May 28, 2019 Combined Call Notes

Control Room Solutions Task Team (CRSTT)
Co-leads, Michael Cassiadoro (mcassiadoro@totalreliabilitysolutions.com) and Jim Kleitsch (jkleitsch@atcllc.com)
Email list address: naspi-taskteam-controlroom@lyris.pnnl.gov

Distribution Task Team (DisTT)
Co-leads, Sascha Von Meier (vonmeier@berkeley.edu) and Dan Dietmeyer (DDietmeyer@semprautilities.com)
Email list address: naspi-taskteam-distribution@lyris.pnnl.gov

Teresa Carlon, NASPI support and website and listserv contact (teresa.carlon@pnnl.gov)

Attendees
Roll call – see list below.

Meeting Notes
The CRSTT and DisTT have decided to try and hold joint conference calls in an effort to coordinate on overlapping work products. This format will be tried for the next few months. Please feel free to comment on whether or not you like the combined calls.

CRSTT

- April 2019 NASPI Work Group meeting recap; communications and networking technical workshop (data quality and accuracy still ongoing issues, big data analytics) increased focus on point-on-wave measurements, significant discussion about use of artificial intelligence and machine learning in the control room (how would AI and ML effect operations?), discussed having a webinar to grasp what that might look like in the control room, new format for NASPI task team breakout sessions, and CRSTT & DisTT commitment to coordinate work products.
- Mike covered the CRSTT mission, goals, and objectives for the CRSTT. This information is posted on the CRSTT web page. The CRSTT goals have been as follows: creating a series of use case documents, video even files for use cases and simulated events, gather operator feedback on synchrophasor-based applications, support the design, development, and delivery of synchrophasor-related training for ops staff, develop a series of lessons learned related to the use of synchrophasor technology in the operations environment and draft new and update existing focus area documents as needed.
- Mike and Jim asserted if people need help with **use cases or event files** to please reach out to us. We'd be happy to help pull that information together.
- Slava noted a couple **more work products** – use of synchrophasor as a backup for control centers when SCADA or EMS is down, ABC control for balancing and generation using synchrophasor data, provide educational awareness, and interest in successful use in control room for protection of forced oscillation.
- Kevin asked about the actionable compliance issue, NERC SMS was working on it. Jim responded; look for an update in a couple of months.

- Dan Dietmeyer added we should look at opportunities to take **SDGE lessons learned** what they are doing to develop/deploy applications in the control room over the next 1-2 years; difference software features and upgrades that will be used by their grid operators.

DisTT

- Sascha shared the DisTT mission statement and past activities (e.g. Synchrophasor Monitoring for Distributions Systems: Technical Foundations and applications). Learn more about the DisTT.
- Mission statement has been probably more focused on research more than actual operations, in terms of offering support to industry – we've been trying to establish a resource to utilities who are interested in exploring a little more industry practice. Create a community to share technical information.
- Sascha would like to create a list of DisTT goals and objectives. Sascha to draft a list of objectives.
- DisTT white paper: Synchrophasor Monitoring for Distribution Systems -Technical Foundations and Applications.
- Produced a number of **Use Case documents** that can be downloaded from the DisTT website.
- Public uPMU data link (https://plot.research.predictivegrid). Sascha would like more non-sensitive data for research.
    - username: anu_public
    - password: Canberra
    - apikey: A37C1C2F540CD68EB229D530
- DisTT areas of interest; DER behavior and recruitment, black start islanding, recovery, from extreme events, event identification, dep learning, optical sensors vs. potential and current transformers, and impact of number and heterogeneity of sensors. **If you are interested in leading a form focused study groups on any of these items please contact Sascha, Dan, or Teresa**.
- Sascha would like to propose conducting a Data Quality Requirements Study for defining distribution PMU data quality needs and understanding the value of synchronized non-phasor data, and point-on-wave data. **Next steps**: refine outline, work plan, section assignments. **Objective**: rough draft by next Work Group meeting. https://docs.google.com/document/d/12n1Ca8abhbReiEongxFONq5g_IPhNqswrXuojI3GWHM/edit

Next conference call: July 23, 2019 at 10:00am PT / 1:00pm ET.

Attendees

Anurag Srivastava
Ben Kregel
Chandan Kumar
Dan Dietmeyer
Evan Phillips
Evangelos Farantatos
Frank Tuffner
Grace Bouziden
James Kleitsch
Kevin Chen

Mahendra Patel
Manjari Asawa
Mike Cassiadoro
Rajkumar Anumasula
Sanam Mirzazad
Sarma (NDR) Nuthalapati
Sascha von Meier
Slava Maslennikov
Teresa Carlon
Tom Rizy
Yinhua Guo