PCDS_NERC_Project_2024-02

Anuj Patil
WECC

Electric Reliability & Security for the West

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NERC Project 2024-02

- Planning Energy Assurance Standard (Draft)
  - Focus on long-term energy-based reliability
  - Addresses risks not captured by capacity-only studies
  - Technical Rationale – https://www.nerc.com/globalassets/standards/projects/2024-02/formal-posting-1/2024-02-planning-energy-assurance_technical-rationale_initial-draft_october2025.pdf
  - Requirements and Violation severity levels – https://www.nerc.com/globalassets/standards/projects/2024-02/formal-posting-1/2024-02-planning-energy-assurance_standard_initial-draft_october2025.pdf

NERC Project 2024-02 – Why?

- Increasing renewable and storage penetration
  - Fuel supply and deliverability risks
  - Extreme weather and energy-limited resources
- Supply intermittency and demand volatility can lead to unexpected and unstudied energy issues in non-peak hours (something not identified by traditional analyses focused on capacity reserve margins across peak demand periods).

Long-Term Energy Reliability Assessment (ERA)

- “An Energy Reliability Assessment with an assessment period that begins beyond year one and that covers 12 consecutive months with an hourly resolution.”

Key Standard Requirements

- R1: Planning Coordinator shall document a process for performing ERA once every two years.
  - Assess one year from planning period year one to year five and one year from planning period year six to year ten. May require Operating Procedures as a solution.
  - Should include a plan to coordinate with its Resource and Transmission planners to develop the methodology for the ERA. May require CAP (Corrective Action Plan) as a solution.

Minimum Methodology Parameters (R2)

- Forecasted or assumed Demand hourly profiles
- Demand Response representation
- Variable resource and energy storage modeling
- Maintenance/Fuel availability and planned outages
- Transmission constraints or interface limits
- Energy imports and exports with neighboring Planning Coordinator areas

Risk Criteria (R3)

- Each Planning Coordinator (PC) shall document the criteria to determine unacceptable levels of reliability risk(s) using the parameters:
  - Total amount of unserved energy
  - Frequency of unserved load events
  - Duration of unserved load events
  - Max amount of unserved load

Requirement R4

- Document results of the ERA and identify the corresponding Resource and Transmission Planners wherever there's unacceptable levels of reliability risks.

Requirement R5

- Each Planning Coordinator shall distribute its ERA results to the applicable regulatory authorities, Resource Planners, Transmission Planners, no later than 90 calendar days after R4 is complete.

Requirement R6

- Resource and Transmission Planners to develop Corrective Action Plans to address unacceptable risks which can include one or more of:
  - Mitigating actions
  - Recommendations for actions from third parties

Requirement R7

- Resource and Transmission Planners to submit the CAP to applicable authorities within 30 days from the completion of R6.

Requirement R8

- Resource and Transmission Planners shall distribute their CAPs to applicable Planning Coordinators within 120 calendar days from completion of R6.

Key Takeaways and Latest Updates

- WECC Anchor dataset
  - WECC ADS already including the modeling requirements mentioned in requirement R2.
  - Requirement R1 may require more discussion on how to approach the analyses for 2 years in a 10-year period.
- Initial Ballots and Non-binding Poll of the associated Violation Risk Factors and Violation Severity Levels (from December 10th, 2025)
  - 17.77% approval so far on the ballot for the standard and 18.13% approval as part of the Non-binding poll.
  - Drafting team reviewing all responses before determining the next steps for the project.
  - Final ballot and board adoption dates – TBD
- Technical Workshop – Feb 17th, 2026 https://www.nerc.com/events/02-17-26-technical-workshop-project-2024-02-planning-energy-assurance

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

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