

Control Room Solutions Task Team (CRSTT) Conference Call Minutes  
April 20, 2016

Co-leads, Mike Cassiadoro ([mcassiadoro@totalreliabilitysolutions.com](mailto:mcassiadoro@totalreliabilitysolutions.com))  
& James Kleitsch ([jkleitsch@atcllc.com](mailto:jkleitsch@atcllc.com)), co-leads  
Teresa Carlon ([teresa.carlon@pnnl.gov](mailto:teresa.carlon@pnnl.gov)), support

### Attendees

Roll call – see list below. Call led by Jim Kleitsch.

### Action Items

- Teresa – get Phase Angle Monitoring videos uploaded to the NASPI web site. The links will then in be to be embedded into the paper. Paper is considered final at that point and then can be posted on the NASPI web site.
- Jim K. would like to be added to the **Determining Disturbance Locations effort (#6)**. Teresa will add Jim’s name to the list.
- Another focus area document – [Real Time Path Transfer Limit Computation](#) (Quanta Technology).
- All – any strong opinions one way or another to include revising the CRSTT mission to include the word “training.”
- Mike C. - Using Synchrophasor Data to Monitor Reactive Power Balancing; Mike to follow up with AJ who wasn’t able to present at the March meeting. See if AJ would be interested in presenting at one of the CRSTT conference calls.
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### Minutes

- Download the CRSTT breakout session presentations from Atlanta, GA, from the [NASPI web site](#).
- Held a productive 2.5 hour breakout session at the March NASPI Work Group Meeting; Ryan Quint provided an update on the NERC Synchrophasor Measurement Subcommittee (SMS) identifying objectives and activities, group agreed we want to work with the SMS going forward, specifically the training and paper on Phase Angle.
- CRSTT will be assisting the NASPI Leadership Team to plan and hold a Phase Angle Monitoring Technical Session at the October 2016 NASPI Work Group meeting in Seattle, WA. This event will be coordinated with Ryan Quint. If interested in contributing to this effort please contact either Mike or Jim.
  - o Present Value to Real-time Ops (e.g., monitoring of specific corridors, wide-area monitoring)
  - o Exhibit Best Practices
  - o Demonstrate Training Methods
- From the breakout session another focus area paper has been identified; Synchrophasor enabled Total Transfer Capability Determination. This item came from the presentation by Ali Daneshpooy, et al, at Quanta Technology.
- Mike C. commented on the discussion that was held with regards to the CRSTT’s mission statement and revising it to include the word “training.”
- Working on completing the Phase Angle Monitoring focus document. Near completion.
- Jim K. would like to decide which focus documents to leave or remove from the list. If we aren’t going to pursue the remaining documents on the list maybe it is time we remove them.
- #7 Using Synchrophasor Data to Monitor Reactive Power Balancing; Mike C. would like to keep this on the list. Mike to follow up with AJ who wasn’t able to present at the March meeting.

- #8 Establishing Operating Limits and Determining Transfer Capabilities; Mike would like to look back at documentation that is out there to understand how operator and electric utilities use this data in establishing operation limits. Develop a paper around that area of interest.
- Enhanced State Estimation Survey – ETC May 2016. Still in progress waiting reviews.

## **Adjourn**

### **Next CRSTT Conference Call**

- **May 18, 2016 @ 12:30pm PT / 3:30pm ET.** The conference calls are scheduled for the third Wednesday of the month unless otherwise noted.

### **Reference Documents**

[NASPI CRSTT web site](#)

[NASPI CRSTT Advanced Synchrophasor Applications](#)

[System Islanding Detection and Blackstart Restoration](#) – **Posted 6/12/2015**

[Using Synchrophasor Data for Voltage Stability Assessment](#) – **Posted 11/9/2015**

[Using Synchrophasor Data for Phase Angle Monitoring](#) – **in progress**

### **Attendees**

Christopher Sharp  
Clifton Black  
Frank Tuffner  
Jim Kleitsch  
Jim Viikinsalo  
Mike Cassiadoro  
Slava Maslennikov  
Subbu Sankaran  
Teresa Carlon