

- P60255-118-1 Measuring Relays and Protection Equipment - Part 118-1: Synchrophasor for Power System – Measurements
 - Dual logo IEEE and IEC
 - Approved by both entities
 - Expected publication in November 2018



- P60255-118-1 (continued)
 - This revision clarifies requirements and simplifies definitions from C37.118.1
 - Testing for certification only required at 1 reporting rate
 - Adds optional certification Annexes
 - Accuracy & extended measurement ranges
 - Bandwidth determination
 - Introduces requirements for synchrophasors from sample values (for next revision)



- C37.242 Guide for Synchronization, Calibration, Testing, and Installation of Phasor Measurement Units (PMUs) for Power System Protection and Control
 - Originally published in 2013 (fast tracked from 3 NASPI reports)
 - Testing section was made obsolete by IEEE TSS which triggered the early revision
 - Guide should be ready for vote to go to sponsor ballot by the JTCM in January



- C37.118.2 Standard for Synchrophasor Data Transfer for Power Systems
 - Simplify some features and remove ambiguities
 - Remove unused features
 - Add some needed features (currently working on the details of the new, needed features)



- PC37.247 Standard for Phasor Data Concentrators for Power Systems
 - To replace C37.244 Guide for Phasor Data Concentrators
 - Has gone through recirculation ballot #1
 - Technical comments remain to be resolved so will need another recirculation ballot



- IEEE 2664 Streaming Telemetry Transfer Protocol
 - New standard
 - PAR (Project Authorization Request) has been approved by IEEE SA
 - Outline for document in development
 - Majority of material exists in reports
 - Expect 1st draft in about a year



- IEEE Report on Standard Mapping between C37.118.2 and IEC61850
 - Working group doing final clean up
 - Working group vote is needed for publication
 - Expected by JTCM meeting in January

IEEE Phasor Measurement Unit Conformity Assessment Program

■ IEEE Certification of PMU's gives Manufacturers the opportunity to demonstrate conformance to IEEE C37.118.1a – 2014

Three certified PMUs to the 2014 version of C37.118 on the ICAP Certified Registry.



IEEE Certification Registry Link: https://standards.ieee.org/productsservices/icap/certification-registry/index.html

Revision of the IEEE Synchrophasor Measurement Test Suite Specification (TSS) underway to align with revisions to the IEEE C37.118 standard.

IEEE PMU Certification Pricing guide available online for testing and certification fees. http://standards.ieee.org/about/icap/icap_form.html

Consumers Energy (Jackson, MI) was the first ICAP Accredited Lab and offers complete testing capabilities to the TSS

More Info on Consumers Energy at <u>www.laboratoryservices.com</u>

For more information about this program or any other ICAP related questions please contact Jason Allnutt <J.Allnutt@ieee.org>





Upcoming IEEE Working Group meetings IEEE PES JTCM (Joint Technical Committee Meeting) January 13-17, 2019 Hyatt Regency Orange County Garden Grove, California

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