

**NASPI Working Group Meeting
Control Room Solutions Task Team (CRSTT)
Monthly Meeting**

Presenters: Mike Cassiadoro and Jim Kleitsch
November 18, 2015



Agenda

- I. Introductions
- II. Review Presentations from Oct. 2015 NASPI Work Group Meeting CRSTT Breakout Session.
- III. Provide Status Update on CRSTT Focus Area Documents
- IV. Review Enhanced State Estimation Survey Questions
- V. Establish CRSTT Goals for 2016
- VI. Adjourn

Agenda Item II

The following presentations were delivered during the CRSTT breakout session and are posted on the NASPI website:

- Commonwealth Edison – Synchrophasor Research and Education at ComEd – Dave Schooley (ComEd)
- Peak Reliability – Peak RC Experience with Forced Oscillation Detection – James O’Brien (Peak RC)
- PJM Interconnection – PMU Simulator Tool for Operator Training on Oscillation Detection – Emanuel Bernabeu (PJM)

NOTE: A separate presentation was provided for the *Using Synchrophasor Data for Phase Angle Monitoring* paper status update. This presentation is posted on the NASPI website as well.

Focus Area Documents – Status Update

1. System Islanding Detection and Blackstart Restoration – **Posted 6/12/2015**
 - (Kleitsch – ATC, Cassiadoro – TRS)
2. Using Synchrophasor Data for Voltage Stability Assessment – **Posted 11/9/2015**
 - (Farantatos – EPRI, Vaiman – V&R Energy)
3. Using Synchrophasor Data for Phase Angle Monitoring – ETC 12/31/2015
 - (Cassiadoro – TRS, Chanoski – NERC, Nuthalapati - ERCOT)
4. Enhanced State Estimation
 - Linear State Estimation (Jones, Thomas – Dominion Virginia Power)
 - Hybrid State Estimation (Frankeny – MISO, Vaiman – V&R Energy)
5. Oscillation Detection
 - (Dyer – EPG, Blevins and Rjagopalan – ERCOT, Patel - EPRI)

Focus Area Docs – Status Update (Cont.)

6. Determining Disturbance Locations

- (Dyer – EPG, Zweigle – SEL Inc., Cassiadoro – TRS)

7. Using Synchrophasor Data to Monitor Reactive Power Balancing

- (Cassiadoro - TRS, SCE –A.J, Peak RC – Zhang)

Enhanced State Estimation Survey

Discuss issuing a survey to electric utilities and grid operators with the following questions:

1. Do you use synchrophasor data for State Estimation?
2. What is the down sample rate for the synchrophasor data that is used for State Estimation?
3. How many PMU signals do you use for State Estimation?
4. How many SCADA measurements do you use for State Estimation?
5. Do you run Linear or Hybrid State Estimation? If Yes, how frequently do you run it?

CRSTT Goals for 2016

Discuss CRSTT goals for 2016, which may include:

1. Prioritize and complete remaining focus area documents
2. Develop operational use case summary documents to support NASPI technical papers
3. Create additional video event files for use cases and simulated events (includes data sharing)
4. Gather operator feedback on synchrophasor applications (best practices)
5. Identify available training materials

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Next CRSTT Conference Call: December 16, 2015

Next NASPI Work Group Meeting: March 2016