Reliability & Security
Oversight Update
WECC
July 17, 2025
2:00–3:00 p.m. Mountain

WECC

# Reliability & Security Oversight Update

**Mailee Cook**
*Training and Outreach Coordinator*

**Electric Reliability**
**& Security for the West**

July 17, 2025

RELIABILITY
IN THE WEST
A DISCUSSION SERIES

# NERC Modernization of Standards Processes and Procedures Taskforce (MSPTFF)

- July 21, 10:30–11:30 a.m. Mountain: NERC webinar
- August 7, 2:00–3:00 p.m. Mountain: WECC regional webinar

Power Systems
Security Conference
2025
WECC

Grid
FUNDAMENTALS
Tuesday, August 19–20
Salt Lake City, Utah

# GridEx

Hosted every two years by the E-ISAC, GridEx gives E-ISAC member and partner organizations a forum in which to practice how they would respond to and recover from coordinated cyber and physical security threats and incidents.

- GridEx VIII will be held on November 18-19, 2025
- GridEx VII had more than 15,000 participants
- The E-ISAC releases a public report after every GridEx
- Register here: https://www.eisac.com/s/register-for-gridex.

GridEx

# New Participation Options

## Standard Scenario

- Default GridEx experience
- Move Zero in the week leading up to the exercise
- 2-day full-scale exercise
- Cyber and physical attack scenario unfolding in real-time
- Extra focus on recovery to end the exercise
- Engage all aspects of organizational response
- Partner with external organizations
- Enhance your exercise with media and social media simulation
- Access to the Exercise E-ISAC Portal

## GridEx in a Box

- 2-day functional exercise
- Abbreviated scenarios customized for smaller planning teams
  - Cyber-focused scenario
  - Physical-focused scenario
- Specialized Exercise Plan designed for staging a real-time exercise on limited resources
- Aligns with the Standard Scenario, enabling external engagement
- Media and social media simulation
- Access to the Exercise E-ISAC Portal

## Tabletop Scenario

- 1-day Discussion-based Tabletop Exercise
- Designed to be "Plug and Play"
- Facilitator guide and slide deck, enabling a single person to deliver a challenging exercise
- Engage internal and external partners in a broad discussion
- In-person or remote

# GridSecCon 2025

- October 7 – 10, 2025 | MGM Grand, Las Vegas, NV
- Over 650 professionals from industry, government, and regional entities
- Ideal for security, reliability, compliance, and executive roles
- Regular registration open through September 23
- Hands-on trainings and sessions with practical strategies to boost security and reliability

**Register here**

Reliability & Security Workshop
WECC
October 14–15, 2025
San Diego, California

# 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

# Participating

- Send questions via chat to WECC Meetings
- Use the “raise hand” feature in Webex

# Agenda

- NERC & WECC Happenings
  - Fahad Ansari, Senior Technical Advisor, WECC
- Cold Weather Update
  - Curtis Crews, Senior Technical Advisor, WECC
- NERC and WECC Standards Updates
  - Donovan Crane, Senior Engineer, Standards, WECC
- Inverter-based Resources Initiative Update
  - Abby Fellinger, Senior Registration & Certification Engineer, WECC
- Andrew Williamson, Senior Registration & Certification Engineer, WECC
  - Mark Rogers, Manager, Registration & Certification, WECC
- Updating Information Delivery
  - Angela Shapiro, Manager, Oversight Analysis and Administration, WECC

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# NERC and WECC Happenings

**Fahad Ansari**
*Sr. Technical Advisor, Oversight Planning*

# NERC and WECC Happenings

- **Recently Effective Standards:**
  - IRO-010-5—Reliability Coordinator Data and information Specification and Collection
  - TOP-003-6.1—Transmission Operator and Balancing Authority Data and Information Specification and Collection.
- **ERO Enterprise Risk Factors and Risk Categories**
- **Event Analysis Shares New Lesson Learned**
  - Loss of Monitoring and Control Due to a Communication Failure Between
  - Control Centers
- **NERC Webinar for Registration Process for Category 2 Generator Owner and Generator Operator IBRs**
- **Level 3 Alert— IBR Performance and Modeling**
  - Reporting due: August 18

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# Cold Weather Update

**Curtis Crews**
*Senior Technical Advisor*

WECC

# NERC and WECC Standards Update

**Donovan Crane**
*Senior Engineer, Standards*

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# NERC Standards Happenings

- Order 901 Related Projects Ballot and Comment Period 2
  - Anticipated to post August 8 for 30 days
- 2023-06 CIP-014 Risk Assessment Refinement | Draft 3
  - Ballot Period July 11–21, 2025
- Drafting Team Nominations
  - Project 2023-07 Transmission System Planning Performance Requirements for Extreme Weather (June 18–July 17, 2025)
- Modernization of Standards Processes and Procedures Task Force (MSPPTF)
  - MSPPTF Industry Briefing—Monday, July 21, 12:30–1:30 p.m. Eastern

# WECC Standards Happenings

- WECC-0157: PRC-006-5 Automatic Underfrequency Load Shedding, Update to the WECC Regional Variance
  - Drafting team solicitation open through July 18
- WECC-0142: Request to Retire BAL-002-WECC-3, Contingency Reserve
  - Filing with NERC this week
  - Will go out for 45-day NERC comment period (Process related)
- WECC Standards Committee
  - Segments 1, 4, 7, 8, and 9 terms conclude at the close of the 2025 WECC Annual Meeting
  - Segments 3, 7, and 8 are vacant
  - If interested, please fill out a DT nomination form found on the Standards Under Development page of WECC.org and select WECC-000: WECC Standards Committee as the project for which you are nominating

# WECC Standards Committee

## Guide and oversee the Standards Development Process

- Reliability Standards, Variances, and Criteria
- Commenting
- Balloting
- Filing with NERC and FERC

# What does the WECC Standards Committee Do?

| | |
|---|---|
| Serves 2-year term with no limit on terms | • Five segments renewed every year |
| WSC prioritizes work and sets the starting date for drafting projects | |
| WSC either directly assigns or solicits drafting team member nominations | • The WSC then approves drafting team members<br>• May augment, modify, or replace drafting team members as needed |
| WSC authorizes balloting of drafting project's work | |
| WSC must approve forwarding final documents from drafting projects to the WECC Board for approval | |

# What the WECC Standards Committee DOES NOT Do

- Does NOT
  - Write the Standards
  - Approve the Standards

Involved stakeholders draft and approve the Standards

# Getting Involved with the WSC

## Current WSC Roster

| Segment | Representative | Company |
|---|---|---|
| 1–Transmission Owners | Ronald Sporseen | Bonneville Power Administration |
| 2–Regional Transmission Organizations (RTOs) and Independent System Operators (ISOs) | Alan Wahlstrom | Southwest Power Pool |
| 3–Load-Serving Entities (LSEs) | Currently Vacant | |
| 4–Transmission Dependent Utilities (TDUs) | Paul Rodriguez | Imperial Irrigation District |
| 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 | Currently Vacant | |
| 9–Federal, State, and Provincial Regulatory or other Government Entities | Christopher McLean | California Energy Commision |
| 10- Regional Entities | Steven Rueckert | WECC |

- The term of service for Standard Voting Segment (SVS) 3 begins when filled and ends at the close of the 2026 WECC Annual Meeting.
- All other SVSs will begin their two-year term of service at the close of the 2025 WECC Annual Meeting and end at the close of the 2027 WECC Annual Meeting.
- Nominations can be submitted by completing a WECC Drafting Team Nomination form located on the Standards Under Development Page of WECC.org. Please select “WECC-0000: WECC Standards Committee” as the project you are nominating for.

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# Inverter-based Resources Initiative Updates

**Mark Rogers**
*Manager, Registration & Certification*

**Abby Fellinger**
*Senior Registration & Certification Engineer*

**Andrew Williamson**
*Senior Registration & Certification Engineer*

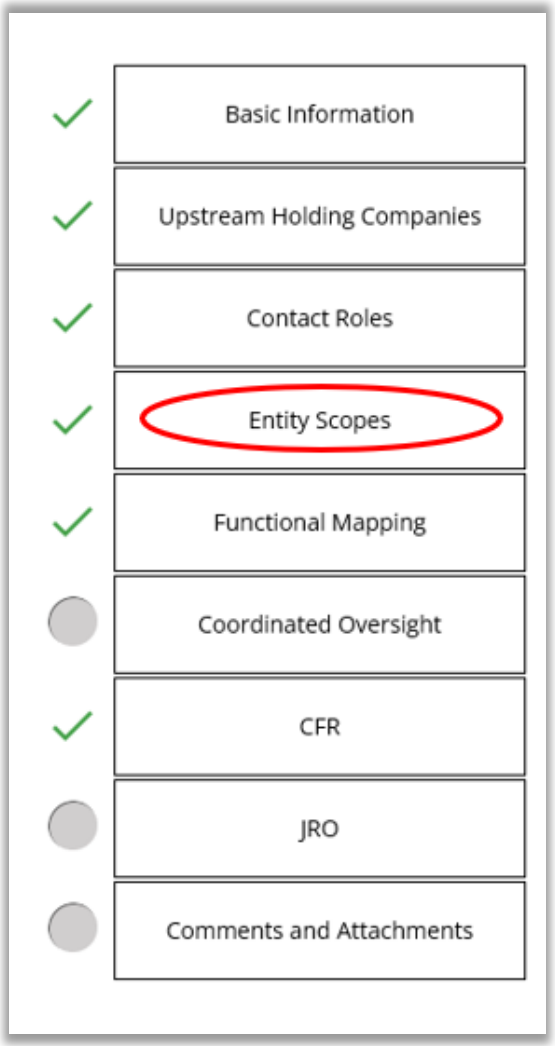
# Agenda

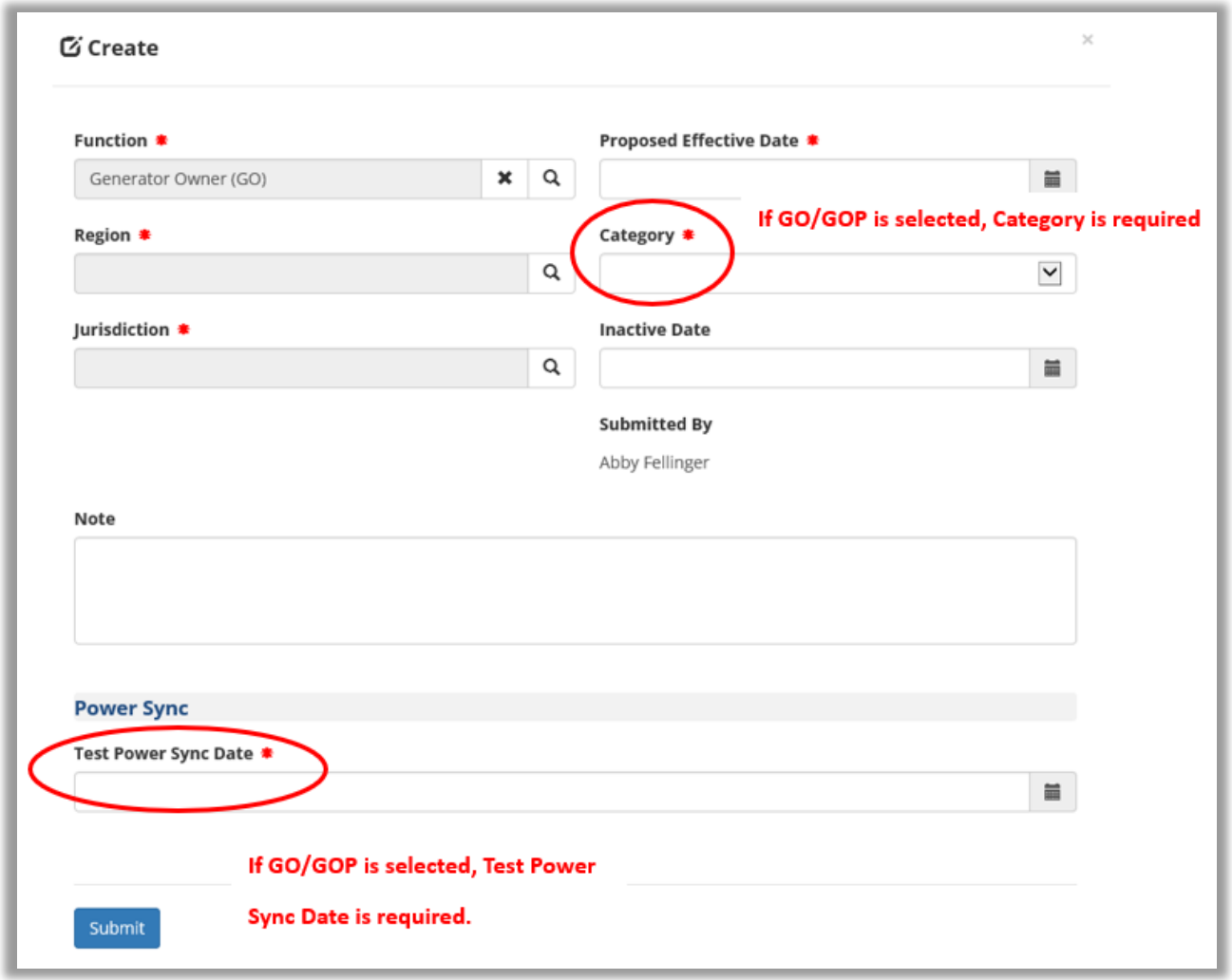
## Today's discussion

- Summary of the ERO Enterprise Webinar on July 14, 2025: Registration Process for Category 2 GO and GOP IBRs
  - Regional review and assessment
  - ERO Portal/CORES
  - Notification letter from NERC
    - Advanced notification process from August 2025 to May 2026
  - NCR updated and published on 5/15/2026 for Category 2 GO and GOP
- Resources

# New Functionality in the ERO Portal/CORES

ERO Portal: https://eroportal.nerc.net



# Soft Release Trial

- To ensure that we have a smooth experience for new and existing registered entities on August 1, 2025, the ERO Enterprise has initiated a trial with a few entities.
  - These entities were identified as Category 2 entities and are supporting the release by volunteering to go through the Category 2 registration process.

# NERC Compliance Registry (NCR) – Updated View

- Next NCR public posting is scheduled on or before August 1, 2025
  - Existing GO and GOP will be relabeled as GO Category 1 (GO-1) or GOP Category 1 (GOP-1)
  - A mass communication will be sent out about this update
  - No changes to compliance responsibilities
  - Category 2 entities will be included in the NCR Matrix on May 15, 2026

| Regional Compliance Enforcement Authority | Jurisdiction | BA | DP | GO Category 1 | GO Category 2 | GOP Category 1 | GOP Category 2 | PCSPA |
|---|---|---|---|---|---|---|---|---|
| MRO | United States | | | GO-1 (02/06/2015) | | GOP-1 (02/06/2015) | | |
| MRO | United States | | | | | GOP-1 (07/01/2016) | | |
| MRO | United States | | DP (05/31/2007 | GO-1 (05/31/2007) | | GOP-1 (05/31/2007) | | |
| MRO | United States | | | | | | | |
| MRO | United States | | | GO-1 (05/01/2019) | | GOP-1 (05/01/2019) | | |
| MRO | United States | | | | | GOP-1 (03/23/2021) | | |
| MRO | United States | BA (05/30/2007) | DP (05/30/2007 | GO-1 (05/30/2007) | | GOP-1 (05/30/2007) | | |
| MRO | United States | BA (05/30/2007) | DP (05/30/2007 | GO-1 (05/30/2007) | | GOP-1 (05/30/2007) | | |
| MRO | United States | | | GO-1 (03/02/2021) | | GOP-1 (03/02/2021) | | |
| MRO | United States | | DP (10/16/2020 | | | | | |
| MRO | United States | | DP (05/31/2007 | GO-1 (05/31/2007) | | GOP-1 (05/31/2007) | | |

# Next Steps with CORES

- Full release planned for August 1, 2025
  - Entities can begin submitting requests.
  - Regional Entities will begin processing requests.
  - User guides and training materials will be released.
- ERO Enterprise Interim Plan: August 1, 2025 – April 1, 2026
  - Monthly targets managed by Regional Entities.

CORES
CENTRALIZED ORGANIZATION REGISTRATION ERO SYSTEM

<Public>

# Quick Reference Guide | Expanding Your Registration

## Quick Reference Guide: IBR Registration Initiative

NERC
NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION

IBR REGISTRATION INITIATIVE

### Quick Reference Guide: IBR Registration Initiative

July 2025

As part of its *Inverter-Based Resource Strategy*, NERC is dedicated to identifying and addressing challenges associated with inverter-based resources (IBR) as the penetration of these resources continues to increase. ERO Enterprise assessments identified a reliability gap associated with the increasing integration of IBRs as part of the grid in which a significant level of bulk power system-connected IBR owners and operators are not yet required to register with NERC or adhere to its Reliability Standards. In response, FERC issued an order in 2022 directing NERC to identify and register owners and operators of currently unregistered bulk power system-connected IBRs. Working closely with industry and stakeholders, NERC is executing a FERC-approved work plan to achieve the identification and registration directive by 2026.

This visual dashboard allows stakeholders to easily locate key project updates and resource documents and is updated regularly. Resources are also posted on the Registration page of the NERC website.

**IBR Registration Milestones**

| Phase 1: May 2023–May 2024 | Phase 2: May 2024–May 2025 | Phase 3: May 2025–May 2026 |
|---|---|---|
| • Complete Rules of Procedure revisions and approvals<br>• Commence Category 2 GO and GOP candidate outreach and education (e.g., through trade organizations) | • Complete identification of Category 2 GO and GOP candidates<br>• Continue Category 2 GO and GOP candidate outreach and education (e.g., quarterly updates, webinars, workshops, etc.) | • Complete registration of Category 2 GO and GOP candidates thereafter subject to applicable NERC Reliability Standards<br>• Conduct specific Category 2 GO and GOP outreach and education (e.g., quarterly updates, webinars, workshops, etc.) |

**Key Activities**

- NEW NERC published the 2025 Second Quarterly Update on July 14.
- Visit the ERO Enterprise event tracking graphic to see upcoming events.

**Available Resources**

**Learn More**: Open Letter to New Registrants | 101 Resource Document | IBR Video

**Quarterly Updates**: Q1 2024 | Q2 2024 | Q3 2024 | Q4 2024 | Q1 2025 | Q2 2025

**Registration**: Joining the ERO Enterprise (infographic) | Expanding Your Registration (infographic) | ERO Enterprise CMEP Practice Guide | Quick Reference Guide: Candidate for Registration | Registration page

**Standards**: Reliability Standards Compliance Dates for Generator Owners & Generator Operators | Milestone 3 Summary and Infographic | Standards Under Development page

**Webinars**: November 2024 Slide Presentation and Recording | March 2025 Slide Presentation and Recording

LEARN MORE ABOUT NERC AND THE E-ISAC

NERC NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION | E-ISAC ELECTRICITY INFORMATION SHARING AND ANALYSIS CENTER

RELIABILITY | RESILIENCE | SECURITY

## Expanding Your Registration

### Expanding Your Registration

What to Know About Adding Category 2 IBRs

**Why You Need to Update Your Registration**

NERC's Rules of Procedure update requires Generator Owners (GO) and Generator Operators (GOP) of non-Bulk Electric System IBRs with aggregate nameplate capacity ≥20 MVA connected at a voltage ≥60 kV, to be known as Category 2 GO/GOPs, to register with NERC.

Entities previously registered under GO/GOP functions will be automatically redesignated as Category 1 GO/GOP in the system.

**Using CORES to Add Category 2 GO/GOP Function**

- Log into Centralized Organization Registration ERO System (CORES)
- Submit registration application in CORES
  - RE approves
  - NERC approves
  - Receive confirmation and NERC Compliance Registry (NCR) ID

**Tips**

- Make sure contacts and functional roles are up to date.
- Review relevant standards and Reliability Standards Compliance Dates for GO/GOPs.
- Communicate proactively with your RE.

**Where to Get Help**

If your entity and assets are in more than one Region, then your entity is eligible for coordinated oversight. Coordinated oversight is a program that minimizes the compliance burden by coordinating with a single lead Regional Entity.

Click here to find out more.

NERC | MIDWEST RELIABILITY ORGANIZATION | NPCC | RELIABILITY FIRST | SERC | TEXAS RE | WECC

NERC | WWW.NERC.COM | RELIABILITY | RESILIENCE | SECURITY

# Joining the ERO Enterprise

Joining The ERO Enterprise

IBR REGISTRATION INITIATIVE

## Joining the ERO Enterprise

Your First Step Toward Grid Reliability

## NERC at a Glance

The North American Electric Reliability Organization (NERC) is an independent, not-for-profit organization whose mission is reduce risks to the reliability and security of the North American bulk power system. Designated by the Federal Energy Regulatory Commission as the Electric Reliability Organization (ERO) in 2006 under Federal Power Act Section 215, NERC develops and enforces Reliability Standards; monitors and assesses grid reliability; and educates, trains, and certifies industry personnel. NERC's Electricity Information Sharing and Analysis Center (E-ISAC) reduces cyber and physical security risk through information sharing, curated analysis, and security expertise.

## Inside the ERO Enterprise

The ERO Enterprise encompasses NERC and six regional organizations. NERC provides industry-wide perspective and oversight, and the Regional Entities serve the needs of their regional constituents and ensure industry follows NERC Reliability Standards. While NERC and the Regional Entities play different roles, these roles are equally important and complementary, allowing the ERO Enterprise to work as one synchronous machine—effectively, efficiently, and collaboratively.

NERC
NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION

MIDWEST RELIABILITY ORGANIZATION

RELIABILITY FIRST

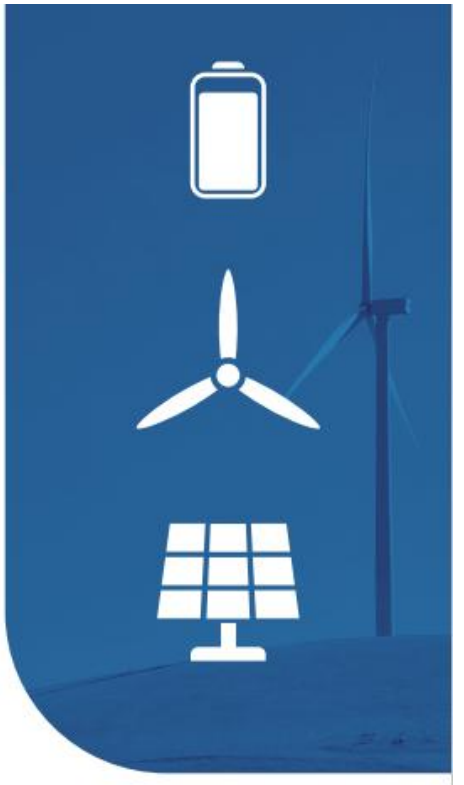
SERC

TEXAS RE

WECC

## Who Must Register?

Generator Owners (GO) and Generator Operators (GOP) of non-Bulk Electric System IBRs with aggregate nameplate capacity ≥20 MVA connected at a voltage ≥60 kV.



## How to Register

- Contact your Regional Entity (RE)
  - RE will provide registration criteria, ERO 101 packet, user guides, onboarding package, and checklist.
  - RE will request asset information
- RE assists with applicability determination per NERC's registration criteria
- Create portal account
  - Submit registration application in CORES
  - RE approves
  - NERC approves
- Receive confirmation and NERC Compliance Registry (NCR) ID

Category 2 GO/GOPs will not be listed on the NCR before May 15, 2026, when their compliance with standards will be effective.

## Resources for You

REGIONAL ENTITY REGISTRATION CONTACTS

IBR REGISTRATION QUICK REFERENCE GUIDE

# Contacts

- Registration | 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
- Sarah Mitchell | Staff Engineer, Registration | smitchell@wecc.org

WECC

# Updating Information Delivery

**Angela Shapiro**
*Manager, Oversight Analysis and Administration*

Electric Reliability
& Security for the West

# Why We're Updating Our Information Delivery Process

- We're committed to delivering information to you in a way that is secure, efficient, and accessible.
- This isn't a change in the information we're sharing, just how you receive that information.

# What Processes Are Affected?

- Compliance Oversight Plan
- Compliance Audit/Spot Check

# Compliance Oversight Plan (COP)

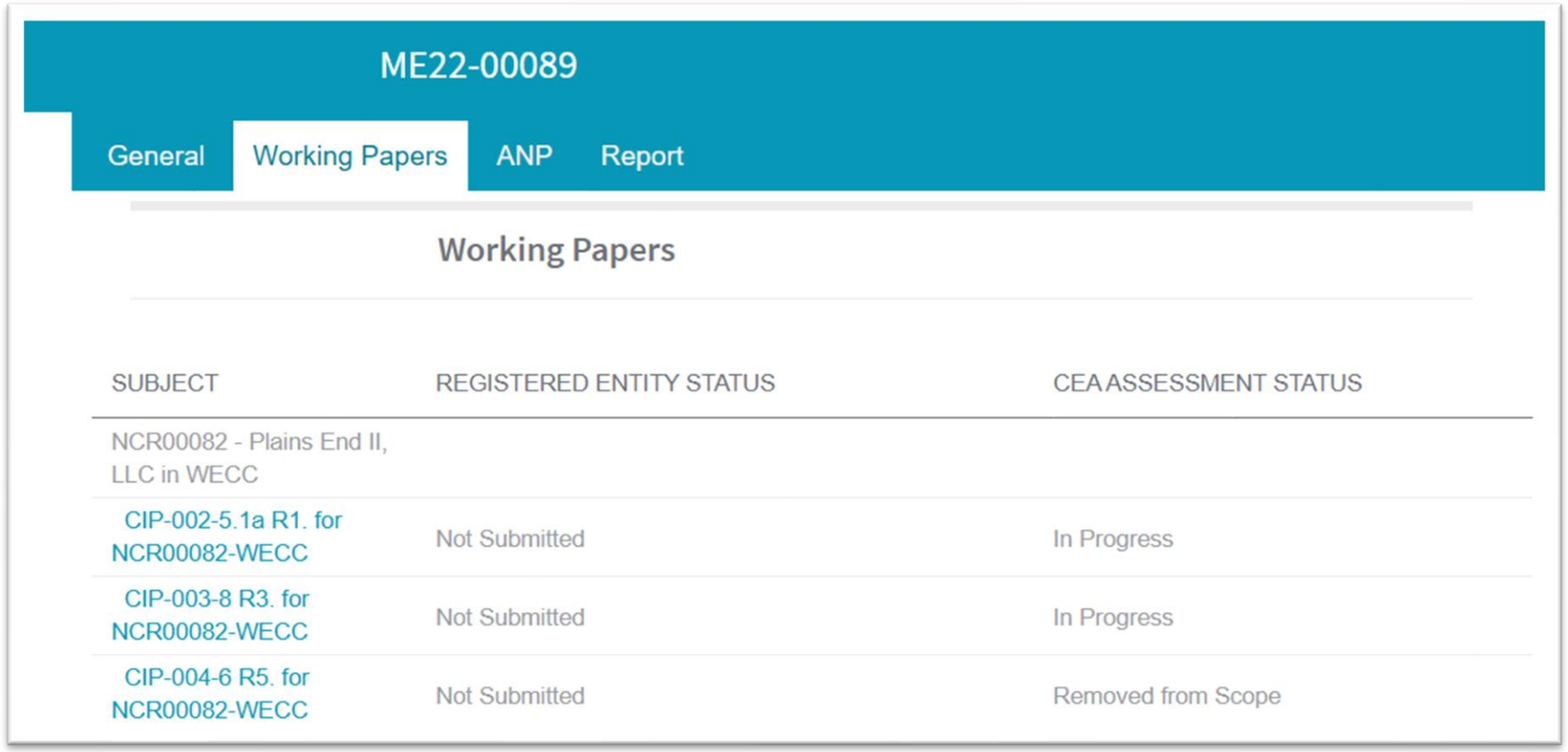
- WECC issues the IRA and COP Survey to registered entities on a rolling basis.
- Once a registered entity has been scheduled for an IRA and COP, WECC will gather information needed to assess inherent risk and operational performance.
- The results of the risk analysis will continue to be published via COP report in Align.
- WECC will discontinue to share draft COP report outside of Align.
- Feedback forms will continue to be sent post COP completion.
- If there is a change in information or additional information is required to be submitted, please contact WECC staff. As always, do not email confidential or sensitive information.

# Compliance Audit and Spot Checks

- WECC sends information about monitoring engagements via Align
- Audit Notice Package (ANP), Requests for Information, and any instructions
- Taking advantage of functionality in the system
  - Important dates and deadlines
  - Bios—hyperlinks in Align (screenshot)
  - Scope revisions (screenshot of “removed from scope”)
- Increasing transparency by posting sample presentations to website

# Clickable Biographies in Align Audit Notice Package (ANP)

# Scope Changes Visible on Working Papers Tab



# What This Means for You

- **What is Changing**
  - No longer sending copies of the following documents over Secure Workspace
    - Audit/Spot Check Presentations
    - Scope Revisions
    - Draft Compliance Oversight Plans
- **What is Not Changing**
  - Live presentations during engagements
  - Opportunity to ask questions and get clarification from WECC staff
  - Audit conclusions in final audit report

# WECC

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

# Reliability & Security Oversight Update

## WECC

August 21, 2025
2:00–3:00 p.m. Mountain