

Grid Code Version 3.3

Modifications Proposed at Grid Code Review Panel #21, 4th December 2008

Modifications Approved by the CER, 30th January 2009

New text highlighted in blue and removed text highlighted in red strike-through.

MPID 188 – Membership of the GCRP (a change to the GCRP constitution)

Constitution section number: 4.1

Proposed by: EirGrid

Modification Proposal:

To amend the membership section of the Grid Code Review Panel Constitution to allow a representative of the Market Operator and a representative of HVDC Interconnectors to become members of the Grid Code Review Panel. It is proposed to amend section 4.1 of the constitution by adding the following text in blue and underlined:

4. Membership

4.1 The Panel shall consist of:

- a) a Chairman and 3 persons appointed by, and representing the TSO;
- b) 1 person appointed by and representing ESB Power Generation;
- c) 1 person appointed by Grid Connected non-CCGT and non-Renewable Independent Generators, and representing non- CCGT and non-Renewable Independent Generators;
- d) 1 person appointed by Grid Connected Independent CCGT Generators, and representing Independent CCGT Generators;
- e) 1 person appointed by Grid Connected Independent Generators, and representing Independent Generators which shall exclude Renewable Generators;
- f) 1 person appointed by Grid Connected Renewable Generators, and representing Renewable Generators;
- g) 1 person appointed by, and representing the Distribution System Operator;
- h) 1 person appointed by Grid Connected Demand Customers, and representing Demand Customers;
- i) 1 person appointed by, and representing the Public Electricity Supplier;
- j) 1 person appointed by, and representing Independent Electricity Suppliers;
- k) 1 person appointed by, and representing the Commission;
- l) 1 person appointed by, and representing the Transmission System Owner Licensee;
- m) 1 person appointed by, and representing the Market Operator;
- n) 1 person appointed by, and representing HVDC Interconnectors;

each of whom shall be appointed pursuant to the Constitution of the Panel set forth in this document. Each Member shall be entitled to bring with him to each meeting a maximum of two (2) professional advisers, subject to 16.2. These advisers shall not constitute additional membership in the Panel.

MPID 189 – Changes to Glossary Definitions

Grid Code clause number: Page-Glossary-23 (Hot Start)
 Page-Glossary-46 (Warm Start)
 Page-Glossary-11 (Cold Start)

Proposed by: SEM Committee

Modification Proposal:

The following modification has been approved for the Trading and Settlement Code. The modification can only be implemented into the Trading and Settlement Code as soon as it is an approved modification to the Grid Code.

The justification behind the change to the Trading and Settlement Code is as follows:

As per the Code, the definitions of Hot/Warm Cooling Boundary and Hot/Warm/Cold Start are not consistent. As a result, the status at the Hot Cooling Boundary and/or Warm Cooling Boundary is not consistently defined within the Code.

Example:

Generator Unit A has a Hot Cooling Boundary of 2 hours and a Warm Cooling Boundary of 4 hours. If the Generator Unit is off at midday, the warmth status (based on the current definitions) of the Generator Unit will be as follows:

	13:59:59	14:00:00	14:00:01	15:59:59	16:00:00	16:00:01
Hot Cooling Boundary Definition	HOT	HOT	WARM			
Hot Start Definition	HOT	WARM	WARM			
Warm Cooling Boundary Definition				WARM	WARM	COLD
Warm Start Definition				WARM	COLD	COLD

The Central Market Systems utilise warmth state boundary data in the MSP Software (as part of the optimisation to determine Market Schedule Quantities) and in Settlement (to calculate

Market Schedule Start-Up Cost and Dispatch Schedule Start-Up Cost). All current implementation within the Central Market Systems is consistent with the definitions of Hot Cooling Boundary and Warm Cooling Boundary.

This Modification seeks to address the inconsistency by aligning the definitions that comprise warmth states for Generator Units.

It is proposed to modify the text in Grid Code glossary, in line with the Trading and Settlement Code, by adding the following text in blue and underlined and by deleting the text in red struck-through:

Page-Glossary-23

Hot Cooling Boundary

The period of time, following De-Synchronisation of a Generating Unit after which the Warmth State transfers from being hot to being warm.

Hot Start

Any Synchronisation of a Generating Unit that has previously not been Synchronised for a period of time shorter than or equal to its submitted Hot Cooling Boundary.

Page-Glossary-46

Warm Cooling Boundary

The period of time, which must be greater than that defined by the Hot Cooling Boundary, post De-Synchronisation of a Generating Unit after which the Generating Unit's Warmth State transfers from being warm to cold.

Warm Start

Any Synchronisation of a Generating Unit that has previously not been Synchronised for a period of time ~~equal to or~~ longer than its submitted Hot Cooling Boundary ~~but~~ and shorter than or equal to its submitted Warm Cooling Boundary.

Page-Glossary-11

Cold Start

Any **Synchronisation** of a **Generating Unit** that has previously not been **Synchronised** for a period of time ~~equal to or~~ longer than its submitted **Warm Cooling Boundary**.