



DOE/OE Transmission Reliability Program

North American Synchrophasor Initiative (NASPI) and
Advanced Applications Research & Development (AARD)

Internal Program Review

27-28 June 2013

Washington, DC

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Management Review Topics

- Project objective
- Major technical accomplishments that will be completed this year
- Deliverables and schedule for activities to be completed under FY13 funding
- Risk factors affecting timely completion of planned activities as well as movement through RD&D cycle
- Early thoughts on follow-on work that should be considered for funding in FY14



Management Review Issues

- RD&D stage of the project:
 - Theoretical study—proof of concept
 - Modeling/simulation—using real data?
 - Prototype development
 - Field demonstration—industry partner
 - Pre-commercial—formal relationship with vendor?
- How important is the research for DOE's R&D program?
- What (if anything) should be done to improve this research activity?



Agenda

Day One: Thursday, June 27th

- Baseline Studies and Analysis: *Bharat Bhargava, EPG*
- Baseline Studies and Analysis: *Brett Amidan, PNNL*
- Synchrophasor Standards Support and Development: *Ken Martin, EPG*
- Advanced Synchrophasor Metrology: *Joe Gracia, ORNL*
- GPS Issue Management: *Mark Buckner, ORNL*
- Technology Assessment for Next Generation PMU: *Mark Buckner, ORNL*
- Measurement-Based Stability Assessment: *Dan Trudnowski, Univ. of Montana*
- Mode Meter Development: *Ning Zhou, PNNL*
- Spectral Analysis of Power Grid PMU Data: *Ning Zhou, PNNL*
- Modal Analysis for Grid Operations (MANGO): *Ning Zhou, PNNL*



Agenda

Day One: Thursday, June 27th (continued)

- Dynamic System Identification Toolbox Capabilities Update: Frank Tuffner, PNNL
- Model Validation Project: Bernie Lesieutre, University of Wisconsin
- Analysis of Emerging Multi-Terminal HVDC: Harold Kirkham, PNNL
- Wind power plant modeling and stability analysis using PMUs: YC Zhang, NREL

Day Two: Friday, June 28th

- Synchrophasor Data Validation: *Ken Martin, EPG*
- Synchrophasor Data Conditioning and Validation: *Jim Thorp, Virginia Tech*
- Voltage Stability: *Joe Chow, Rensselaer Polytechnic Institute*
- Development and Testing Oscillation Management System (OSM): *Mani Venkatasubramanian, Washington State Univ.*

- Automatic Reliability Reports (ARR) Research & Implementation: Alejandro Dominguez-Garcia & Pete Sauer, Univ. of Illinois
- ARR Research & Implementation: Carlos Martinez, ASR, Inc.
- Reliability Standards Analysis and Assessment: Gil Tam, EPG

