

## Project 2007-09 Generator Verification Consideration of Issues and Directives

Project 2007-09 Generator Verification — PRC-024		
Issue or Directive	Source	Consideration of Issue or Directive
<p>Paragraph 1787 states "... the Commission directs the ERO to modify the Reliability Standard to explicitly require either that all generators are capable of riding through the same set of Category B and C contingencies, as required by wind generators in Order No. 661, or that those generators that cannot ride through be simulated as tripping. "</p>	<p>FERC Order 693</p>	<p>The GVSDT believes that Requirement R2 and the voltage ride through curves in PRC-024 Attachment 2 accomplish this. While the curves were developed based on three phase normally cleared faults located at a generating plant substation (the most severe condition for generating equipment), the curves cover voltages depressed as low as 0.65 per unit for two seconds, which the GVSDT feels will cover the Category B and C events of concern to the Commission. Requirement R5 directs all new generating facilities following approval of this standard to be designed, built and maintained so that they are able to ride through the excursions defined in the standard. For existing units, Requirement R3 allows an exemption from portions of the ride through curves in PRC-024 Attachments 1 and 2 for documented technical reasons, but directs those generators to communicate that limitation to the RC, PC, TOP and TP so its performance can be modeled correctly. In addition, Requirement R4 allows the RC, PC, TOP, or TP to request an estimate of performance (ride through duration) from the GO for a defined excursion. The estimate would cover process upsets to the generating equipment that might result in a delayed trip, even if the</p>

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		generator protection itself did not cause a trip.
Paragraph 1787 also states “... the Commission agrees that NRC requirements should be used when implementing the Reliability Standards.”	FERC Order 693	The GVSDT believes that Requirement R3 allows NRC requirements to supersede portions of the voltage and frequency ride through criteria in PRC-024-1. This Requirement allows generators an exemption from portions of the ride through curves for documented technical limitations. The GVSDT believes that NRC requirements qualify as technical limitations for the purposes of this standard.