North American SynchroPhasor Initiative
Working Group Meeting
June 8-9, 2011

Toronto Airport Marriott
Toronto, Ontario, Canada

This NASPI work group meeting will feature success stories of synchrophasor technology use by system owners and operators. The meeting will be co-located with the North American Electric Reliability Corporation's Operations Committee and Planning Committee meetings (scheduled for June 7-8), to enable OC and PC attendee to stay over for the NASPI meeting as well.

There will be a $200 registration fee to cover meeting costs, refreshments and lunch on the two meeting days. Please register at https://payment.nerc.net/naspi/naspi_.aspx. **After May 21 an additional late registration fee of $100 will be charged**. Hotel information is at http://www.nerc.net/meetings/details.asp?id=2968.

The most recent NASPI Work Group agenda and information from past NASPI meetings are posted at www.naspi.org .

Final Agenda

Wednesday, June 8, 2011		
12:00 - 1:00pm	Registration and networking – **Lunch provided**	
1:00 – 1:05 pm	Welcome, introductions, and logistics review	Lynn Costantini, NERC
1:05 – 1:20 pm	Welcome keynote	David Curtis, Hydro One
1:20 – 1:30 pm	Welcome keynote	Sam Holeman, Duke Chairman, NERC Operating Committee
1:30 – 2:30 pm	**Owner-Operator Synchrophasor Success Stories** • Real-time grid monitoring and controls using phasor data – John Gillerman for Gilberto Badallo, CFE • Identifying sustained oscillatory behavior with PMUs -- Matt Gardner, Dominion Virginia Power • PJM-MISO-TVA coordination of phasor reference bus and naming conventions for measured sources of phasor data – Kevin Frankeny, MISO	
2:30 – 2:45 pm	Break (refreshments and networking) – sponsored by OSISoft	

2:45 – 4:00 pm	**Using Synchrophasors for Oscillation Detection and Mitigation – Tools and Success Stories** • Why do power systems oscillate? – John Undrill • Overview of oscillatory events and detection tools – Dmitry Kosterev, BPA • Mode meter use in Western Interconnection – Matt Donnelly, MT Tech • RTDMS for oscillation detection – Jim McIntosh, CAISO and Jim Dyer, EPG • OSISoft FFT oscillation detection tool – Chuck Wells, OSISoft • Alstom oscillation detection tools – Jay Giri, Alstom • WSU oscillation detection tool – Mani Venkatasubramanian, Washington State University	
4:00 – 6:15 pm	**Task Team Break-out Sessions** • Data & Network Management TT – Updating the synchrophasor system data and communications architecture components needed to achieve the NASPInet vision • Operating Initiatives TT – Cataloguing operational expectations for phasor tools • Planning Implementation TT – Model validation to improve planning accuracy and grid reliability • Performance Standards TT – PMU and PDC devices and system standards – includes technical interoperability, interface and testing guides, protocols and standards • Research Initiatives TT – Identifying and addressing R&D needs in support of a nation-wide synchrophasor infrastructure build-out by cultivating a vibrant research community. Recent synchrophasor technology research results, PMU placement paper	
6:15 – 8:15 pm	Reception	
Thursday, June 9, 2010		
7:30 – 8:00 am	Refreshments and networking	
8:00 – 8:10 am	NERC Update	Lynn Costantini, NERC
8:10 - 8:20 am	DOE Update	Phil Overholt, DOE
8:20 -8:30 am	NASPI Project Manager's Update	Alison Silverstein, NASPI
8:30 – 9:30 am	**Owner-Operator Synchrophasor Success Stories** • Advanced applications of Wide-Area Measurement in Hebei Provincial Grid, China – Chuck Moore for Dr. Yong Xu, China EPRI, State Grid of China Corp. • OG&E's use of Synchrophasors – Steven Chisholm for Austin White, OG&E • Using PMUs to track wind-generated oscillations in ERCOT -- Mack Grady, University of Texas	
9:30 – 9:50 am	Synchrophasor training at Entergy	Sean Nabors, Reflection Software
9:50 – 10:05 am	Refreshment break	
10:05 – 10:20 am	Interoperability Standards Update – NIST-Supported PSTT and PAP-13 Work	Ron Farquharson, Enernex, & Damir Novosel, Quanta Technology

10:20 – 10:40 am	PMU Reference Model Simulation – C37.118.1 Annex C	Allen Goldstein, Fluke Calibration
10:40 – 10:55 am	PMU Naming Conventions, IEEE 37.118.2 and IEC 61850	Ken Martin, EPG
10:55 – 11:15 am	PMU Standards, Testing and the SGIP	Dr. Mladen Kezunovich, Texas A&M
11:15 am – 12:00 pm	**End-to-end Testing Your Synchrophasor System** Maximizing and verifying quality data flows in a phasor data network • PG&E – Vahid Madani • SCE – David Sweeney • PMU to PDC testing – Rahul Chhabra, PJM • Debugging PDC to PDC data flows -- Dave Bogen, Oncor	
12:00 – 1:00 pm	Lunch (provided)	
1:00 – 1:15 pm	PDCs today – NASPI-IEEE Draft PDC Specifications Guide	Farnoosh Rahmatian, Quanta Technology
1:15 – 2:15 pm	**PDCs tomorrow -- Data Archiving and Retrieval – panel discussion** • What data do you want to retrieve, when, from where? • What data archiving capabilities do PDCs need? • Can current PDCs support your data retrieval needs?	
2:15 – 3:00 pm	**Task Team Report-outs**	Team Leads
3:00 pm	Adjourn	