

## Standard Development Timeline

This section is maintained by the drafting team during the development of the standard and will be removed when the standard is adopted by the NERC Board of Trustees (Board).

### Description of Current Draft

This is the second draft of the proposed standard for a formal 35-day ballot period.

Completed Actions	Date
Standards Committee approved Standard Authorization Request (SAR) for posting	11/17/2021
SAR posted for comment	11/22/21 – 12/21/21
45-day formal comment period with ballot	6/5/23 – 7/20/23
35-day formal or informal comment period with additional ballot	October – November 2023

Anticipated Actions	Date
10-day final ballot	January 2024
Board adoption	February 2024

## New or Modified Term(s) Used in NERC Reliability Standards

This section includes all new or modified terms used in the proposed standard that will be included in the *Glossary of Terms Used in NERC Reliability Standards* upon applicable regulatory approval. Terms used in the proposed standard that are already defined and are not being modified can be found in the *Glossary of Terms Used in NERC Reliability Standards*. The new or revised terms listed below will be presented for approval with the proposed standard. Upon Board adoption, this section will be removed.

### Term(s):

**Generator Cold Weather Critical Component** — Any generating unit component and/or system, or associated Fixed Fuel Supply Component, that is under the Generator Owner’s control, and is susceptible to freezing issues, the occurrence of which would likely lead to a Generator Cold Weather Reliability Event. This definition excludes any component or associated Fixed Fuel Supply Component located inside a permanent building with a heating source that regularly maintains the space at a temperature above 32 degrees Fahrenheit (0 degrees Celsius).

**Fixed Fuel Supply Component** — Non-mobile equipment that supports the reliable delivery of fuel to the generating unit and under the control of the Generator Owner at a plant site. Gaseous, liquid, or solid fuel handling components that are installed on site as fixed parts of the fuel delivery system that are under the Generator Owner’s control are included. Mobile equipment such as trains, bulldozers, or other equipment that are not fixed in one location are excluded.

**Generator Cold Weather Reliability Event** — One of the following events for which the apparent cause(s) is due to freezing of equipment or impacts of freezing precipitation (e.g., sleet, snow, ice, and freezing rain) on equipment within the Generator Owner’s control, and the dry bulb temperature at the time of the event was at or above the Extreme Cold Weather Temperature:

- (1)- a forced derate of more than 10% of the total capacity of the unit, but not less than 20 MWs for longer than four hours in duration;
- (2)- a start-up failure where the unit fails to synchronize within a specified start-up time;
- or
- (3)- a Forced Outage.

**Generator Cold Weather Constraint(s)** — ~~A limitation~~ — Any condition that would ~~prohibit~~ preclude a Generator Owner, using good utility practice,<sup>1</sup> from implementing freeze protection measures on one or more Generator Cold Weather Critical Components. ~~A constraint must fall under one of the following areas:~~

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<sup>1</sup> The phrase “good utility practice” is being used in its common understanding. More information on this can be found in the Technical Rationale. This footnote is for information purposes only in the posting and will not be included in the term included in the NERC Glossary of Terms.

- ~~Technical Constraint – A technical constraint exists when there is no known technical solution for addressing the issue or implementation of selected freeze protection measure(s) requires application of new technologies or existing technologies in new applications that would facilitate operations outside of the existing equipment specifications. Technical constraints include technologies that have not been demonstrated for a sufficient period of time in like assets in the BES.~~
- ~~Commercial Constraint – A commercial constraint exists when implementation of selected freeze protection measure(s) are uneconomical to the extent that they would result in the generating unit not operating or not being put into service at the time of the evaluation.~~

~~Operational Constraint – An operational constraint exists when implementation of selected freeze protection measure(s) would cause the generating unit to limit its operations in order to protect either the reliability of the BES, the generating unit itself, the surrounding environment, or personnel.~~

## Previously Approved Terms

This section includes previously approved terms from Phase 1. It is included to help with drafting and the posting of EOP-012-2, ~~but is not being balloted at this time.~~

**Extreme Cold Weather Temperature** – The temperature equal to the lowest 0.2 percentile of the hourly temperatures measured in December, January, and February from 1/1/2000 through the date the temperature is calculated.

## A. Introduction

1. **Title:** Extreme Cold Weather Preparedness and Operations
2. **Number:** EOP-012-2
3. **Purpose:** To address the effects of operating in extreme cold weather by ensuring each Generator Owner has developed and implemented plan(s) to mitigate the reliability impacts of extreme cold weather on its applicable generating units.
4. **Applicability:**
  - 4.1. **Functional Entities:**
    - 4.1.1. Generator Owner
    - 4.1.2. Generator Operator
  - 4.2. **Facilities:**
    - 4.2.1. Bulk Electric System (BES) generating units. For purposes of this standard, the term “generating unit” subject to these requirements refers to the following Bulk Electric System (BES) resources:
      - 4.2.1.1. A ~~BES~~Bulk Electric System generating resource identified in the BES definition, ~~Inclusion~~Inclusion I2 and I4; or
      - 4.2.1.2. A Blackstart Resource, identified in the BES definition, ~~Inclusion~~Inclusion I3.
5. **Effective Date:** See Implementation Plan for Project 2021-07 Phase 2.

## B. Requirements and Measures

- R1. At least once every five calendar years, each Generator Owner shall, for each of its applicable generating unit(s): [*Violation Risk Factor: Lower*] [*Time Horizon: Long-term Planning*]
  - 1.1. Calculate the Extreme Cold Weather Temperature for each of its applicable ~~generating~~ unit(s) and identify the calculation date and source of temperature data; and
    - 1.1.1. If the re-calculated Extreme Cold Weather Temperature is lower than the previous Extreme Cold Weather Temperature, the entity shall review and update its cold weather preparedness plan under Requirement R4 within six (6) months of the recalculation. If new corrective actions are needed to provide the required operational capability under Requirement ~~R2 or~~ R3, the entity shall develop a Corrective Action Plan within ~~six~~6 months of the recalculation; ~~and.~~
  - 1.2. Identify generating unit(s) cold weather data, to include:

~~1.2.1~~ Generating unit(s) operating limitations in cold weather to include:

~~1.2.1.1~~ Capability and availability;

~~1.2.1.2~~ ~~1.2~~ Fuel supply and inventory concerns;

~~1.2.1.3~~ Fuel switching capabilities; and

~~1.2.1.4~~ Environmental constraints.

~~1.2.2~~ ~~2~~ Generating unit(s) minimum:

- Design temperature and if available, the concurrent wind speed and precipitation;
- Historical operating temperature at least one hour in duration, and if available, the concurrent wind speed and precipitation; or
- Current cold weather performance temperature determined by an engineering analysis, which includes the concurrent wind speed and precipitation.

**M1.** ~~—~~ Each Generator Owner will have evidence documenting its Extreme Cold Weather Temperature calculation and design information, operating data, or engineering analysis, ~~operating data or design information~~ that supports ~~supports~~ its generating unit minimum temperature.

**R2.** Applicable to generating units with a commercial operation date on or after October 1, 2027: Each Generator Owner, for each generating unit that has a calculated Extreme Cold Weather Temperature at or below 32 degrees Fahrenheit (zero degrees Celsius) as determined in Requirement R1, and that self-commits or is required to operate at or below a temperature of 32 degrees Fahrenheit (zero degrees Celsius),<sup>2</sup> shall: [*Violation Risk Factor: Medium*] [*Time Horizon: Long-term Planning, Operations Planning*]

• ~~—~~ Have/Implement freeze protection measures to protect Generator Cold Weather Critical

~~—~~ Components that provide the capability to operate:

~~2.1.1~~ ~~At~~ at the unit(s)' Extreme Cold Weather Temperature;

- ~~2.1.2~~ ~~For~~ with sustained concurrent twenty (20) mph wind speed for (i) a period of not less than twelve (12) continuous hours, or (ii) the maximum operational duration for intermittent energy resources if less than twelve (12) continuous hours; ~~and/or~~

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<sup>2</sup> Generating unit(s) that do not self-commit or are not required to operate at or below a temperature of 32 degrees Fahrenheit (zero degrees Celsius), but may be called upon to operate in order to assist in the mitigation of BES Emergencies, Capacity Emergencies, or Energy Emergencies during periods at or below a temperature of 32 degrees Fahrenheit (zero degrees Celsius), are exempt from this requirement.

~~2.1.3 With a sustained concurrent twenty (20) mph wind speed on any exposed Generator Cold Weather Critical Components.~~

- ~~• Each Generator Owner that does not have freeze protection measures as~~
    - ~~• required by Requirement R2 Part 2.1 shall develop a Corrective Action Plan. Develop a Corrective Action Plan(s) to add new or modify existing freeze protection measures to provide the capability to operate at the unit(s)' Extreme Cold Weather Temperature with a sustained concurrent twenty (20) mph wind speed for (i) a period of not less than twelve (12) continuous hours, or (ii) the maximum operational duration for intermittent energy resources if less than twelve (12) continuous hours.~~
- M2.** Each Generator Owner will have dated evidence that demonstrates it has freeze protection measures for its unit(s) in accordance with ~~Requirement R2~~, or it has developed a Corrective Action Plan for the identified issues. Acceptable evidence may include the following (electronic or hardcopy format): Identification of generating unit(s) minimum temperature per Part 1.2.2 which is equal to or less than the unit's Extreme Cold Weather Temperature, documentation of freeze protection measures, and ~~CAP~~Corrective Action Plan(s).
- R3.** Applicable to generating unit(s) in commercial operation prior to October 1, 2027: Each Generator Owner, for each generating unit that has a calculated Extreme Cold Weather Temperature at or below 32 degrees Fahrenheit (zero degrees Celsius) as determined in Requirement R1, and that self-commits or is required to operate at or below a temperature of 32 degrees Fahrenheit (zero degrees Celsius),<sup>3</sup> ~~and is not capable of operating at its Extreme Cold Weather Temperature~~ shall: [*Violation Risk Factor: Medium*] [*Time Horizon: Long-term Planning, Operations Planning*]
- ~~• 3.1—Implement freeze protection measures that provide the capability to operate at the unit(s)' Extreme Cold Weather Temperature; or~~
- Develop a Corrective Action Plan to add new or modify existing freeze protection measures ~~to provide such capability;~~
- ~~• 3.2—Update the cold weather preparedness plan required under Requirement R4 to identify the updates or additions to provide the Generator capability to operate at the unit(s)' Extreme Cold Weather Critical Components and their freeze protection measures. Temperature.~~
- M3.** ~~Each Generator Owner will have dated evidence that demonstrates it has freeze protection measures for its unit(s) in accordance with Requirement R3, or it has developed a CAP~~Corrective Action Plan for the identified issues. Acceptable evidence may include, ~~but is not limited to,~~ the following (electronic or hardcopy format):

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<sup>3</sup> Generating unit(s) that do not self-commit or are not required to operate at or below a temperature of 32 degrees Fahrenheit (zero degrees Celsius), but may be called upon to operate in order to assist in the mitigation of BES Emergencies, Capacity Emergencies, or Energy Emergencies during periods at or below a temperature of 32 degrees Fahrenheit (zero degrees Celsius), are exempt from this requirement.

Identification of generating unit(s) minimum temperature per Part 1.2.2 which is equal to or less than the unit's Extreme Cold Weather Temperature, documentation of freeze protection measures, and ~~CAP~~Corrective Action Plan(s).

- R4.** Each Generator Owner shall implement and maintain one or more cold weather preparedness plan(s) for its generating units. The cold weather preparedness plan(s) shall include the following, at a minimum: *[Violation Risk Factor: High] [Time Horizon: Operations Planning and Real-time Operations]*

**4.1-4.1.** The lowest calculated Extreme Cold Weather Temperature for each unit, as —determined in Requirement R1;<sup>4</sup>

**4.2.** The generating unit cold weather data, as determined in ~~Part 1~~Requirement R1.2;

**4.3.** Documentation identifying Generator Cold Weather Critical Components;

**4.4.** Documentation of freeze protection measures implemented on Generator Cold Weather Critical Components which ~~may include~~includes measures used to reduce the cooling effects of wind determined necessary by the Generator Owner to protect against heat loss, and where applicable, the effects of freezing precipitation (e.g., sleet, snow, ice, and freezing rain); and

**4.5.** Annual inspection and maintenance of generating unit(s) freeze protection measures.

- M4.** Each Generator Owner will have evidence documenting that its cold weather preparedness plan(s) was implemented and maintained in accordance with Requirement R4. Examples of documentation to demonstrate inspections and maintenance ~~has~~have been completed may include, but are not limited to, completed work order(s) from the Generator Owner's work management system and/or freeze protection checklists identifying the measures inspected and maintained.

- R5.** Each Generator Owner in conjunction with its Generator Operator shall identify the entity responsible for providing the generating unit-specific training, and that identified entity shall provide annual training to its maintenance or operations personnel responsible for implementing the cold weather preparedness plan(s) developed pursuant to Requirement R4. *[Violation Risk Factor: Medium] [Time Horizon: Long-term Planning, Operations Planning]*

- M5.** Each Generator Operator or Generator Owner will have documented evidence that the applicable personnel completed annual training of the Generator Owner's cold weather preparedness plan(s). This evidence may include, but is not limited to, documents such as personnel training records, training materials, date of training, agendas or learning objectives, attendance at pre-work briefings, review of work

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<sup>4</sup> Generator Owners shall include the lowest calculated Extreme Cold Weather Temperature for the unit, even where subsequent periodic re-calculations under Requirement R1 Part 1.1 cause an increase in the Extreme Cold Weather Temperature.

order tasks, tailboards, attendance logs for classroom training, and completion records for computer-based training in fulfillment of Requirement R5.

**R6.** ~~Each Generator Owner shall, for each generating unit that has a calculated Extreme Cold Weather Temperature at or below 32 degrees Fahrenheit (zero degrees Celsius) as determined in Requirement R1 and that self-commits or is required to operate at or below a temperature of 32 degrees Fahrenheit (zero degrees Celsius),<sup>5</sup> develop a Corrective Action Plan when the generating unit experiences a Generator Cold Weather Reliability Event. The Corrective Action Plan shall be developed within 150 days or by July 1, whichever is earlier, and contain at a minimum: *[Violation Risk Factor: High] [Time Horizon: Long-term Planning]*~~

~~**6.1.** A summary of the identified cause(s) for the Generator Cold Weather Reliability Event, where applicable, and any relevant associated data;~~

~~**6.2.** A review of applicability to similar equipment at generating units owned by the Generator Owner; and~~

~~**6.3.** An identification of operating limitations or impacts to the cold weather preparedness plan that would apply until execution of the corrective action(s) identified in the Corrective Action Plan; and.~~

~~**6.4.** An identification of updates to the list of Generator Cold Weather Critical Components or their freeze protection measures in the cold weather preparedness plan(s) required under Requirement R4.~~

**M6.** Each Generator Owner will have documented evidence that it developed a Corrective Action Plan following a Cold Weather Reliability Event at an applicable unit in accordance with Requirement R6. Acceptable evidence may include, but is not limited to, the following dated documentation (electronic or hardcopy format): ~~CAP~~Corrective Action Plan(s) and updated cold weather preparedness plan(s) where indicated as needed by the ~~CAP~~Corrective Action Plan.

**R7.** Each Generator Owner, for each Corrective Action Plan developed pursuant to Requirements R1, R2, R3, or R6, shall: *[Violation Risk Factor: Medium] [Time Horizon: Long-term Planning]*

**7.1.** Include a timetable for implementing the selected corrective action(s) that shall:

~~**7.1.1** Specify. List the~~ action(s) ~~that~~which address(es) existing equipment or freeze protection measures, if any, to be completed within 24 calendar months of completing development of the Corrective Action Plan; ~~and~~

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<sup>5</sup> Generating unit(s) that do not self-commit or are not required to operate at or below a temperature of 32 degrees Fahrenheit (zero degrees Celsius), but may be called upon to operate in order to assist in the mitigation of BES Emergencies, Capacity Emergencies, or Energy Emergencies during periods at or below a temperature of 32 degrees Fahrenheit (zero degrees Celsius), are exempt from this requirement.



~~7.1.2. Specify. List the~~ action(s) ~~that~~which require(s) new equipment or freeze protection measures, if any, to be completed within 48 calendar months of completing development of the Corrective Action Plan;

~~7.1.3. List the updates to the cold weather preparedness plan required under Requirement R4 to identify the updates or additions to the Generator Cold Weather Critical Components and their freeze protection measures; and~~

~~7.1.4. For one or more Corrective Action Plan(s) that address multiple units in a fleet, the Corrective Action Plan shall stagger implementation across those generating units.~~

~~7.2.~~ Implement the Corrective Action Plan in accordance with the specified ~~timetable~~timetables in Requirement R7 Part 7.1;

~~7.3—.~~ Update the Corrective Action Plan, with justification, if corrective action(s) change or timetable(s) exceed the timelines in Requirement R7 Part 7.1.; and

~~7.4—.~~ Document in a declaration, with justification, any Generator Cold Weather ~~Constraints~~Constraint that ~~preclude~~precludes the Generator Owner from implementing actions contained within the Corrective Action Plan.

**M7.** Each Generator Owner shall have dated evidence that demonstrates it implemented each CAP Corrective Action Plan, including updating actions or timetables, or has explained in a declaration why corrective actions are not being implemented in accordance with Requirement R8. Acceptable evidence may include, but is not limited to, the following dated documentation (electronic or hardcopy format): records that document the implementation of each CAP Corrective Action Plan and the completion of actions for each CAP Corrective Action Plan including revision history of each CAP Corrective Action Plan. Evidence may also include work management program records, work orders, and maintenance records. Any declaration shall contain dated documentation to support constraints identified by the Generator Owner.

**R8.** Each Generator Owner that creates a Generator Cold Weather Constraint declaration shall: *[Violation Risk Factor: Medium] [Time Horizon: Long-term Planning]*

~~8.1—.~~ Perform an annual review and update the Generator Cold Weather Constraint

~~—~~ declaration as needed; and

~~8.2—.~~ Update the operating limitations associated with capability and availability per

~~—~~ Part 1R1.2 if applicable; and.

~~8.3—~~ ~~Provide the Generator Cold Weather Constraint declaration to the Balancing Authority in the format and at the interval specified by the Balancing Authority.~~

**M8.** Each Generator Owner shall have dated evidence that demonstrates it performed an annual review ~~of its Generator Cold Weather Constraint declaration, and~~ updated the operating limitations, ~~if applicable, and provided the declaration to the Balancing Authority, as needed.~~ Acceptable evidence may include, but is not limited to, the following dated documentation (electronic or hardcopy format): records that document the performance of an annual review and ~~the sharing of each declaration as specified by the Balancing Authority~~ update to the operating limitations, as needed.

## C. Compliance

### 1. Compliance Monitoring Process

**1.1. Compliance Enforcement Authority:** “Compliance Enforcement Authority” (CEA) means NERC or the Regional Entity, or any entity as otherwise designated by an Applicable Governmental Authority, in their respective roles of monitoring and/or enforcing compliance with mandatory and enforceable Reliability Standards in their respective jurisdictions.

**1.2. Evidence Retention:** The following evidence retention period(s) identify the period of time an entity is required to retain specific evidence to demonstrate compliance. For instances where the evidence retention period specified below is shorter than the time since the last audit, the CEA may ask an entity to provide other evidence to show that it was compliant for the full-time period since the last audit.

The applicable entity shall keep data or evidence to show compliance as identified below unless directed by its CEA to retain specific evidence for a longer period of time as part of an investigation.

- The Generator Owner shall retain data or evidence to support its current Extreme Cold Weather Temperature calculation and generating unit cold weather data, plus each calculation or ~~revisions~~ revision since the last audit, for Requirement R1 and Measure M1.
- The Generator Owner shall keep data or evidence to show compliance for three years, or until any Corrective Action Plan under Requirement R2 or R3 is complete, whichever timeframe is greater, for Requirements R2 and R3 and Measures M2 and M3.
- The Generator Owner shall retain the current cold weather preparedness plan(s), as evidence of review or revision history, plus each version issued since the last audit and evidence of compliance since the last audit for Requirement R4 and Measure M4.
- The Generator Owner or Generator Operator shall keep data or evidence to show compliance for three years for Requirement R5 and Measure M5.
- The Generator Owner shall keep data or evidence to show compliance for three years, or until any Corrective Action Plan under Requirement R6 is complete, whichever timeframe is greater, for Requirement R6 and Measure M6.
- The Generator Owner shall keep data or evidence to show compliance for three years, or until any Corrective Action Plan is complete, whichever time frame is greater, for Requirement R7 and Measure M7.

- The Generator Owner shall maintain data or evidence to support its current Generator Cold Weather ~~Constrain~~Constraint declaration, plus each revision since the last audit, for Requirement R8 and Measure M8. ~~The Generator Owner shall keep data or evidence to show compliance with Requirement R8 Part 8.3 for three years.~~

**1.3. Compliance Monitoring and Enforcement Program:** As defined in the NERC Rules of Procedure, “Compliance Monitoring and Enforcement Program” refers to the identification of the processes that will be used to evaluate data or information for the purpose of assessing performance or outcomes with the associated Reliability Standard.

## Violation Severity Levels

R #	Violation Severity Levels			
	Lower VSL	Moderate VSL	High VSL	Severe VSL
<b>R1.</b>	The Generator Owner did not calculate the Extreme Cold Weather Temperature and identify generating unit(s) cold weather data in accordance with Requirement R1 for 5% or less of its <u>applicable</u> units.	The Generator Owner did not calculate the Extreme Cold Weather Temperature and identify generating unit(s) cold weather data in accordance with Requirement R1 for more than 5%, but less than or equal to 10% of its <u>applicable</u> units.	The Generator Owner did not calculate the Extreme Cold Weather Temperature and identify generating unit(s) cold weather data in accordance with Requirement R1 for more than 10%, but less than or equal to 20% of its <u>applicable</u> units.	The Generator Owner did not calculate the Extreme Cold Weather Temperature and identify generating unit(s) cold weather data in accordance with Requirement R1 for more than 20% of its <u>applicable</u> units.
<b>R2.</b>	The Generator Owner did not have freeze protection measure(s) for its applicable unit(s) meeting the criteria in Requirement R2 for 5% or less of its <u>applicable</u> units.  OR The Generator Owner did not develop a Corrective Action Plan to implement appropriate freeze protection measures for 5% or less of its applicable units.	The Generator Owner did not have freeze protection measure(s) for its applicable unit(s) meeting the criteria in Requirement R2 for more than 5%, but less than or equal to 10% of its <u>applicable</u> units.  OR The Generator Owner did not develop a Corrective Action Plan for more than 5%, but less than or equal to 10% of its <u>applicable</u> units.	The Generator Owner did not have freeze protection measure(s) meeting the criteria in Requirement R2 for more than 10%, but less than or equal to 20% of its <u>applicable</u> units.  OR The Generator Owner did not develop a Corrective Action Plan for more than 10%, but less than or equal to 20% of its <u>applicable</u> units.	The Generator Owner did not have freeze protection measure(s) meeting the criteria in Requirement R2 for more than 20% of its <u>applicable</u> units.  OR The Generator Owner did not develop a Corrective Action Plan for more than 20% of its <u>applicable</u> units.
<b>R3.</b>	The Generator Owner did not have freeze protection measure(s) meeting the criteria in Requirement R3 for	The Generator Owner did not have freeze protection measure(s) meeting the criteria in Requirement R3 for	The Generator Owner did not have freeze protection measure(s) meeting the criteria in Requirement R3 for	The Generator Owner did not have freeze protection measure(s) meeting the criteria in Requirement R3 for

	<p>5% or less of its <u>applicable</u> units.</p> <p>OR</p> <p>The Generator Owner did not develop a <u>CAPCorrective Action Plan</u> as required by Requirement R3 for 5% or less of its <u>applicable</u> units.</p> <p><del>2. OR</del></p> <p><del>The Generator Owner did not update its cold weather preparedness plan as required by Requirement R3 Part 3.2 for 5% or less of its units.</del></p>	<p>more than 5%, but less than or equal to 10% of its <u>applicable</u> units.</p> <p>OR</p> <p><del>3. The Generator Owner did not develop a <u>CAPCorrective Action Plan</u> as required by Requirement R3 for more than 5%, but less than or equal to 10% of its <u>units</u>.</del></p> <p><del>4. OR</del></p> <p><del>The Generator Owner did not update its cold weather preparedness plan as required by Requirement R3 Part 3.2 for more than 5%, but less than or equal to 10% of its <u>applicable</u> units.</del></p>	<p>more than 10%, but less than or equal to 20% of its <u>applicable</u> units.</p> <p>OR</p> <p><del>5. The Generator Owner did not develop a <u>CAPCorrective Action Plan</u> as required by Requirement R3 for more than 10%, but less than or equal to 20% of its <u>units</u>.</del></p> <p><del>6. OR</del></p> <p><del>The Generator Owner did not update its cold weather preparedness plan as required by Requirement R3 Part 3.2 for more than 10%, but less than or equal to 20% of its <u>applicable</u> units.</del></p>	<p>more than 20% of its <u>applicable</u> units.</p> <p>OR</p> <p>The Generator Owner did not develop a <u>CAPCorrective Action Plan</u> as required by Requirement R3 for more than 20% of its <u>applicable</u> units.</p> <p><del>7. OR</del></p> <p><del>The Generator Owner did not update its cold weather preparedness plan as required by Requirement R3 Part 3.2 for more than 20% of its units.</del></p>
<p><b>R4.</b></p>	<p>The Generator Owner implemented a cold weather preparedness plan(s) but failed to maintain it.</p>	<p>The Generator Owner’s cold weather preparedness plan failed to include one of the applicable Parts within Requirement R4.</p>	<p>The Generator Owner had and maintained a cold weather preparedness plan(s) but failed to implement it.</p> <p>OR</p> <p>The Generator Owner’s cold weather preparedness plan failed to include two of the</p>	<p>The Generator Owner does not have cold weather preparedness plan(s).</p> <p>OR</p> <p>The Generator Owner’s cold weather preparedness plan failed to include three or more</p>

			applicable requirement parts within Requirement R4.	of the applicable requirement parts within Requirement R4.
<b>R5.</b>	<p>The Generator Owner or Generator Operator failed to provide annual generating unit-specific training as described in Requirement R5 to the greater of:</p> <ul style="list-style-type: none"> <li>one applicable personnel at a single generating unit; or</li> <li>5% or less of its total applicable personnel.</li> </ul>	<p>The Generator Owner or Generator Operator failed to provide annual generating unit-specific training as described in Requirement R5 to the greater of:</p> <ul style="list-style-type: none"> <li>two applicable personnel at a single generating unit; or</li> <li>more than 5%, but less than or equal to 10% of its total applicable personnel.</li> </ul>	<p>The Generator Owner or Generator Operator failed to provide annual generating unit-specific training as described in Requirement R5 to the greater of:</p> <ul style="list-style-type: none"> <li>three applicable personnel at a single generating unit; or</li> <li>more than 10%, but less than or equal to 15% of its total applicable personnel.</li> </ul>	<p>The Generator Owner or Generator Operator failed to provide annual generating unit-specific training as described in Requirement R5 to the greater of:</p> <ul style="list-style-type: none"> <li>four <u>or more</u> applicable personnel at a single generating unit; or</li> <li>more than 15% of its total applicable personnel.</li> </ul>
<b>R6.</b>	<p>The Generator Owner developed a <u>CAPCorrective Action Plan</u>, but not within 150 days or by July 1 as required in Requirement R6.</p>	<p>The Generator Owner's <u>CAPCorrective Action Plan</u> failed to comply with one of the elements in Requirement R6, Parts 6.1 through 6.43.</p>	<p>The Generator Owner's <u>CAPCorrective Action Plan</u> failed to comply with two of the elements in Requirement R6, Parts 6.1 through 6.43.</p>	<p>The Generator Owner's <u>CAPCorrective Action Plan</u> failed to comply with three <del>or more</del> of the elements in Requirement R6, Parts 6.1 through 6.43.</p> <p>OR</p> <p>The Generator Owner did not develop a <u>CAPCorrective Action Plan</u>, as required by Requirement R6.</p>
<b>R7.</b>	<p>The Generator Owner implemented a <u>CAPCorrective Action Plan</u>, but failed to update the <u>CAPCorrective Action Plan</u> when corrective</p>	<p>The Generator Owner implemented a <u>CAPCorrective Action Plan</u>, but failed to include a timetable for implementing the selected</p>	<p>The Generator Owner implemented a <u>CAPCorrective Action Plan</u>, but failed to implement the Corrective Action Plan within the</p>	<p>The Generator Owner failed to implement a <u>CAP in accordance with Requirement R7, Corrective Action Plan</u> or failed to document in a</p>

	action(s) changed in accordance with Requirement R7.	corrective actions meeting the criteria of Requirement R7 Part 7.1.	specified timetable <del>in accordance with Requirement R7 Part 7.2,</del> or failed to update the Corrective Action Plan, with justification, when timetable(s) exceeded the timelines in Requirement R7 Part 7.1 <del>in accordance with Requirement R7 Part 7.3.</del>	declaration why corrective actions are not being implemented in accordance with Requirement R7 <del>Part 7.4.</del>
R8.	<u>N/A</u>	<del>The Generator Owner failed to comply with one of the elements in Requirement R8, Parts 8.1 through 8.3.</del> <u>N/A</u>	The Generator Owner failed to comply with <del>two</del> <u>one</u> of the elements in Requirement R8, Parts 8.1 through 8. <del>3</del> <u>2</u> .	The Generator Owner failed to comply with <del>any</del> <u>all</u> of the elements in Requirement R8, Parts 8.1 through 8. <del>3</del> <u>2</u> .

### D. Regional Variances

None.

### E. Associated Documents

Implementation Plan



## Version History

Version	Date	Action	Change Tracking
1	October 1, 2024	Drafted by Project 2021-07	New
2	TBD	Revisions drafted by Project 2021-07 due to FERC Order and inquiry Recommendations.	Revisions