



**RELIABILITY FIRST**

**ReliabilityFirst Standards Committee Agenda  
04/25/2024 12:00 – 1:00 ET (11:00 – 12:00 CT)**

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1. Welcome, Attendance and Introductions
2. Review Anti-Trust Statement
3. Approve April 3, 2024 Draft Minutes
4. Discuss [NERC Project 2022-03 Planning SAR](#)
5. Discuss Next Steps
6. Action Items
7. Future Meetings

**Parking Lot**

1. Review proposed changes to RF Standards Committee Charter Document

### **Antitrust Compliance Guidelines**

It is the policy of ReliabilityFirst to obey the antitrust laws and to avoid all conduct that unreasonably restrains competition. It is the responsibility of every ReliabilityFirst participant to adhere to ReliabilityFirst's Antitrust Compliance Guidelines, a copy of which is available on ReliabilityFirst's website. If there are any questions, please contact me. Please also be advised that this meeting is public, and that the notice of this meeting was posted on the ReliabilityFirst website and publicly announced. Participants should keep in mind that the listening audience may include members of the press and representatives of various governmental authorities, in addition to the expected participation of industry stakeholders.



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**ReliabilityFirst Standards Committee Draft Notes**  
**04/03/2024 12:00 – 1:00 ET (11:00 – 12:00 CT)**

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| Member                    | Company       | Sector       | Term (Years)   |
|---------------------------|---------------|--------------|----------------|
| Tim Kucey*                | PSEG          | Transmission | 3.0 – 06/20/26 |
| Ryan Kelley (Vice-Chair)* | Duke          | Transmission | 1.5 – 12/20/24 |
| Ryan Strom*               | Buckeye Power | Small LSE    | 3.0 – 06/20/26 |
| Vacant                    | Vacant        | Small LSE    | 1.5 – 12/20/24 |
| Rick Blumenstock*         | Consumers     | Medium LSE   | 3.0 – 06/20/26 |
| Vacant                    | Vacant        | Medium LSE   | 1.5 – 12/20/24 |
| Beverly Laios*            | AEP           | Large LSE    | 3.0 – 06/20/26 |
| Dan Gacek*                | Exelon        | Large LSE    | 1.5 – 12/20/24 |
| Nick Poluch (Chair)*      | Talen         | Supplier     | 3.0 – 06/20/26 |
| Vacant                    | Vacant        | Supplier     | 1.5 – 12/20/24 |
| Bobbi Welch*              | MISO          | RTO          | 3.0 – 06/20/26 |
| Patricio Rocha Garrido*   | PJM           | RTO          | 1.5 – 12/20/24 |
| Anthony Jablonski*        | RF            | SPM          |                |
| Don Lock*                 | Talen         | Observer     |                |
| Johnny Gest               | RF            | Observer     |                |
| Tim Fryfogle*             | RF            | Observer     |                |

\* Denotes in attendance

1. Welcome, Attendance and Introductions
  - a. Tony welcomed the team an attendance was taken.

2. Review Anti-Trust Statement
3. Approve March 5, 2024 Draft Minutes
  - a. Motion: Approve March 5, 2024 Draft Minutes
  - b. Moved: Nick Poluch
  - c. Second: Dan Gacek
  - d. Discussion: None
  - e. Vote: The March 5, 2024 draft minutes were approved by the SC.
4. Review SC Member Initial Thoughts
  - a. All nine SC members had provided their initial thoughts in which there were three opinions to Reaffirm, four opinions to Revise and two opinions to Retire. Each SC member proceeded to go through and discuss their initial thoughts on what they believe the future BAL-502-RF-03 FYR recommendation should be. After a great discussion it was clear that most SC members agree the BAL-502-RF-03 Standard is not current and would need to be revised if it was to be retained as a Regional Standard. Along the same lines, a number of SC members are in the camp that with NERC developing a content-wide standards to address a similar Standard/Requirements, there is no need to have a separate Regional Standard since there will be a continent wide Standard. Thus, reaffirmation of the BAL-502-RF-03 Standard may be appropriate at this time. Based on the discussion, Beverly and Bobbi changed their initial opinion from “Retire” to “Reaffirm” and Ryan K changed from “Revise” to “Reaffirm”.

The NERC Project 2022-03 SAR for the Planning piece also brought up and Beverly provided it to the team (see links below). the SC decided to each review the draft SAR and be prepared to discuss during a future meeting.

- i. NERC Project 2022-03 Planning SAR
    1. <https://www.nerc.com/pa/Stand/Project202203EnergyAssurancewithEnergyConstrainedR/202203%20Constrained%20Resources%20in%20the%20Planning%20Time%20Horizon%20Standard%20Authorization%20Request.pdf>
  - ii. NERC's Energy Reliability Assessment Working Group
    1. <https://www.nerc.com/comm/RSTC/Pages/ERAWG.aspx>
5. Review/Discuss Don Lock’s Draft Consensus Recommendations Document
  - a. The SC did not get to this a agenda item and thought it may be premature to discuss at the time
6. Action Items
  - a. SC member so review the NERC Project 2022-03 Planning SAR and be prepared to discuss during the next meeting
7. Future Meetings
  - a. Tony will request availability from the SC



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### Don Lock Evaluation of NERC's Resource Adequacy SAR<sup>1</sup>

#### **Favorable**

1. Addresses generation unit forced outage systemic issues such as fuel adequacy and the intermittency of renewable facilities, not just capacity factor with an assumption of random outages
2. Considers all hours as being eligible for study, not just the peak demand hour
3. Makes use of modern analytical approaches, i.e. expected unserved energy (EUE), as opposed to the outdated loss of load expectation (LOLE) criterion
4. Recognizes the possibility of seemingly robust systems failing due to natural gas companies defaulting on firm supply contracts
5. Requires corrective action plans for mitigation of problems identified in energy reliability assessments
6. Calls for energy reliability assessments to be coordinated between areas to synchronize interchange assumptions. This is deemed a “plus” in the expectation that such collaboration will reveal the errors of assuming that there is always ability to import power from adjacent areas (a major factor in setting-up the Winter Storm Uri debacle).

#### **Unfavorable**

1. States an intention to, “Define a period of time to be studied,” based on weather conditions, fuel availability and the like. Every area has a variety of “stress test” conditions that bear study, however, not just one, e.g.:
  - a. Worst-case one hour low wind chill temperature (WCT)\*, to study the effect of conventional plant freeze-ups, NG supply system freeze-ups, and inverter-based resources (IBRs) falling below their minimum operational temperature
  - b. Worst-case sustained (minimum 24 hours) low WCT,\* to study the combined effects of conventional plant freeze-ups, NG supply system freeze-ups, IBRs below minimum operating temperature, draining of energy storage facilities and reduction in natural gas pipeline pressure

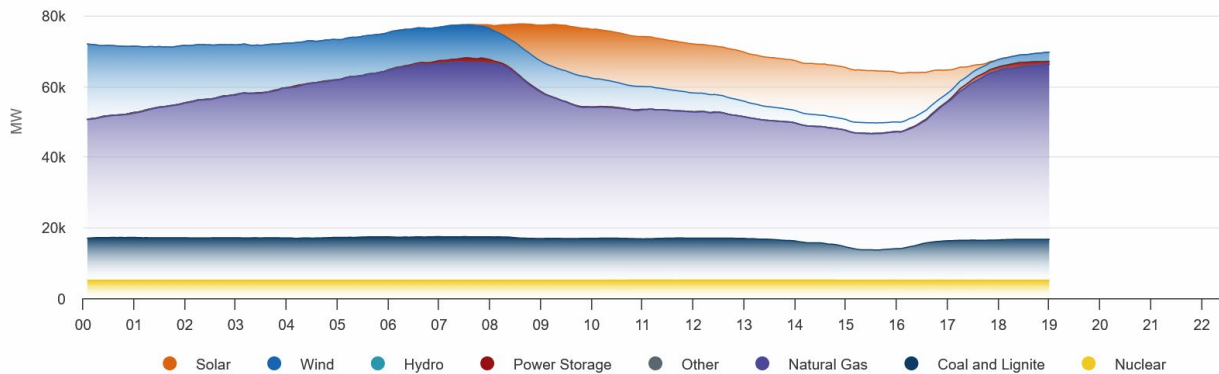
\* Or lowest DBT with an assumed 20 mph wind

  - c. Worst-case nighttime, minimum four hours, low dry bulb temperature (DBT) plus wind drought, to study the combined effects of low wind farm output, zero solar output and

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<sup>1</sup> Energy Assessments with Energy– Constrained Resources in the Planning Time Horizon, <https://www.nerc.com/pa/Stand/Project202203EnergyAssurancewithEnergyConstrainedR/2022-03%20Constrained%20Resources%20in%20the%20Planning%20Time%20Horizon%20Standard%20Authorization%20Request.pdf>

draining of energy storage facilities (e.g. the Texas near miss of 1/16/2024, shown below. This was not the peak demand hour or the coldest day, but it was almost a firm load shedding event)



d. As per case “c” above but high DBT

e. Special combination events, e.g. case “a” above preceded by a drenching rain (wet insulation – as happened in the 2014 Polar Vortex), and case “b” preceded by an ice storm (wind turbine blade icing – as happened in Winter Storm Uri)

2. CAPs will be required only when, “predefined criteria are not met.” These criteria will be set by the responsible entities, not by NERC, thereby making these entities go it alone in fending off political pressure for the purpose of accomplishing NERC’s fundamental reliability mission.<sup>2</sup> BAL-502-RF-03 does not allow Direct Control Load Management or curtailment of Interruptible Demand
3. States an intention to, “Account for uncertainty,” but does not indicate any means by which this highly challenging goal can reliably be achieved. A yet to be defined statistical approach is implied, which could lead to weak or even misleading criteria such as the EOP-012 Extreme Cold Weather Temperature.<sup>3</sup>

Historical data should be used to establish extreme weather benchmark events, following the lead of NERC’s Probabilistic Assessment Working Group (PAWG),<sup>4</sup> or at least ASHRAE’s 50-year recurrence values should be applied. The comparison below shows for example that the Winter Storm Uri debacle could have been prevented by requiring new generation and natural gas system facilities be built to withstand a repetition of the cold wave of Dec. 1989 – it’s that simple.

<sup>2</sup> <https://www.pjm.com/-/media/library/reports-notices/special-reports/2022/2022-pjm-illinois-generation-retirement-study.ashx>

<sup>3</sup> The SAR calls for coordination with the Project 2021-07 SDT, “to minimize duplication of efforts and ensure that non-conflicting requirements are developed.”

<sup>4</sup> See especially slides 13-21 and 61-64: [https://www.nerc.com/comm/RSTC/PAWG/2024\\_NERC-NATF-EPRI\\_Extreme\\_Weather\\_Transmission\\_Planning\\_and\\_Modeling\\_Workshop\\_Presentations.pdf](https://www.nerc.com/comm/RSTC/PAWG/2024_NERC-NATF-EPRI_Extreme_Weather_Transmission_Planning_and_Modeling_Workshop_Presentations.pdf)



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