

**Performance Requirements, Standards, & Verification Task Team (PRSVTT) Minutes  
January 26, 2018**

Jim O'Brien ([Jim.O'Brien@duke-energy.com](mailto:Jim.O'Brien@duke-energy.com)) and  
Farnoosh Rahmatian (<mailto:frahmation@nugridpower.com>), Co-leads  
Teresa Carlon ([teresa.carlon@pnnl.gov](mailto:teresa.carlon@pnnl.gov)), Support  
Email list address: <mailto:naspi-taskteam-performance@lyris.pnnl.gov>

**Actions** from today's call:

- Farnoosh to finish the guidance document for the survey of instrument transformers connected to installed PMUs. **Due Friday, February 2, 2018.**
  - Teresa to add Mahendra's name to the agenda the IEEE PES PSRC C23 update.
  - Jim will reach out to Alison again to inquire about funding the *performance needs for applications* effort. The consensus was that this effort, to do it right, would take more than just a volunteer.
  - Farnoosh, since paper is accepted already, send to larger group; protection applications of synchrophasor under fault conditions: fault location applications.
  - **NASPI awards are due March 2.** Form and more information can be found here: <https://www.naspi.org/node/693>
1. Roll call – see below. Jim led the call. All
  2. Outstanding projects update
    - PMU Application Requirements Task Force (PARTF) – Allen; PARTF end of its data, advertised publically, good news contribution received of a power plant model validation application from a student in Argentina, gives people the ability to understand the impact of data quality impairment, shows response of different levels of white noise, third example application. Big news... authorization for funding for doctoral candidate at NIST after July for 3-6 month position, word is just now getting out, prefer U.S. citizen. Allen Goldstein
    - Synchrophasor data under fault conditions – Harold; some time ago the paper was started and then dropped but Harold has not forgotten about the topic. Harold recognizes that the Goodness of Fit metric can be used to get the value for the maximum error for individual measurements. Harold intends on giving a paper at NASPI if accepted. Krish Narendra
    - Survey of instrument transformers connected to installed PMUs – Farnoosh; no progress has been made. Alison stated that she wanted this done soon. Farnoosh Rahmatian
    - PMU for control applications – No update. Teresa to reach out to Anurag for an update. Anurag Srivastava

3. Update on other activities – Standing Topics: All

- PMU Standards
  - o P60255-118-1 (Ken Martin); Ken; gone through two rounds of balloting, successfully approved, second round for IEC resulted in a few changes so a recirculation is needed, if nothing coming back from IEC then a recirculation with IEEE will move forward.
  - o C37.242 (Allen Goldstein); Allen; IEEE is revising due to changes in standard and lessons learned, publication date will be after new PMU standard is published, bi-weekly meetings taking place, progress is being made, speculation goes to actual lessons learned.
  - o C37.118.2 (Vasudev Gharpure); Ken; meeting last week (bi-weekly), creating a list of topics that will be considered for the update to the standard, sorting through the list.
- PDC Standards
  - o PC37.247 (Vasudev Gharpure); Vasudev; no update.
- IEEE PES PSRC C23 (Jim O'Brien) Jim; second week of January, Mahendra replacing Tony Johnson. Teresa, update agenda to reflect this change.
- IEEE ICAP/NIST (Allen Goldstein/ Ravi Subramaniam) Allen; PMU going through the process for certification, two labs getting toward the end of the quoting process, two labs will (hopefully) certified, one outside the U.S.
- GMLC Update – Tom Rizy; no update.

4. Other topics / new business All

- Jim; performance needs for applications (e.g. oscillation detection). Jim reached out to Alison to find out what she had in mind: her thoughts were to see what power systems experts think is necessary in terms of application speed, output, details, accuracy, etc., and compare to current system to get a marker for ongoing development we need to improve it. Is this something we'd still like to consider as a team? Anybody willing to champion this and take a lead? Allen, would support project in this task team, PARTF test framework tool might be useful here. To do this right, we should go back to Alison and inquire about funding. Can DOE help?

Next PRSVTT Conference Call All

- **February 23, 2018 at 8:00am PT / 11:00am ET unless otherwise noted.**

**Attendees**

Allen Goldstein  
Farnoosh Rahmatian

Fred Steinhauser  
Harold Kirkham  
Jeff Zhao  
Jim O'Brien  
Ken Martin  
Laurie Miller  
Mahendra Patel  
Teresa Carlon  
Tony Weekes