# May 26, 2020 - Combined CRSTT/DisTT Call Notes

**Control Room Solutions Task Team (CRSTT)**
Co-leads, Michael Cassiadoro (mcassiadoro@totalreliabilitysolutions.com), Jim Kleitsch (jkleitsch@atcllc.com) and Sarma Nuthalapati (NDR) (ndrsarma@ieee.org)
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. Call led by Sacha and NDR.

## Action Items
o  Dan to check with his legal department on releasing a document that might be used to help generate Use Cases.
o  Sascha is going to investigate doing a wildfire mitigation call and/or webinar. More details to come on this subject.
o  Please register for **NASPI's next webinar, June 24**. Jim Follum (PNNL) will present Real-Time Oscillation Analysis: Technology Readiness, and a Vision for Future Needs and Applications.

## CRSTT
o  Mission, goals, and objectives can be found on the CRSTT webpage. Feel free to reach out to Mike, Jim, or NDR with any questions you might have on this topic.
o  Focus area documents; those that are completed are posted on the CRSTT webpage. Phase Angle Monitoring is being updated by NDR, an update will be provided on the next call. We do not have any volunteers for the Using Synchrophasor Data to Monitor Reactive Power Balancing. If you are willing to help please get in touch with the Mike or Jim.
o  Video events; add link to January 2020 event which is posted on YouTube.
o  Use cases are provided to grid operators and electric utilities to become familiar with operational value.
o  Time-Synched Measurement Training developed by TRS and PNNL. The general strategy and approach is to engage industry, focus on reliability related tasks, apply consistent structure, present all pertinent info, and introduce enhanced visualization.
o  NASPI webinar series: please join us for these free and valuable presentations by subject matter experts.

## DisTT
o  Introductions of new attendees on the call.
o  DisTT report progress update; second draft has been sent to the DisTT email list.
  o  Document in now in Overleaf (Latex).

- A few more contributions/references have been received and are being incorporated into the document (https://www.overleaf.com/2473842656bmgztwskntvm).
- Comments can be submitted up until May 29 to Sascha (vonmeier@berkeley.edu).
- Gaps and questions (reference today's agenda pg 22).
    - Some sections were omitted since no one volunteered to write them, these could be in the next report.
    - Discussion about what distribution PMUs are capable of based on what we are using them for. Part of what we are trying to accomplish make explicit what the industry should do to make the PMU more useful; standards should be written based on practical and realistic needs (e.g. measurement precision, latency requirements, how do PMUs deal with errors, etc.). Drawing conclusions in the sections of the report have been challenging, but why?
    - Sascha asked why is it so hard to address the explicit performance requirement for distribution PMUs? Harold responded that there is a "feeling" out there that the things that we measure exist and are waiting for us to measure them, measurements should not be adjusted to fit the application. Measurements should be application driven. The other part is since there are any real applications right now, how do you specify the classes of requirements to something that hasn't been done yet? Dan asserted at SPG&E we are using PMUs on the distribution implementing a falling conductor program, sample rate is 30x/sec seems to be sufficient for us in terms of having adequate bandwidth on our circuit radio networks. Harold wanted to know if this was a sample or reporting rate? Dan they are doing 30 sample/second. Sascha asserted this was probably a reporting rate at 30x/second. Dan said the rate is working for them. One of the applications Dan see's being beneficial is there is a lot of distribution generation out there with renewables on distribution circuit and some teams of been deploying power quality meters out on the circuit, not sure exactly what spec PMU you would need to serve in that function but Dan could see that being a useful application of a PMU to be able to get that type of data on some of our remote distribution circuit. Bryce agrees with Dan and added if we're talking about hardware specs, he doesn't thinks we can leave network topology on the table, all the use cases are going to require topology identification at the measured granularity (pmu or point-on-wave), we need to know where that is in the network. NDR asked is it ok to assume a radio technology? Bryce said no. Sascha stated is it fair to say that under normal circ the vast majority of distribution systems will be a in a radio configuration but the one moment that they happen not to be is when we like to know that – the algorithm should be able to handle the non-radio configuration. Dan asserted we need to be careful not to create SCADA system that already detects these things. Some of the detection capabilities of these things might already exist. Sascha asked if the topic of topology identification, have we done an adequate job in draft report to outline what the requirements are for the sensor infrastructure.
    - Following up on Use Cases – does anyone on the DisTT feel the desire to write up an use case to add to the library? Dan might have a document that we can

use to help generate a Use Case(s). Dan will check with legal to check on release status.

- ▪ Wildfire mitigation; should we have a focus group on this topic such as a webinar? Sascha wants to aim for two weeks from now.

**Next conference call:** <span style="color:red">**June 23, 2020, 10:00am PT / 1:00pm ET**</span>. Fourth Tuesday of the month unless otherwise noted.

## Attendees

Anurag Srivastava
Brent Blanchard
Bryce Johanneck
Dan Dietmeyer
Farnoosh Rahmatian
Greg Zweigle
Harold Kirkham
Jeff Zhao
Jim Kleitsch
Laurel Dunn
Mayank Panwar
Mike Cassiadoro
Panagiotis Moutis
Sarma Nuthalapati (NDR)
Sascha von Meier
Teresa Carlon
Tom Rizy
Yi Hu