

**NERC**

NORTH AMERICAN ELECTRIC  
RELIABILITY CORPORATION

# Emergency Operations and Preparedness

Implementation Guidance for Reliability Standard  
EOP-011-2

April 2021

**RELIABILITY | RESILIENCE | SECURITY**



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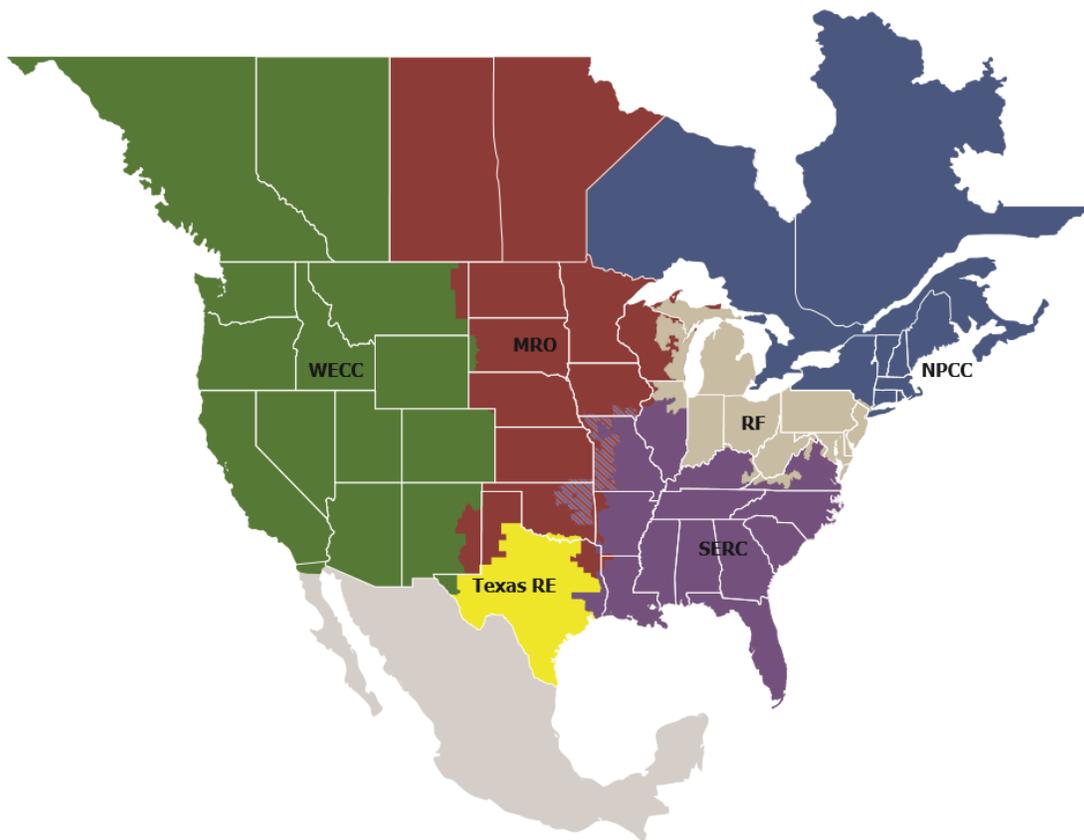
# Preface

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Electricity is a key component of the fabric of modern society and the Electric Reliability Organization (ERO) Enterprise serves to strengthen that fabric. The vision for the ERO Enterprise, which is comprised of the North American Electric Reliability Corporation (NERC) and the six Regional Entities (REs), is a highly reliable and secure North American bulk power system (BPS). Our mission is to assure the effective and efficient reduction of risks to the reliability and security of the grid.

Reliability | Resilience | Security  
*Because nearly 400 million citizens in North America are counting on us*

The North American BPS is divided into six RE boundaries as shown in the map and corresponding table below. The multicolored area denotes overlap as some load-serving entities participate in one Region while associated Transmission Owners/Operators participate in another.



<b>MRO</b>	Midwest Reliability Organization
<b>NPCC</b>	Northeast Power Coordinating Council
<b>RF</b>	ReliabilityFirst
<b>SERC</b>	SERC Reliability Corporation
<b>Texas RE</b>	Texas Reliability Entity
<b>WECC</b>	Western Electricity Coordinating Council

# Introduction

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This Implementation Guidance was prepared to provide example approaches for compliance with EOP-011-2. Implementation Guidance does not prescribe the only approach but highlights one or more approaches that could be effective in achieving compliance with the standard. Because Implementation Guidance only provides examples, entities may choose alternative approaches that better fit their individual situations.<sup>1</sup> This Implementation Guidance for EOP-011-2 is not a Reliability Standard and should not be considered mandatory and enforceable.

Responsible entities may find it useful to consider this Implementation Guidance document along with the additional context and background provided in the SDT developed Technical Rationale and Justification for the modifications to EOP-011-2.

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<sup>1</sup> [NERC's Compliance Guidance Policy](#)

# Requirement R7

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## General Considerations for Requirement R7

None

## Implementation Guidance for R7

The Generator Owner determines the definition of cold weather based on their generating unit(s)'s geographical location, climate, and the Generator Owner's experience with operations during local cold weather events. A Generator Owner may utilize an additional resource to develop their definition of cold weather, such as one or more commonly used industry resources (e.g. the National Weather Service Climate Predictions Center maps sponsored by the National Oceanic and Atmospheric Administration which depicts average annual extreme minimum temperatures within the United States), but the requirement does not dictate any specific definition for cold weather.

For any analysis to determine the "minimum historical operating temperature", it is recommended that the analysis be based on no less than five (5) years of operational data, but should include the most recent extreme cold weather event data available if outside the five year timeframe.

Requirement R7 does not requires a Generator Owner to install any specific freeze protections measures on their generating unit(s). The cold weather preparedness plan must contain, however, information on freeze protection measures currently in place, if any, as identified by the Generator Owner. Requirement R7 does not supplant the discretionary decision-making of the Generator Owner as to the appropriate level of freeze protection measures for its generating unit(s) or dictate a baseline or minimal level of freeze protection measures that must be utilized.

## Requirement R8

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### General Considerations for Requirement R8

None

### Implementation Guidance for R8

No specific training method or process is specified within Requirement R8. Each Generator Operator or Generator Owner should determine who will be responsible for training of the maintenance and operations personnel and develop training to address the details of the Generator Owner's cold weather preparedness plan(s).