DOE Update

NASPI Working Group

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Charlotte, North Carolina

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Outline

- Award for NASPInet architecture specification made September 27, 2008 by the DOE National Energy Technology Laboratory (NETL)

- DOE and NERC Working with ERCOT to implement a phasor network in Texas

- DOE continues research and development on applications and analysis tools using phasor data

NASPI Network Architecture Specification Award

- Quanta Technology, LLC

- Final Specification due end of April 2009

- DOE will conduct periodic contract progress reviews through the NASPI Data & Network Management Task Team

ERCOT Support

- Collaboration with the Center for the Commercialization of Electric Technologies (CCET) and ERCOT

- Install Real Time Dynamics Monitoring System (RTDMS) at ERCOT in October

- Stream AEP phasor data to the RTDMS by December

- DOE/CERTS develop an ERCOT phasor technology deployment roadmap in consultation with CCET and ERCOT

DOE Support for North American SynchroPhasor Initiative

- Leadership and Task Team-directed research

- Real Time Dynamic Monitoring System (RTDMS)

- Technical Support and Outreach

- NASPInet Specification Award

- NIST SynchroMetrology Lab

DOE R&D to Support an Automatic Switchable Network

- Substation Information Integration

- Analysis, Monitoring and Visualization Tools for Grid Operations
  - Wide-Area Dynamic Monitoring
  - Risk-Based Security Assessment
  - Statistical Analysis of Abnormal Behavior
  - Wide-Area Multidimensional Nomogram
  - Measurement-Based Stability Assessment

- Demonstrations
  - Adaptive Islanding
  - Real-Time Control

Questions?

DOE Visualization and Controls peer review

October 21-22, 2008 in Washington, DC. Register at:

https://events.energetics.com/v&c08/