

October 29, 2021

Call Notes

Performance Requirements, Standards, & Verification Task Team Meeting

Jim O'Brien (Jim.O'Brien@duke-energy.com) and
Farnoosh Rahmatian (frahmatian@nugridpower.com), Co-leads
Teresa Carlon (teresa.carlon@pnnl.gov), Support
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Action items:

- Teresa; remove C37.242 from future agendas.

1. Roll call

All

2. Outstanding projects update

- Survey of instrument transformers connected to installed PMUs – Teresa sent Jim and Farnoosh the contacts for the survey. Responses have been received from ATC and SCE. FPL did not complete the survey, however Teresa just followed up with a reminder on October 19, 2021. We still need to collect a response from Jim O'Brien (Duke Energy).
Farnoosh Rahmatian/
Teresa Carlon
- Progress of three white papers – Paper #1 - Sajan received a couple emails as a result of the email sent to the NASPI Work Group and Sajan added another section in which he is waiting for input to come back. The goal would be to share the final paper with the entire NASPI Work Group by year end. Paper #2; arranged all the input, addressing minor comments, about 90% complete, in a couple of weeks the paper should be ready for circulation and then ready for the NASPI WG within the next month. Paper #3; almost winding it up, but after sharing the link with the NASPI Work Group a few more comments came in, by the end of the month we plan to finalize this paper, and then it will be ready to be shared among members.
Sajan K.S./
Pratim Kundu
 - o (Sajan) Survey of Existing PMU applications Around the World and Classification – Waiting on some more input. ([link](#) to document)
 - o (Pratim) Analyzing Synchrophasor Performance Requirements for Synchrophasor based Control Applications – Just need to add formatting and a few comments that need to be addressed. ([link](#) to document)
 - o (Pratim) Data Quality Impacts on Synchrophasor based Control Applications – see above. ([Link](#) to document)

3. Update on other activities – Standing Topics:

All

- PMU Standard(s)
 - o C37.242 (Allen Goldstein) – this standard is now complete and published. Remove from the agenda for future meetings.
 - o C37.118.2 (Vasudev Gharpure) – Ken asserted a draft was finished in September, members reviewed this version, comments received, and now the document is back out to the members to do more edits.
- PDC Standard(s)
 - o Working Group C40 (Vasudev Gharpure) – Tutorial will be presented in July 2022.
- IEEE PES PSRC C23 (Allen Goldstein) – Allen asserted they met at the last PSRC meeting in September, provided a report out during the working group meeting. Interesting discussions at that meeting and Allen is wondering if any of these items would be of interest to the PRSVTT (or other parts of NASPI); high speed measures inverter based resources/distributed loads, high speed measures, goodness of fit, data compression, signal compression. Discussion also around technologies on the horizon; advanced network, MPLS (DNMTT), applications of the measurements, AI, machine learning, data mining, data archiving and what should be archived, cyber security, etc. How should this map to PSES work? Are there any needs here to standardize?
- IEEE ICAP/NIST (Allen Goldstein/ Ravi Subramaniam) – Six PMUs are now certified by ICAP. Program continues, no more PMUs in the pipeline, and another laboratory that wants to become a certification lab for PMUs; system being calibrated. NIST continues to do quite a bit of standards work, working on the performance of frequency and RoCoF measuring devices, constrained to devices in DERs just because this is an immediate need. The standard specifically excludes PMUs b/c that has been handled by another IEC standard.
- IEEE PE/PSCC P2664 Standard for Streaming Telemetry Transport Protocol (Ken Martin) – progress is being made, had a problem with terminology with channel vs. connection – went through a process to revise those terms. TCP UDP will be used to write the standard if that becomes a viable option. All the sections are pretty much finished, on track to make the December 2022 deadline.
- IEEE PES PSRC C41 Working Group – Investigate Performance Requirements for Distribution PMUs – (Ken Martin) – meeting this week to consider what environmental influences will be, a student from UC Berkeley working this effort, looking at the testing for a PMU to meet those testing, writing a report for the background of a potential distribution standard. A year or so out from completion.

4. DisTT Update (Ken Martin) – The CRSTT/DisTT call was an open mic format. There were several new first time NASPI attendees. Eric Andersen is working on a survey to collect data from utilities regarding their control room training challenges and what can NASPI do to help them.

5. Other topics / new business
- None

All

Next PRSVTT Conference Call

All

- **December 17, 2021**, at 8:00am PT / 11:00am ET. Teresa will not be in attendance. If someone could take notes, I'll be happy to format and distribute for the team. Thank you!

Adjourn

Attendees

Carlton, Teresa A
Goldstein, Allen R.
Kaduvettykunnal Sadanandan, Sajan
König, Manuel
Mahapatra, Kaveri
Martin, Ken
O'Brien, Jim
Pratim (Guest)