

**NERC**

NORTH AMERICAN ELECTRIC  
RELIABILITY CORPORATION

# NERC Update

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NASPI Working Group Meeting

February 20, 2013

**RELIABILITY | ACCOUNTABILITY**



- February 2004 – NERC became involved in Eastern Interconnection Phasor Project (EIPP)
- Summer 2007 – Transition from EIPP to NASPI
- August 2007 – Began use of PMUs to analyze disturbances
  - August 4, 2007 – EI Frequency Disturbance
  - September 18, 2007 – MRO System Disturbance
  - February 14, 2008 – WECC PACE Disturbance
  - February 26, 2008 – FRCC South Florida Disturbance

## NASPI → NERC

- NERC funding of NASPI ending in 2013
- Need for core group(s) for Planning and Operations Functions
- Transition to NERC committee support AS APPROPRIATE
- Not all functions will be transferred to NERC
  - Some to IEEE Power System Relay Committee
  - Self-sustaining user group – NASPI 3.0??

- Synchronized Measurement Subcommittee (SMS)
  - Approved by Planning Committee in December
  - Now staffing
- Operations Support – Operating Reliability Subcommittee (ORS)
- Network support – Telecommunications Working Group (TWG)
- Data transfer support – Data Exchange Working Group (DEWG)
- Equipment Standards – IEEE PSRC

1. Formulate and guide the NERC vision and activities to promote wide-area PMU measurement systems
2. Establish methodologies and data sharing agreements to assure open sharing of PMU data for reliability
3. NERC's focal point for interaction with entities outside of NERC (IEEE and IEC) on policy and standards related to PMUs
  - on Guidelines for PMU hardware and software
  - Appropriate standards modifications (or additions) for PMU data transport and interoperability

4. Provide data for power system performance analysis for disturbances including
  - Coordination with Event Analysis Subcommittee and the System Analysis and Modeling Subcommittee
5. Maintain guidelines, technical reference documents, and training materials in support of relevant NERC uses of PMUs
6. Develop appropriate guidelines for the placement of Phasor Measurement Units (PMU) across North America

7. Monitor and advice on the design and operation of the synchrophasor network and data architecture
8. Identify ongoing recommendations and guidelines for synchronized measurements to improve the reliability of the Bulk Electric System
9. Develop and maintain appropriate procedures and guidelines for base line power system performance analysis using synchrophasor data
10. Review and coordinate proposed new synchrophasor applications with any appropriate NERC groups to support coordinated advancement of the use of PMU data



# Questions?