

MINUTES OF THE GRID CODE REVIEW PANEL MEETING

Held at the Grand Canal Hotel, Grand Canal Street, Dublin 4

On 9 Sept 2010 at 10:30am

PANEL ATTENDEES

<u>Name</u>		<u>Present</u>	<u>Role</u>
Jon O'Sullivan	JOS	Y	Chairman
Jane McArdle	JMcA	Y	Renewable Generators
Gráinne O'Shea	GOS	Y	ESBPG
Chevron Nolan	CN	Y	ESBPES
Ger Harnett	GH	Y	Independent Electricity Supplier
Rónán Ó hÓgartaigh	RO	Y	Distribution System Operator
John Lynch	JL	Y	CER
Brían McAuley	BMcA	Y	Market Operator
Barry Sherry	BS	Y	Endesa (Alternate)
Yazhou Lei	YL	Y	Renewable Generators
Gary Thompson	GT	Y	Independent CCGT Generators
Cormac McCarthy	CMcC	Y	TSO Representative
Alan Darbey	AD	Y	TSO Representative
Mark Norton	MN	Y	TSO Representative

OTHER ATTENDEES

<u>Name</u>		<u>Present</u>	<u>Role</u>
Arlene McGrath	AMcG	Y	GCRP Secretary
Karl O'Keefe	KOK	Y	TSO (Advisor)
Anne Trotter	AT	Y	TSO (Advisor)
Daniel Joyce	DJ	Y	TSO (Advisor)
Yvonne Coughlan	YC		TSO (Advisor)

APOLOGIES

<u>Name</u>		<u>Present</u>	<u>Role</u>
Conor Healy	CH	N	Transmission Asset Owner
Simon Grimes	SG	N	EirGrid Representative
Liam Ryan	LR	N	Market Operator
Peter Gillespie	PG	N	IPP Generators (exl. Renewables and CCGT)
Brian Williams	BW	N	HVDC Interconnectors

Introduction to GCRP Meeting & Approval of Minutes

1. The Chairman welcomed Panel Members to the meeting and provided an overview of the agenda.
2. The Chairman welcomed new panel members Gary Thompson (Independent CCGT Generators) and Alan Darbey (TSO Representative) to the panel.
3. Anne Trotter (TSO), Yvonne Coughlan (TSO) and Daniel Joyce (TSO) attended the GCRP to present some of the items on the agenda. Karl O' Keefe (TSO) was also in attendance.
4. The Chairman noted apologies received from Conor Healy, Simon Grimes, Liam Ryan, Peter Gillespie and Brian Williams.
5. The GCRP approved the minutes of the previous meeting held in Belfast, 20th May 2010.

Key Principles

MPID 195 Planned Plant Closures	AT
Clarification on use of Registered Capacity	
<ul style="list-style-type: none">• Registered Capacity will be confirmed at the commissioning phase and monitored through Performance Monitoring.• GOS made the point that there may not be the correct temperature pressure at the point of performance monitoring. AT assured the panel that EirGrid will look at trends.• Installed Capacity will now be a defined term in the Grid Code. EirGrid will carry out a DoF before the Operational Cert is issued to ensure that what is on the application form is what is installed. Installed Capacity will be monitored, going forward, as part of Performance Monitoring.• GT suggested that the word 'humidity' should precede the word 'relative'. It is agreed by the panel that this should be looked into.• It is emphasised that the term Installed Capacity does not define a MW value; it is a description of plant characteristics.• BS suggested that the title should change to reflect its meaning i.e. plant characteristics.	

<ul style="list-style-type: none"> ▪ Recommendation or documentation of disagreements. ▪ Paper detailing the analysis. ▪ Is there an anomaly between the Planning Criteria and the Grid Code? ▪ What is a reasonable standard for FRT for Conventional Plant? <p>ACTION</p> <ul style="list-style-type: none"> • AT to deliver an interim update to the CER before the next GCRP meeting. 	<p>AT</p>
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<p>MPID 196 Reporting of Medium/Long Term Operational Characteristics</p> <p>Interpretation of the term <u>major Outage</u></p>	<p>JOS</p>
<ul style="list-style-type: none"> • All GCRP members approved the interpretation of the term major Outage. • All GCRP members agreed to the new form entitled 'Major Outage Cancellation Form'. <p>ACTION</p> <ul style="list-style-type: none"> • Publish the interpretation and the new form on the EirGrid website. • Send MPID 196 to the CER for their approval. 	<p>EirGrid</p> <p>EirGrid</p>

MPID 199 Modifications to OC2 Operational Planning	AD
<ul style="list-style-type: none"> ▪ Outage planning is only carried out for year 0, 1, 2 and 3 and Capacity Adequacy Indicators are produced each week for the following 4 week period. ▪ The proposed modifications reflect what is carried out in practise. ▪ Removal of all references to Indicative Outage Programme for years 4 to 7. ▪ GH queried whether this proposed modification would have an effect on SEMO feeds. <p>ACTION:</p> <ul style="list-style-type: none"> • Change the Grid Code numbering and check through the proposed modifications for further references in the Grid Code. • Confirm that the proposed changes do not affect SEMO feeds. • Provided all concerns are addressed the GCRP members are happy for the proposed modification to be sent to the CER for their approval. 	<p>EirGrid</p> <p>EirGrid</p> <p>EirGrid</p>

MPID 200 Proposed Grid code Modifications for Secondary Fuel Testing	YC
<ul style="list-style-type: none"> • The paper presented captures the remainder of the items provided in the CER decision paper. <p>ACTION:</p> <ul style="list-style-type: none"> • CC.7.3.1 should include the term ‘or as agreed with the TSO’. • Check through the numbering of the Grid Code clauses. • The definition of an Off-Site Storage Location should refer to 5 km rather than 1 km from the Generating Plant. The panel have one week to make submissions on this. If all agreed on 5 km the revised paper will be sent to the CER for their approval. 	<p>EirGrid</p> <p>EirGrid</p> <p>EirGrid</p>

<p>MPID 197 Controllable Wind Farm Extension</p>	<p>DJ</p>
<ul style="list-style-type: none"> • It is proposed to add a definition for ‘Controllable WFPS Extension’ to the Grid Code glossary and a definition for ‘Wind Farm Power Station Extension’ to the DSO glossary. • It is agreed to send the proposed modification to the CER subject to minor amendments, as highlighted: <p>WFPS 1 CONTROLLABLE WIND FARM POWER STATION GRID CODE PROVISIONS</p> <p>WFPS1.1 INTRODUCTION</p> <p>All Generators connecting to the Transmission System are required to comply with the Grid Code. The Grid Code was originally developed with synchronous generators in mind. Since Wind Turbine Generators (WTG) do not have the same characteristics as synchronous generators, it was considered appropriate to develop a new set of Grid Code provisions specifically for Controllable WFPSs. This section of the Grid Code gives the specific requirements for Controllable WFPSs and WFPS Extensions to pre-existing Controllable WFPSs where an extension to a WFPS shall be classified as one of the following two types:</p> <ul style="list-style-type: none"> • Transmission Connected Type A A WFPS Extension which is not separately dispatchable controllable. • Transmission Connected Type B A WFPS Extension which is separately dispatchable controllable will be considered as a unique WFPS with the exception of its requirements to WFPS1.6 Transmission System Voltage Requirements which will be tested in aggregate with the existing Controllable WFPS. <p>Transmission Connected Type A WFPS Extensions and Transmission Connected Type B WFPS Extensions will be subject to full Grid Code Compliance testing at the discretion of the TSO. Where a Controllable WFPS has been granted derogations or exemptions from the Grid Code any WFPS Extension to that Controllable WFPS will be a Transmission Connected Type B WFPS Extension.</p> <p>WFPS1.2 OBJECTIVE</p> <p>The primary objective of WFPS1 is to establish the technical rules which Controllable WFPSs and WFPS Extensions must comply with in relation to their connection to and operation on the Transmission System.</p> <p>WFPS1.3 SCOPE</p> <p>WFPS1.3.1 WFPS1 applies to the following Users:</p> <ul style="list-style-type: none"> (a) The TSO; and; (b) Grid Connected Controllable WFPSs; and (c) Grid Connected Controllable WFPS Extensions. <p>DEFINITIONS</p> <p>WFPS Extension</p>	<p>EirGrid</p>

An increase to the **Installed Registered Capacity** of any **Controllable WFPS**.

ACTION:

- **Carry out changes to the proposed modification and submit changes to the CER for their approval.**

Discussion Items

DJ

- EirGrid will set up a Working Group to discuss:
 - Automatic Voltage and Power Factor Regulation for Transmission Connected Wind Farms
 - Ramp Rates for Transmission Connected Wind farms
- JMA suggested inviting Wind Farm Turbine Manufacturers to the meetings.
- JOS also extended the invite to the DSO.

EirGrid

CER Updates

JL

- **Grid Code Standards for HVDC Interconnectors Consultation**
 - The CER will send their recommendations to EirGrid following the HVDC consultation. EirGrid will comment on the recommendations and submit a paper to the CER and the GCRP.
 - The Commission for Energy Regulation should no longer be referred to as the Commission in the Grid Code; it should only be referred to as the CER. The GCRP and CER approved the reference change.
 - EirGrid have agreed to publish a summary of proposed Grid Code modifications and their status.

CER/EirGrid

EirGrid

EirGrid

Summary of Actions

ACTION	MEMBER
<p>MPID 195 Planned Plant Closures - Clarification on use of Registered Capacity</p> <ul style="list-style-type: none"> • The word ‘humidity’ should precede the word ‘relative’. It is agreed by the panel that this should be looked into. • The proposed term Installed Capacity should be changed to Installed Plant and this will be included in the Planning Section Appendix of the Grid Code. • Letters to go out to Conventional Generators and Wind Farms including DSO Wind Farms. • Send proposed modification MPID 195 to the CER for their approval. 	<p>EirGrid</p> <p>EirGrid</p> <p>EirGrid</p> <p>EirGrid/CER</p>
<p>Fault Ride Through Working Group</p> <ul style="list-style-type: none"> ○ AT to deliver an interim update to the CER before the next GCRP meeting. 	<p>AT</p>
<p>MPID 196 Reporting of Medium/Long Term Operational Characteristics - Interpretation of the term <u>major Outage</u></p> <ul style="list-style-type: none"> • Publish the interpretation and the new form on the EirGrid website. • Send MPID 196 to the CER for their approval. 	<p>EirGrid</p> <p>EirGrid</p>
<p>MPID 199 Modifications to OC2 Operational Planning</p> <ul style="list-style-type: none"> • Change the Grid Code numbering and check through the proposed modifications for further references in the Grid Code. • Confirm that the proposed changes do not affect SEMO feeds. • Provided all concerns are addressed the GCRP members are happy for the proposed modification to be sent to the CER for their approval. 	<p>EirGrid</p> <p>EirGrid</p> <p>EirGrid</p>

<p>MPID 200 Proposed Grid code Modifications for Secondary Fuel Testing</p> <ul style="list-style-type: none"> • CC.7.3.1 should include the term 'or as agreed with the TSO' • Check through the numbering of the Grid Code clauses. • The definition of an Off-Site Storage Location should refer to 5 km rather than 1 km from the Generating Plant. The panel have one week to make submissions on this. If all agreed on 5 km the revised paper will be sent to the CER for their approval. 	<p>EirGrid</p> <p>EirGrid</p> <p>GCRP/EirGrid</p>
<p>MPID 197 Controllable Wind Farm Extension</p> <ul style="list-style-type: none"> • Subject to minor changes it is agreed to send this proposed definition to the CER for their approval. 	<p>EirGrid</p>
<p>Discussion Items</p> <ul style="list-style-type: none"> ▪ Set up a Working Group to discuss: <ul style="list-style-type: none"> ○ Automatic Voltage and Power Factor Regulation for Transmission Connected Wind Farms ○ Ramp Rates for Transmission Connected Wind farms 	<p>EirGrid</p>
<p>CER Updates</p> <ul style="list-style-type: none"> ○ The CER will send their recommendations to EirGrid following the HVDC consultation. EirGrid will comment on the recommendations and submit a paper to the CER and the GCRP. ○ The Commission for Energy Regulation should no longer be referred to as the Commission in the Grid Code; it should only be referred to as the CER. The GCRP and CER approved the reference change. ○ EirGrid have agreed to publish a summary of proposed Grid Code modifications and their status. 	<p>CER/EirGrid</p> <p>EirGrid</p> <p>EirGrid</p>