

TRANSMISSION PROTECTION SYSTEM MAINTENANCE
MAINTENANCE TEMPLATE

AM-CE-P034-R1031
Rev. 2

Revisions to this document shall be communicated in accordance with program document AM-EU-P034 to ensure alignment between Maintenance Templates and field work procedures.

This document contains specific content that has been or will be used as "Evidence of Compliance" for regulatory audits. Any person(s) making revisions to this document shall contact the T&S Engineering Manager, T&S Compliance Analyst and the Exelon NERC Compliance and Security NERC Compliance Management Team (NERC CMT) to inform them of proposed revisions (Outlook address of Exelon NERC CMT O&P Compliance). A representative of the NERC CMT shall be included as a "reviewer" of any proposed revisions to this document. This document is related to NERC Standard PRC-005-6. Maintenance Tasks and Task Frequencies shown below shall align with the applicable Protection System Maintenance Program for items covered under the PRC-005-6 Reliability Standard and it is the responsibility of the document writer to ensure the documents remain synchronized.

Transmission Protection System Maintenance (1 of 3)
(Includes Lines, Busses, and Breakers >= 69kV, BES Transformers & BES Reactive Reserves)
Scope and Frequency of Preventive and Predictive Tasks to be Performed

Equipment Type	Preventive or Predictive Task	Task Frequencies*	Criticality				Comments
			I Nuclear Switchyard (as defined in the respective NPIRs) Includes Remedial Action Schemes	II BES Protective Relay Systems w/Automatic Reclosing subject to PRC-005-6 Includes Remedial Action Schemes	III All other BES Protective Relay Systems Includes Remedial Action Schemes	IV Non-BES Transmission Protective Relay Systems	
Component Type - Protective Relay	Verify Protective Relay settings are as specified	Unmonitored Monitored ⑤	4Y ① 8Y ②	X X	X X	X X	
	Non-Microprocessor Relays Only: Test and, if necessary calibrate the relay(s)	Unmonitored Monitored ⑤	4Y ① N/A	X X	X X	X X	Task not required for monitored microprocessor protective relay with monitoring attributes⑥ in PRC-005-6 Table 1-1
	Microprocessor Relays Only: Verify operation of the relay inputs and outputs essential to proper functioning of the Protection System	Unmonitored Monitored ⑤	4Y ① 8Y ②	X X	X X	X X	
	Microprocessor Relays Only: Verify acceptable measurement of power system input values	Unmonitored Monitored ⑤	4Y ① 8Y ②	X X	X X	X X	For monitored microprocessor protective relay with monitoring attributes⑥ in PRC-005-6 Table 1-1, verify only the unmonitored relay inputs and outputs that are essential to proper functioning of the Protection System
							Task not required for monitored microprocessor protective relay with monitoring attributes⑥ in PRC-005-6 Table 1-1
Component Type - Voltage and Current Sensing Devices Providing Inputs to Protective Relays	Verify current and voltage signals are provided to the protective relays	Unmonitored Monitored	9Y ① Not Required	X X	X X		Task may be bundled in conjunction with equipment outage schedule to minimize additional outages.
							Task not required for Voltage and Current Sensing devices connected to microprocessor relays with ac measurements that are continuously verified by comparison of sensing input value, as measured by the microprocessor relay, to an independent ac measurement source, with alarming for unacceptable error or failure
Component Type - Control Circuitry Associated with Protective Functions <i>Excludes Control Circuitry associated with Reclosing and Supervisory Relays.</i>	Verify that each trip coil is able to operate the circuit breaker, interrupting device, or mitigating device		4Y ①	X	X	X	
	Verify electrical operation of electromechanical lockout devices		4Y ①	X	X	X	Includes electromechanical lockout devices which are directly in a trip path from the fault pressure relay to the interrupting device trip coil.
	Verify all paths of the control circuits essential for proper operation of the Remedial Action Scheme (RAS)	Unmonitored Monitored	9Y ① Not Required	X X	X X	X X	Task may be bundled in conjunction with equipment outage schedule to minimize additional outages.
	Verify all paths of the trip circuits inclusive of all auxiliary relays through the trip coil(s) of the circuit breaker or other interrupting devices	Unmonitored Monitored	9Y ① Not Required	X X	X X	X X	Task may be bundled in conjunction with equipment outage schedule to minimize additional outages. Includes unmonitored control circuitry associated with Sudden Pressure Relaying. Task not required for control circuitry associated with protective functions (including Sudden Pressure Relaying) and/or RAS whose integrity is monitored and alarmed
Alarming Paths and Monitoring <i>Required per PRC-005-6 where Tables 1-1 through 1-5, Table 3, Table 4-1 through 4-3, and Table 5 alarm attributes are used to justify extended maximum maintenance intervals and/or reduced maintenance activities.</i>	Verify operation and reset of Protective Relay internal alarms and power supply fail alarms from the point of origin to the dispatcher or SCADA system logging database		8Y ②				For Unmonitored Component Type - Protective Relay, good utility practice but not required for PRC-005-6 standard. Task not required for Alarm Path with monitoring if location where corrective action is taken receives an alarm within 24 hours for failure of any portion of the alarming path from the alarm origin to the location where corrective action can be initiated.
	Verify operation and reset of loss of function alarms from the point of origin to the dispatcher or SCADA system logging database (Communication Systems)		8Y ②	X	X	X	Required for all ComEd Communications Systems with continuous monitoring or periodic automated testing for the presence of the channel function, and alarming for loss of function where Communications Systems task "Verify Communication system is functional" is extended from "3M" to "Not Required". For all other instances, good utility practice but not required for PRC-005-6 standard. Task not required for Alarm Path with monitoring in locations where corrective action is taken receives an alarm within 24 hours for failure of any portion of the alarming path from the alarm origin to the location where corrective action can be initiated.

*All intervals are performed with a 25% Grace Period unless otherwise noted. With grace period included, all task frequencies are within the maximum maintenance intervals as required by PRC-005-6. Some tasks may be bundled in conjunction with equipment outage schedules.

① For items covered under the PRC-005-6 Reliability Standard, interval is 4Y but not to exceed the Maximum Maintenance Interval of 6 calendar years.

② For items covered under the PRC-005-6 Reliability Standard, interval is 8Y but not to exceed the Maximum Maintenance Interval of 12 calendar years.

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③ For items covered under the PRC-005-6 Reliability Standard, interval is 9Y but not to exceed the Maximum Maintenance Interval of 12 calendar years.

④ For items covered under the PRC-005-6 Reliability Standard, interval is 3M but not to exceed the Maximum Maintenance Interval of 4 calendar months.

⑤ Monitored microprocessor protective relay with the following monitoring attributes: Internal self-diagnosis and alarming; Voltage and/or current waveform sampling three or more times per power cycle, and conversion of samples to numeric values for measurement calculations by microprocessor electronics; Alarming for power supply failure

⑥ Monitored microprocessor protective relay with all monitoring attributes from ⑤ and the following monitoring attributes: Ac measurements are continuously verified by comparison to an independent ac measurement source, with alarming for excessive error; Some or all binary or status inputs and control outputs are monitored by a process that continuously demonstrates ability to perform as designed, with alarming for failure; Alarming for change of settings

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Transmission Protection System Maintenance (2 of 3)
(Includes Lines, Busses, and Breakers >= 69kV, BES Transformers & BES Reactive Reserves)
Scope and Frequency of Preventive and Predictive Tasks to be Performed

Equipment Type	Preventive or Predictive Task	Task Frequencies	Criticality				Comments	
			I	II	III	IV		
			Nuclear Switchyard (as defined in the respective NPIRs) Includes Remedial Action Schemes	BES Protective Relay Systems w/Automatic Reclosing subject to PRC-005-6 Includes Remedial Action Schemes	All other BES Protective Relay Systems Includes Remedial Action Schemes	Non-BES Transmission Protective Relay Systems		
Component Type - Communications Systems	Verify Communication system is functional	Unmonitored Monitored ⑥	3M ④ Not Required		X X	X X		
	Verify Communication System meets performance criteria pertinent to the communication technology applied	Unmonitored Monitored ⑥	4Y ④ 8Y ②		X X	X X	Task may be bundled in conjunction with equipment outage schedule to minimize additional outages. Required for all ComEd BES Communications Systems without continuous monitoring or periodic automated testing for the presence of the channel function, and alarming for loss of function. Task not required for any Monitored communication system with all of the following monitoring attributes: * Continuous monitoring or periodic automated testing for the performance of the channel using criteria pertinent to the communications technology applied (e.g. signal level, reflected power, or data error rate, and alarming for excessive performance degradation) * Some or all binary or status inputs and control outputs are monitored by a process that continuously demonstrates ability to perform as designed, with alarming for failure	
	Verify operation of communications system inputs and outputs that are essential to proper functioning of the Protection System	Unmonitored Monitored ⑥	4Y ④ 8Y ②		X X	X X	Task may be bundled in conjunction with equipment outage schedule to minimize additional outages. Required for all ComEd BES Communications Systems without continuous monitoring or periodic automated testing for the presence of the channel function, and alarming for loss of function. Verify only the unmonitored communication system inputs and outputs that are essential to the proper functioning of the Protection System for any Monitored communication system with all of the following monitoring attributes: * Continuous monitoring or periodic automated testing for the performance of the channel using criteria pertinent to the communications technology applied (e.g. signal level, reflected power, or data error rate, and alarming for excessive performance degradation) * Some or all binary or status inputs and control outputs are monitored by a process that continuously demonstrates ability to perform as designed, with alarming for failure	
	Wavetrap Impedance Characteristic Verification		12Y	X	X	X	X	Not required for PRC-005-6 standard.

*All intervals are performed with a 25% Grace Period unless otherwise noted. With grace period included, all task frequencies are within the maximum maintenance intervals as required by PRC-005-6. Some tasks may be bundled in conjunction with equipment outage schedules.

- ① For items covered under the PRC-005-6 Reliability Standard, interval is 4Y but not to exceed the Maximum Maintenance Interval of 6 calendar years.
- ② For items covered under the PRC-005-6 Reliability Standard, interval is 8Y but not to exceed the Maximum Maintenance Interval of 12 calendar years.
- ③ For items covered under the PRC-005-6 Reliability Standard, interval is 9Y but not to exceed the Maximum Maintenance Interval of 12 calendar years.
- ④ For items covered under the PRC-005-6 Reliability Standard, interval is 3M but not to exceed the Maximum Maintenance Interval of 4 calendar months.
- ⑥ Any communications system with continuous monitoring or periodic automated testing for the presence of the channel function, and alarming for loss of function

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Transmission Protection System Maintenance (3 of 3)
(Includes Lines, Busses, and Breakers >= 69kV, BES Transformers & BES Reactive Reserves)
Scope and Frequency of Preventive and Predictive Tasks to be Performed

Equipment Type	Preventive or Predictive Task	Task Frequencies	Criticality				Comments	
			I Nuclear Switchyard (as defined in the respective NPIRs) Includes Remedial Action Schemes	II BES Protective Relay Systems w/Automatic Reclosing subject to PRC-005-6 Includes Remedial Action Schemes	III All other BES Protective Relay Systems Includes Remedial Action Schemes	IV Non-BES Transmission Protective Relay Systems		
Component Type - Reclosing and Supervisory Relay	Verify Reclosing and Supervisory Relay settings are as specified	Unmonitored Monitored ②	4Y ③ 8Y ③	X X	X X			
	Non-Microprocessor Reclosing or Supervisory Relays Only: Test and, if necessary calibrate the relay(s)	Unmonitored Monitored ②	4Y ③ N/A	X X	X X		Task not required for monitored microprocessor reclosing relay or supervisory relay with monitoring attributes in PRC-005-6 Table 4-1	
	Microprocessor Reclosing or Supervisory Relays Only: Verify operation of the relay inputs and outputs that are essential to proper functioning of the Automatic Reclosing	Unmonitored Monitored ②	4Y ③ 8Y ③	X X	X X		For monitored microprocessor reclosing relay or supervisory relay with monitoring attributes in PRC-005-6 Table 4-1, verify only the unmonitored relay inputs and outputs that are essential to proper functioning of the Automatic Reclosing	
	Microprocessor Reclosing or Supervisory Relays Only: Verify acceptable measurement of power system input values	Unmonitored Monitored ②	4Y ③ 8Y ③	X X	X X		Task is not required for microprocessor reclosing relays that have no power system input measurements. Task not required for monitored microprocessor reclosing relay or supervisory relay with monitoring attributes in PRC-005-6 Table 4-1	
	Verify that Automatic Reclosing, upon initiation, does not issue a premature closing command to the close circuitry	Unmonitored Monitored	9Y ③ Not Required	X X	X X		Only applies to control circuitry associated with Reclosing and Supervisory Relays that are NOT an integral part of a Remedial Action Scheme. Task may be bundled in conjunction with equipment outage schedule to minimize additional outages. Task not required for control circuitry associated with Automatic Reclosing that is not part of an RAS and is monitored and alarmed for conditions that would result in a premature closing command	
	Verify that each close coil or actuator is able to operate the circuit breaker or mitigating device	Unmonitored Monitored	4Y ③ Not Required	X X	X X		Only applies to control circuitry associated with Reclosing and Supervisory Relays that ARE an integral part of a Remedial Action Scheme. Task may be bundled in conjunction with equipment outage schedule to minimize additional outages. Task not required for control circuitry associated with Automatic Reclosing that is an integral part of a RAS whose integrity is monitored and alarmed	
Component Type - Voltage Sensing Devices Associated with Supervisory Relays	Verify that voltage signal values are provided to the supervisory relays	Unmonitored Monitored	9Y ③ Not Required	X X	X X		Task may be bundled in conjunction with equipment outage schedule to minimize additional outages. Task not required for voltage sensing devices that are connected to microprocessor supervisory relay with ac measurements that are continuously verified by comparison of sensing input value, as measured by the microprocessor relay, to an independent ac measurement source, with alarming for unacceptable error or failure	
Protection System - Sudden Pressure Relaying	Verify the pressure or flow sensing mechanism is operable	Unmonitored	4Y ③	X	X	X	X	Includes main tank and LTC, where installed.

*All intervals are performed with a 25% Grace Period unless otherwise noted. With grace period included, all task frequencies are within the maximum maintenance intervals as required by PRC-005-6. Some tasks may be bundled in conjunction with equipment outage schedules.

① For items covered under the PRC-005-6 Reliability Standard, interval is 4Y but not to exceed the Maximum Maintenance Interval of 6 calendar years.

② For items covered under the PRC-005-6 Reliability Standard, interval is 8Y but not to exceed the Maximum Maintenance Interval of 12 calendar years.

③ For items covered under the PRC-005-6 Reliability Standard, interval is 9Y but not to exceed the Maximum Maintenance Interval of 12 calendar years.

④ Monitored microprocessor reclosing relay or supervisory relay with the following monitoring attributes: Internal self-diagnosis and alarming; Alarming for power supply failure; For supervisory relay: Voltage waveform sampling three or more times per power cycle, and conversion of samples to numeric values for measurement calculations by microprocessor electronics

⑤ Monitored microprocessor reclosing relay or supervisory relay with all monitoring attributes from ④ and the following monitoring attributes: Some or all binary or status inputs and control outputs are monitored by a process that continuously demonstrates ability to perform as designed, with alarming for failure; Alarming for change of settings; For supervisory relay: Ac measurements are continuously verified by comparison to an independent ac measurement source, with alarming for excessive error

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TASK	DEFINITION
Microprocessor Protective Relays Only: Verify acceptable measurement of power system input values	Verifies integrity of relay's AC input circuitry. Each utilized power system input is checked by either applying test signals or using actual power system signals to verify protective relay receives the power system inputs per design.
Microprocessor Protective Relays Only: Verify operation of the relay inputs and outputs essential to proper functioning of the Protection System	Verifies integrity of relay's DC input and output circuitry. Each utilized control input and output is checked to verify it operates per design. Multiple contacts in series are checked to verify that operation of one contact does not initiate an input.
Non-Microprocessor Protective Relays Only: Test and, if necessary calibrate the relay(s)	This task is to ensure that the relay is set as specified within allowable tolerance. If a relay element is out of tolerance, it could impact relay fault isolation, relay coordination, and must be calibrated within allowable tolerance or replaced as part of this task.
Verify the pressure or flow sensing mechanism is operable	Ensure sudden pressure relay or Beta switch will operate when called upon to do so.
Verify all paths of the control circuits essential for proper operation of the Remedial Action Scheme (RAS)	Verifies all paths of the control circuits essential for proper operation of the Remedial Action Scheme (RAS). If an essential RAS control circuit fails to operate as designed, it could impact fault isolation, relay coordination, or Breaker Failure operations.
Verify all paths of the trip circuits inclusive of all auxiliary relays through the trip coil(s) of the circuit breaker or other interrupting devices	Verifies all paths (including Sudden Pressure Relaying control circuitry) of the trip circuits inclusive of all auxiliary relays through the trip coil(s) of the circuit breakers or other interrupting devices. If an external trip or a trip coil fails to operate power system interrupting device(s), it could impact fault isolation, relay coordination, or Breaker Failure operations.
Verify Communication System is functional	This assures that the communication equipment is functionally performing as dictated by the interface equipment. Assures that the output contacts are operational.
Verify Communication System meets performance criteria pertinent to the communication technology applied	Ensures Communication System meets performance criteria (examples may include but not limited to signal level, reflected power, or data error rate).
Verify current and voltage signals are provided to the protective relays	Ensures current and potential transformers supply accurate inputs into protective relaying as well as verifies integrity of circuitry associated with CTs and PTs. An inaccurate CT/PT or failed CT/PT circuitry could cause a relay misoperation (trip in error or fail to trip), impact reclosing, and/or provide inaccurate real-time metering to SCADA systems.
Verify electrical operation of electromechanical lockout devices	Verifies electrical operation of electromechanical lockout device (including electromechanical lockout devices which are directly in a trip path from the fault pressure relay to the interrupting device trip coil). If lockout device fails to operate, it could impact fault isolation, relay coordination, or Breaker Failure operations.
Verify operation and reset of loss of function alarms from the point of origin to the dispatcher or SCADA system logging database	Verifies integrity of relay alarm contact(s) and circuitry by simulating alarm conditions and verifying alarm was received in SCADA. An undetected relay fail alarm or relay major and/or minor alarm could cause a relay misoperation as well as impact relay coordination, reclosing, or Breaker Failure operations.
Verify operation and reset of Protective Relay internal alarms and power supply fail alarms from the point of origin to the dispatcher or SCADA system logging database	Verifies integrity of relay alarm contact(s) and circuitry by simulating alarm conditions and verifying alarm was received in SCADA. An undetected relay fail alarm or relay major and/or minor alarm could cause a relay misoperation as well as impact relay coordination, reclosing, or Breaker Failure operations.
Verify operation of Communication System inputs and outputs associated with proper function of the Protection System	Assures communication equipment is functionally performing as dictated by the interface equipment. Assures output contacts are operational.
Verify Protective Relay settings are as specified	Verifies that the protective relay settings be as specified at the conclusion of maintenance activities, whether those settings may have "drifted" since the prior maintenance or whether changes were made as part of the testing process.
Verify that each trip coil is able to operate the circuit breaker, interrupting device, or mitigating device	Verify that each trip coil is able to operate the circuit breaker, interrupting device, or mitigating device. If an external trip or a trip coil fails to operate power system interrupting device(s), it could impact fault isolation, relay coordination, or Breaker Failure operations.
Wavetrap Impedance Characteristic Verification	Equipment is isolated from transmission line and the impedance characteristic is verified.

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Verify Reclosing and Supervisory Relay settings are as specified	Verifies that the Reclosing and Supervisory Relay settings be as specified at the conclusion of maintenance activities, whether those settings may have "drifted" since the prior maintenance or whether changes were made as part of the testing process.
Non-Microprocessor Reclosing or Supervisory Relays Only: Test and, if necessary calibrate the relay(s)	This task is to ensure that the relay is set as specified within allowable tolerance. If a relay element is out of tolerance, it could impact breaker or device reclosing, system synchronization or supervisory operations, and must be calibrated within allowable tolerance or replaced as part of this task.
Microprocessor Reclosing or Supervisory Relays Only: Verify operation of the relay inputs and outputs that are essential to proper functioning of the Automatic Reclosing	Verifies integrity of relay's DC input and output circuitry. Each utilized control input and output is checked to verify it operates per design. Multiple contacts in series are checked to verify that operation of one contact does not initiate an input.
Microprocessor Reclosing or Supervisory Relays Only: Verify acceptable measurement of power system input values	Verifies integrity of relay's AC input circuitry. Each utilized power system input is checked by either applying test signals or using actual power system signals to verify reclosing or supervisory relay receives the power system inputs per design.
Verify that Automatic Reclosing, upon initiation, does not issue a premature closing command to the close circuitry	Verifies proper coordination with downstream devices during Automatic Reclosing events. Issuing a premature closing command to the close circuitry could impact breaker or device coordination.
Verify that each close coil or actuator is able to operate the circuit breaker or mitigating device	Verify that each close coil is able to operate the circuit breaker, interrupting device, or mitigating device. If an external close or a close coil fails to operate power system interrupting device(s), it could impact breaker or device reclosing, system synchronization, or supervisory operations.
Verify all paths of the control circuits associated with Automatic Reclosing that are essential for proper operation of the Remedial Action Scheme (RAS)	Verifies all paths of the control circuits associated with Automatic Reclosing that are essential for proper operation of the Remedial Action Scheme (RAS). If an essential RAS control circuit fails to operate as designed, it could impact breaker or device reclosing, system synchronization, or supervisory operations.
Verify that voltage signal values are provided to the supervisory relays	Ensures potential transformers (PTs) supply accurate inputs into supervisory relaying as well as verifies integrity of circuitry associated with PTs. An inaccurate PT or failed PT circuitry could impact breaker or device reclosing, system synchronization, or supervisory operations.

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Transmission Protection System Maintenance Template Summary

Transmission Protection System maintenance programs are documented in the individual utility's Protection System Maintenance Program. Templates have been developed that address transmission, substation, and distribution equipment that is owned and maintained by Exelon Utilities. Each template documents the program tasks, frequencies, and maintenance basis for the associated equipment.

References:

NERC Standard PRC-005-6 - Protection System, Automatic Reclosing, and Sudden Pressure Relaying Maintenance
ComEd Protection System Maintenance Program

Boundary Definitions

The boundary of Protection System, Automatic Reclosing, and Sudden Pressure Relaying for the purpose of this document is defined to include the applicable component types for protection systems under PRC-005-6. All Maintenance Activities and Intervals for distributed UFLS and distributed UVLS Systems are excluded from this document and documented in the Underfrequency Load Shed & Undervoltage Load Shed Maintenance Template, AM-CE-P034-R0003.

Failure Experiences

n/a

Vendor Recommendations

n/a

Disposition of Vendor Recommendations

n/a

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Basis for BES Maintenance Tasks

Maintenance tasks and intervals established to comply with PRC-005-6 Protection System, Automatic Reclosing, and Sudden Pressure Relaying Maintenance standard so that these systems are kept in working order.

Basis for Non-BES Maintenance Tasks

Maintenance tasks and intervals are generally similar to BES maintenance as recommended by the NERC PRC-005-6 Reliability Standard, except for the differences noted in the Maintenance Template.

**TRANSMISSION PROTECTION SYSTEM MAINTENANCE
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Revision 0		Date 3/27/2015
Writer	Kevin Swiat (ComEd)	
Reviewer(s)	Dan Wasilewski (ComEd), Ken Wendt (ComEd), David Carlson (EU TS&C)	
Approver(s)	Michael Moy (ComEd)	
Reason Written	New template created to document PRC-005-2 Protection System Maintenance Program.	

Revision 1		Date 12/31/2016
Writer	Kevin Swiat (ComEd)	
Reviewer(s)	Dan Wasilewski (ComEd); Ruth Miller (EU TS&C)	
Approver(s)	Michael Moy (ComEd UFAM)	
Reason Written	Revision to incorporate changes from PRC-005-6. Revised wording for Sudden Pressure Relay testing and specified tasks and frequencies for Automatic Reclosing Components (Reclosing and Supervisory Relays). NERC Review Complete.	

Revision 2		Date 12/31/2018
Writer	Kevin Swiat (ComEd - Material Condition)	
Reviewer(s)	Martin Copello - (ComEd - Relay & Protection Engineering), Daniel Gacek (EU - NERC CMT)	
Approver(s)	Michael Moy - Director Asset Performance	
Reason Written	Reformatted maintenance template tab from standard format to custom format to simplify documentation of maintenance applied to Transmission Protection Systems; Added comments where applicable to align maintenance template with required component attributes to extend or eliminate maintenance per PRC-005-6; Completed 2-year review. NERC Review Complete.	