

Performance Requirements, Standards & Verification Task Team

- Task Team Co-Leaders:
 - Jim O'Brian, Duke Energy
 - Farnoosh Rahmatian, NuGrid Power
- Task Team Support:
 - Teresa Carlon, PNNL



Four presentations

- 1. IEEE Conformance Assessment Program
 - Presented by Jason Allnutt (IEEE SA ICAP)
 - PMU Certification to C37.118.1a-2014 is available now
 - Test Suite for C37.238 (Power Profile for Precision Time Protocol IEEE 1588) is under development
- 2. Nyquist and the PMU -
 - Presented by Frank Tuffner for Harold Kirkham
 - Examined and challenged the anti-aliasing requirements and language of the C37.118.1-2014 standard
 - Heavily challenged paper!



Four presentations (cont'd)

- 3. Model of Parameterized PMU Estimation Error
 - Presented by Jeff Zhao (UTK), Allen Goldstein (NIST) & Tom King (ORNL)
 - Impact of PMU output error
 - Model of 4 types of PMU measurement errors
 - Based on 9 basic PMU testing results
 - Usage: Application verification, PMU model for simulation, Self-reporting error PMU
- 4. PMU Application Requirements Task Force (PARTF) update
 - Framework is progressing well



Ongoing Work

- 1. Synchrophasor data "during" faults Krish Narendra
 - Both measurement and communication aspects
 - An 18-page draft is available for internal review (also including Goodnessof-Fit info).
- 2. Instrument transformers behind PMUs Farnoosh Rahmatian
 - Survey of what is present behind "today's" installed PMUs
 - The survey template is revised and ready will initiate the survey in April
 - Particularly interested in CTs/PTs/CVTs connected to PMUs installed through SGIG projects
 - Working on list of participants



Standards Updates

- Second CD for IEEE/IEC 60255-118-1 (synchrophasor measurement standard) is going through comments resolution process
 - Should finalize addressing all comments in about 2 months.
 - Then will decide whether to go for CD or CDV
- WG C28 at IEEE PES PSRC is moving forward revising C37.242-2013 (Guide for Synchronization, Testing, Calibration and Installation of PMUs)
 - Have monthly conference calls
 - Target to publish shortly after 60255-118-1 release



- Standards Updates
 - PC37.247, PDC Standard is progressing
 - PAR needs to be extended at the end of this year
 - PSRC C23
 - Next PSRC meeting is in May, in Albuquerque, NM
 - GPA STTP new Task Force at PSCCC



PRSVTT Discussions – 03/22/2017

Had discussions on the future of PRSVTT





