WIRAB Monthly Update

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WIRAB Staff

February 6, 2020
Outline

• Introductions and Roll Call

• WIRAB:
  — NERC Reliability Issues Steering Committee
  — WIRAB Leadership Election

• WECC:
  — February 2020 Near-Term Priorities Workshop
  — WECC Structure and Governance Review
  — Resource Adequacy Assessments
WIRAB: NERC Reliability Issues Steering Committee (RISC)

Maury Galbraith appointed to the RISC:

• Advisory committee to the NERC Board of Trustees.

• Provides key insights, priorities, and high-level leadership for issues of strategic importance to BPS reliability.

• Establishes a common understanding of the scope, priority, and goals for the to address emerging reliability issues.

• Develops the Reliability Risk Priorities Report which serves as an important input into WECC’s Strategic Planning Process.
WIRAB: Leadership Election

Election of WIRAB Chair and Vice Chair:

• Chair – Jordan White, Commissioner, UT Public Service Commission
• Vice Chair – Janea Scott, Commissioner, CA Energy Commission

Email ballot - please respond by close of business on Friday, February 14, 2020
WECC: Reliability Workshop

Risk Prioritization:

Grid Transformation
A. Bulk Power System Planning
B. Resource Adequacy and Performance
C. Increased Complexity in Protection and Control Systems
D. Situational Awareness Challenges
E. Human Performance and Skilled Workforce
F. Changing Resource Mix

Extreme Natural Events
A. Extreme Natural Events, Widespread Impact
   • GMD
B. Other Extreme Natural Events

Critical Infrastructure Interdependencies
A. Communications
B. Water/Wastewater
C. Oil
D. Natural Gas

WECC’s Ability to Make an Impact

Uniqueness to the Western Interconnection
- More Unique
- Less Unique

Critical Infrastructure Interdependencies
- GT
- SR

GT
- Extreme Natural Events
- Resource Adequacy and Performance

SR
- Loss of Situational Awareness
- Increasing Complexity in Protection and Control Systems
- Physical Security Vulnerabilities
- Bulk-Power System Planning
- Cybersecurity Vulnerabilities

SR
- Human Performance and Skilled Workforce
- Changing Resource Mix

Increasing Prioritization
WECC Reliability Workshop: WIRAB’s Top Risks for WECC to Address

1. Changing Resource Mix
   — Resource Adequacy and Performance
   — BPS Planning

2. Increasing Complexity in Control Systems

3. Loss of Situational Awareness

4. Extreme Natural Events
WECC Reliability Workshop: Recommendation on Near-Term Priorities

1. Representation of Inverter-Based Resources
   — Study the interplay between the distribution and bulk-power systems

2. Impacts of the Changing Resource Mix
   — Focus on improving resource adequacy assessments
   — Improve information availability

3. Expansion of RC and Market Service Providers
   — RC/markets seams will continue to need to be monitored

4. Clarify Roles in BPS Planning

5. Develop scenarios to study extreme natural events
WECC Reliability Workshop:
WECC Board Follow Through on Top Priorities

1. **Who** should be directed to take action?
2. **What** is the deliverable they should provide?
3. **When** will this be provided?

**How** is left to WECC management and committees.
**How** may have WECC budget implications.

The WECC Board should adopt a small set of Follow Through Action Items
WECC:
4.9 Review - Structure and Governance Review

Steering Committee – Maury Galbraith, WIRAB representative

1. Stakeholder Engagement Model Work Group (Eric Baran)
   — Consider structural changes to improve outreach and stakeholder engagement

2. Strategic Planning Process Work Group (Holly Taylor)
   — Consider improvements to strategic planning process

Work ongoing through June 2020
WECC: Resource Adequacy Assessments

NERC Long-Term Reliability Assessment:

• Conclusions are overly optimistic:
  — “Retirement of resources is not currently a major concern as ample generations exists in the Western Interconnection.”

• Retirements overly conservative:
  — LTRA assumes 4,740 MW of coal retired 2020-2029

• Need transparency into underlying data and more detail
  — Bad data and analysis undermines WECC’s credibility

• Next Steps?
WECC: Resource Adequacy Assessments

Potential Next Steps for WIRAB:

• Request WECC Staff Webinar comparing data sets in 2019 LTRA, WIEB Flexibility Assessment, NWPP adequacy study;

• Participate in development and review of 2020 data and narrative submitted to NERC by WECC staff;

• Consider filing advice or comments to WECC and NERC critiquing the 2020 LTRA input, if appropriate;

• Raise issues to WECC Board in March and June.
Upcoming Meetings

WIRAB Monthly Teleconference Meeting:
First Thursday of every month at 11:00 AM MT
Next Meeting: March 5, 2020 at 11:00 AM MT

Spring 2020 Joint CREPC-WIRAB Meeting
April 29 – May 1, 2020 in Albuquerque, NM

Fall 2020 Joint CREPC-WIRAB Meeting
October 26 – 28, 2020 in San Diego, CA
Thank You

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