Implementation Plan — Set One of Phase III & IV Reliability Standards

Effective Date

The following table shows the proposed effective dates for the standards in the 1st of 2 sets of Phase III & IV Standards. While one of these standards is proposed to become effective on April 1, 2006, several have phased-in effective dates that span several years. The effective date is contingent on stakeholder support during the second posting of the standards, followed by approval of the reliability standards by a vote of the ballot pool in December. The effective date is also contingent on adoption of these Standards by the NERC Board of Trustees. The Board will approve the final effective date when it adopts the standards for implementation. This subset of the Phase III & IV standards is tentatively scheduled for consideration by the Board on February 6, 2006.

Standard	Proposed Effective Date	Reason for Delay in Implementation
MOD-024 Verification of Generator Gross and Net Real Power Capability	4/1/2006 for RRO requirements By 7/1/2006, Generator Owners must begin to provide verified data according to the schedule set forth by the RRO.	Time needed for RRO to complete & distribute its procedures before GOW can become compliant
MOD-025 Verification of Reactive Power Capability	1/1/2007 for RRO requirements By 1/1/2008, Generator Owners must begin to provide verified data according to the schedule set forth by the RRO.	Time needed for RRO to complete & distribute its procedures before GOW can become compliant
PRC-002 Define Regional Disturbance Monitoring and Reporting Requirements	1/1/2007	Time needed to run studies to determine where to locate Disturbance Monitoring Equipment and to formalize documentation of reporting requirements
PRC-003 Regional Requirements for Transmission and Generation Protection System Misoperations	5/1/2006	Time needed to formalize documentation
PRC-004 Analysis and Mitigation of Transmission and Generation Protection System Misoperations	8/1/2006	Time needed to respond to Regional requirements for analysis of misoperations
PRC-005 Transmission and Generation Protection System Maintenance and Testing	5/1/2006	Time needed to respond to Regional requirements for maintenance and testing

PRC-018
 	
Disturbance Monitoring Equipment Installation and Data Reporting
	10/1/2007 for R2-R5
	
	Compliance with R1:
	    25% compliant by 4/1/2008
	    50% compliant by 4/1/2009
	    75% compliant by 4/1/2010
	    100% compliant by 4/1/2011
		R1 – Time needed to purchase and install DMEs phased in so that Generator Owners can take up to four years to install the DMEs
		R2 through R5 – Time needed to compile data on DMEs and to establish maintenance and testing programs

PRC-019
 	
Coordination of Generator Voltage Regulator Controls with Unit Capabilities and Protection
	1/1/2007 for R1
	Compliance with R2, R3:
	
	    20% compliant by 1/1/2008
	    40% compliant by 1/1/2009
	    60% compliant by 1/1/2010
	    80% compliant by 1/1/2011
	    100% compliant by 1/1/2012
		R1 – Time needed for RRO to identify generator exemption criteria
		R2, R3 – Time needed to produce documentation phased in so that Generator Owners can take up to 5 years to become fully compliant

PRC-020 Under-Voltage Load Shedding Program Database	5/1/2006	Time needed to formalize documentation
PRC-021 Under-Voltage Load Shedding Program Data	8/1/2006	Time needed to respond to Regional requirements for the database
PRC-022 Under-Voltage Load Shedding Program Performance	5/1/2006	Time needed to prepare to run simulations, to establish a format for reports and mitigation plans
VAR-004 (Now PRC-023) Generator Performance During Temporary Frequency and Voltage Excursions	1/1/2007 for R1 – R6 1/1/2008 for R7	Time needed for RRO to complete & distribute its procedures before facility owners can become compliant

Compliance with Phase III & IV Reliability Standards

Once the Phase III & IV Reliability Standards are effective, the responsible entities identified in each of the standards must comply with the requirements in that standard. The table in Appendix A maps all the Phase III & IV requirements to each applicable function in the Functional Model. Note that some Phase III & IV Reliability Standards are modifications of existing Version 0 Standards. Entities must continue to comply with all requirements in approved Version 0 Standards until the requirements in the approved Version 0 Standards are replaced or retired. For example, PRC-003-1 is a modification of Version 0's PRC-003-0. PRC-003-0 has two requirements for the Regional Reliability Organization. The Regional Reliability Organization is responsible for compliance with both of the requirements in PRC-003-0 until May 1, 2006 when PRC-003-1 will replace PRC-003-0.

Standard Number	Req. Number	BA	DP	GO	GOP	LSE	PA	PSE	RC	RP	RRO	RSG	TO	TOP	TP	TSP	NERC_Net
MOD-024-1	R 1.										RRO						
MOD-024-1	R 1.1										RRO						
MOD-024-1	R 1.2										RRO						
MOD-024-1	R 1.3										RRO						
MOD-024-1	R 1.4										RRO						
MOD-024-1	R 1.5										RRO						
MOD-024-1	R 1.5.1										RRO						
MOD-024-1	R 1.5.2										RRO						
MOD-024-1	R 1.5.3										RRO						
MOD-024-1	R 2.										RRO						
MOD-024-1	R 3			GO													
MOD-025-1	R 1.										RRO						
MOD-025-1	R 1.1										RRO						
MOD-025-1	R 1.2										RRO						
MOD-025-1	R 1.3										RRO						
MOD-025-1	R 1.4										RRO						
MOD-025-1	R 1.5										RRO						
MOD-025-1	R 1.5.1										RRO						
MOD-025-1	R 1.5.2										RRO						
MOD-025-1	R 1.5.3										RRO						
MOD-025-1	R 1.5.4										RRO						
MOD-025-1	R 2.										RRO						
MOD-025-1	R 3			GO													
PRC-002-1	R 1.										RRO						
PRC-002-1	R 1.1										RRO						
PRC-002-1	R 1.1.1										RRO						
PRC-002-1	R 1.1.2										RRO						
PRC-002-1	R 1.2										RRO						

Standard Number	Req. Number	BA	DP	GO	GOP	LSE	PA	PSE	RC	RP	RRO	RSG	TO	TOP	TP	TSP	NERC_Net
PRC-002-1	R 1.2.1										RRO						
PRC-002-1	R 1.2.2										RRO						
PRC-002-1	R 2.										RRO						
PRC-002-1	R 2.1										RRO						
PRC-002-1	R 2.1.1										RRO						
PRC-002-1	R 2.1.2										RRO						
PRC-002-1	R 2.1.3										RRO						
PRC-002-1	R 2.1.3.1										RRO						
PRC-002-1	R 2.1.3.2										RRO						
PRC-002-1	R 2.1.3.3										RRO						
PRC-002-1	R 2.1.3.4										RRO						
PRC-002-1	R 2.1.3.5										RRO						
PRC-002-1	R 2.2										RRO						
PRC-002-1	R 2.2.1										RRO						
PRC-002-1	R 2.2.2										RRO						
PRC-002-1	R 2.2.3										RRO						
PRC-002-1	R 2.2.4										RRO						
PRC-002-1	R 2.2.5										RRO						
PRC-002-1	R 3.										RRO						
PRC-002-1	R 3.1										RRO						
PRC-002-1	R 3.1.1										RRO						
PRC-002-1	R 3.1.2										RRO						
PRC-002-1	R 3.1.3										RRO						
PRC-002-1	R 3.1.3.1										RRO						
PRC-002-1	R 3.1.3.2										RRO						
PRC-002-1	R 3.2										RRO						
PRC-002-1	R 3.2.1										RRO						
PRC-002-1	R 3.2.2										RRO						

Standard Number	Req. Number	BA	DP	GO	GOP	LSE	PA	PSE	RC	RP	RRO	RSG	TO	TOP	TP	TSP	NERC_Net
PRC-002-1	R 3.2.3										RRO						
PRC-002-1	R 4.										RRO						
PRC-002-1	R 4.1										RRO						
PRC-002-1	R 4.2										RRO						
PRC-002-1	R 5.										RRO						
PRC-002-1	R 5.1										RRO						
PRC-002-1	R 5.2										RRO						
PRC-002-1	R 5.3										RRO						
PRC-002-1	R 5.4										RRO						
PRC-002-1	R 5.5										RRO						
PRC-002-1	R 5.6										RRO						
PRC-002-1	R 6.										RRO						
PRC-002-1	R 7.										RRO						
PRC-002-1	R 8.										RRO						
PRC-003-1	R 1.										RRO						
PRC-003-1	R 1.1										RRO						
PRC-003-1	R 1.2										RRO						
PRC-003-1	R 1.3										RRO						
PRC-003-1	R 1.4										RRO						
PRC-003-1	R 2.										RRO						
PRC-004-1	R 1.		DP										TO				
PRC-004-1	R 2.			GO													
PRC-004-1	R 3.		DP	GO									TO				
PRC-005-1	R 1.		DP	GO									TO				
PRC-005-1	R 1.1		DP	GO									TO				
PRC-005-1	R 1.2		DP	GO									TO				
PRC-005-1	R 2.		DP	GO									TO				
PRC-005-1	R 2.1		DP	GO									TO				

Standard Number	Req. Number	BA	DP	GO	GOP	LSE	PA	PSE	RC	RP	RRO	RSG	TO	TOP	TP	TSP	NERC_Net
PRC-005-1	R 2.2		DP	GO									TO				
PRC-018-1	R 1.			GO									TO				
PRC-018-1	R 2.			GO									TO				
PRC-018-1	R 2.1			GO									TO				
PRC-018-1	R 2.2			GO									TO				
PRC-018-1	R 2.3			GO									TO				
PRC-018-1	R 2.4			GO									TO				
PRC-018-1	R 2.5			GO									TO				
PRC-018-1	R 2.6			GO									TO				
PRC-018-1	R 2.7			GO									TO				
PRC-018-1	R 2.8			GO									TO				
PRC-018-1	R 2.9			GO									TO				
PRC-018-1	R 3.			GO									TO				
PRC-018-1	R 4.			GO									TO				
PRC-018-1	R 5.			GO									TO				
PRC-019-1	R 1.										RRO						
PRC-019-1	R 2.			GO													
PRC-019-1	R 2.1			GO													
PRC-019-1	R 2.1.1			GO													
PRC-019-1	R 2.1.2			GO													
PRC-019-1	R 2.1.3			GO													
PRC-019-1	R 2.1.4			GO													
PRC-019-1	R 2.1.5			GO													
PRC-019-1	R 2.1.6			GO													
PRC-019-1	R 3			GO													
PRC-019-1	R 3.1			GO													
PRC-019-1	R 3.2			GO													
PRC-019-1	R 3.3			GO													

Standard Number	Req. Number	BA	DP	GO	GOP	LSE	PA	PSE	RC	RP	RRO	RSG	TO	TOP	TP	TSP	NERC_Net
PRC-019-1	R 3.4			GO													
PRC-020-1	R 1.										RRO						
PRC-020-1	R 1.1										RRO						
PRC-020-1	R 1.2										RRO						
PRC-020-1	R 1.2.1										RRO						
PRC-020-1	R 1.2.2										RRO						
PRC-020-1	R 1.2.3										RRO						
PRC-020-1	R 1.2.4										RRO						
PRC-020-1	R 1.2.5										RRO						
PRC-020-1	R 1.3										RRO						
PRC-020-1	R 2.										RRO						
PRC-021-1	R 1.		DP										TO				
PRC-021-1	R 1.1		DP										TO				
PRC-021-1	R 1.2		DP										TO				
PRC-021-1	R 1.3		DP										TO				
PRC-021-1	R 1.4		DP										TO				
PRC-021-1	R 1.5		DP										TO				
PRC-021-1	R 1.6		DP										TO				
PRC-021-1	R 1.7		DP										TO				
PRC-021-1	R 1.8		DP										TO				
PRC-021-1	R 2.		DP										TO				
PRC-022-1	R 1.		DP										TO				
PRC-022-1	R 1.1		DP										TO				
PRC-022-1	R 1.2		DP										TO				
PRC-022-1	R 1.3		DP										TO				
PRC-022-1	R 1.4		DP										TO				
PRC-022-1	R 1.5		DP										TO				
PRC-022-1	R 2.		DP										TO				

Standard Number	Req. Number	BA	DP	GO	GOP	LSE	PA	PSE	RC	RP	RRO	RSG	TO	TOP	TP	TSP	NERC_Net
(VAR-004) PRC-024-1	R 1.										RRO						
(VAR-004) PRC-024-1	R 1.1										RRO						
(VAR-004) PRC-024-1	R 1.2										RRO						
(VAR-004) PRC-024-1	R 1.3										RRO						
(VAR-004) PRC-024-1	R 2.										RRO						
(VAR-004) PRC-024-1	R2.1										RRO						
(VAR-004) PRC-024-1	R2.2										RRO						
(VAR-004) PRC-024-1	R 3.										RRO						
(VAR-004) PRC-024-1	R 4.										RRO						
(VAR-004) PRC-024-1	R 5.										RRO						
(VAR-004) PRC-024-1	R 6.										RRO						
(VAR-004) PRC-024-1	R 7.			GO									TO				