

Mapping Document (Updated February 9, 2012 to correspond to the updated Requirement R1)

Mapping

Translation of VAR-002-1.1b - Generator Operation for Maintaining Network Voltage Schedules into VAR-002-2b - Generator Operation for Maintaining Network Voltage Schedules.

Standard: VAR-002-2b			
Requirement in Approved Standard	Translation to New Standard or Other Action	Proposed language in VAR-002-2b - Generator Operation for Maintaining Network Voltage Schedules	
R1. The Generator Operator shall operate each generator connected to the interconnected transmission system in the automatic voltage control mode (automatic voltage regulator in	Revised to address Interpretation Request	R1. The Generator Operator shall operate each generator connected to the interconnected transmission system in the automatic voltage control mode (automatic voltage regulator in	
service and controlling voltage) unless the Generator Operator has notified the Transmission Operator.		service and controlling voltage) unless the Generator Operator has notified the Transmission Operator of one of the following: [Violation Risk Factor: Medium] [Time Horizon: Real-time Operations]	



Standard: VAR-002-2b			
Requirement in Approved Standard	Translation to New Standard or Other Action	Proposed language in VAR-002-2b - Generator Operation for Maintaining Network Voltage Schedules	
		 That the unit is being operated in start-up¹ or shutdown² mode pursuant to a procedure previously provided to the Transmission Operator; or. 	
		 That the unit is not being operated in the automatic voltage control mode for a reason other than start-up or shutdown. 	
	All other	R2. Unless exempted by the Transmission Operator,	
	requirements	each Generator Operator shall maintain the generator	
	remain unchanged	voltage or Reactive Power output (within applicable	
	with the exception	Facility Ratings ³) as directed by the Transmission	
	of the addition of	Operator. [Violation Risk Factor: Medium] [Time Horizon:	
	Time Horizons and	Real-time Operations]	
	previously	R2.1. When a generator's automatic voltage	
	approved Violation	regulator is out of service, the Generator	
	Risk Factors and	Operator shall use an alternative method to	

¹ Start-up is deemed to have ended when the unit is ramped up to its minimum load and the unit is preparing for continuous operation.

² Shutdown is deemed to begin when the unit is ramped down to its minimum load and the unit is preparing to go offline.

³ When a Generator is operating in manual control, reactive power capability may change based on stability considerations and this will lead to a change in the associated Facility Ratings.



Standard: VAR-002-2b				
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	Violation Severity Levels.	control the generator voltage and reactive output to meet the voltage or Reactive Power schedule directed by the Transmission Operator. R2.2. When directed to modify voltage, the Generator Operator shall comply or provide an explanation of why the schedule cannot be met. R3. Each Generator Operator shall notify its associated Transmission Operator as soon as practical, but within 30 minutes of any of the following: [Violation Risk Factor: Medium] [Time Horizon: Real-time Operations] R3.1. A status or capability change on any generator Reactive Power resource, including the status of each automatic voltage regulator and power system stabilizer and the expected duration of the change in status or capability. R3.2. A status or capability change on any other Reactive Power resources under the Generator Operator's control and the expected duration of the change in status or capability. R4. The Generator Owner shall provide the following to its associated Transmission Operator and Transmission		



Standard: VAR-002-2b			
New S	Proposed language in VAR-002-2b - Generator Operation for Maintaining Network Voltage Action Schedules		
	Planner within 30 calendar days of a request. [Violation Risk Factor: Lower] [Time Horizon: Real-time Operations] R4.1. For generator step-up transformers and auxiliary transformers with primary voltages equato or greater than the generator terminal voltage R4.1.1. Tap settings. R4.1.2. Available fixed tap ranges. R4.1.3. Impedance data. R4.1.4. The +/- voltage range with step-change in % for load-tap changing transformers. R5. After consultation with the Transmission Operator regarding necessary step-up transformer tap changes, the Generator Owner shall ensure that transformer tap positions are changed according to the specifications provided by the Transmission Operator, unless such action would violate safety, an equipment rating, a regulatory requirement, or a statutory requirement. [Violation Risk Factor: Medium] [Time Horizon: Real-time Operations] R5.1. If the Generator Operator can't comply with the Transmission Operator's specifications,		



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		the Generator Operator shall notify the Transmission Operator and shall provide the technical justification.	