

**NASPI Working Group Meeting
Control Room Solutions Task Team (CRSTT)
Breakout Session Report**

Presenters: Michael Cassiadoro and Kevin Frankeny
October 23, 2014 – Houston, TX



Session Highlights

- I. Reviewed CRSTT priorities, focus areas and related tasks
- II. Requested event data for video library
- III. Reviewed draft focus area documents
- IV. Discuss near- and long-term success of integrating synchrophasor technology into the control room environment
- V. Held joint meeting with Data & Network Management Task Team (DNMTT)
- VI. Adjourned

CRSTT Priorities

1. Increase awareness of advance synchrophasor applications and their use in the control room
2. Provide guidance on best practices
3. Identify issues that impede implementation
4. Ensure application training is available to end users and promote operational event analysis to demonstrate value
5. Develop a roadmap with milestones for the implementation of synchrophasor-based applications in the control room

CRSTT Priorities (Cont.)

6. Support the development of operating policies and procedures that relate to integration of synchrophasor data and information into the control room
7. Encourage the integration of synchrophasor data with other control room data (e.g. SCADA) to enhance the information provide to real-time operations staff

Collecting Data for Video Event Files

- Objective: build a video library of events to demonstrate the value of synchrophasor data when analyzing disturbances
- The first six video files have been posted on the website (<https://www.naspi.org/crstt>)

The CRSTT needs addition data to develop more video files...any volunteers?

Advancing Synchrophasor Apps – Focus Area Documents and Video Events

1. Enhanced State Estimation
 - Linear State Estimation (Jones, Thomas – Dominion Virginia Power)
 - Hybrid State Estimation (Frankeny – MISO)
2. Post-Contingency Phase Angle Alarming
 - (Cassiadoro – TRS, Chanoski – NERC, Nuthalapati - ERCOT)
3. Oscillation Detection
 - (Dyer – EPG, Bill Blevins and Rjagopalan – ERCOT, Navin Bhatt - EPRI)
4. System Islanding Detection and Black-Start Restoration
 - (Galvin, Kleitsch – ATC)

Advancing Synchrophasor Apps – Focus Area Documents and Video Events (Cont.)

5. Determining Disturbance Locations

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

6. Voltage Stability using Synchrophasor Data

- (Navin Bhatt – EPRI, Marianna Vaiman – V&R Energy)

7. Build a video library of events to demonstrate the value of synchrophasor data when analyzing disturbances

- (Jim Kleitsch – ATC, Jim Dyer – EPG)

NOTE: PJM has volunteered to assist w/ the *State Estimation*, *Post-Contingency Phase Angle Monitoring*, and *Oscillation Detection* documents and provide event data for the video library.

CRS Task Team – Primary Contacts

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Next CRSTT Conference Call: November 19, 2014