

# MODIFICATION RECOMMENDATION

## FORM MPID 260 – HOUSEKEEPING OF WFPS CLAUSE

### WFPS1.5.4.1



*RECOMMENDATION TO CER BY EIRGRID OF MODIFICATION TO GRID CODE.*

<b>ABSTRACT / TITLE OF MODIFICATION</b>	<b>MPID 260 – HOUSEKEEPING OF WFPS CLAUSE</b> <b>WFPS1.5.4.1</b>
<b>MODIFICATION NUMBER</b>	MPID 260
<b>RECOMMENDED AT GCRP MEETING NUMBER</b>	39
<b>LIST OF GRID CODE SECTION(S) AFFECTED BY PROPOSED MODIFICATION:</b>	<b>WFPS1.5.4.1</b>
<b>CURRENT GRID CODE VERSION :</b>	5
<b>MODIFICATION DESCRIPTION</b> <b>Overview</b> <b>THE REASON FOR THE RECOMMENDED MODIFICATION</b>	<p>This modification aims to rectify an incorrect reference in WFPS1.5.4.1. The clause refers to WFPS1.5.2.2.2 which does not exist in Grid Code Version 5. The referenced clause was present in previous versions of the Grid Code but needs to be updated following the revisions to the WFPS section for Grid Code Version 5.</p>
<b>History of Progression through GCRPs, Working Group and/or Consultation</b>	<p>EirGrid presented the modification proposal MPID 260 to the Grid Code Review Panel members at a meeting held at The Spencer Hotel in Dublin on the 11<sup>th</sup> June 2014. No objections were raised by the panel members and the modification was recommended for approval.</p>

<p><b>Summary Note of any Objections to the Recommended change from GCRP Members or Consultation Responses</b></p>	<p>No objections were raised.</p>
<p><b>Outcome of any GCRP Meeting Actions Relating to the Recommended Modification</b></p>	<p>No objections were raised.</p>
<p><b>Implication of not implementing the Modification</b></p>	<p>The incorrect reference in clause WFPS1.5.4.1 will remain.</p>

### RED-LINE VERSION

#### WFPS1.5.4 RAMP RATES

**WFPS1.5.4.1** The **Wind Farm Control System** shall be capable of controlling the ramp rate of its **Active Power** output. There shall be three ramp rate capabilities, designated **Wind Following Ramp Rate**, **Active Power Control Set-Point Ramp Rate**, and **Frequency Response Ramp Rate**. The **Wind Farm Control System** shall operate the ramp rates with the following order of priority (high to low): **Frequency Response Ramp Rate**; **Active Power Control Set-Point Ramp Rate**; **Wind Following Ramp Rate**. The **Wind Following Ramp Rate** shall be used during **Start-Up**, normal operation, and **Shutdown**. The **TSO** shall specify the **Wind Following Ramp Rate** and the **Active Power Control Set-Point Ramp Rate** in percentage of **Registered Capacity** per minute. The **Frequency Response Ramp Rate** shall be the maximum possible ramp rate of the **Controllable WFPS** agreed with the **TSO** and with the characteristics as set out in **WFPS1.5.3.1**.~~WFPS1.5.2.2.2~~. The **TSO** acknowledges that rapidly changing wind speeds may cause temporary deviations from the ramp rate settings of the **Controllable WFPS**, but these deviations should not be allowed to exceed 3% of **Registered Capacity**.

**GREEN-LINE VERSION****WFPS1.5.4 RAMP RATES**

**WFPS1.5.4.1** The **Wind Farm Control System** shall be capable of controlling the ramp rate of its **Active Power** output. There shall be three ramp rate capabilities, designated **Wind Following Ramp Rate**, **Active Power Control Set-Point Ramp Rate**, and **Frequency Response Ramp Rate**. The **Wind Farm Control System** shall operate the ramp rates with the following order of priority (high to low): **Frequency Response Ramp Rate**; **Active Power Control Set-Point Ramp Rate**; **Wind Following Ramp Rate**. The **Wind Following Ramp Rate** shall be used during **Start-Up**, normal operation, and **Shutdown**. The **TSO** shall specify the **Wind Following Ramp Rate** and the **Active Power Control Set-Point Ramp Rate** in percentage of **Registered Capacity** per minute. The **Frequency Response Ramp Rate** shall be the maximum possible ramp rate of the **Controllable WFPS** agreed with the **TSO** and with the characteristics as set out in WFPS1.5.3.1. The **TSO** acknowledges that rapidly changing wind speeds may cause temporary deviations from the ramp rate settings of the **Controllable WFPS**, but these deviations should not be allowed to exceed 3% of **Registered Capacity**.