

## Modification Summary GCRP 15 - Thursday 21<sup>st</sup> September 2006

Last updated 27 October 2006

### **MPID 141 - OC11 Safety**

**Grid Code clause number:** OC11

**Proposed by:** EirGrid

**Modification Proposal:**

Please see separate document here:

<http://www.eirgrid.com/EirgridPortal/uploads/Regulation%20and%20Pricing/MPID%20141%20OC11%20Safety%2025October2.pdf>

---

### **MPID 147 – Site Responsibility Schedule**

**Grid Code clause number:** CC.14 and Glossary

**Proposed by:** EirGrid

**Modification Proposal:**

The Grid Code refers to “Site Responsibility Schedule” a number of times and the term is also referred to in the Glossary. Changes to OC11 have been considered already as part of MPID 141. This modification only relates to the instances of Site Responsibility Schedule that occur in CC.14 and in the Glossary.

**CC.14      RESPONSIBILITY FOR SAFETY**

- CC.14.1      A **Site Responsibility Schedule** shall be developed for each **User Site**
- CC.14.2      The **Site Responsibility Schedule** shall detail the demarcation of responsibility for safety of persons carrying out work or testing at the **User's Connection Site** and on circuits which cross the **User's Site** at any point.
- CC.14.3      More detailed information on procedures and responsibilities involved in **Safety Procedures** is set out in **OC11**.

Glossary:

<b>Site Responsibility Schedule</b>	Means the site responsibility schedule referred to in OC11
-------------------------------------	--

As the definition for “Site Responsibility Schedule” only refers the reader back to OC11, it is proposed to delete this definition as the term “Site Responsibility Schedule” in OC11 has been removed as part of MPID 141.

The term “Site Responsibility Schedule” is rarely, if never, actually used in practice. There for it is also proposed to modify CC14 to the following (red strikethrough text to be deleted and new text shown in blue).

**CC.14 RESPONSIBILITY FOR SAFETY**

~~CC.14.1 A Site Responsibility Schedule shall be developed for each User Site~~

~~CC.14.2 The Site Responsibility Schedule shall detail the demarcation of responsibility for safety of persons carrying out work or testing at the User's Connection Site and on circuits which cross the User's Site at any point.~~

CC.14.1 For each **User Site** and in consultation with the **User**, the **TSO** shall detail in the Operation Instructions the demarcation of responsibility for safety of persons carrying out work or testing at the **User's Connection Site** and on circuits which cross the **User's Site** at any point.

CC.14. ~~23~~ More detailed information on procedures and responsibilities involved in ~~Safety Procedures~~ **safety procedures** is set out in **OC11**.  
*[Removing bold font and CAPITALS as not a defined term]*

---

## **MPID154- To “EirGridise the Grid Code”**

**Grid Code clause number:** Various. Over 1000 instances of “ESBNG” in the Grid Code.

**Proposed by:** EirGrid

**Modification Proposal:** Please see separate document:

<http://www.eirgrid.com/EirgridPortal/uploads/Regulation%20and%20Pricing/Grid%20Code%20Modification-Oct06.pdf>

---

## **MPID 155 - Typo**

**Grid Code clause number:** OC7.2.4.4.3

**Proposed by:** EirGrid

**Modification Proposal:**

There is a typo in OC7.2.4.4.3. This modification is to remove the word “agreement” and add a comma before the word “such”.

OC7.2.4.4.3 The **DSO** shall operate its **Control Facility** according to the provisions agreed with the **TSO** in any agreements between the **DSO** and the **TSO**, ~~agreement~~ such agreement not to be unreasonably withheld.

---

## MPID 157 – Grid Code Derogations

**Grid Code clause number:** GC8.6

**Proposed by:** EirGrid

**Modification Proposal:**

Currently, as the Grid Code is written, only the CER may obtain clarifications on derogations. It is also required that the TSO is able to contact the applicant to discuss the application. It is also required that the CER or the TSO is able to seek additional information on derogation requests. Users must also respond to requests for clarifications in a timely manner, therefore it is proposed to amend GC8.6 as follows:

Amend the first paragraph of GC.8.6 as follows by adding in the text in blue and underlined:

GC.8.6                    On receipt of any request for derogation, the **Commission** shall promptly consider such request and provided that the **Commission** considers that the grounds for the derogation are reasonable, then the **Commission** shall grant such derogation unless the derogation would, or it is likely that it would, have a material adverse impact on the security and stability of the **Transmission System** or impose unreasonable costs on the operation of the **Transmission System** or on other **Users**. In its consideration of a derogation request by a **User**, the **Commission** may contact the relevant **User** and or the **TSO** to obtain clarification of the request, or to obtain further information regarding the request, or to discuss changes to the request.

And at the end of the first paragraph add the following text:

“The **TSO** may also contact the relevant **User** to obtain clarification of the request, or obtain further information regarding the request, or to discuss changes to the request. The **User** shall respond to all such requests without undue delay”

---

## MPID 158 – Minimum Load

**Grid Code clause number:** CC.7.3.1.1 (k)

**Proposed by:** EirGrid

**Modification Proposal:**

Currently it is not clear what the minimum load must be for a CCGT that is operating in open-cycle mode (i.e. with the steam turbine off) . As a CCGT plant typically

generates two thirds of its power from a gas turbine and one third from the steam turbine, it therefore makes sense that a CCGT plant should have a minimum load higher than a CCGT plant with only a gas turbine.

It is therefore proposed to amend CC.7.3.1.1 (k) as follows by adding in the text in blue and underlined and by deleting the text in red strikethrough:

Each **Generation Unit**, shall, as a minimum, have the following capabilities:

(k) **Minimum Load** not greater than 50% of **Registered Capacity** for ~~CCGTs~~ Modules and not greater than 35% of **Registered Capacity** for all other **Generation Units**. For CCGT Modules when operating in open cycle mode the Minimum Load of each Combustion Turbine Unit must be not greater than 35% of the Capacity of that Combustion Turbine Unit.

Requires further discussion between EirGrid and CCGT representative.

---

## **MPID 159 - Availability / Delivery Point definitions**

**Grid Code clause number:** Glossary

**Proposed by:** EirGrid

**Modification Proposal:**

Please see separate document here:

<http://www.eirgrid.com/EirgridPortal/uploads/Regulation%20and%20Pricing/MPID%20159%20Availability%20etc%20versi.pdf>

---

## **MPID 161- Generator de-loading rate from Min Gen to de-synchronising.**

**Grid Code clause number:** CC7.3.1.1 (t)

**Proposed by:** EirGrid

**Modification Proposal:**

In order for generators to come offline in a timely fashion it is proposed to add in a requirement for generators to have a maximum deloading time from Min to zero. This provides symmetry with the time to loadup from synchronising to minimum load (hot version, which is the most relevant in this case).

"except where agreed with NCC" has been added to provide some operational flexibility.

This proposal is to modify CC.7.3.1.1 (t) as follows:

To separate CC.7.3.1.1 (t) into two parts, (i) and (ii). The text that is currently in CC.7.3.1.1 (t) will become part (i)

CC.7.3.1.1. ( t )(i) Time from Synchronising to Minimum Load  
hot : not greater than 40 minutes  
warm : not greater than 90 minutes  
cold : not greater than 180 minutes

and the following text is proposed for part (ii):

CC.7.3.1.1. ( t )(ii): Time to deload from **Minimum Load to De-Synchronising:**  
not greater than 40 minutes, except where agreed with the TSO.

---

## MPID 163 – Signals for Wind Farms

**Grid Code clause number:** WFPS1 (various clauses)

**Proposed by:** EirGrid

**Modification Proposal:** The modification proposal can be found here:

<http://www.eirgrid.com/EirgridPortal/uploads/Regulation%20and%20Pricing/Changes%20to%20WFPS1%20v10.pdf>

---

## MPID 164 – Acronyms

**Grid Code clause number:** Glossary, Acronyms

**Proposed by:** EirGrid

**Modification Proposal:**

In the Grid Code various acronyms are mentioned in the Glossary that are not contained in the main Grid Code text. This modification proposes to delete the following modifications:

### ACRONYMS

<b>BST</b>	Bulk Supply Tariff
<b>CT</b>	Current Transformer
<b>DECLARE</b>	ESBNG's Declaration System
<b>HFO</b>	Heavy Fuel Oil
<b>NO<sub>x</sub></b>	Oxides of Nitrogen
<b>O<sub>2</sub></b>	Oxygen
<b>PG</b>	Power Generation
<b>PMR</b>	Post Mortem Review
<b>PSDM</b>	Power System Data Management
<b>RPM</b>	Revolutions per minute
<b>SNP</b>	Short Notice Penalty
<b>SO<sub>x</sub></b>	Oxides of Sulphur
<b>YNd (5,7,11)</b>	Star Neutral Delta Vector Group 5 or 7 or 11 (Generator Transformer)
<b>Z<sub>p</sub></b>	Impedance of Primary winding of a three phase Transformer
<b>Z<sub>s</sub></b>	Impedance of Secondary winding of a three phase Transformer
<b>Z<sub>t</sub></b>	Impedance of Tertiary winding of a three phase Transformer

---

---

## MPID 165 –Reactive Power Response from Wind farms

**Grid Code clause number:** Glossary and WFPS1.6.2.4

**Proposed by:** EirGrid

**Modification Proposal:**

**Background:** The TSO requires Wind Farms to provide the full range of reactive power following a step change in voltage. The Grid Code text is unclear and EirGrid has received numerous queries from developers and manufacturers to provide more clarity on what response is required. This modification proposes to clarify what response is required.

This proposal is to modify WFPS1.6.2.3 and WFPS1.6.2.4 as shown below with new text shown in blue and underlined and text to be deleted shown in red strikethrough.

**WFPS1.6.2.3** The ~~slope setting of the~~ **Voltage Regulation System Slope Setting** shall be capable of being set to any value between 1% and 10%. The setting shall be specified by the **TSO** at least 60 business days prior to the **Wind Farm Power Station’s** scheduled **Operational Date**. The **Wind Farm Power Station** shall be responsible for implementing the appropriate settings during **Commissioning**. The slope setting may be varied from time to time depending on **Transmission System** needs. The **TSO** shall give the **Wind Farm Power Station** a minimum of two weeks notice if a change is required. The **Wind Farm Power Station** shall formally confirm that any requested changes have been implemented within two weeks of receiving the **TSO’s** formal request.

And modify the current definition of “**Slope of the Voltage Regulation System**” as follows:

<p><del>Slope of the</del> <b>Voltage Regulation System</b> <u>Slope Setting</u></p>	<p><del>The slope setting is</del> The percentage change in <b>Transmission System Voltage</b> that would cause the <b>Reactive Power</b> output of the <b>Wind Farm Power Station</b> to vary from <del>minimum to maximum output</del> <u>maximum Mvar production to maximum Mvar absorption or vice-versa.</u></p>
--	---

And modify WFPS1.6.2.4 as follows:

**WFPS1.6.2.4** The speed of response of the **Voltage Regulation System** shall be such that, following a step change in **Voltage** at the **Connection Point** the **Wind Farm Power Station** shall achieve 90 % of its steady-state **Reactive Power** Response within 1 second. The response may require a transition from maximum Mvar production to maximum Mvar absorption or vice-versa.