

MODIFICATION PROPOSAL FORM

WFPS Frequency Response Modification (MPID 262)

FORM GC1, PROPOSAL OF MODIFICATION TO GRID CODE.



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MODIFICATION PROPOSAL ORIGINATOR (CONTACT NAME)	David Cashman	MODIFICATION PROPOSAL ORIGINATOR FAX NUMBER:	
MODIFICATION PROPOSAL ORIGINATOR TELEPHONE NUMBER:	01-2370122	DATE:	12 th November 2014
MODIFICATION PROPOSAL ORIGINATOR E-MAIL ADDRESS:	david.cashman@eirgrid.com	MODIFICATION PROPOSAL NUMBER (EIRGRID USE ONLY)	MPID 262
GRID CODE SECTION(S) AFFECTED BY PROPOSAL:	WFPS1.5.3.6		
GRID CODE VERSION :	5.0		
MODIFICATION PROPOSAL DESCRIPTION (MUST CLEARLY STATE THE DESIRED AMENDMENT, ALL TEXT/FORMULA CHANGES TO THE GRID CODE. THE REQUIRED REASON FOR THE MODIFICATION MUST STATED. ATTACH ANY FURTHER INFORMATION IF NECESSARY.)	This modification is to update the frequency response requirements for Controllable WFPS. The modification changes the requirement for Active Power Control Set-point to be calculated as a percentage of Registered Capacity rather than Available Active Power for Curve 2. Making this change ensures that the Active Power Control Set-point of the Controllable WFPS will always be at a fixed MW level when in Curve 2. Currently the MW level of Curve 2 will vary depending on the percentage of Available Active Power which varies with wind conditions.		
IMPLICATION OF NOT IMPLEMENTING THE MODIFICATION	The implementation of this change in Curve 2 implementation would provide more certainty to the TSO as to how much MW will be provided by each Controllable WFPS in terms of Frequency Response. The current method would provide variable MW response from each Controllable WFPS on Curve 2 which would be dependent on wind conditions. This would therefore add more uncertainty for the TSO in the operation of Curve 2.		
<i>Please submit the Modification Proposal by fax, post or electronically, using the information supplied above</i>			

EIRGRID REVIEWER	
EIRGRID ASSESSMENT	

WFPS1.5.3.6 Points ‘A’, ‘B’, ‘C’, ‘D’ and ‘E’ shall depend on a combination of the **Transmission System Frequency, Active Power** and **Active Power Control Set-point** settings. These settings may be different for each **Controllable WFPS** depending on system conditions and **Controllable WFPS** location. These settings are defined in *Table WFPS1.1* below.

Point	Transmission System Frequency (Hz)	Controllable WFPS Active Power Output (% of Available Active Power Registered Capacity)
A	F_A	P_A
B	F_B	Minimum of : P_B or Active Power Control Set-point (converted to a % of Available Active Power Registered Capacity)
C	F_C	Minimum of: P_C or Active Power Control Set-point (converted to a % of Available Active Power Registered Capacity)
D	F_D	Minimum of: P_D or Active Power Control Set-point (converted to a % of Available Active Power Registered Capacity)
E	F_E	$P_E = 0\%$

Table WFPS1.1: Transmission System Frequency and % ~~Available Active Power~~ Registered Capacity Settings for the Points ‘A’, ‘B’, ‘C’, ‘D’ and ‘E’ illustrated in Figure WFPS1.2

Two settings for each of $F_A, F_B, F_C, F_D, F_E, P_A, P_B, P_C, P_D$ and P_E shall be specified by the **TSO** at least **120 Business Days** prior to the **Controllable WFPS’s** scheduled **Operational Date** (refer to WFPS1.5.3.11 below). The **Controllable WFPS** shall be responsible for implementing the appropriate settings during **Commissioning**.