



# ***DOE Update***

## ***NASPI Working Group***

**February 3, 2009  
Scottsdale, Arizona**

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Office of Electricity Delivery and Energy Reliability**

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National Energy Technology Laboratory**

# Outline

- Update on NASPInet architecture specification contract progress by the DOE National Energy Technology Laboratory (NETL)
- DOE and NERC Work with ERCOT to implement a phasor network in Texas
- DOE ongoing research and development on applications and analysis tools using phasor data

# ***NASPI Network Architecture Specification Progress Report***

- 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

# Specification Development Schedule

- Official Progress Review (Draft Spec) Feb 3
- Deliver Draft Specification Feb 24
- Official Progress Review (Final Spec) Mar 30
- Meeting – last chance edits Apr 20
- Deliver Specification to DOE Apr 25
- Project ends Apr 27

# ***NASPI “Reading Room” for Public Info & Comment***

- Available at [www.netl.doe.gov](http://www.netl.doe.gov) under “Solicitations & Business”
- Advertised in FedBizOpps.gov on January 6
- Posted documents
  - Conceptual Framework revised presentation materials
  - Brief notes on Review Meeting for Conceptual Framework
  - DOE contract with Quanta, redacted
- As of January 31
  - 211 site visits
  - 152 document downloads
  - No comments received
- Comments go to Don Geiling at DOE
- Comments will be forwarded to Kris Koellner/Paul Myrda

# *ERCOT Support*

- Collaboration with the Center for the Commercialization of Electric Technologies (CCET) and ERCOT
- Installed Real Time Dynamics Monitoring System (RTDMS) at ERCOT in October
- Stream AEP phasor data to the RTDMS in December
- DOE/CERTS develop an ERCOT phasor technology deployment roadmap in consultation with CCET, Texas utilities 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?

- NASPI “Reading Room”
  - [www.netl.doe.gov](http://www.netl.doe.gov), Solicitations & Business
- V&C Peer Review, Reliability and Controls
  - <https://events.energetics.com/v&c08/>