North American SynchroPhasor Initiative
Working Group Meeting
October 16-17, 2008

Electric Power Research Institute (EPRI)
1300 West W.T. Harris Boulevard
Charlotte, NC

The third meeting of 2008 will focus on research and development with presentations and poster sessions by some of the world's leading synchrophasor researchers.

Agenda

Thursday, October 16, 2008		
8:00 – 8:30 am	Registration (refreshments and networking)	
8:30 – 8:40 am	Welcome	Andrew Philips, EPRI
8:40 – 8:45 am	Agenda and Logistics Review	Stan Johnson, NERC
8:45 – 9:00 am	U.S. DOE Update and Comments	Phil Overholt, DOE
9:00 – 9:15 am	Update on the NASPInet Specification Development	Matt Donnelly and Yi Hu, Quanta Technology, LLC
9:15 – 9:30 am	NERC Update and Comments	Stan Johnson, NERC
9:30 – 9:45 am	October 15 Leadership Meeting Summary – Task Team Activities and Priorities	Jimmy Glotfelty and Alison Silverstein
9:45 – 10:00 am	Break (refreshments and networking)	
Situational Awareness		
10:00 – 10:15 am	1. Visualization and Significance of Bus Phase Angles for the Eastern Interconnect	Thomas J Overbye and Charles Davis, University of Illinois at Urbana-Champaign
10:15 – 10:30 am	2. Wide-area detection of power system events using phasor measurement units	Zeb Tate, University of Toronto
10:30 – 10:45 am	3.Precursor Signals of Potential Cascading Outages Based on Proper Visualization of PMU Data	Stephen T. Lee and Kai Sun, EPRI
10:45 – 11:00 am	4. Observations from FNET Measurements of 3 Major Interconnections	Yilu Liu, Virginia Tech
11:00 – 11:15 am	5. Wide Area Power System Visualization and Location of Disturbance Using NASPI PMU Measurements	Guorui Zhan (EPRI), Lisa Beard, Ritchie Carroll(TVA) and Yilu Liu (VT)
11:15 – 11:30 am	6. Characteristic Ellipsoid Visualization Concept	Yuri Makarov, PNNL
Stability Analysis		
11:30 – 11:45 am	7. Oscillatory mode shape and combined EMS/ WAMS data to characterise and locate stability issues	Dr. Douglas Wilson, Psymetrix Ltd
11:45 – 12:00 pm	8. Oscillation Monitoring System using Synchrophasors	Mani V. Venkatasubramanian, Washington State University
12:00 – 1:00 pm	Lunch (provided)	

1:00 – 1:15 pm	9. Propagation of Power System Dynamic Disturbances and the Effects of Local Area Conditions	Jason Bank, Virginia Tech
1:15 – 1:30 pm	10. Adaptive Impact Energy Method for Synchrophasor Measurements Based Inter-Area Instability - Prediction and Remedy	Shimo Wang, Anthony Johnson, George Rodriguez, Southern California Edison
1:30 – 1:45 pm	11. Application of Synchronized Phasor Measurements in Entergy and AEP for Dynamic Security Assessment	Vijay Vittal, Arizona State University; Sharma Kolluri, Entergy; Navin Bhatt, AEP
Real Time Control/Dynamic Model Benchmarking		
1:45 – 2:00 pm	12. WECC Dynamic Probing Tests: Purpose and Results	Dan Trudnowski, Montana Tech.; John Pierre, University of Wyoming; Ning Zhou, Frank Tuffner and John Hauer, PNNL; Bill Mittelstadt, BPA
2:00 – 2:15 pm	13. Voltage Stability Control Project	Dmitry Kosterev, Eric Heredia, Paul Ferron, Anders Johnson. MayMay Adolf, John Kerr, Peter Raschio, Steve Yang, BPA
2:15 – 2:30 pm	14. Model Parameter Calibration Using Recorded Dynamics	Zhenyu Huang and Bo Yang, PNNL; Dmitry Kosterev, BPA
2:30 – 2:45 pm	Break (refreshments and networking)	
2:45 – 5:30 pm	Task Team Break Out Sessions	
6:00 – 8:00 pm	Reception and Poster Session	
Friday, October 17, 2008		
8:00 – 8:30 am	Morning Refreshments	
8:30 – 8:45 am	NIST Updates - New Dynamic PMU Testing	Jerry Stenbakken, NIST
System State Identification		
8:45 – 9:00 am	15. Improved State Estimation and Development of Real-Time Wide-Area Monitoring and Control Test Bed	Srinath Kamireddy, Vinoth Mohan, Anurag K Srivastava and Noel N Schulz, Mississippi State University
9:00 – 9:15 am	16.Phasor Data Processing and State Estimation	Luigi Vanfretti and Joe Chow (RPI), Sanjoy Sarawgi (AEP), Dean Ellis (NYISO)
9:15 – 9:30 am	17. Estimation of Radial Power System Transfer Path Dynamic Parameters using Synchronized Phasor Data	Aranya Chakrabortty (RPI), Joe H. Chow (RPI), and Armando Salazar (Southern California Edison)
9:30 – 9:45 am	18. Application of PMUs for improved grid operations	Jay Giri and Rene Rosales, Areva T&D
9:45 – 10:00 am	19. Development of Methods for Optimal Placement of PMUs, Machine Internal State Estimation and a Global Index for Voltage Stability Prediction	Suresh Srivastava, Mississippi State University; S.N. Singh, Ranjana Sodhi and Praveen Tripathy, Indian Institute of Technology Kanpur, India
10:00 – 10:15 am	Break	
Phasor Networks		
10:15 – 10:30 am	20. Modeling Communications for Wide-Area Power Grid Control	Tao Yang and Anjan Bose, Washington State University
10:30 – 10:45 am	21. GridStat and the NASPInet Data Bus Concept	Dave Bakken, Carl Hauser, Dave Anderson, and Anjan

		Bose, Washington State University
10:45 – 11:00 am	22. Modeling NASPInet Data Flows	Ragib Hasan, Rakesh Bobba and Himanshu Khurana, University of Illinois at Urbana-Champaign
11:00 – 12:00 pm	Task Team Report Outs	Team Leads
12:00 – 1:00 pm	Wrap up and lunch (provided)	Stan Johnson, NERC