Reliability & Security Oversight Update

WECC

November 20, 2025
2:00–3:00 p.m. Mountain

WECC

Reliability & Security Oversight Update

Mailee Cook
Training & Outreach Specialist

Electric Reliability & Security for the West

November 20, 2025

Oversight Trends Update—Latest Release

WECC

Oversight Trends Update

Data as of November 1, 2025

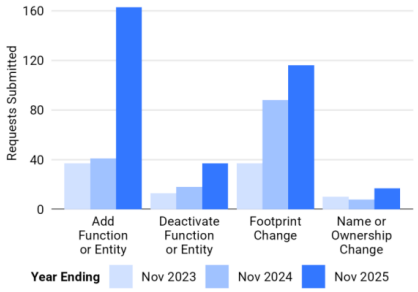
Highlights

- A recent FERC order highlights the importance of candor and integrity in CMEP activities. Entities have an obligation to ensure ethical standards are followed both within their organizations and in any third parties they engage. WECC has observed an increase in self-reports caused by inadequate entity oversight of third parties.
- The October Reliability & Security Workshop in San Diego focused on technical content intended for subject-matter experts. Sessions covered strategies to mitigate key risks, including large loads, the changing resource mix, inverter-based resource (IBR) risks, extreme weather preparedness, and incident response. Separate content tracks targeted entities with high or medium/low inherent risk.
- The ERO Enterprise deployed Align Release 7.4 in September. The update included bug fixes and new functionality for self-reports/self-logs and mitigation.

Registration Changes

The Organization Registration and Certification Program (ORCP) registers users, owners, and operators responsible for meeting the requirements of mandatory NERC Reliability Standards. WECC also recommends BC entities for registration with the British Columbia Utilities Commission (BCUC).

Observation: Registration activities are underway for owners and operators of Category 2 IBRs, reflected in the significant increase in requests to add a function or entity. Over 90 reviews are complete, with all reviews for existing IBRs expected ahead of the May 2026 effective date.



Entities as of Nov 2025				
	US	BC	AB	MX
BA	34	1		
DP/DPUF	80	17		
GO	364	18		
GOP	255	18		
PC	32	1		
RC	2	1		
RP	50	2		
TO	85	4		
TOP	51	3		
TP	66	3		
TSP	34	2		
ISO			1	
Entities	**486**	**31**	**1**	**1**

WECC

Board of Director Meetings

WECC Office | Salt Lake City, UT

NERC Self-Report & Mitigation Training

January 27–28, 8:30 a.m.–3:30 p.m. PST | Los Angeles, California

Join us in Cleveland, Ohio February 26 for the

2026 ERO Women's Leadership Conference

Opening Remarks
from Joanna Burkey,
Founder & Principal of
Flat Rock Advisory

Resource Diversity & Resource Mix

How the Unique Attributes of Women can be Leveraged to Optimize Success

Power Transfer & Relying on Neighbors

Networking and Mentorships

Security & Resilience

How Women in the Energy Sector are Ascending the Corporate Ladder and Navigating Challenges

Human Performance

Fireside Chat Discussing Mental and Physical Well-being

Antitrust Policy

- All WECC meetings are conducted in accordance with the WECC Antitrust Policy and the NERC Antitrust Compliance Guidelines
- All participants must comply with the policy and guidelines
- This meeting is public—confidential or proprietary information should not be discussed in open session

Antitrust Policy

- This webinar is being recorded and will be posted publicly
- By participating, you give your consent for your name, voice, image, and likeness to be included in that recording
- WECC strives to ensure the information presented today is accurate and reflects the views of WECC
- However, all interpretations and positions are subject to change
- If you have any questions, please contact WECC's legal counsel

How to Participate

Send questions and concerns via Chat

Use the “Raise Hand” feature and share

Agenda

- **2025 Annual Self-Certification**
  - Angela Shapiro, Manager, Oversight Analysis & Administration, WECC
- **NERC & WECC Happenings**
  - Fahad Ansari, Senior Technical Advisor, WECC
- **2026 CMEP Implementation Plan**
  - Fahad Ansari, Senior Technical Advisor, WECC
- **Cold Weather Update**
  - Curtis Crews, Senior Technical Advisor, WECC
- **Standards Happenings and WECC Standards Committee Overview**
  - Donovan Crane, Senior Engineer, Standards, WECC
- **Inverter-based Resources Initiative Update**
  - Abby Fellinger, Senior Registration & Certification Engineer, WECC
- **CIP-012-2**
  - Mike Krum, Cybersecurity Auditor, WECC
  - Don Kuntz, Cybersecurity Auditor, WECC

WECC

2025 Annual Self-Certification

Angela Shapiro
Manager, Oversight Analysis & Administration

Electric Reliability & Security for the West

November 20, 2025

Self-Certification Update

- Monitoring Period: 2025 calendar year
- Notification Date: December 15, 2025
- Due Date: March 2, 2026

Resources

- Training materials on NERC's Align and SEL page
  - Self-Certification User Guide
  - Attestations User Guide

WECC

NERC and WECC Happenings

Fahad Ansari
Senior Technical Advisor

Electric Reliability
& Security for the West

- 2026 CMEP Implementation Plan
- Frequency Response Obligation Allocation for Operating Year 2026
- Implementation Guidance TPL-001-5.1 Trip Circuit Monitoring
- 2025 NERC-NATF-EPRI Annual Transmission Planning and Modeling Workshop

- Periodic Data Submittal for EOP-012-3 R8 Webinar
- Reliability in the West Discussion Series: Winter Outlook
- Inverter-Based Resource Disturbances in the Western Interconnection
- 2024 Misoperations Report
- Fall 2025 Grid Fundamentals

WECC

2026 CMEP Implementation Plan

Fahad Ansari
Sr. Technical Advisor

Electric Reliability & Security for the West

November 20, 2025

What is the CMEP IP?

- Input into oversight of registered entities
- Regional and continent-wide risks
- NERC and the Regional Entities work together
- Guides in determining appropriate monitoring of the risk

How is the CMEP IP Developed?

- 2025 ERO Reliability Risk Priorities Report
- Long-term Reliability Assessment
- 2024 State of Reliability Report
- EROE Strategic Plan
- Compliance findings
- Event analysis

Risk Elements

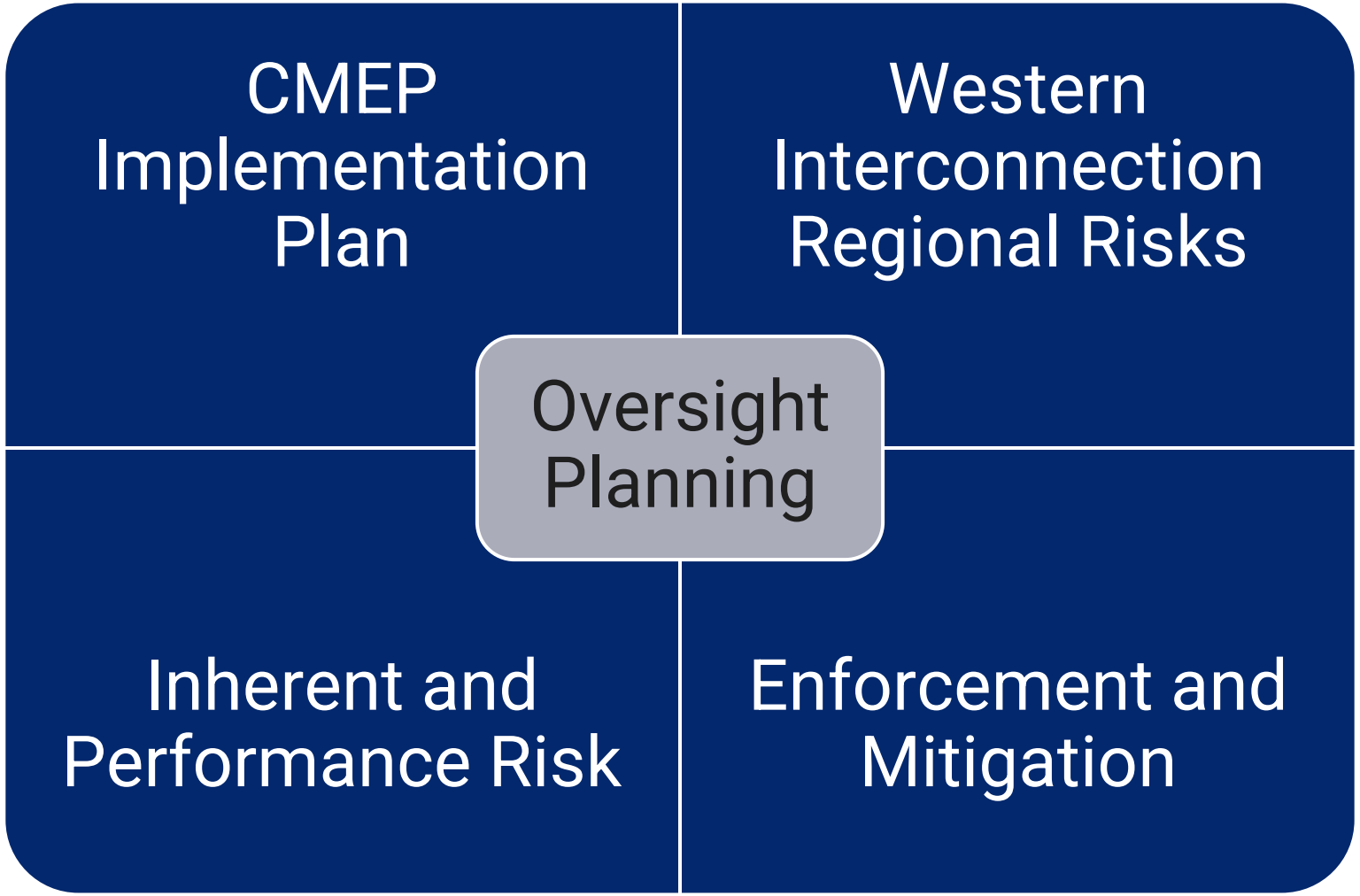
2025	2026
Remote connectivity	Remote connectivity
Supply chain	Supply chain
Physical security	Physical security
Incident response	**Grid transformation**
Transmission planning and modeling	Facility ratings
Inverter-based resources	Extreme weather response
Facility ratings	
Extreme weather response	

Notable Changes

- Areas of focus
  - Supply chain
    - Removed CIP-013 R2
    - Added CIP-013-2 R1 and CIP-007-6 R2
  - Physical security
    - Added CIP-006-6 R1
  - Extreme weather response
    - EOP-012 Version Update
    - Added FAC-003-5 R6
  - Grid transformation
    - Includes CIP-002-5.1a R1, CIP-004-7 R6, and CIP-011-3 R1

Grid Transformation

Risk-based Compliance Monitoring



WECC

Cold Weather Update

Curtis Crews
Senior Technical Advisor

Electric Reliability
& Security for the West

WECC

NERC and WECC Standards Updates

Donovan Crane
Senior Engineer, Standards

Electric Reliability
& Security for the West

Standards Updates—FERC Order 901 Milestone 4 Projects

- 2025-03 Order No. 901 Operational Studies
  - DT will be requesting SC authorization in December to revise definitions/standards outlined in the SAR
- 2025-04 Order No. 901 Planning Studies
  - DT is submitting two request to the SC for the December 9 meeting
    1) Request to modify or create new standard
    2) Re-assign two out of the three SARs from Project 2022-02 Uniform Modeling to Project 2025-04 Planning Studies
- In-person meetings first week of December
- Looking to have a workshop held end of February or beginning of March

Standards Update—Other NERC Projects

- 2022-04 EMT Modeling
  - Out for initial Comment and Ballot period October 5–November 21
- 2024-02 Planning Energy Assurance
  - Out for initial Comment and Ballot October 21–December 10
- 2025-06 Supply Chain Risk Management
  - SAR Comment Period October 23–November 21
- 2025-05 Order 909 Ride Through Revisions
  - SAR Comment Period October 28–December 18
- 2023-06 CIP-014 Risk Assessment Refinement
  - Posting for a fourth ballot was halted because NERC wanted to reach out to the Regional Entities and industry groups to ensure concerns have been addressed
- 2025-02 Internal Network Security Monitoring Standard Revision
  - Tentative posting period set for December 1, 2025, through January 17, 2026

Standards Update—WECC Projects

- WECC-0157: PRC-006-5 Automatic Underfrequency Load Shedding, Update to the WECC Regional Variance
  - Drafting team is working on responding to comments
  - Next meeting is scheduled for December 4, 10:00–11:30 a.m. Mountain
- WECC-0158: IRO-002-7, Reliability Coordination—Monitoring and Analysis with WECC Regional Variance, Five-Year Review
  - Drafting team slate to be presented to WSC on November 24
- WECC-0159: IRO-006-WECC-3 Qualified Path Unscheduled Flow (USF) Relief, Five-Year Review
  - Drafting team slate to be presented to WSC on November 24

Standards Update—WSC

- WECC Standards Committee Membership:
  - Seeking Segment 7 Representation

Segment	Representative	Company
1–Transmission Owners	Ronald Sporseen	Bonneville Power Administration
2–Regional Transmission Organizations (RTO) and Independent System Operators (ISO)	Alan Wahlstrom	Southwest Power Pool
3–Load-Serving Entities (LSE)	Curtis Pavard	Burbank Water & Power
4–Transmission Dependent Utilities (TDU)	Kevin Conway	Western Power Pool
5–Electric Generators	Adrian Andreoiu	British Columbia Hydro and Power Authority
6–Electricity Brokers, Aggregators, and Marketers	Tim Kelley	Sacramento Municipal Utility District
7–Large Electricity End Users	Currently Vacant	
8–Small Electricity Users	Kellie Macpherson	Radian Generation
9–Federal, State, and Provincial Regulatory or other Government Entities	Christopher McLean	California Energy Commission
10- Regional Entities	Steven Rueckert	WECC

Standards Updates—MSPPTF

- Modernization of Standards Process and Procedures Task Force
  - Has held outreach and input events socializing current suggestions and working to help add clarity to those suggestions.
  - Will be taking the feedback received from the recent comment period and various outreach events and getting formal recommendations ready for the NERC Board in February 2026.

WECC

Inverter-based Resources Initiative Updates

Abby Fellinger
Senior Registration & Certification Engineer

Electric Reliability & Security for the West

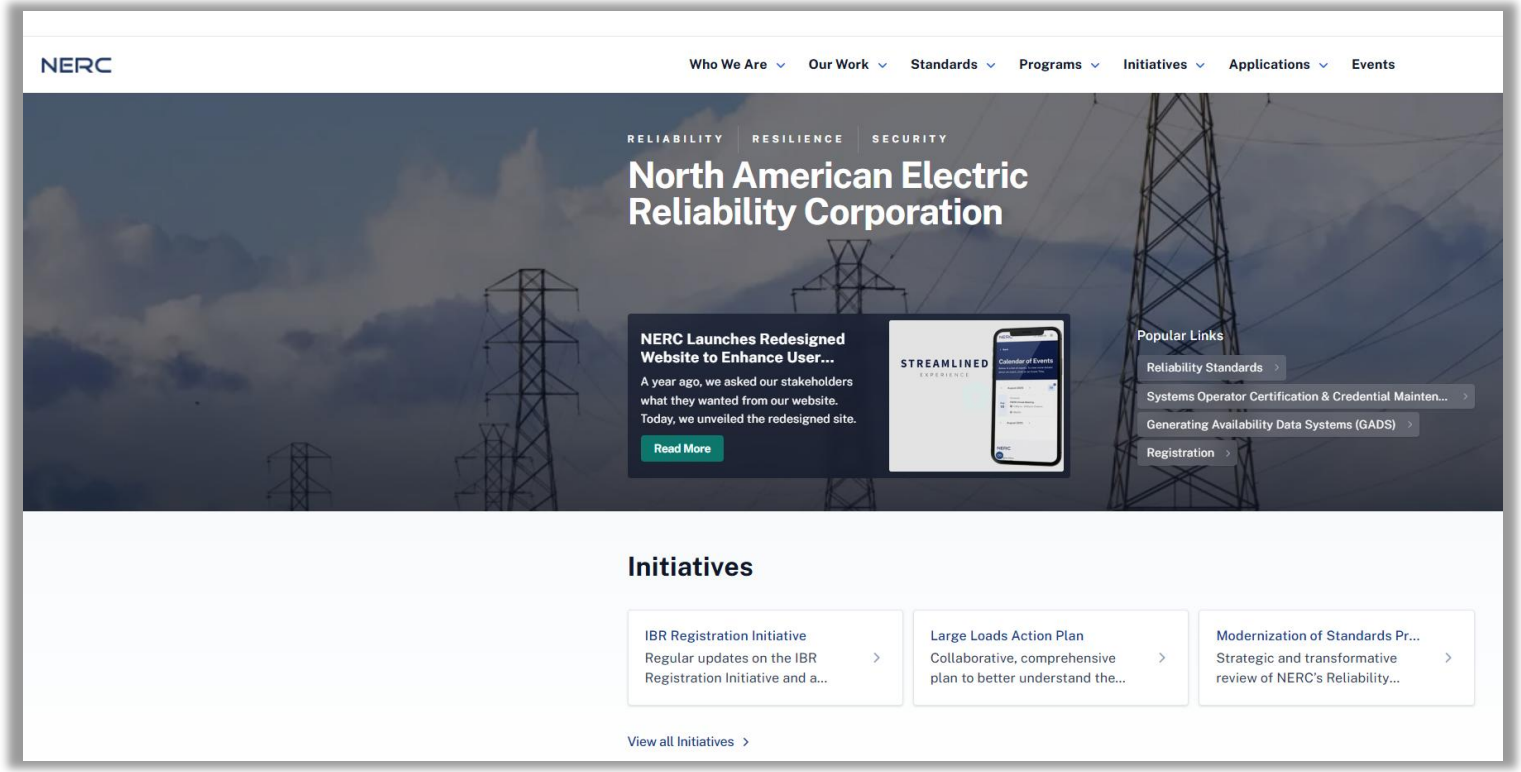
November 20, 2025

Quick Updates

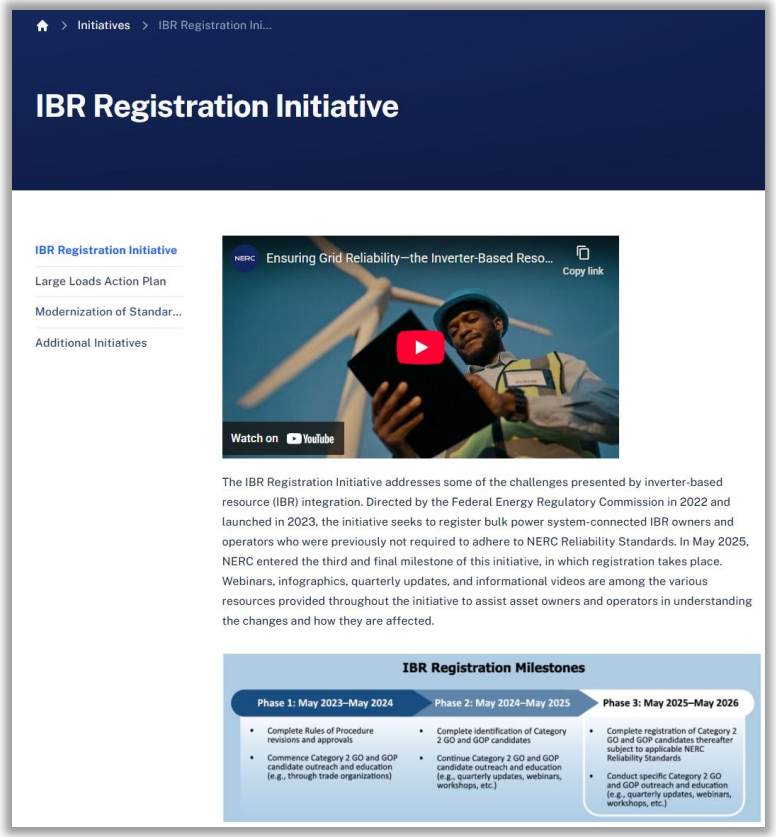
- On October 31, 2025, NERC filed an IBR Work Plan Update with FERC
  - The update reflects the progress of processing NERC registrations related to Category 2 Generator Owners (GO) and Category 2 Generator Operators (GOP)
- **As of November 14, 60 NERC registration notifications have been issued pertaining to Category 2 GO registrations in the WECC region**
  - In WECC, 8 existing registered entities added the Category 2 GO function or both the Category 2 GO/GOP functions. A total of 39 Category 2 assets pertain to these 8 existing registrations
  - In WECC, 52 entities have been processed as new Category 2 GO or Category 2 GO/GOP registrations. A total of 60 Category 2 assets pertain to these new GO or GO/GOP registrations
    - 42 entities registered as Category 2 GOs only
    - 10 entities registered as both Category 2 GOs and Category 2 GOPs
  - In addition, 15 entities activated or registered as Category 2 GOPs only in the WECC region

NERC Launches Redesigned Website

North American Electric Reliability Corp | Home



IBR Registration Initiative



WECC Registration Information

WECC Registration Website

Registration Contacts | Registration@wecc.org

- Mark Rogers | Manager, Registration & Certification | mrogers@wecc.org
- Abby Fellinger | Senior Registration & Certification Engineer | afellinger@wecc.org
- Andrew Williamson | Senior Registration & Certification Engineer | awilliamson@wecc.org
- Chris Murphy | Senior Registration & Certification Engineer | cmurphy@wecc.org
- Sarah Mitchell | Staff Engineer, Registration | smitchell@wecc.org

WECC

CIP-012-2

Mike Krum
Cyber Security Auditor

Don Kuntz
Cyber Security Auditor

Electric Reliability
& Security for the West

November 20, 2025

Agenda

- Effective Date
- FERC Order No. 866
- What Changed
- Requirement R1.1
- Requirement R1.2
- Requirement R1.3
- Requirement R1.4
- Requirement R1.5

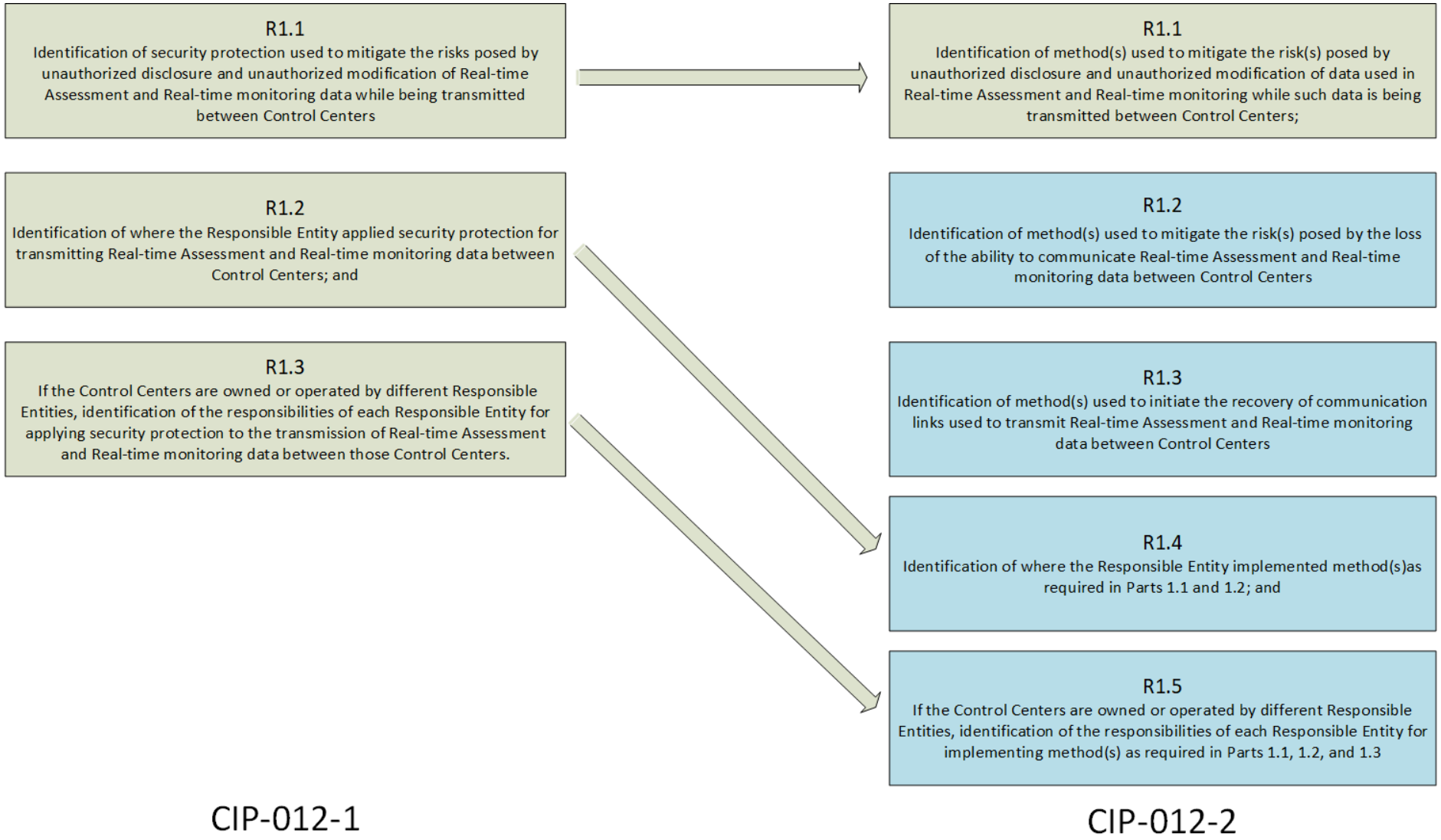
Effective Date

- Regulatory order effective date (FERC approval): May 23, 2024
- Effective date: July 1, 2026
- Audit notices on or after March 1, 2026; may include CIP-012-2

FERC Order No. 866

- On January 23, 2020, FERC issued Order No. 866 approving CIP-012-1 and directing NERC to develop modifications to CIP-012-1 to require Responsible Entities to develop one or more plans to implement protections for the availability of communication links and data communicated between the BES Control Centers.
- FERC also stated, “maintaining the availability of communication networks and data should include provisions for incident recovery and continuity of operations in a Responsible Entity’s compliance plan.”

What Changed



Requirement 1.1

Identification of methods used to mitigate the risks posed by unauthorized disclosure and unauthorized modification of data used in Real-time Assessment and Real-time monitoring while such data is being transmitted between Control Centers

Requirement 1.2

Identification of methods used to mitigate the risk posed by the loss of the ability to communicate Real-time Assessment and Real-time monitoring data between Control Centers

Requirement 1.2

- Identification of alternative communication paths between Control Centers
- Identifying redundant equipment
- Alternate systems of data transmission
- Cyber protections for the circuits are a few potential methods of maintaining the ability to communicate

Requirement 1.3

Identification of method(s) used to initiate the recovery of communication links used to transmit Real-time Assessment and Real-time monitoring data between Control Centers

- CIP-012 plan, the information needed to initiate the recovery of data communication links should they be interrupted
- Objective is consistent with the TOP and IRO Standards
- Sharing data with other Responsible Entities, support responsibilities and restoration alignments can be documented in a variety of methods such as a joint procedure, a memorandum of understanding, contractual agreements, meeting minutes, or other documentation of the defined responsibilities between the two parties

Requirement 1.4

Identification of where the Responsible Entity implemented method(s) as required in Parts 1.1 and 1.2; and (Note: CIP-005-8 R1.6)

- Environment when identifying where security and availability protections
- Implement the protections within the Control Center itself to ensure that data confidentiality and integrity
- Security protection is applied using a logical or physical location
- Operational obligations of an entire communication link, including both endpoints, belong to the Control Center of another Responsible Entity
- Control Center diagram showing physical or logical security controls and components used to provide availability protections

Requirement 1.5

If the Control Centers are owned or operated by different Responsible Entities, identification of the responsibilities of each Responsible Entity for implementing method(s) as required in Parts 1.1,1.2, and 1.3.

- Operational relationships between Responsible Entities are unique
- No single way to identify responsibilities for applying security and availability protections to the transmission of Real-time Assessment and Real-time monitoring data between Control Centers
- Responsible Entities might identify requirements for after-hours support in situations where data availability is reliant on independent actions such as an Inter-Control Center Communications Protocol (ICCP) link reset
- Responsibilities must be documented to clearly identify the responsible parties and the point of demarcation where responsibility of the communications link transfers from one entity to the other

Questions?


Reliability & Security
Oversight Update
WECC
December 18, 2025
2:00–3:00 p.m. Mountain

WECC

WWW.WECC.ORG | (801) 582-0353

155 N 400 W, Salt Lake City, UT 84103, USA