

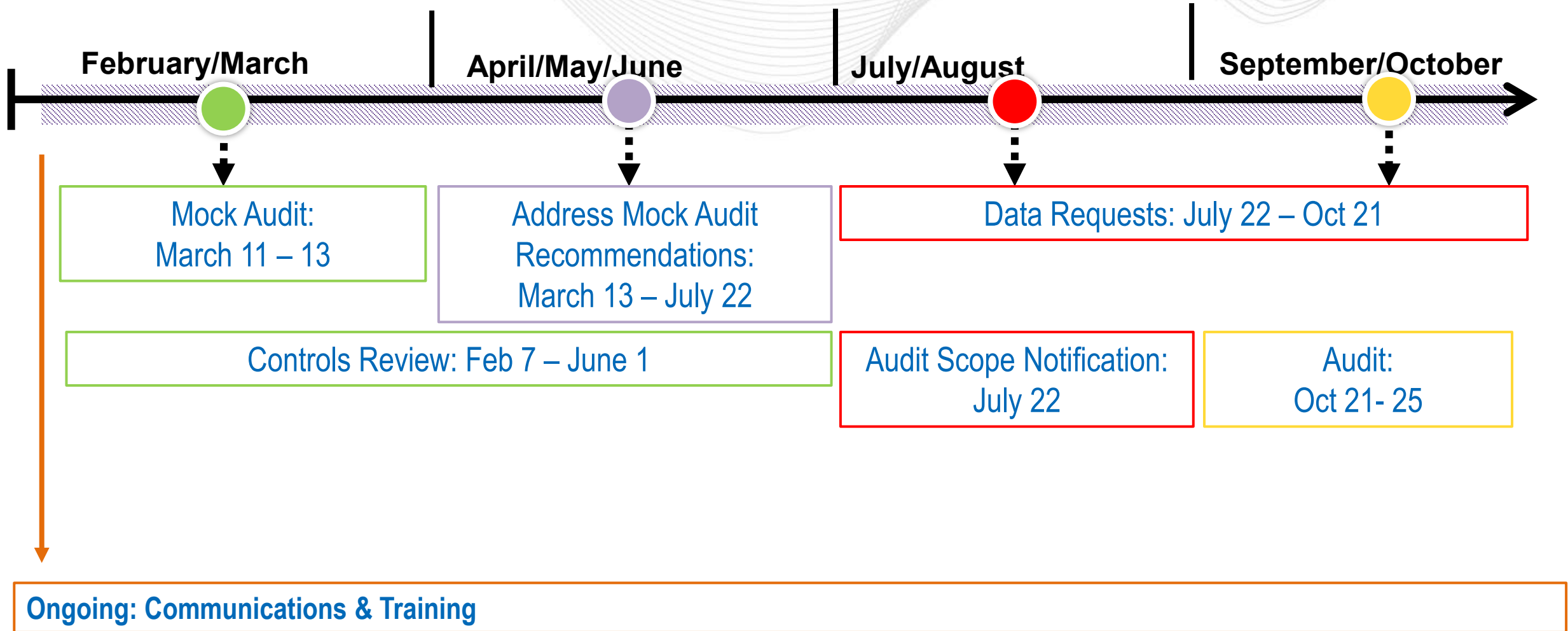


Reliability Compliance Update

Preston Walker
System Operations Subcommittee
July 2, 2019

Standards	Project	Action	End Date
FAC-001-3 FAC-002-2	<p>Draft Reliability Guideline: Improvements to Interconnection Requirements for BPS-Connected Inverter-Based Resources</p> <p>Applicability: BA, GO, PC, RC, TP, TOP</p> <p>Background:</p> <ul style="list-style-type: none"> ➤ This guideline serves as a resource for TOs to consider as they continually develop and enhance interconnection requirements per FAC-001-3 and interconnection study requirements per FAC-002- 2. 	Comment	07/24/19

PJM Ops and Planning Audit Timeline





Controls Review Deliverables

Applicable Standard	Applicable Requirement (s)	#	Internal Control	Control Type (Preventive or Monitoring/Detective)	Control Frequency (e.g. real-time, daily, monthly, quarterly, annual, etc.)	Control Owner	Evidence of Control
PRC-005-6	R3.	1	Maximo is used as a computerized maintenance management system to track protection system maintenance and testing. Alerting is enabled to notify personnel of approaching due dates for maintenance	Preventative	On-going	C. Transformer	See Maximo screenshots
FAC-003-4	R1.	2	Public outreach is performed so that the public understands the important of vegetation management through various advertisement methods. Call in number is provided in all ads and the public is advised to report tree issues	Detective	On-going	B. Walnut	See example advertisements
EOP-010-1	R1.	3	System operators and applicable personnel receive annual training and simulation of the GMD Operating Procedure. Afterwhich, their feedback is documented and assessed for inclusion in the GMD Operating Procedure.	Corrective	Annual	A. Solar	See 2017 feedback form and 2018 GMD procedure reflecting the feedback
N/A	N/A	N/A	On an annual basis, an internal audit is completed to review compliance to all applicable standards.	Preventative	Annual	Internal Audit Department	See 2017 and 2018 internal audit reports

➤ Workshops

- Standards and Compliance Workshop – July 23–24, 2019, Minneapolis, MN
- Electromagnetic Pulse Task Force Workshop – July 25, 2019, Atlanta, GA
- GridSecCon 2019 – October 22–25, 2019, Atlanta, GA



NERC Standards Subject to Future Enforcement

➤ July 1, 2019

- PER-003-2 – Operating Personnel Credentials
- TPL-007-3 – Transmission System Planned Performance for Geomagnetic Disturbance Events (R1, R2)

➤ January 1, 2020

- PRC-026-1 – Relay Performance During Stable Power Swings (R2 - R4)

➤ 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)

Questions?

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