

**Reliability Standard Audit Worksheet[[1]](#footnote-1)**

PRC-024-2 – Generator Frequency and Voltage Protective Relay Settings

***This section to be completed by the Compliance Enforcement Authority.***

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| **Audit ID:** | Audit ID if available; or REG-NCRnnnnn-YYYYMMDD |
| **Registered Entity:**  | Registered name of entity being audited |
| **NCR Number:**  | NCRnnnnn |
|  **Compliance Enforcement Authority:** | Region or NERC performing audit |
| **Compliance Assessment Date(s)[[2]](#footnote-2):** | Month DD, YYYY, to Month DD, YYYY |
| **Compliance Monitoring Method:**  | [On-site Audit | Off-site Audit | Spot Check] |
| **Names of Auditors:**  | Supplied by CEA |

# **Applicability of Requirements**

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|  | **BA** | **DP** | **GO** | **GOP** | **IA** | **LSE** | **PA** | **PSE** | **RC** | **RP** | **RSG** | **TO** | **TOP** | **TP** | **TSP** |
| **R1** |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |
| **R2** |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |
| **R3** |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |
| **R4** |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |

**Legend:**

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| Text with blue background: | Fixed text – do not edit |
| Text entry area with Green background: | Entity-supplied information |
| Text entry area with white background: | Auditor-supplied information |

Findings

**(This section to be completed by the Compliance Enforcement Authority)**

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| **Req.** | **Finding** | **Summary and Documentation** | **Functions Monitored** |
| **R1** |  |  |  |
| **R2** |  |  |  |
| **R3** |  |  |  |
| **R4** |  |  |  |

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| **Req.** | **Areas of Concern** |
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| **Req.** | **Recommendations** |
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| **Req.** | **Positive Observations** |
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Effective Dates

Regulatory Approval Required (United States)

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| Standard | Requirement | Effective Date | Applicable % of Facilities\* |
| PRC-024-2 | R1, R2, R3, and R4 | 7/1/2016 |  40% |
| PRC-024-2 | R1, R2, R3, and R4 | 7/1/2017 |  60% |
| PRC-024-2 | R1, R2, R3, and R4 | 7/1/2018 |  80% |
| PRC-024-2 | R1, R2, R3, and R4 | 7/1/2019 | 100% |

Regulatory Approval Not Required

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| --- | --- | --- | --- |
| Standard | Requirement | Effective Date | Applicable % of Facilities\* |
| PRC-024-2 | R1, R2, R3, and R4 | 7/1/2015 |  40% |
| PRC-024-2 | R1, R2, R3, and R4 | 7/1/2016 |  60% |
| PRC-024-2 | R1, R2, R3, and R4 | 7/1/2017 |  80% |
| PRC-024-2 | R1, R2, R3, and R4 | 7/1/2018 | 100% |

\* The Implementation Plan refers to Facilities. As an example, if a GO has 10 generating units with frequency protective relaying, in order to be compliant with Requirement R1, the GO has to set all of its frequency protective relaying for 40% (or 4) of the generating units by 7/1/2016.

Applicability

4.1 Generator Owner

Subject Matter Experts

Identify the Subject Matter Expert(s) responsible for this Reliability Standard.

**Registered Entity Response (Required; Insert additional rows if needed):**

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| **SME Name** | **Title** | **Organization** | **Requirement(s)** |
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R1 Supporting Evidence and Documentation

**R1.** Each Generator Owner that has generator frequency protective relaying[[3]](#footnote-3) activated to trip its applicable generating unit(s) shall set its protective relaying such that the generator frequency protective relaying does not trip the applicable generating unit(s) within the “no trip zone” of PRC-024 Attachment 1, subject to the following exceptions[[4]](#footnote-4):

* + Generating unit(s) may trip if the protective functions (such as out-of-step functions or loss-of-field functions) operate due to an impending or actual loss of synchronism or, for asynchronous generating units, due to instability in power conversion control equipment.
	+ Generating unit(s) may trip if clearing a system fault necessitates disconnecting (a) generating unit(s).
	+ Generating unit(s) may trip within a portion of the “no trip zone” of PRC-024 Attachment 1 for documented and communicated regulatory or equipment limitations in accordance with Requirement R3.
1. Each Generator Owner shall have evidence that generator frequency protective relays have been set in accordance with Requirement R1 such as dated setting sheets, calibration sheets or other documentation.

**Registered Entity Response (Required):**

**Question:** Does your entity own any generator frequency protective relaying activated to trip its applicable generating unit(s) in accordance with Requirement R1? [ ]  Yes [ ]  No

If yes, provide a summary of the generator frequency protective relaying in the box below, and proceed to the Registered Entity Response section below.

[Note: A separate spreadsheet or other document may be used. If so, provide the document reference below.]

**Registered Entity Response (Required):**

**Compliance Narrative:**

Provide a brief explanation, in your own words, of how you comply with this Requirement. References to supplied evidence, including links to the appropriate page, are recommended.

Evidence Requested[[5]](#endnote-1):

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| **Provide the following evidence, or other evidence to demonstrate compliance.**  |
| A list of all generator frequency protective relays that activate to trip applicable generating unit(s), including the dates the frequency protective relays were verified in compliance or set in accordance with Requirement R1 that show the entity is meeting the Implementation Plan. |
| A list of generator frequency protective relays that have exceptions, as listed in Requirement R1, including the reason for each exception.  |
| For all, or a sample of generator frequency protective relays selected by the auditor, dated setting sheets, calibration sheets or other documentation that demonstrate that frequency protective relay settings were set such that the generator frequency protective relaying does not trip the applicable generating unit(s) within the “no trip zone” of PRC-024 Attachment 1. |

Registered Entity Evidence (Required):

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| **The following information is requested for each document submitted as evidence. Also, evidence submitted should be highlighted and bookmarked, as appropriate, to identify the exact location where evidence of compliance may be found.** |
| **File Name** | **Document Title** | **Revision or Version** | **Document Date** | **Relevant Page(s) or Section(s)** | **Description of Applicability of Document** |
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Audit Team Evidence Reviewed (This section to be completed by the Compliance Enforcement Authority):

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Compliance Assessment Approach Specific to PRC-024-2, R1

***This section to be completed by the Compliance Enforcement Authority***

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|  | *Select all, or a sample thereof, applicable generator frequency protective relays, and verify the relays are set to prevent the applicable generating units from tripping within the “no trip zone” of PRC-024-2 Attachment 1 (unless one of three specified exceptions applies).* |
|  | *Verify the entity’s applicable generator frequency protective relay settings meet the timelines of the Implementation Plan.* |
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| **Notes to Auditor:** Reference footnote 1 (of the Standard, footnote 3 in the RSAW) which states: “Each Generator Owner is not required to have frequency or voltage protective relaying…”Reference footnote2 (of the Standard, footnote 4 in the RSAW) which states: “… this requirement applies to frequency protective relays applied on the individual generating unit of the dispersed power producing resources, as well as frequency protective relays applied on equipment from the individual generating unit of the dispersed power producing resource up to the point of interconnection.”Applicable generator frequency protective relays must be set to meet high and low frequency limits, and frequency duration limits per PRC-024 Attachment 1. Furthermore, the auditor needs to ensure the compliance assessment is performed with the appropriate Interconnection curve. |

Auditor Notes:

R2 Supporting Evidence and Documentation

**R2.** Each Generator Owner that has generator voltage protective relaying3activated to trip its applicable generating unit(s) shall set its protective relaying such that the generator voltage protective relaying does not trip the applicable generating unit(s) as a result of a voltage excursion (at the point of interconnection[[6]](#footnote-5)) caused by an event on the transmission system external to the generating plant that remains within the “no trip zone” of PRC-024 Attachment 2.[[7]](#footnote-6) If the Transmission Planner allows less stringent voltage relay settings than those required to meet PRC-024 Attachment 2, then the Generator Owner shall set its protective relaying within the voltage recovery characteristics of a location-specific Transmission Planner’s study. Requirement R2 is subject to the following exceptions:

* Generating unit(s) may trip in accordance with a Special Protection System (SPS) or Remedial Action Scheme (RAS).
	+ Generating unit(s) may trip if clearing a system fault necessitates disconnecting (a) generating unit(s).
	+ Generating unit(s) may trip by action of protective functions (such as out-of-step functions or loss-of-field functions) that operate due to an impending or actual loss of synchronism or, for asynchronous generating units, due to instability in power conversion control equipment.
	+ Generating unit(s) may trip within a portion of the “no trip zone” of PRC-024 Attachment 2 for documented and communicated regulatory or equipment limitations in accordance with Requirement R3.

**M2.** Each Generator Owner shall have evidence that generator voltage protective relays have been set in accordance with Requirement R2 such as dated setting sheets, voltage-time curves, calibration sheets, coordination plots, dynamic simulation studies or other documentation.

**Registered Entity Response (Required):**

**Question:** Does your entity own any generator voltage protective relaying activated to trip its applicable generating unit(s) in accordance with Requirement R2? [ ]  Yes [ ]  No

If yes, provide a summary of the generator voltage protective relaying in the box below, and proceed to the Registered Entity Response section below.

[Note: A separate spreadsheet or other document may be used. If so, provide the document reference below.]

**Registered Entity Response (Required):**

**Compliance Narrative:**

Provide a brief explanation, in your own words, of how you comply with this Requirement. References to supplied evidence, including links to the appropriate page, are recommended.

Evidence Requestedi:

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| **Provide the following evidence, or other evidence to demonstrate compliance.**  |
| A list of all generator voltage protective relays that activate to trip applicable generating unit(s), including the dates the voltage protective relays were set in accordance with Requirement R2 that show the entity is meeting the Implementation Plan. |
| A list of generator voltage protective relays that have exceptions, as listed in Requirement R2, including the reason for each exception. |
| For all, or a sample of generator voltage protective relays selected by the auditor, dated setting sheets, voltage-time curves, calibration sheets, coordination plots, dynamic simulation studies, or other documentation that demonstrates that voltage protective relay settings applied at the point of interconnection or elsewhere were set such that the generator frequency protective relaying does not trip the applicable generating unit(s) within the “no trip zone” of PRC-024 Attachment 2 shown at the point of interconnection. |
| If the Transmission Planner allows less stringent voltage relay settings than those required to meet PRC-024 Attachment 2, then provide documentation of the less stringent settings. |

Registered Entity Evidence (Required):

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| **The following information is requested for each document submitted as evidence. Also, evidence submitted should be highlighted and bookmarked, as appropriate, to identify the exact location where evidence of compliance may be found.** |
| **File Name** | **Document Title** | **Revision or Version** | **Document Date** | **Relevant Page(s) or Section(s)** | **Description of Applicability of Document** |
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Audit Team Evidence Reviewed (This section to be completed by the Compliance Enforcement Authority):

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Compliance Assessment Approach Specific to PRC-024-2, R2

***This section to be completed by the Compliance Enforcement Authority***

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|  | *Select all, or a sample thereof, applicable generator voltage protective relays, and verify the relays are set to prevent the applicable generating units from tripping within the “no trip zone” of PRC-024-2 Attachment 2 (unless one of four specified exceptions applies) or the Transmission Planners less stringent voltage relay settings.* |
|  | *Verify the entity’s applicable generator voltage protective relay settings meet the timelines of the Implementation Plan.* |
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| **Notes to Auditor:** Reference footnote 1 (of the Standard, footnote 3 in the RSAW) which states: “Each Generator Owner is not required to have frequency or voltage protective relaying…” Reference footnote 4 (of the Standard, footnote 6 in the RSAW) which states: “… this requirement applies to voltage protective relays applied on the individual generating unit of the dispersed power producing resources, as well as voltage protective relays applied on equipment from the individual generating unit of the dispersed power producing resource up to the point of interconnection.”Applicable generator voltage protective relays must be set to meet high and low voltage limits, and durations per PRC-024 Attachment 2. Reference the “Voltage Ride-Through Curve Clarifications” in Attachment 2.CMEP staff should seek to understand how the GO accounts for any differences in voltage at the generator/inverter terminals and the voltage at the point of interconnection when developing and evaluating its voltage protective relay settings. |

Auditor Notes:

R3 Supporting Evidence and Documentation

1. Each Generator Owner shall document each known regulatory or equipment limitation[[8]](#footnote-7) that prevents an applicable generating unit with generator frequency or voltage protective relays from meeting the relay setting criteria in Requirements R1 or R2 including (but not limited to) study results, experience from an actual event, or manufacturer’s advice.
	1. The Generator Owner shall communicate the documented regulatory or equipment limitation, or the removal of a previously documented regulatory or equipment limitation, to its Planning Coordinator and Transmission Planner within 30 calendar days of any of the following:
* Identification of a regulatory or equipment limitation.
* Repair of the equipment causing the limitation that removes the limitation.
* Replacement of the equipment causing the limitation with equipment that removes the limitation.
* Creation or adjustment of an equipment limitation caused by consumption of the cumulative turbine life-time frequency excursion allowance.

**M3.** Each Generator Owner shall have evidence that it has documented and communicated any known regulatory or equipment limitations (excluding limitations noted in footnote 3) that resulted in an exception to Requirements R1 or R2 in accordance with Requirement R3 such as a dated email or letter that contains such documentation as study results, experience from an actual event, or manufacturer’s advice.

**Registered Entity Response (Required):**

**Question:** Did your entity have anyknown regulatory or equipment limitation that prevents an applicable generating unit with generator frequency or voltage protective relays from meeting the relay setting criteria in Requirements R1 or R2 in accordance with Requirement R3 during the audit period? [ ]  Yes [ ]  No

If yes, provide a summary of the known regulatory or equipment limitations in the box below, and proceed to the Registered Entity Response section below.

[Note: A separate spreadsheet or other document may be used. If so, provide the document reference below.]

**Question:** Did your entity have anyremoval of a previously documented regulatory or equipment limitation in accordance with Requirement R3 during the audit period? [ ]  Yes [ ]  No

If yes, provide a summary of the removal of the previously documented regulatory or equipment limitation(s) in the box below, and proceed to the Registered Entity Response section below.

[Note: A separate spreadsheet or other document may be used. If so, provide the document reference below.]

**Registered Entity Response (Required):**

**Compliance Narrative:**

Provide a brief explanation, in your own words, of how you comply with this Requirement. References to supplied evidence, including links to the appropriate page, are recommended.

Evidence Requestedi:

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| **Provide the following evidence, or other evidence to demonstrate compliance.**  |
| Provide a list of each known regulatory or equipment limitation that prevents an applicable generating unit with generator frequency or voltage protective relays from meeting the relay setting criteria in Requirements R1 or R2 in accordance with Requirement R3. |
| For all, or a sample selected by the auditor, documentation of each known regulatory or equipment limitation that prevents an applicable generating unit with generator frequency or voltage protective relays from meeting the relay setting criteria in Requirements R1 or R2 in accordance with Requirement R3 that show the entity is meeting the Implementation Plan. |
| Provide a list of the removal(s) of a previously documented regulatory or equipment limitation in accordance with Requirement R3. |
| For all, or a sample selected by the auditor, dated email or letter that documents the GO communicated any known regulatory or equipment limitations, and removals of a previously documented regulatory or equipment limitation, to its Planning Coordinator and Transmission Planner within 30 calendar days in accordance with Requirement R3. |

Registered Entity Evidence (Required):

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| **The following information is requested for each document submitted as evidence. Also, evidence submitted should be highlighted and bookmarked, as appropriate, to identify the exact location where evidence of compliance may be found.** |
| **File Name** | **Document Title** | **Revision or Version** | **Document Date** | **Relevant Page(s) or Section(s)** | **Description of Applicability of Document** |
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Audit Team Evidence Reviewed (This section to be completed by the Compliance Enforcement Authority):

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Compliance Assessment Approach Specific to PRC-024-2, R3

***This section to be completed by the Compliance Enforcement Authority***

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|  | *Select all, or a sample thereof, and verify the entity documented each known regulatory or equipment limitation that prevents an applicable generating unit with generator frequency or voltage protective relays from meeting the relay setting criteria in Requirements R1 or R2 in accordance with Requirement R3, and the entity is meeting the Implementation Plan.* |
|  | *Select all, or a sample thereof, and verify the entity communicated the documented regulatory or equipment limitation, or the removal of a previously documented regulatory or equipment limitation, to its Planning Coordinator and Transmission Planner within 30 calendar days in accordance with Requirement R3 for any of the following:** *Identification of a regulatory or equipment limitation.*
* *Repair of the equipment causing the limitation that removes the limitation.*
* *Replacement of the equipment causing the limitation with equipment that removes the limitation.*
* *Creation or adjustment of an equipment limitation caused by consumption of the cumulative turbine life-time frequency excursion allowance.*
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| **Note to Auditor:**  Reference footnote 5 (of the Standard, footnote 7 in the RSAW) which states: “Excludes limitations that are caused by the setting capability of the generator frequency and voltage protective relays themselves but does not exclude limitations originating in the equipment that they protect.”  |

Auditor Notes:

R4 Supporting Evidence and Documentation

1. Each Generator Owner shall provide its applicable generator protection trip settings associated with Requirements R1 and R2 to the Planning Coordinator or Transmission Planner that models the associated unit within 60 calendar days of receipt of a written request for the data and within 60 calendar days of any change to those previously requested trip settings unless directed by the requesting Planning Coordinator or Transmission Planner that the reporting of relay setting changes is not required.

**M4.** Each Generator Owner shall have evidence that it communicated applicable generator protective relay trip settings in accordance with Requirement R4, such as dated e-mails, correspondence or other evidence and copies of any requests it has received for that information.

**Registered Entity Response (Required):**

**Question:** Did your entity receive a written request for the data (applicable generator protection trip settings associated with Requirements R1 and R2) from the Planning Coordinator or Transmission Planner that models the associated unit during the audit period? [ ]  Yes [ ]  No

If yes, provide a summary of the written requests in the box below, including the name of the Planning Coordinator and Transmission Planner, and proceed to the Registered Entity Response section below.

[Note: A separate spreadsheet or other document may be used. If so, provide the document reference below.]

**Question (Required):** Did your entity have any changes to those previously requested trip settings? [ ]  Yes [ ]  No

If yes, provide a summary of the previously requested trip settings, and whether your entity was directed by the requesting Planning Coordinator or Transmission Planner that the reporting of relay setting changes is not required, and proceed to the Registered Entity Response section below.

[Note: A separate spreadsheet or other document may be used. If so, provide the document reference below.]

**Registered Entity Response (Required):**

**Compliance Narrative:**

Provide a brief explanation, in your own words, of how you comply with this Requirement. References to supplied evidence, including links to the appropriate page, are recommended.

Evidence Requestedi:

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| **Provide the following evidence, or other evidence to demonstrate compliance.**  |
| Provide a list of all applicable generator protection trip settings associated with Requirements R1 and R2 that are associated with any written requests for the data by the Planning Coordinator or Transmission Planner that models the associated unit. |
| Provide a list of any change to those previously requested trip settings (unless directed by the requesting Planning Coordinator or Transmission Planner that the reporting of relay setting changes is not required). |
| For all, or a sample selected by the auditor, dated e-mails, correspondence or other evidence and copies of any requests, that show the entity communicated applicable protective relay trip settings/changes within 60 calendar days of the written request in accordance with R4. |

Registered Entity Evidence (Required):

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| **The following information is requested for each document submitted as evidence. Also, evidence submitted should be highlighted and bookmarked, as appropriate, to identify the exact location where evidence of compliance may be found.** |
| **File Name** | **Document Title** | **Revision or Version** | **Document Date** | **Relevant Page(s) or Section(s)** | **Description of Applicability of Document** |
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Audit Team Evidence Reviewed (This section to be completed by the Compliance Enforcement Authority):

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Compliance Assessment Approach Specific to PRC-024-2, R4

***This section to be completed by the Compliance Enforcement Authority***

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|  | *Select all, or a sample thereof, and verify the entity communicated applicable protective relay trip settings/changes (such as dated e-mails, correspondence or other evidence, and copies of any requests) within 60 calendar days of the written request/change in accordance with R4.* |
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| **Note to Auditor:**  |

Auditor Notes:

Additional Information:

Reliability Standard

The full text of PRC-024-2 may be found on the NERC Web Site (www.nerc.com) under “Program Areas & Departments”, “Reliability Standards.”



In addition to the Reliability Standard, there is an applicable Implementation Plan available on the NERC Web Site.

In addition to the Reliability Standard, there is background information available on the NERC Web Site.

Capitalized terms in the Reliability Standard refer to terms in the NERC Glossary, which may be found on the NERC Web Site.

Sampling Methodology

Sampling is essential for auditing compliance with NERC Reliability Standards since it is not always possible

or practical to test 100% of either the equipment, documentation, or both, associated with the full suite of enforceable standards. The Sampling Methodology Guidelines and Criteria (see NERC website), or sample guidelines, provided by the Electric Reliability Organization help to establish a minimum sample set for monitoring and enforcement uses in audits of NERC Reliability Standards.

Regulatory Language



[*North American Electric Reliability Corp.*, Docket No. RD15-3-000 (May 29, 2015) (letter order)](http://elibrary.ferc.gov/idmws/common/opennat.asp?fileID=14044058). Order approving Petition of the North American Electric Reliability Corporation for Approval of Reliability Standards PRC-004-2.1 (i)a, PRC-004-4, PRC-005-2(i), PRC-005-3 (i), and VAR-002-4.

Page 1. On February 6, 2015, the North American Electric Reliability Corporation (NERC) filed a petition seeking approval of Reliability Standards PRC-004-2.1(i)a (Analysis and Mitigation of Transmission and Generation Protection System Misoperations), PRC-004-4 (Protection System Misoperation Identification and Correction), PRC-005-2(i) (Protection System Maintenance), PRC-005-3(i) (Protection System and Automatic Reclosing Maintenance), and VAR-002-4 (Generator Operation

 for Maintaining Network Voltage Schedules).

Page 1. In approving PRC-024-2, the Commission noted that “On March 13, 2015, NERC filed a supplemental petition seeking approval of three additional Reliability Standards: PRC-001-1.1(ii) (System Protection Coordination), PRC-019-2 (Coordination of Generating Unit or Plant Capabilities, Voltage Regulating Controls, and Protection), and PRC-024-2 (Generator Frequency and Voltage Protective Relay Settings). NERC states that it modified the Reliability Standards to adjust the applicability to owners of dispersed generation resources.”

Page 2. FERC also noted that: “In its Petition, NERC stated it revised certain provisions of the identified Reliability Standards to ensure that only those dispersed generation resources that could affect the reliability of the Bulk-Power System are subject to the standards.”

Page 2-3. FERC also included that: “NERC explains that the design and operational characteristics of dispersed power producing resources are different than traditional generation. In particular, dispersed power producing resources are typically comprised of many individual generating units and, in most instances the units are similar in design and produced by the same manufacturer. The aggregated capability of the facility may contribute significantly to the reliability of the Bulk-Power System, and therefore, the equipment utilized to aggregate the individual units to a common point of interconnection with the transmission system should be operated and maintained as required by the NERC Reliability Standards subject to these petitions. Thus, NERC proposes to modify each of the identified Reliability Standards to include applicability language in provisions pertaining to generator owners and generator operators of resources identified through inclusion I4 of the bulk electric system definition.” PRC-024-2, Requirement R1 and R2 was one of the specific Reliability Standards revised by NERC to affect this limitation of applicability consistent with the bulk electric system definition pursuant to inclusion I4.

Revision History for RSAW

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| **Version** | **Date** | **Reviewers** | **Revision Description** |
| 1 | 5/13/16 | NERC Compliance Assurance, RSAW Task Force | New Document |
| 2 | 7/9/21 | NERC Compliance Assurance, RSAW Task Force | Clarifications in R2 evidence and Notes to Auditor clarifying No Trip Zone measured at point of interconnection per Attachment 2. |
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1. NERC developed this Reliability Standard Audit Worksheet (RSAW) language in order to facilitate NERC’s and the Regional Entities’ assessment of a registered entity’s compliance with this Reliability Standard. The NERC RSAW language is written to specific versions of each NERC Reliability Standard. Entities using this RSAW should choose the version of the RSAW applicable to the Reliability Standard being assessed. While the information included in this RSAW provides some of the methodology that NERC has elected to use to assess compliance with the requirements of the Reliability Standard, this document should not be treated as a substitute for the Reliability Standard or viewed as additional Reliability Standard requirements. In all cases, the Regional Entity should rely on the language contained in the Reliability Standard itself, and not on the language contained in this RSAW, to determine compliance with the Reliability Standard. NERC’s Reliability Standards can be found on NERC’s website. Additionally, NERC Reliability Standards are updated frequently, and this RSAW may not necessarily be updated with the same frequency. Therefore, it is imperative that entities treat this RSAW as a reference document only, and not as a substitute or replacement for the Reliability Standard. It is the responsibility of the registered entity to verify its compliance with the latest approved version of the Reliability Standards, by the applicable governmental authority, relevant to its registration status.

The NERC RSAW language contained within this document provides a non‑exclusive list, for informational purposes only, of examples of the types of evidence a registered entity may produce or may be asked to produce to demonstrate compliance with the Reliability Standard. A registered entity’s adherence to the examples contained within this RSAW does not necessarily constitute compliance with the applicable Reliability Standard, and NERC and the Regional Entity using this RSAW reserves the right to request additional evidence from the registered entity that is not included in this RSAW. Additionally, this RSAW includes excerpts from FERC Orders and other regulatory references. The FERC Order cites are provided for ease of reference only, and this document does not necessarily include all applicable Order provisions. In the event of a discrepancy between FERC Orders, and the language included in this document, FERC Orders shall prevail. [↑](#footnote-ref-1)
2. Compliance Assessment Date(s): The date(s) the actual compliance assessment (on-site audit, off-site spot check, etc.) occurs. [↑](#footnote-ref-2)
3. Each Generator Owner is not required to have frequency or voltage protective relaying (including but not limited to frequency and voltage protective functions for discrete relays, volts per hertz relays evaluated at nominal frequency, multi-function protective devices or protective functions within control systems that directly trip or provide tripping signals to the generator based on frequency or voltage inputs) installed or activated on its unit. [↑](#footnote-ref-3)
4. For frequency protective relays associated with dispersed power producing resources identified through Inclusion I4 of the Bulk Electric System definition, this requirement applies to frequency protective relays applied on the individual generating unit of the dispersed power producing resources, as well as frequency protective relays applied on equipment from the individual generating unit of the dispersed power producing resource up to the point of interconnection. [↑](#footnote-ref-4)
5. Items in the Evidence Requested section are suggested evidence that may, but will not necessarily, demonstrate compliance. These items are not mandatory and other forms and types of evidence may be submitted at the entity’s discretion. [↑](#endnote-ref-1)
6. For the purposes of this standard, point of interconnection means the transmission (high voltage) side of the generator step-up or collector transformer. [↑](#footnote-ref-5)
7. For voltage protective relays associated with dispersed power producing resources identified through Inclusion I4 of the Bulk Electric System definition, this requirement applies to voltage protective relays applied on the individual generating unit of the dispersed power producing resources, as well as voltage protective relays applied on equipment from the individual generating unit of the dispersed power producing resource up to the point of interconnection. [↑](#footnote-ref-6)
8. Excludes limitations that are caused by the setting capability of the generator frequency and voltage protective relays themselves but does not exclude limitations originating in the equipment that they protect. [↑](#footnote-ref-7)