WIRAB Monthly Update

Maury Galbraith & Eric Baran
WIRAB Staff

September 6, 2019
Outline

• Introductions and Roll Call
• WECC:
  — WECC Annual Meeting
  — RC Certification Update
• FERC:
  — Managing Transmission Line Rating Technical Conference
• Other WIRAB Activities
WECC Annual Meeting: Member Class Breakout Session Sept. 10 at 10:00-11:15 AM PT

• MAC Member Elections

• Joint WECC Class 4 & 5 Session
  a. Section 4.9 Review and WECC Board Independence
  b. WIRAB’s 2020 Strategic Priorities
  c. MAC Leadership Opportunities for Class 4 & 5
  d. Increasing Class 4 & 5 Interest & Participation at WECC
  e. WECC-WIRAB Partnership on Reliability Outreach
     — Steve Goodwill, Vice President, General Counsel & Corporate Secretary, WECC
     — Victoria Ravenscroft, Senior Policy & External Affairs Manager, WECC
WECC Annual Meeting:  
Technical Session  
September 10 at 1:30-2:30 PM PT

• Modeling Practices & System Impact Studies—Inverter-Based Resources
  • Richard (Wallace) Kenyon, NREL researcher and PhD. Candidate at University of Colorado – Boulder, will present the study methods and key takeaways from a recent WIEB SETO project study, looking at distributed energy resource (e.g., rooftop solar) responses to grid-level faults.
  • Ganesh Velummylum, Director of Reliability Planning at WECC, will discuss the evolution of power system models to address new technologies and, specifically, the behavior of inverter-based resources.
Reliability Coordinator Activities: Update

- **Certification Update:**

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<th>Form Team</th>
<th>Schedule Visit</th>
<th>Send Cert. Packet</th>
<th>Conduct On-site Visit</th>
<th>Identify Key Concerns</th>
<th>Give Entity Feedback</th>
<th>Finalize Certification</th>
<th>Release Report</th>
<th>Go Live</th>
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- **RC West - CA Footprint**
- **BC Hydro**
- **RC West - Expanded**
- **SPP**
September 10-11, 2019 in Washington, D.C.

• Explore what transmission line rating methodologies:
  — Static line ratings,
  — Seasonal line ratings,
  — Ambient-adjusted line ratings (AARs), and
  — Dynamic line ratings (DLRs)

• Review related practices that might constitute best practices.

• Assess what Commission action in these areas might be appropriate.

**Brett Wangen**, GridSME and previously at Peak Reliability, invited to speak on behalf of WIRAB

• Panel 4: Ability of RTOs/ISOs to Accept and Utilize DLRs in Operations and Markets
  — Wednesday Sept 11 at 9:00 AM ET
FERC Technical Conference: Managing Transmission Line Ratings

- Dynamic Line Rating (DLR) or Ambient-Adjusted Rating (ARR)
  Communication to the RC/RTO/ISO

![Flowchart](chart.png)
FERC Technical Conference: Managing Transmission Line Ratings

• **WIRAB Findings:**
  — Vast majority of TOs still use outdated and inefficient Facility rating practices that leaves it to real-time operations personnel to sort out issues as they are observed in real-time.
  — Use conservative seasonally adjusted ratings.
  — Having accurate and timely data of actual conditions improves reliability.

• **WIRAB Recommendations:**
  — Take incremental steps to further DLR and ARR in the West.
  — Encourage WECC to conduct reliability assessments on benefits, barriers and direct costs to implementing DLR/ARR processes in the West.
  — Encourage Western RCs to consider fee structures or other options to incent the adoption of DLR/ARRs in the West.
Upcoming WIRAB Meetings

WIRAB Monthly Teleconference Meeting:
First Thursday of every month at 11:00 AM MT
Next Meeting: October 3, 2019 at 11:00 AM MT

Fall 2019 Joint CREPC-WIRAB Meeting:
October 7-9, 2019 in San Diego, CA
Thank You

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