



MODIFICATION PROPOSAL FORM

PARTIAL SHUTDOWN

FORM GC1, PROPOSAL OF MODIFICATION TO GRID CODE.

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MODIFICATION PROPOSAL ORIGINATOR:			
MODIFICATION PROPOSAL ORIGINATOR (CONTACT NAME)	Arlene Chawke	MODIFICATION PROPOSAL ORIGINATOR FAX NUMBER:	
MODIFICATION PROPOSAL ORIGINATOR TELEPHONE NUMBER:	01-2370129	DATE:	23 Jan 2013
MODIFICATION PROPOSAL ORIGINATOR E-MAIL ADDRESS:	Arlene.chawke@eirgrid.com	MODIFICATION PROPOSAL NUMBER (EIRGRID USE ONLY)	MPID 238 (revisited)
GRID CODE SECTION(S) AFFECTED BY PROPOSAL:	Clause	Term Used	
	OC9.1.2	Partial or Total Shutdown	
	OC9.1.3	Partial or Total Shutdown	
	OC9.1.4	Partial or Total Shutdown	
	OC9.2.1	Partial or Total Shutdown	
	OC9.2.1(a)	Partial or Total Shutdown	
	OC9.2.1(b)	Partial and Total Shutdowns	
	OC9.4.5.1	Partial or a Total Shutdown	
	OC9.5.2	Partial or Total Shutdown	
	SDC1.4.8.6(d)	Total or Partial Shutdown	
	Black Start Shutdown	Partial or Total Shutdown	
	Blue Alert	Partial or a Total Shutdown	
Power System Restoration	Total Shutdown or Partial Shutdown		
GRID CODE VERSION :	4		

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.)

The original modification proposal MPID 238, in relation to Grid Code clause OC9.4.5.1, was presented to the Grid Code Review Panel members at a meeting held in the Clarion IFSC Hotel in Dublin on the 4th December 2012. No objections were raised by the panel members and the modification was recommended for approval. An action was upheld to ensure that no other such incidences of ‘Partial’ in relation to Shutdown occur in the Grid Code. It has since emerged that other incidences of this does occur as outlined in the table above.

EirGrid propose amending these occurrences.

Below are the proposed new texts, both the red-line versions and the green-line versions. New text in the red-line version is highlighted in blue.

Clause	Red-line Version	Green-line Version
OC9.1.2	Experience has shown that electricity supply systems can suffer Partial Shutdown or Total Shutdown . Collapses can result from a number of root causes but might most typically be due to a high number of Plant failures (Generation and/or transmission) resulting from severe weather conditions and/or maloperation of protection systems.	Experience has shown that electricity supply systems can suffer Partial Shutdown or Total Shutdown . Collapses can result from a number of root causes but might most typically be due to a high number of Plant failures (Generation and/or transmission) resulting from severe weather conditions and/or maloperation of protection systems.
OC9.1.3	It is therefore necessary in the Grid Code to provide for how to deal with a Partial Shutdown or Total Shutdown of the Transmission System , and to ensure that the necessary procedures and facilities are in place to support rapid re-establishment of the shutdown parts and restore supply to Customers .	It is therefore necessary in the Grid Code to provide for how to deal with a Partial Shutdown or Total Shutdown of the Transmission System , and to ensure that the necessary procedures and facilities are in place to support rapid re-establishment of the shutdown parts and restore supply to Customers .
OC9.1.4	A Partial Shutdown or Total Shutdown represents one of the most serious fault situations liable to occur on the Transmission System , having a major effect on both Users and Customers . Due to the significance of such an incident and the urgency in restoring supply to all Customers , it is imperative that all Users should maintain a high level of awareness and training in respect of Power System Restoration .	A Partial Shutdown or Total Shutdown represents one of the most serious fault situations liable to occur on the Transmission System , having a major effect on both Users and Customers . Due to the significance of such an incident and the urgency in restoring supply to all Customers , it is imperative that all Users should maintain a high level of awareness and training in respect of Power System Restoration .

	<p>OC9.2.1</p>	<p>The objective of OC9 is to ensure that in the event of a Partial Shutdown or Total Shutdown of the Transmission System, normal supply is restored to all Customers as quickly and as safely as practicable in accordance with Prudent Utility Practice. This objective can be subdivided:</p>	<p>The objective of OC9 is to ensure that in the event of a Partial Shutdown or Total Shutdown of the Transmission System, normal supply is restored to all Customers as quickly and as safely as practicable in accordance with Prudent Utility Practice. This objective can be subdivided:</p>
	<p>OC9.2.1(a)</p>	<p>to outline the general restoration strategy which will be adopted by the TSO in the event of a Partial Shutdown or Total Shutdown of the Transmission System;</p>	<p>to outline the general restoration strategy which will be adopted by the TSO in the event of a Partial Shutdown or Total Shutdown of the Transmission System;</p>
	<p>OC9.2.1(b)</p>	<p>to establish the responsibility of the TSO to produce and maintain a comprehensive Power System Restoration Plan, covering both Partial Shutdowns and Total Shutdowns;</p>	<p>to establish the responsibility of the TSO to produce and maintain a comprehensive Power System Restoration Plan, covering both Partial Shutdowns and Total Shutdowns;</p>
	<p>OC9.4.5.1</p>	<p>The issuing of a Blue Alert other than as provided for in OC.9.5.4, by the TSO signifies that either a Partial Shutdown or a Total Shutdown of the Power System has taken place.</p>	<p>The issuing of a Blue Alert other than as provided for in OC.9.5.4, by the TSO signifies that either a Partial Shutdown or a Total Shutdown of the Power System has taken place.</p>

	OC9.5.2	The procedure for Power System Restoration shall be that notified by the TSO to the User at the time of a Partial Shutdown or Total Shutdown . Each User shall abide by the TSO's instructions during the restoration process, subject to safety of personnel and the TSO's and the User's Plant and Apparatus .	The procedure for Power System Restoration shall be that notified by the TSO to the User at the time of a Partial Shutdown or Total Shutdown . Each User shall abide by the TSO's instructions during the restoration process, subject to safety of personnel and the TSO's and the User's Plant and Apparatus .
	SDC1.4.8.6 (d)	a Total Shutdown or Partial Shutdown exists;	a Total Shutdown or Partial Shutdown exists;
Black Start Shutdown		In the event of a Partial Shutdown or Total Shutdown of the Transmission System , the Controllable WFPS shall be sent a Black Start Shutdown signal by the TSO and upon receipt of the signal, the Controllable WFPS shall trip the circuit breaker(s) at the Connection Point and shutdown the Controllable WFPS in a controlled manner.	In the event of a Partial Shutdown or Total Shutdown of the Transmission System , the Controllable WFPS shall be sent a Black Start Shutdown signal by the TSO and upon receipt of the signal, the Controllable WFPS shall trip the circuit breaker(s) at the Connection Point and shutdown the Controllable WFPS in a controlled manner.
Blue Alert		An alert issued by the TSO signifying that either a Partial Shutdown or a Total Shutdown of the Power System has taken place.	An alert issued by the TSO signifying that either a Partial Shutdown or a Total Shutdown of the Power System has taken place.
Power System Restoration		The restoration of the Power System or part of the Power System to a state of normal operation from a state of Total Shutdown or Partial Shutdown as the context requires.	The restoration of the Power System or part of the Power System to a state of normal operation from a state of Total Shutdown or Partial Shutdown as the context requires.
IMPLICATION OF NOT IMPLEMENTING THE MODIFICATION	Various clauses throughout the Grid Code, in relation to 'Partial Shutdown and Total Shutdown', will remain incompatible with the glossary of defined terms if this modification proposal is not implemented.		
<i>Please submit the Modification Proposal by fax, post or electronically, using the information supplied above</i>			
EIRGRID REVIEWER			

EIRGRID ASSESSMENT