



Reliability Compliance Update

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System Operations Subcommittee
November 7, 2019

- NERC Projects
- NERC News
- Standards Subject to Future Enforcement
- PJM Ops and Planning Audit
- Questions

Standards	Project	Action	End Date
	<p>Eastern and Western Interconnection Generator Operator 2019 Survey</p> <p>Applicability: BA, GOP</p> <p>Background:</p> <ul style="list-style-type: none"> ➤ The survey is voluntary ➤ It is an industry led effort to gather information to address reliability issues regarding Frequency Response ➤ Demonstrate, as an industry, that reliability issues can be addressed outside of mandatory Reliability Standards and Requirements. ➤ GOPs will be requested to submit their survey forms to PJM as the BA. <p>Generator Survey Webinars:</p> <p>September 19, 2019 2:00 - 3:00 p.m. Eastern</p> <p>September 26, 2019 2:00 - 3:00 p.m. Eastern</p>	<p>Submit Form to BA</p>	<p>11/22/19</p>

Standards	Project	Action	End Date
FAC-002-3 IRO-010-3 MOD-031-3 MOD-033-2 NUC-001-4 PRC-006-4 TOP-003-4	<p>Project 2017-07 Standards Alignment with Registration</p> <p>Applicability: BA, DP, GO, GOP, PC, RC, RP, TO, TOP, TP, TSP</p> <p>Background:</p> <ul style="list-style-type: none"> ➤ Revisions include updates to remove the references to Purchasing-Selling Entities (PSEs) and Interchange Authorities (IAs); ➤ References to the Load-Serving Entity (LSEs) will be removed or replaced by the appropriate NERC Registered Entity. ➤ The project will also add Underfrequency Load Shedding (UFLS)-only DPs to the Applicability Section of PRC-005 and PRC-006 per NERC registration criteria. 	<p>Ballot Comment</p>	<p>12/12/19</p>

Standards	Project	Action	End Date
<p>TPL-001-4</p>	<p>Draft Reliability Guideline Fuel Assurance and Fuel-Related Reliability Risk Analysis for the BPS</p> <p>Applicability: TP, PC</p> <p>Background:</p> <ul style="list-style-type: none"> ➤ Proposed guidance for industry planners to use in evaluating fuel and energy supply risks within their generation resource portfolios to address potential impacts to the BPS. 	<p>Comment</p>	<p>12/18/19</p>

➤ **Workshops**

- Probabilistic Analysis Forum – December 11–13, 2019, Atlanta, GA

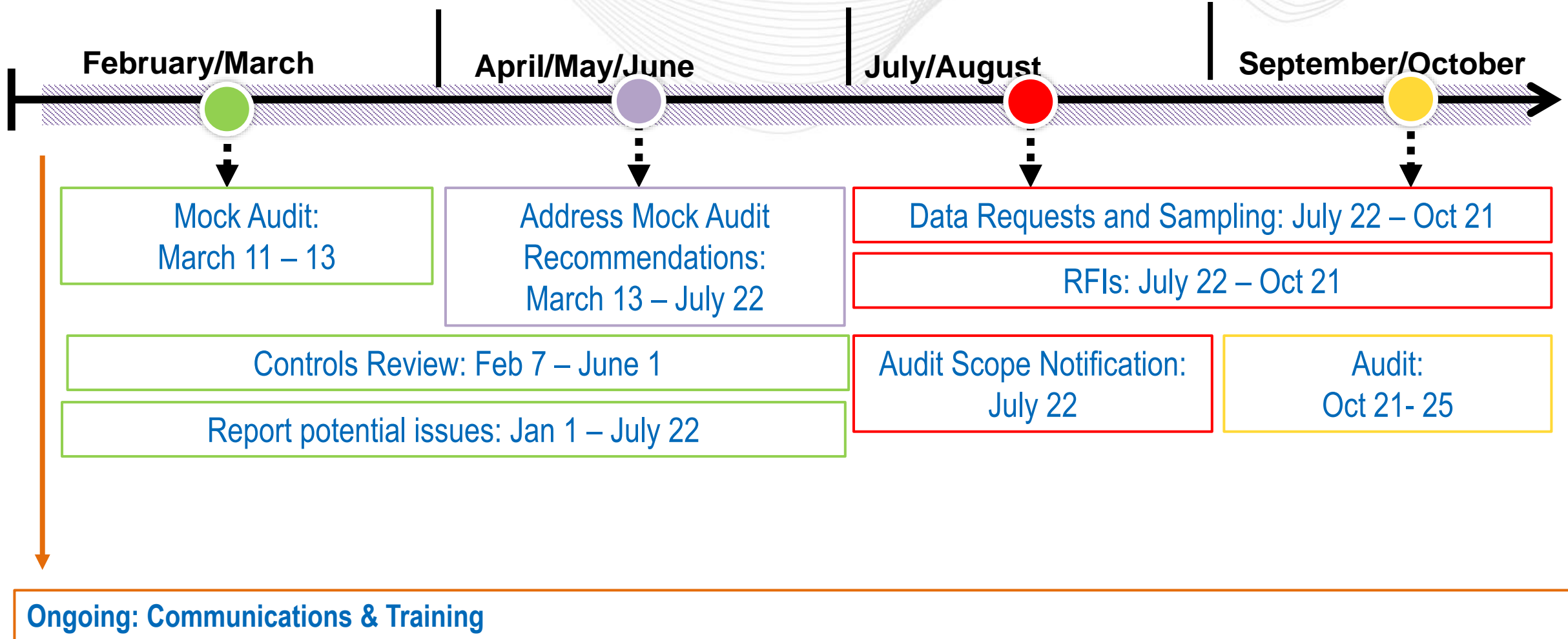
➤ **Webinars**

- Guideline for Distributed Energy Resource (DER) Modeling for Bulk Power System Planning Assessments – 11:30 a.m.–12:30 p.m. Eastern, November 8, 2019
- Project 2019-01 – Modifications to TPL-007-3 Webinar – 11:30 a.m.–1:00 p.m. Eastern, November 12, 2019
- Improvements to Compliance and Enforcement Pages on NERC.com – 3:00–3:30 p.m. Eastern, November 14, 2019
- Improvements to Compliance and Enforcement Pages on NERC.com – 2:00–2:30 p.m. Eastern, December 9, 2019

NERC Standards Subject to Future Enforcement

- **January 1, 2020**
 - IRO-002-6 - Reliability Coordination – Monitoring and Analysis
 - PRC-026-1 – Relay Performance During Stable Power Swings (R2 - R4)
 - TPL-007-3 – Transmission System Planned Performance for Geomagnetic Disturbance Events (R5)
- **July 1, 2020**
 - PRC-002-2 – Disturbance Monitoring and Reporting Requirements (50% compliance for R2–4, 6–11)
- **January 1, 2021**
 - TPL-007-3 – Transmission System Planned Performance for Geomagnetic Disturbance Events (R6)
 - PRC-012-2 – Remedial Action Schemes
- **January 1, 2022**
 - TPL-007-3 – Transmission System Planned Performance for Geomagnetic Disturbance Events (R3, R4, R7)
- **July 1, 2022**
 - PRC-002-2 – Disturbance Monitoring and Reporting Requirements (50% compliance for R2–4, 6–11)

Overall 2019 Audit Timeline



RF Operations and Planning Audit Scope

Standard Number	Req. No.
BAL-502-RF-03	R1.
BAL-502-RF-03	R2.
BAL-502-RF-03	R3.
FAC-002-2	R1.
IRO-002-5	R2.
IRO-002-5	R3.
IRO-002-5	R4.
IRO-002-5	R5.
IRO-002-5	R6.
IRO-008-2	R1.
IRO-008-2	R2.
IRO-008-2	R3.
IRO-008-2	R4.
IRO-008-2	R5.
IRO-008-2	R6.
IRO-018-1(i)	R1.
IRO-018-1(i)	R2.
IRO-018-1(i)	R3.

Standard Number	Req. No.
MOD-032-1	R1.
MOD-032-1	R4.
MOD-033-1	R1.
MOD-033-1	R2.
TOP-001-4	R9.
TPL-001-4	R1.
TPL-001-4	R2.
TPL-001-4	R3.
TPL-001-4	R4.
TPL-007-1	R1.
TPL-007-1	R2.
VAR-001-5	R1.
VAR-001-5	R2.
VAR-001-5	R3.
VAR-001-5	R4.
VAR-001-5	R5.
VAR-001-5	R6.

- **11** Standards
- **35** Requirements
- **90%** of Requirements in scope were reviewed during PJM Mock Audit
- **65%** of Requirements in Controls Review were removed from Audit scope
- **16** additional Requirements were added to Audit scope
- **35%** overall reduction in Audit scope



0 Noncompliances

0 Areas of Concern

3 Positive Observations

1. Intelligent Event Processor
2. Evolving Controls Program
3. Telemetry for Real-Time Assessments

1 Recommendation

1. Utilize Excel functions to track updates and control access to cells within spreadsheets.