

## Mapping Document

### Project 2019-04 Modifications to PRC-005-6

Standard: PRC-005-7		
Requirement in Approved Standard	Translation to New Standard or Other Action	Description and Change Justification
<p>PRC-005-6, Requirement R1</p> <p>Each Transmission Owner, Generator Owner, and Distribution Provider shall establish a Protection System Maintenance Program (PSMP) for its Protection Systems, Automatic Reclosing, and Sudden Pressure Relaying identified in Section 4.2, Facilities. <i>[Violation Risk Factor: Medium] [Time Horizon: Operations Planning]</i></p> <p>The PSMP shall:</p> <p><b>1.1.</b> Identify which maintenance method (time-based, performance-based per PRC-005 Attachment A, or a combination) is used to address each Protection System, Automatic Reclosing, and Sudden Pressure Relaying Component Type. All batteries associated with the station dc supply Component Type of a Protection System shall be included</p>	<p>PRC-005-7, Requirement R1</p> <p>Each Transmission Owner, Generator Owner, Distribution Provider, and UFLS-only Distribution Provider shall establish a Protection System Maintenance Program (PSMP) for its Protection Systems, Automatic Reclosing, and Sudden Pressure Relaying identified in Section 4.2, Facilities. <i>[Violation Risk Factor: Medium] [Time Horizon: Operations Planning]</i></p> <p>The PSMP shall:</p> <p><b>1.1</b> Identify which maintenance method (time-based, performance-based per PRC-005 Attachment A, or a combination) is used to address each Protection System, Automatic Reclosing, and Sudden Pressure Relaying Component Type. All batteries associated with the station dc supply Component Type of a</p>	<p>To include entities registered as UFLS-only Distribution Providers for consistency with changes made to NERC's FERC-approved Risk-Based Registration.</p>

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<p>in a time-based program as described in Table 1-4 and Table 3.</p> <p><b>1.2.</b> Include the applicable monitored Component attributes applied to each Protection System, Automatic Reclosing, and Sudden Pressure Relaying Component Type consistent with the maintenance intervals specified in Tables 1-1 through 1-5, Table 2, Table 3, Table 4-1 through 4-3, and Table 5 where monitoring is used to extend the maintenance intervals beyond those specified for unmonitored Protection System, Automatic Reclosing, and Sudden Pressure Relaying Components.</p>	<p>Protection System shall be included in a time-based program as described in Table 1-4 and Table 3.</p> <p><b>1.2</b> Include the applicable monitored Component attributes applied to each Protection System, Automatic Reclosing, and Sudden Pressure Relaying Component Type consistent with the maintenance intervals specified in Tables 1-1 through 1-5, Table 2, Table 3, Table 4-1 through 4-3, and Table 5 where monitoring is used to extend the maintenance intervals beyond those specified for unmonitored Protection System, Automatic Reclosing, and Sudden Pressure Relaying Components.</p>	
<p>PRC-005-6, Measure M1</p> <p>Each Transmission Owner, Generator Owner and Distribution Provider shall have a documented PSMP in accordance with</p>	<p>PRC-005-7, Measure M1</p> <p>Each Transmission Owner, Generator Owner, Distribution Provider and UFLS-only Distribution Provider shall have a</p>	<p>To include entities registered as UFLS-only Distribution Providers for consistency with</p>

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<p>Requirement R1.</p> <p>For each Protection System, Automatic Reclosing, and Sudden Pressure Relaying Component Type, the documentation shall include the type of maintenance method applied (time-based, performance-based, or a combination of these maintenance methods), and shall include all batteries associated with the station dc supply Component Types in a time-based program as described in Table 1-4 and Table 3. (Part 1.1)</p> <p>For Component Types that use monitoring to extend the maintenance intervals, the responsible entity(s) shall have evidence for each Protection System, Automatic Reclosing, and Sudden Pressure Relaying Component Type (such as manufacturer’s specifications or engineering drawings) of the appropriate monitored Component attributes as specified in Tables 1-1 through 1-5, Table 2, Table 3, Table 4-1 through 4-3, and Table 5. (Part 1.2)</p>	<p>documented PSMP in accordance with Requirement R1.</p> <p>For each Protection System, Automatic Reclosing, and Sudden Pressure Relaying Component Type, the documentation shall include the type of maintenance method applied (time-based, performance-based, or a combination of these maintenance methods), and shall include all batteries, non-battery based energy storage associated with the dc supply Component Types in a time-based program as described in Table 1-4 and Table 3. (Part 1.1)</p> <p>For Component Types that use monitoring to extend the maintenance intervals, the responsible entity(s) shall have evidence for each Protection System, Automatic Reclosing, and Sudden Pressure Relaying Component Type (such as manufacturer’s specifications or engineering drawings) of the appropriate monitored Component attributes as specified in Tables 1-1 through</p>	<p>changes made to NERC’s FERC-approved Risk-Based Registration.</p> <p>To include non-battery based energy storage and alternative electro-chemical based energy storage.</p>

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	1-5, Table 2, Table 3, Table 4-1 through 4-3, and Table 5. (Part 1.2).	
<p>PRC-005-6, Requirement R2</p> <p>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.</p>	<p>PRC-005-7, Requirement R2</p> <p>Each Transmission Owner, Generator Owner, Distribution Provider and UFLS-only 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.</p>	<p>To include entities registered as UFLS-only Distribution Providers for consistency with changes made to NERC’s FERC-approved Risk-Based Registration.</p>
<p>PRC-005-6, Measure M2</p> <p>Each Transmission Owner, Generator Owner, and Distribution Provider that uses performance-based maintenance intervals shall have evidence that its current performance-based maintenance program(s) is in accordance with Requirement R2, which may include, but is not limited to, Component lists, dated maintenance records, and dated analysis records and results.</p>	<p>PRC-005-7, Measure M2</p> <p>Each Transmission Owner, Generator Owner, Distribution Provider and UFLS-only Distribution Provider that uses performance-based maintenance intervals shall have evidence that its current performance-based maintenance program(s) is in accordance with Requirement R2, which may include, but is not limited to, Component lists, dated</p>	<p>To include entities registered as UFLS-only Distribution Providers for consistency with changes made to NERC’s FERC-approved Risk-Based Registration.</p>

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	maintenance records, and dated analysis records and results.	
<p>PRC-005-6, Requirement R3</p> <p>Each Transmission Owner, Generator Owner, and Distribution Provider that utilizes time-based maintenance program(s) shall maintain its Protection System, Automatic Reclosing, and Sudden Pressure Relaying 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, Table 3, Table 4-1 through 4-3, and Table 5.</p>	<p>PRC-005-7, Requirement R3</p> <p>Each Transmission Owner, Generator Owner, Distribution Provider and UFLS-only Distribution Provider that utilizes time-based maintenance program(s) shall maintain its Protection System, Automatic Reclosing, and Sudden Pressure Relaying 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, Table 3, Table 4-1 through 4-3, and Table 5.</p>	<p>To include entities registered as UFLS-only Distribution Providers for consistency with changes made to NERC’s FERC-approved Risk-Based Registration.</p>
<p>PRC-005-6, Measure M3</p> <p>Each Transmission Owner, Generator Owner, and Distribution Provider that utilizes time-</p>	<p>PRC-005-7, Measure M3</p> <p>Each Transmission Owner, Generator Owner, Distribution Provider and UFLS-only</p>	<p>To include entities registered as UFLS-only Distribution Providers for consistency with</p>

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<p>based maintenance program(s) shall have evidence that it has maintained its Protection System, Automatic Reclosing, and Sudden Pressure Relaying 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.</p>	<p>Distribution Provider that utilizes time-based maintenance program(s) shall have evidence that it has maintained its Protection System, Automatic Reclosing, and Sudden Pressure Relaying 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.</p>	<p>changes made to NERC's FERC-approved Risk-Based Registration.</p>
<p>PRC-005-6, Requirement R4</p> <p>Each Transmission Owner, Generator Owner, and Distribution Provider that utilizes performance-based maintenance program(s) in accordance with Requirement R2 shall implement and follow its PSMP for its Protection System, Automatic Reclosing, and Sudden Pressure Relaying Components that are included within the performance-based program(s).</p>	<p>PRC-005-7, Requirement R4</p> <p>Each Transmission Owner, Generator Owner, Distribution Provider and UFLS-only Distribution Provider that utilizes performance-based maintenance program(s) in accordance with Requirement R2 shall implement and follow its PSMP for its Protection System, Automatic Reclosing, and Sudden Pressure Relaying Components</p>	<p>To include entities registered as UFLS-only Distribution Providers for consistency with changes made to NERC's FERC-approved Risk-Based Registration.</p>

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	that are included within the performance-based program(s).	
<p>PRC-005-6, Measure M4</p> <p>Each Transmission Owner, Generator Owner, and Distribution Provider that utilizes performance-based maintenance intervals in accordance with Requirement R2 shall have evidence that it has implemented the PSMP for the Protection System, Automatic Reclosing, and Sudden Pressure Relaying 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.</p>	<p>PRC-005-7, Measure M4</p> <p>Each Transmission Owner, Generator Owner, Distribution Provider and UFLS-only Distribution Provider that utilizes performance-based maintenance intervals in accordance with Requirement R2 shall have evidence that it has implemented the PSMP for the Protection System, Automatic Reclosing, and Sudden Pressure Relaying 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.</p>	<p>To include entities registered as UFLS-only Distribution Providers for consistency with changes made to NERC's FERC-approved Risk-Based Registration.</p>
<p>PRC-005-6, Requirement R5</p> <p>Each Transmission Owner, Generator Owner, and Distribution Provider shall demonstrate</p>	<p>PRC-005-7, Requirement R5</p> <p>Each Transmission Owner, Generator Owner, Distribution Provider and UFLS-only</p>	<p>To include entities registered as UFLS-only Distribution Providers for consistency with</p>

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efforts to correct identified Unresolved Maintenance Issues.	Distribution Provider shall demonstrate efforts to correct identified Unresolved Maintenance Issues.	changes made to NERC's FERC-approved Risk-Based Registration.
<p>PRC-005-6, Measure M5</p> <p>Each Transmission Owner, Generator Owner, and Distribution Provider shall have evidence that it has undertaken efforts to correct identified Unresolved Maintenance Issues in accordance with Requirement R5. The evidence may include, but is not limited to, work orders, replacement Component orders, invoices, project schedules with completed milestones, return material authorizations (RMAs) or purchase orders.</p>	<p>PRC-005-7, Measure M5</p> <p>Each Transmission Owner, Generator Owner, Distribution Provider and UFLS-only Distribution Provider shall have evidence that it has undertaken efforts to correct identified Unresolved Maintenance Issues in accordance with Requirement R5. The evidence may include, but is not limited to, work orders, replacement Component orders, invoices, project schedules with completed milestones, return material authorizations (RMAs) or purchase orders.</p>	<p>To include entities registered as UFLS-only Distribution Providers for consistency with changes made to NERC's FERC-approved Risk-Based Registration.</p>