

Project 2007-17 Protection System Maintenance and Testing Mapping Document

Mapping Document Showing Translation of PRC-005-1b – Transmission and Generation Protection System Maintenance and Testing, PRC-008-0- Implementation and Documentation of Underfrequency Load Shedding Equipment Maintenance Program, PRC-011-0 – Undervoltage Load Shedding System Maintenance and Testing, and PRC-017-0 - Special Protection System Maintenance and Testing into PRC-005-2 – Protection System Maintenance.

Standard: PRC-005-1b - Trans	mission and Genera	tion Protection System Maintenance and Testing
Requirement in Approved Standard	Translation to New Standard or Other Action	Proposed Language in PRC-005-2 – Protection System Maintenance Or Comment
R1. Each Transmission Owner and any Distribution Provider that owns a transmission Protection System and each Generator Owner that owns a	PRC-005-2, R1 and PRC-005-2, R2	R1. Each Transmission Owner, Generator Owner, and Distribution Provider shall establish a Protection System Maintenance Program (PSMP) for its Protection Systems identified in Section 4.2.
generation Protection System shall have Protection System maintenance and testing	PRC-005-2, Tables 1-1 through 1-5,	The PSMP shall: 1.1. Identify which maintenance method (time-based, performance-based per
program for Protection Systems that affect the reliability of the BES. The program shall include:	Table 2, and Table 3.	PRC-005 Attachment A, or a combination) is used to address each Protection System Component Type.
R1.1. Maintenance and testing intervals and their basis. R1.2. Summary of		All batteries associated with the station dc supply Component Type of a Protection System shall be included in a time-based program as described in Table 1-4 and Table 3.
maintenance and testing procedures.		1.2. Include the applicable monitored Component attributes applied to each Protection System Component Type consistent with the maintenance intervals specified in Tables 1-1 through 1-5, Table 2, and Table 3 where monitoring is used to extend the maintenance intervals beyond

Standard: PRC-005-1b - Trans	mission and Genera	tion Protection System Maintenance and Testing
Requirement in Approved	Translation to	Proposed Language in PRC-005-2 – Protection
Standard	New Standard or	System Maintenance
	Other Action	Or Comment
		those specified for unmonitored Protection System Components.
		R2. Each Transmission Owner, Generator Owner, and Distribution Provider that uses performance-based maintenance intervals in its PSMP shall follow the procedure established in PRC-005 Attachment A to establish and maintain its performance- based intervals.
		See PRC-005-2 Tables 1-1 through 1-5, Table 2, and Table 3. The Tables establish prescribed maximum intervals and minimum maintenance activities, and, as such, the entity no longer needs to establish the basis for their intervals.
R2. Each Transmission Owner and any Distribution Provider that owns a transmission Protection System and each Generator Owner that owns a generation Protection System shall provide documentation of its Protection System maintenance and testing program and the implementation of that program to its Regional Reliability Organization on request (within 30 calendar days). The documentation of the program implementation shall include:	PRC-005-2, R3 PRC-005-2, R4, PRC-005-2, M3, PRC-005-2, M4 NERC Compliance Monitoring Enforcement Program Data Retention 1.3	R3. Each Transmission Owner, Generator Owner, and Distribution Provider that utilizes timebased maintenance programs shall maintain its Protection System Components that are included within the time-based maintenance program in accordance with the minimum maintenance activities and maximum maintenance intervals prescribed within Tables 1-1 through 1-5, Table 2, and Table 3. R4. Each Transmission Owner, Generator Owner, and Distribution Provider that utilizes performance-based maintenance programs in accordance with Requirement R2 shall implement and follow its PSMP for its Protection System Components that are included within the performance-based
R2.1. Evidence Protection System devices were maintained and tested within		program. The legacy requirement that the entity provide the program results to the RRO and NERC on

Standard: PRC-005-1b - Trans	mission and Genera	tion Protection System Maintenance and Testing
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the defined intervals. R2.2. Date each Protection		request is addressed in the NERC Compliance Monitoring Enforcement Program.
System device was last tested/maintained.		M3. Each Transmission Owner, Generator Owner, and Distribution Provider that utilizes time-based maintenance programs shall have evidence that it has maintained its Protection System Components included within its time-based program in accordance with Requirement R3. The evidence may include but is not limited to dated maintenance records, dated maintenance summaries, dated check-off lists, dated inspection records, or dated work orders.
		M4. Each Transmission Owner, Generator Owner, and Distribution Provider that utilizes a performance-based maintenance program in accordance with Requirement R2 shall have evidence that it has implemented the Protection System Maintenance Program for the Protection System Components included in its performance-based program in accordance with Requirement R4. The evidence may include but is not limited to dated maintenance records, dated maintenance summaries, dated check-off lists, dated inspection records, or dated work orders.
		1.3 Data Retention
		For Requirement R2, Requirement R3, Requirement R4, and Requirement R5, the Transmission Owner, Generator Owner, and Distribution Provider shall each keep documentation of the two most recent



Standard: PRC-005-1b - Transmission and Generation Protection System Maintenance and Testing			
Requirement in Approved	Translation to	Proposed Language in PRC-005-2 – Protection	
Standard	New Standard or	System Maintenance	
	Other Action	Or Comment	
		performances of each distinct maintenance activity for the Protection System Components, or all performances of each distinct maintenance activity for the Protection System Component since the previous scheduled audit date, whichever is longer.	

Standard: PRC-008-0 - Implementation and Documentation of Underfrequency Load Shedding Equipment Maintenance Program			
Requirement in Approved Standard	Translation to New Standard or Other Action	Proposed Language in PRC-005-2 – Protection System Maintenance or Comments	
R1. The Transmission Owner and Distribution Provider with a UFLS program (as required by its Regional Reliability Organization) shall have a UFLS equipment maintenance and testing program in place. This UFLS equipment maintenance and testing program shall include UFLS equipment identification, the schedule for UFLS equipment testing, and the schedule for UFLS equipment maintenance.	PRC-005-2, R1, R2, R3, R4, and Applicability 4.2.2 Tables 1-1 – 1-5, Table 2, and Table 3	See mapping of Requirements R1 and R2 for PRC-005-1 above. 4.2 Facilities 4.2.2 Protection Systems used for Underfrequency load-shedding systems installed per ERO Underfrequency load-shedding requirements. See PRC-005-2 Tables 1-1 through 1-5, Table 2, and Table 3. The Tables establish prescribed maximum intervals and minimum maintenance activities, and, as such, the entity no longer needs to establish the basis for their intervals.	
R2. The Transmission Owner and Distribution Provider with a UFLS program (as required by its Regional Reliability Organization) shall implement its UFLS equipment maintenance and testing program and shall provide UFLS maintenance and testing program results to its Regional Reliability Organization and NERC on request (within 30 calendar days).	PRC-005-2, R3, PRC-002, R4 PRC-005-2, M3, and PRC-005-2 M4 NERC Compliance Monitoring Enforcement Program	See mapping of Requirements R1 and R2 for PRC-005-1 above. The legacy requirement that the entity provide the program results to the RRO and NERC on request is addressed in the NERC Compliance Monitoring Enforcement Program.	

Standard: PRC-011-0 - Undervoltage Load Shedding System Maintenance and Testing			
Requirement in Approved Standard	Translation to New Standard or Other Action	Proposed Language in PRC-005-2 – Protection System Maintenance or Comments	
R1. The Transmission Owner and Distribution Provider that owns a UVLS system shall have a UVLS equipment maintenance and testing program in place. This program shall include: R1.1. The UVLS system identification which shall include but is not limited to: R1.1.1. Relays.	PRC-005-2, R1, PRC-005-2, R2, PRC-005-2, R3, PRC-005-2, R4, PRC-005-2 M3, PRC-005-2, M4, and PRC-005-2 Applicability 4.2.3	See mapping of Requirements R1, and R2 for PRC-005-1 above. 4.2 Facilities 4.2.3 Protection Systems used for undervoltage load-shedding systems installed to prevent system voltage collapse or voltage instability for BES reliability. See PRC-005-2 Tables 1-1 through 1-5, Table 2, and Table 3. The Tables establish prescribed maximum intervals and minimum maintenance activities, and, as such, the entity no longer needs	
R1.1.2. Instrument transformers.	Table 3	to establish the basis for their intervals.	
R1.1.3. Communications systems, where appropriate.	Data Retention 1.3	1.3 Data Retention For Requirement R2, Requirement R3,	
R1.1.4. Batteries.		Requirement R4, and Requirement R5, the Transmission Owner, Generator Owner, and	
R1.2. Documentation of maintenance and testing intervals and their basis.		Distribution Provider shall each keep documentation of the two most recent performances of each distinct maintenance	
R1.3. Summary of testing procedure.		activity for the Protection System Components, or all performances of each distinct maintenance	
R1.4. Schedule for system testing.		activity for the Protection System Component since the previous scheduled audit date, whichever is longer.	
R1.5. Schedule for system maintenance.			
R1.6. Date last tested/maintained.			
R2. The Transmission Owner and Distribution Provider that owns a UVLS system shall provide documentation of its	PRC-005-2, R3, PRC-002, R4 PRC-005-2, M3,	See mapping of Requirements R1 and R2 for PRC-005-1 above. The legacy requirement that the entity provide	



Standard: PRC-011-0 - Undervoltage Load Shedding System Maintenance and Testing			
Requirement in Approved Standard	Translation to New Standard or Other Action	Proposed Language in PRC-005-2 – Protection System Maintenance or Comments	
UVLS equipment maintenance and testing program and the implementation of that UVLS equipment maintenance and testing program to its Regional Reliability Organization and NERC on request (within 30 calendar days).	and PRC-005-2 M4 NERC Compliance Monitoring Enforcement Program	the program results to the RRO and NERC on request is addressed in the NERC Compliance Monitoring Enforcement Program	

R1. Translation to New Standard or Other Action R1. The Transmission Owner, Generator Owner, and Distribution Provider that owns an SPS shall have a system maintenance and testing program(s) in place. The program(s) shall include: R1.1. Relays. R1.1.1. Relays. R1.1.2. Instrument transformers. R1.1.3. Communications systems, where appropriate. R1.1.4. Batteries. R1.2. Documentation of maintenance and testing intervals and their basis. R1.3. Summary of testing procedure. R1.4. Schedule for system maintenance. R1.5. Schedule for system maintenance. R1.6. Date last tested/maintained.	Standard: PRC-017-0 - Special Protection System Maintenance and Testing			
R1. The Transmission Owner, Generator Owner, and Distribution Provider that owns an SPS shall have a system maintenance and testing program(s) in place. The program(s) shall include but is not limited to: R1.1.1. Relays. R1.1.2. Instrument transformers. R1.1.4. Batteries. R1.2. Documentation of maintenance and testing intervals and their basis. R1.3. Summary of testing procedure. R1.4. Schedule for system testing. R1.5. Schedule for system maintenance. R1.5. Schedule for system maintenance. R1.6. Date last	•		Proposed Language in PRC-005-2 – Protection	
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Standard: PRC-017-0 - Special Protection System Maintenance and Testing			
Requirement in Approved Standard	Translation to New Standard or Other Action	Proposed Language in PRC-005-2 – Protection System Maintenance Or Comment	
R2. The Transmission Owner, Generator Owner, and Distribution Provider that owns an SPS shall provide documentation of the program and its implementation to the appropriate Regional Reliability Organizations and NERC on request (within 30 calendar days).	PRC-005-2, R3, PRC-002, R4 PRC-005-2, M3, and PRC-005-2 M4 NERC Compliance Monitoring Enforcement Program	See mapping of Requirements R1 and R2 for PRC-005-1 above. The legacy requirement that the entity provide the program results to the RRO and NERC on request is addressed in the NERC Compliance Monitoring Enforcement Program	