appropriate.

Delete Acronym NG for National Grid.

**21. Glossary**

All instances of ESBNG can change to 'the TSO' or 'TSO' as appropriate except for:

Definition of "Modification" to change from...

<b>Modification</b>	Any actual or proposed replacement, renovation, modification, alteration or construction by or on behalf of a <b>User</b> or <b>ESBNG</b> to either that <b>User's Plant</b> or <b>Apparatus</b> or <b>ESBNG's Plant</b> or <b>Apparatus</b> , as the case may be, or the manner of its operation which has or may have a <b>Material Effect</b> on <b>ESBNG</b> or a <b>User</b> , as the case may be, at a particular <b>Connection Site</b> .
...to...	
<b>Modification</b>	Any actual or proposed replacement, renovation, modification, alteration or construction by or on behalf of a <b>User</b> or <i>the TSO</i> to either that <b>User's Plant</b> or <b>Apparatus</b> , <i>the TSO's Plant</i> or <b>Apparatus</b> or <i>the TAO's Plant</i> or <i>Apparatus</i> , as the case may be, or the manner of its operation which has or may have a <b>Material Effect</b> on a <b>User</b> or <i>the TSO</i> , as the case may be, at a particular <b>Connection Site</b> .

Definition of

<b>Site</b>	An <b>ESBNG Site</b> or <b>User Site</b> , as the case may be.
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to change to

<b>Site</b>	A <i>TSO Site</i> , <i>TAO Site</i> or <b>User Site</b> , as the case may be.
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Definition of

<b>Transmission Reliability Margin</b>	A transmission transfer capacity margin which accounts for the security margin for regulation, reserve sharing, and <b>Rescue Flows</b> between <b>ESBNG</b> and <b>NIE</b> and may also take into account uncertainties of system conditions and other assumptions made to produce <b>Total Transfer Capacity</b> ex-ante.
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To change to...

<b>Transmission Reliability Margin</b>	A transmission transfer capacity margin which accounts for the security margin for regulation, reserve sharing, and <b>Rescue Flows</b> between <i>ESBNG the Transmission System</i> and <i>NIE any External System</i> and may also take into account uncertainties of system conditions and other assumptions made to produce <b>Total Transfer Capacity</b> ex-ante.
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Definition of

<b>Transmission System</b>	The system consisting (wholly or mainly) of high <b>Voltage</b> electric lines and cables operated by <b>ESBNG</b> for the purposes of transmission of electricity from one <b>Power Station</b> to a sub-station or to another <b>Power Station</b> or between sub-stations or to or from any <b>External Interconnection</b> including any <b>Plant</b> and <b>Apparatus</b> and meters owned or operated by <b>ESBNG</b> in connection with the transmission of electricity.
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to change to

<b>Transmission System</b>	The system consisting (wholly or mainly) of high <b>Voltage</b> electric lines and cables operated by <i>ESBNG the TSO</i> for the purposes of transmission of electricity from one <b>Power Station</b> to a sub-station or to another <b>Power</b>
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	<b>Station</b> or between sub-stations or to or from any <b>External Interconnection</b> including any <b>Plant</b> and <b>Apparatus</b> and meters owned or operated by <b>ESBNG</b> <i>the TSO or the TAO</i> in connection with the transmission of electricity.
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**Transmission Asset Owner Definition**

Replace current definition for **Transmission Asset Owner**

From...

<b>Transmission Asset Owner</b>	The owner of the transmission assets
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To...

<b>Transmission Asset Owner (TAO)</b>	<b>ESB acting in its capacity as the Transmission System Owner.</b>
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And add a definition for **Transmission System Owner**

<b>Transmission System Owner</b>	<b>The holder of the licence granted pursuant to Section 14 of the Act to own the Transmission System.</b>
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- Replace all references to “Transmission Asset Owner” to “TAO”.
- Add TAO to the Acronyms section: **TAO**: Transmission Asset Owner

**ESBNG Definition**

Delete current definition for ESBNG and delete Acronym “NG”.

Replace current definition for TSO

From...

<b>Transmission System Operator (TSO)</b>	The holder of the licence granted pursuant to Section 14 of the <b>Act</b> to operate the <b>Transmission System</b> .
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To...

<b>Transmission System Operator (TSO)</b>	<b>The holder of the licence granted pursuant to Section 14 of the Act to operate the Transmission System, and have responsibility for settlement of the electricity market</b>
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And add TSO to the Acronyms section: **TSO**: Transmission System Operator