

Real-Time Stability Monitoring SAR Task Force Plan

Leadership Team

- Dr. Mani Venkatasubramanian
- Marianna Vaiman
- Michael Nugent
- Kevin Ostash
- Jared Tarr

Background

Utilities external to North America are already relying on Wide-Area Monitoring System (WAMS) technology for monitoring stability, inertia, and potential corrective actions within real-time operations (including: Iceland, Brazil, UK, etc). The task force will examine regulatory requirements for stability monitoring within North America, including the WECC IRO-002-7 variance, and from other external jurisdictions from around the world. The task force will then propose and develop a NERC Standard Authorization Request (SAR) that aims to make stability monitoring in real-time a requirement. To achieve this, the SAR will provide the necessary changes within existing NERC Standard Requirements or potentially propose new requirements and definitions.

Vision Statement

To empower utilities to monitor for real-time stability and oscillation issues on the interconnected power system in the Control Room environment.

Mission Statement

To develop a NERC Standards Authorization Request (SAR) that addresses real-time stability monitoring and oscillation requirements within NERC standards.

Scope of Work

This task force will work on the following scope:

- Align SAR effort with support from NERC SMWG
- Review and summarize recommendations from regulatory reports on large system outages.
- Review existing NERC standard stability monitoring requirements and report on specific areas of concern, including the WECC IRO-002-7 variance
- Research regulatory requirements for stability monitoring from external jurisdictions around the world
- Prepare a combined report on regulatory requirements for stability monitoring
- Develop a NERC Standard Authorization Request (SAR) that aims to make stability monitoring in real-time a requirement
- Present SAR requirements to NERC Energy Management System Working Group (EMSWG) and Real Time Operating Subcommittee (RTSO)

Schedule & Timeline (Target Completion: Dec 2026)

Task	Milestone/Deliverable	Timeline
Phase 1: Kickoff and Planning	Finalize TF membership, designated leadership, initial planning meeting	Aug - Sept 2025
Phase 2: Review of existing NERC Standard requirements and regulatory recommendations for large system outages; Research external regulatory requirements; Research Recommendations from Large System Events	Split effort into 3 task teams to research and document topics	Oct 2025 – March 2026
Phase 4: Prepare report on Stability monitoring requirements	Draft combined report and recommendations	April – June 2026
Phase 5: Develop SAR Draft	Develop draft SAR document	July – Sept 2026
Phase 6: Present SAR to NERC SMWG, EMSWG and RTSO	Develop SAR presentation and seek feedback from NERC entities.	Oct - Dec 2026