

# OE Transmission Reliability Program Review

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## PNNL Support for NASPI

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# *Project Objective(s)*

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To improve the reliable operation of the North American power system by successfully transitioning synchrophasor technologies from research to industry adoption

PNNL's activities in support of NASPI include:

- Facilitate leadership and planning activities for the NASPI leadership team and work group meetings
- Support the NASPI website, mailing lists, and task team administrative support (e.g., conference call scheduling and facilitation)



# ***PNNL Activities in Support of NASPI in FY12 (cont.)***

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- Special assignments
  - Human factors visualization workshop
  - Security testing for GPS dependencies
- Task team technical support:
  - PITT baselining support
  - PSTT technical support
  - D&NMTT technical support
  - RITT roadmapping
  - WAMS outreach
  - WECC model validation activities



# Major FY12 Accomplishments

## Deliverables/Schedule for FY12

- Facilitate leadership and planning activities for the NASPI leadership team and work group meetings
  - Facilitate NASPI leadership team calls and meetings - **ongoing**
    - *Most recent leadership team meeting and work group meeting completed last week in Denver, Colorado*
  - Participated in WECC JSIS meetings – **ongoing**
    - *Most recent meeting in Salt Lake City April 26-27, 2012*
- Support the NASPI website, mailing lists, and task team administrative support (e.g., conference call scheduling and facilitation) – **ongoing**
- Supported human factors visualization workshop in Orlando, February 28
  - *Final workshop report is in the final stages of completion*
- Testing for security of GPS as it relates to synchrophasors
  - *Testing conducted in December 2011, transitioned to follow-on support from the DOE Cyber Security for Energy Delivery Systems Program*



# ***Major FY12 Accomplishments***

## ***Deliverables/Schedule for FY12***

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- Task team technical support:
  - Planning Implementation Task Team
    - Detailed statistical analysis for baselining performance of both the eastern and western interconnections
  - Performance Standards Task Team
    - Engineering technical support for standards activities, other directed assignments
  - Data & Network Management Task Team
    - Provide technical support and advice for emerging communications architectures
  - Research Initiatives Task Team
    - Support the RITT roadmapping activities
  - WAMS outreach
    - Support various WECC WAMS activities, including system tests and senior technical engineering expertise
  - WECC model validation activities
    - Attend and provide technical input to WECC Model Validation task force meetings



# Thoughts for FY13

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- Position NASPI to provide ongoing support to the electricity industry following the successful completion of the ARRA grant funding
- Provide framework for continuing to “mainstream” the synchrophasor technology
- Reevaluate the NASPI technical task team structure, potential realignment based on new goals and directions of NASPI
- Continue to provide leadership support for the continued success of NASPI as a convening role for bringing together various elements of industry focused on developing and deployment of synchrophasor technology

