

Testing & Verification of Interoperability IEEE PSRC C5 WG Update

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IEEE PC37.242™

PSRC C5 Working Group

- Draft Guide for Synchronization, Calibration, Testing, and Installation of Phasor Measurement Units (PMU) for Power System Protection and Control
- Plan to Ballot by mid 2011

Following May PSRC Meeting

- Paul Myrda incorporated NASPI PSTT guidelines into IEEE Standard format
 - assistance by IEEE SA staff

PSRC Meeting Berkeley, CA

September 15, 2010

- Prior to meeting of the C5 Working Group
 - Number of “behind the scenes” activities took place in the two days before the C5 meetings
 - Significant interest was expressed in the work of C5 by members of another Subcommittee
 - Great support from PSRC officers, a couple of Subcommittee chairs and IEEE SA staff
 - Led to enhanced coordination between PSRC Working groups (C5, H7 and H11)

PSRC Meeting Berkeley, CA

- Second meeting of C5 Working Group
 - Met in a double session, well attended
 - 4 sub groups created to review the guidelines and make appropriate revisions by end Oct.
 - Vice chair & chair to update draft by end Nov.
 - Feedback from C5 members planned by Jan. 5, 2011 in preparation for next PSRC meeting

IEEE PC37.242™ Scope

- The document provides guidance for Synchronization, Calibration, Testing, and Installation of Phasor Measurement Units (PMU) applied in Power System Protection and Control

The following are addressed in the Guide:

- Considerations for the installation of PMU devices based on application requirements and typical bus configurations
- Techniques focusing on the overall accuracy and availability of the time synchronization system
- Test and calibration procedures for phasor measurement units (PMUs) for laboratory and field applications
- Communication testing for connecting PMUs to other devices including Phasor Data Concentrators (PDC)

IEEE PC37.242™ Purpose

- This guide is intended to be used by power system protection professionals for PMU installation and covers the requirements for synchronization of field devices and connection to other devices including Phasor Data Concentrators (PDC)