

APPROVED MINUTES OF THE GRID CODE REVIEW PANEL MEETING

Grand Canal Hotel, Dublin 4

8 June 2011 at 10:30am

PANEL ATTENDEES

<u>Name</u>		<u>Present</u>	<u>Role</u>
Jon O'Sullivan	JOS	Y	Chairman
Alan Darbey	AD	Y	TSO Representative
Mark Norton	MN	Y	TSO Representative
Cormac McCarthy (Alternate)	CMcC	Y	TSO Representative
Peter Gillespie	PG	Y	IPP (excl. Renewables and CCGT)
Barry Sherry	BS	Y	Grid Connected Independent Generators excluding Renewable Generators
Gary Thompson	GT	Y	IPP Generators (CCGT only)
Jane McArdle	JMcA	Y	Renewable Generators
Yazhou Lei	YL	Y	Renewable Generators
Gráinne O'Shea	GOS	Y	ESB PG
Chevron Nolan	CN	Y	ESBPES
Ger Harnett	GH	N	Independent Electricity Supplier
Demand Customers		N	No Representative
Conor Healy	CH	N	Transmission Asset Owner
Derek Hynes (Alternate)	DH	Y	Distribution System Operator
John Lynch	JL	Y	CER
Brian Williams	BW	N	HVDC Interconnector
Liam Ryan	LR	Y	Market Operator

OTHER ATTENDEES

<u>Name</u>		<u>Present</u>	<u>Role</u>
Arlene Chawke	AC	Y	GCRP Secretary
Karl O'Keefe	KOK	Y	TSO (Advisor)
Anne Trotter	AT	Y	TSO (Advisor)
Yvonne Coughlan	YC	Y	TSO (Advisor)
Alan Rogers	AR	Y	TSO (Advisor)
Paul Brandon	PB	Y	CER (Advisor)
Jonathan Hedgecock	JH	Y	CER (Technical Consultant)
Michael Peters	MP	Y	Observer – Fingleton White & Co

Jim Gannon	JG	Y	Observer – RPS Group
Patrick Liddy	PL	Y	Observer – Activation Energy
Phil Martin	PM	Y	Observer – EnerNoc (Conference Call)
Don Colella	DC	Y	Observer – RPS Group (Conference Call)

APOLOGIES

<u>Name</u>		<u>Present</u>	<u>Role</u>
Conor Healy	CH	N	Transmission Asset Owner
Simon Grimes	SG	N	EirGrid Representative
Ger Harnett	GH	N	Independent Electricity Supplier
Brian Williams	BM	N	HVDC Interconnector
Rónán Ó hÓgartaigh	RO	N	Distribution System Operator

Introduction to GCRP Meeting & Approval of Minutes

1. The Chairman welcomed Panel Members to the meeting and provided an overview of the agenda.
2. AT (TSO), KO'K (TSO), YC (TSO), AR (TSO) attended the GCRP to present some of the items on the agenda. JG and DC (RPS Group) also attended the meeting on behalf of the CEWEP. PB (CER) and the CER's technical advisor, JH attended as observers. MP (Fingleton White & Co), PL (Activation Energy) and PM (EnerNoc) were also in attendance to observe the item on Demand Side Units.
3. The Chairman noted apologies received from RO (DSO), SG (TSO), BW (Interconnector), GH (Independent Electricity Supplier), CH (TAO).
4. The GCRP approved the minutes of the previous meeting held in Belfast, 23 February 2011.
5. JOS (Chairman) gave an update on all the actions from the previous meeting. JL (CER) to follow up with AT (TSO) on the CER having a generic email address for derogations.

Key Principles

MPID 213 – Notification from the TSO - OC7.2.6.2	AT
<ul style="list-style-type: none"> • AT (TSO) explained that it is not necessary to give seven days notice as the move has a minimal impact on other Users. Current procedure is to fully inform Users during course of change in line with a standard business process. • No objections were made to the proposed modification. 	

ACTION:

- **AC to send recommendation to the CER.**

MPID 212 - Voltage Regulation System - WFPS1.6.2.2

JOS

- This proposed modification introduces two additional control modes from Controllable WFPS i.e. 'Q-Mode' or Reactive Power / Mvar Instruction & Power Factor control modes.
- The original proposed modification was presented at the GCRP #27 meeting, 23 February 2011. An action was taken away from that meeting to propose new text. KO'K (TSO), JMCA (Renewable Generators) and YL (Renewable Generators) agreed the proposed wording. All are happy with the new wording and no objections were made at the GCRP.
- JMCA (Renewable Generators) voiced her concern about retrospection and how it is difficult to quantify the cost to the developer until the new practice is in place.
- DH (DSO) confirmed that the DSO intends to include a similar clause in the DSO code.
- MN (TSO) noted that we must also consider Europe. There are similar harmonised European requirements coming on board. ENSTO-E has met with the stakeholders such as the generators and they have been brought on board.
- GO'S (ESB PG) suggested that there is a lock down procedure in place for the Grid Code and it is reviewed every three years.
- JO'S (Chairman) said that now more than ever we must acknowledge that a harmonised European Grid Code is a much bigger consideration.
- All panel members approved this modification.

ACTION:

- **AC (Secretary) to send a recommendation to the CER but include the Industry concerns regarding retrospection.**

MIPD 215 – FRT – CC.7.3.1.1(h) and Glossary - PowerPoint Presentation <i>attached to the email</i>	AT
<ul style="list-style-type: none"> • All the FRT Working Group deliverables are complete. Recommendations have unanimous support from all members of the FRT Working Group. • AT (TSO) gave a PowerPoint Presentation on the deliverables and recommendations. • MN (TSO) noted that the ENTSO E European Code will supersede national Grid Codes with a three year getting to know you phase. In the draft European Code for 100% Voltage Dip Magnitude retained the FRT Times are between 150 ms and 200 ms and for 50% retained the FRT times are between 150 ms and 700 ms. • JL (CER) noted that the CER have concerns that the FRT recommendations may have an impact on an All Island basis. • JO'S (Chairman) advised that SONI do not have FRT requirements in their Grid Code, FRT requirements are based on bi-lateral contracts and these contracts are confidential and for this reason this modification should not be delayed, especially considering that the recommendations have unanimous support of the cross industry Working Group. <p>ACTION:</p> <ul style="list-style-type: none"> ➤ AC to send a recommendation to the CER. 	

MPID 206 – Ramp Rate Break Point – WFPS1.5.2.1 - PowerPoint Presentation <i>attached to the email</i>	AT
<ul style="list-style-type: none"> • AT (TSO) presented a number of PowerPoint slides on this proposal, discussing the: <ul style="list-style-type: none"> ○ Background; ○ TSO perspective; 	

<ul style="list-style-type: none"> ○ Ramp Rate Break Point level; • The TSO have received many derogation applications from clause WFPS1.5.3 and the TSO acknowledges the technical limitation that gives rise to WFPS inability to achieve Ramp Rates during start up. • JO'S (Chairman) stressed that Ireland has a very high proportion of wind on the system and this proposal is trying to achieve a more accurate way of reflecting the capability of a WFPS and hence reduce the number of derogation requests. • JO'S (Chairman) stated that the TSO is seeking a reasonable maximum threshold (a percentage of the Registered Capacity) value in the Grid Code which Ramp Rate Break Point must be below. • No member rejected to the proposal, the problem appears to be coming up with a percentage value. • AT (TSO) advised she will send the PowerPoint Presentation to the discussion group who previously met to discuss this proposal and she will also propose a percentage value of 10%. AT will bring back a proposal to the next GCRP based on comments from the discussion group. • JO'S (Chairman) advised that his proposal only applies to Wind Farms when they are dispatched and not when the wind dies down or when there is no wind. • YL (Renewables) suggested a new term Ramp Rate Applicable Point. JO'S(Chairman) is open to the suggestion. <p>ACTION:</p> <ul style="list-style-type: none"> ➤ AT to send the PowerPoint presentation to the discussion group with a proposed threshold value of 10%. Based on their comments a final proposal will be made at the next GCRP meeting. 	
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<p>MPID 214 Demand Side Units (DSU) – <i>PowerPoint Presentation attached to the email</i></p>	<p>YC</p>
<ul style="list-style-type: none"> • YC (TSO) advised that a DSU can be a single entity or an aggregator and she continued to give the background to this modification. A Working Group took place in Dundalk to discuss the implications of this proposed modification to the Grid Code (proposed by MP (Fingleton White & Co) at a Trading and Settlement Code Meeting). YC (TSO) has since addressed the changes 	

<p>to the Grid Code and she presented them to the GCRP members.</p> <ul style="list-style-type: none"> • It was agreed that YC (TSO), LR (Market Operator), MP (Fingleton White & Co) and PL (Activation Energy) will agree to a proposed modification before it is circulated amongst all the panel members of the GCRP. GCRP members, on receipt of the proposed modification, will have one week to submit their objections, if any. Provided all members are happy with the proposed modification AC (Secretary) will send the recommendation to the CER. • LR (Market Operator) advised that the original modification to the Trading and Settlement Code may need to be aligned to the Grid Code proposed modification. <p>ACTION:</p> <ul style="list-style-type: none"> ➤ YC (TSO), LR (Market Operator), MP (Fingleton White & Co) and PL (Activation Energy) to agree a proposed modification. ➤ AC to circulate a proposal amongst panel members. Panel members have one week to comment. Provided there are no objections AC (Secretary) will send the recommendation to the CER. 	
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Waste to Energy Discussion – <i>PowerPoint Presentation attached to the email</i>	AR
<ul style="list-style-type: none"> • AR (TSO) presented on: <ul style="list-style-type: none"> ○ The key points of Waste to Energy; ○ Grid Code requirements; and ○ The next steps i.e. derogations or modify the Grid Code • JG (RPS Group) noted that the main driver for Waste to Energy is European Waste Directives and these are binding. The EC has drafted guidelines to calculate a Waste to Energy facility's R1 performance and this is due to be confirmed within the next couple of months. • DC (RPS Group) confirmed that the plant cannot provide Operating Reserve but all other Grid Code requirements can be met. • GT (IPP Generators) noted that the provision of Operating Reserve is crucial and providers have to de-rate a gas turbine in order to provide Reserve. He also asked is it possible to bypass and divert the steam? • DC (RPS Group) explained that it is not possible because they are bound by EU directives and 	

<p>they will be fined, the plant is not configured to provide Operating Reserve based on policy.</p> <ul style="list-style-type: none"> • GO'S (ESB PG) acknowledged that the Grid Code is a technical document and that Waste to Energy is a good thing, however, it is driven by policy and such policy may change over time, and therefore temporary derogations from Operating Reserve should be given. • BS (Grid Connected Independent Generators) noted that the plant should be built with system security in mind. • JO'S (Chairman) stated that 150 - 200 MW of Waste to Energy plant will not be a material threat to the system security. • JO'S (chairman) suggested that by the end of July the TSO will issue a note stating how the TSO will progress with this matter, if the TSO supports a change to the Grid Code EirGrid will contact GO'S (ESBPG), GT (IPP Generators) and BS (Grid Connected Independent Generators) directly. If the TSO decides to go down the derogation route they will contact JG (RPS Group) about the derogation process. Testing of Waste to Energy plant is due to commence in October. • Post Meeting Note: <i>Section 2.3 of Decision Paper CER/09/001 exempts renewable generation from Secondary Fuel obligations.</i> <p>ACTION:</p> <ul style="list-style-type: none"> ➤ JG (RPS Group) to issue a note on different waste type definitions. ➤ TSO to issue a note on how to progress this matter by end of July, two options: <ol style="list-style-type: none"> 1. Change to the Grid Code – AC to contact GO'S (ESB PG), GT (IPP Generators) and BS (Grid Connected Independent Generators). 2. Derogations – AC to contact JG (RPS Group). 	
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<p>ENTSO-E Network Code update – PowerPoint Presentation attached to the email</p>	<p>JO'S MN</p>
<ul style="list-style-type: none"> ➤ Under AOB JO'S (Chairman) gave an update on ENTSO-E and MN (TSO) gave a presentation on ENTSO-E Network Code. ➤ JO'S stressed that now is the time to make your voice heard: 	

<ul style="list-style-type: none"> ➤ Road shows - regional external consultations to commence in this and next quarter; ➤ Larger external stakeholder meeting planned in Brussels; ➤ Comments can be submitted on line via ENTSO-E website; ➤ Final Network Code, published response to comments to be complete by year end. 	
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SUMMARY OF ACTIONS

ACTION	MEMBER
<p><u>MPID 213 – Notification from the TSO - OC7.2.6.2</u></p> <ul style="list-style-type: none"> ➤ Send recommendation to the CER 	AC
<p><u>MPID 212 - Voltage Regulation System - WFPS1.6.2.2</u></p> <ul style="list-style-type: none"> ➤ Send a recommendation to the CER but include the industry concerns regarding retrospection. 	AC
<p><u>MIPD 215 – FRT – CC.7.3.1.1(h) and Glossary</u></p> <ul style="list-style-type: none"> ➤ Send recommendation to the CER. 	AC
<p><u>MPID 206 – Ramp Rate Break Point – WFPS1.5.2.1</u></p> <ul style="list-style-type: none"> ➤ Send the PowerPoint presentation to the discussion group with a proposed maximum threshold value of 10%. Based on their comments a final proposal will be made at the next GCRP meeting. 	AT and AC
<p><u>MPID 214 Demand Side Units (DSU)</u></p> <ul style="list-style-type: none"> ➤ YC (TSO), LR (Market Operator), MP (Fingleton White & Co) and PL (Activation Energy) to agree a proposed modification. ➤ Circulate a proposal amongst panel members. Panel members have one week to 	YC, LR, MP, PL

<p>comment. Provided there are no objections AC (Secretary) will send the recommendation to the CER.</p>	<p>AC and all members</p>
<p><u>Waste to Energy Discussion</u></p> <ul style="list-style-type: none"> ➤ JG (RPS Group) to issue a note on different waste type definitions. ➤ TSO to issue a note on how to progress this matter by end of July, two options: <ul style="list-style-type: none"> 1. Change to the Grid Code – AC to contact GO’S (ESB PG), GT (IPP Generators) and BS (Grid Connected Independent Generators). 2. Derogations – AC to contact JG (RPS Group). 	<p>JG</p> <p>AR</p>