

IEEE SA STANDARDS BOARD NEW STANDARDS COMMITTEE (NesCom)

MEETING MINUTES

30 January 2025

Teleconference

9:30 a.m. – 11:00 a.m. ET (UTC-5)

Attendees

Members Present:

Lei Wang, Chair
Guido Hiertz, Vice Chair
Kit August
Sara Biyabani
Xiaofeng (Alfred) Chen
Yuan Chi
Stephen Dukes
Doug Edwards
Darren Galpin
Johnny Lin
Daleep Mohla
Jon Rosdahl
Daidi Zhong

Members Absent:

Ramy Fathy
Hao Hu
Howard Li

IEEE Staff:

Christy Bahn
Adrien Bastos
Teresa Belmont, Administrator
Kim Breitfelder
Matt Ceglia
Karen Evangelista
Dalisa Gonzales
Jodi Haasz
Yvette Ho Sang
Patrycja Jarosz
Soo Kim
Michael Kipness
Vanessa Lalitte
Jiajia Liu
Sandra Maru
Karen McCabe
Suzanne Merten
Erin Morales
Christian Orlando

Moira Patterson
Dave Ringle
Pat Roder
Jennifer Santulli
Malia Zaman

Guests:

Sandeep Agarwal
Edward Au
Ted Burse
Periklis Chatzimisios
Hui Ding
Jean-Philippe Faure
Latonia Gordon
Eric Hibbard
Ron Hotchkiss
Amit Kumar
Guanhua Li
Rui Li
Haiying Lu
Kevin Lu
Ralf Ma
Hiroshi Mano
Frank Neder
Paul Nikolich
Rahul
Annette Reilly
Robby Robson
Dan Sabin
Robby Simpson
Claire Topp, IEEE Outside Legal Counsel
Keith Waters
Minrui Xu
Xiaoping Zhang
Yuhong Zhu

1. CALL TO ORDER

Chair Lei Wang called the meeting to order at 9:31 a.m. ET (UTC-5). There was a round of introductions.

It was noted that the meeting was quorate.

2. REVIEW OF AGENDA

Chair Wang reviewed the agenda.

There was a motion to approve the agenda, including the consent agenda. In the absence of objection or abstention, the motion was approved.

3. APPROVAL OF MINUTES FROM THE 9 DECEMBER 2024 MEETING

There was a motion to approve the [9 December 2024 meeting minutes](#). In the absence of objection or abstention, the motion was approved.

4. PARS FOR DISCUSSION

Unless indicated otherwise, the motions were approved unanimously.

4.1 Withdrawal Requests

There was a bucket motion to approve P1451.4 and P2977 based on the fact that preliminary votes have no objections to recommending approval and there are no unresolved NesCom member comments. In the absence of objection or abstention, the motion was approved.

IEEE Instrumentation and Measurement Society/TC9 - Sensor Technology

P1451.4

Standard for A Smart Transducer Interface for Sensors and Actuators--Mixed-Mode Communication Protocols and Transducer Electronic Data Sheet (TEDS) Formats

Recommendation: Approve PAR withdrawal.

IEEE SA Board of Governors/Entity Collaborative Activities Governance Board

P2977

Adoption of the MIPI A-PHY Specification Version 1.1

Recommendation: Approve PAR withdrawal.

4.2 Modified PARs

There was a bucket motion to approve P25070, P2796.1, P2796.2, PC37.17, PC57.141, and P62704-3 based on the fact that preliminary votes have no objections to recommending approval and there are no unresolved NesCom member comments. In the absence of objection or abstention, the motion was approved.

IEEE Computer Society/Software & Systems Engineering Standards Committee

P25070

Systems and software engineering --Systems and software Quality Requirements and Evaluation (SQuaRE)--
Quality engineering framework

Recommendation: Approve modified PAR.

IEEE Computer Society/Standards Activities Board Standards Committee

P2796.1

Standard for Data Requirements for Internet of Food Systems

Recommendation: Approve modified PAR.

P2796.2

Standard for Data Exchange Architecture and Interface Requirements for Internet of Food Systems

Recommendation: Approve modified PAR.

IEEE Power and Energy Society/Switchgear

PC37.17

Standard for Trip Systems Integral to Low-Voltage (1000 V and below) AC and General Purpose (1500 V and below) DC Power Circuit Breakers

Recommendation: Approve modified PAR.

IEEE Power and Energy Society/Transformers

PC57.141

Guide for Detection, Monitoring, and Evaluation of Winding Deformation in Liquid-Immersed Power Transformers Rated above 66 kV

Recommendation: Approve modified PAR.

IEEE SA Board of Governors/International Committee on Electromagnetic Safety

P62704-3

Determining the Peak Spatial-Average Specific Absorption Rate in the Human Body from Wireless Communications Devices, 30 MHz to 6 GHz—Part 3: Specific Requirements for Using the Finite Difference Time Domain Method for Specific Absorption Rate Calculations of Mobile Phones

Recommendation: Approve modified PAR.

4.3 Extension Requests

There was a bucket motion to approve P2023 and P1095 based on the fact that preliminary votes have no objections to recommending approval and there are no unresolved NesCom member comments. In the absence of objection, the motion was approved.

IEEE Industrial Electronics Society/Industrial Electronics Society Standards Committee

P2023

Standard for Digital Transformation Architecture and Framework

Recommendation: Approve request for an extension until 31 December 2025.

IEEE Power and Energy Society/Energy Development & Power Generation

P1095

Guide for the Installation of Vertical Generators and Generator/Motors for Hydroelectric Applications

Recommendation: Approve request for an extension until 31 December 2027.

4.4 New PARs

There was a bucket motion to approve P1962, P2030.5.1, P3250.05, P3536, P3558, P802.1CBec, P1003.1-2024/Cor 1, P3570, P1687.1, P3833, P2089.1-2024/Cor 1, P3023, P3589, P3560, P3576, P3556, P3541, P3563, PC37.303, PC57.12.55, PC57.12.60-202/Cor 1, PC57.15.01, P3554, P3555, P3561, P3566, P3575, P3573, P3565, P3571, P3572, and P3535 based on the fact that preliminary votes have no objections to recommending approval and there are no unresolved NesCom member comments. The motion was approved.

IEEE Communications Society/Power Line Communications

P1962

Standard for Providing Broadband Connectivity to Rural Infrastructure by Utilizing Solar Panels as Optical Communication Receivers

Recommendation: Approve new PAR until December 2029.

P2030.5.1

Standard for Common Smart Inverter Profile of IEEE Std 2030.5

Recommendation: Approve new PAR until December 2029.

IEEE Computer Society/Artificial Intelligence Standards Committee

P3526

Guide for Threat Intelligence Retrieval Framework Based on Large Language Model

Recommendation: Approve new PAR until December 2029, conditional upon changing the wording in the PAR per NesCom comment 6.3.

There was a motion to approve new PAR until December 2029, conditional upon changing the wording in the PAR per NesCom comment 6.3. In the absence of any objection or abstention, the motion was approved. [The condition has been met.]

IEEE Computer Society/Blockchain and Distributed Ledgers

P3250.05

Recommended Practices for Reference Framework for Blockchain-based Financial Data Circulation and Valuation Platform

Recommendation: Approve new PAR until December 2029.

IEEE Computer Society/Cybersecurity and Privacy Standards Committee

P3536

Standard for Space System Cybersecurity Design

Recommendation: Approve new PAR until December 2029.

P3578

Recommended Practice for Use of Cybersecurity in Sustainability to Help Protect the Digital Infrastructure

Recommendation: Approve new PAR until December 2029.

There was a motion to approve the recommendation of P3578. In the absence of any objection or abstention, the motion was approved.

IEEE Computer Society/Knowledge Engineering Standards Committee

P3558

Guide for Knowledge Graph of Intelligent Flexible Assembly

Recommendation: Approve new PAR until December 2029.

IEEE Computer Society/LAN/MAN Standards Committee

P802.1CBec

IEEE Standard for Local and Metropolitan Area Networks--Frame Replication and Elimination for Reliability Amendment: Guidance for Sequence Recovery Function Parameter Configuration

Recommendation: Approve new PAR until December 2029.

IEEE Computer Society/Microprocessor Standards Committee

P1003.1-2024/Cor 1

IEEE/Open Group Standard for Information Technology--Portable Operating System Interface (POSIX™) Base Specifications, Issue 8 - Corrigendum 1

Recommendation: Approve new PAR until December 2029.

IEEE Computer Society/Standards Activities Board Standards Committee

P3570

Standard for a Data Service Capability Model

Recommendation: Approve new PAR until December 2029.

IEEE Computer Society/Test Technology

P1687.1

Standard for the Application of Interfaces and Controllers to Access 1687 JTAG Networks Embedded within Semiconductor Devices

Recommendation: Approve new PAR until December 2029.

IEEE Consumer Technology Society/Digital Finance and Economy Standards Committee

P3833

Standard for Framework for Proactive AI Agent Based on Multi-modal Human Computer Interaction

Recommendation: Approve new PAR until December 2029.

IEEE Consumer Technology Society/Emerging Technology Standards Committee

P2089.1-2024/Cor 1

Standard for Online Age Verification—Corrigendum 1

Recommendation: Approve new PAR until December 2029.

IEEE Industrial Electronics Society/Industrial Electronics Society Standards Committee

P3023

Recommended Practice for Intelligent Interaction Systems Based on Industrial Cloud Platforms for the Manufacturing Industry

Recommendation: Approve new PAR until December 2029.

P3567

Guide for Operational Life Cycle Assessment of Fiber-reinforced Composite Electric Power Equipment

Recommendation: Defer P3567 to allow time for coordination with PE T&D committee to review the PAR prior to the next meeting. (Vote: 7=Yes; 4=No; 0=Abstain).

There was a motion to defer P3567 to allow time for coordination with PE T&D committee to review the PAR prior to the next meeting. The motion passes with a vote of 7=Yes; 4=No; 0=Abstain.

P3568

Guide for Terms and Test Methods of Fiber-reinforced Composite Electric Power Equipment

Recommendation: Approve new PAR until December 2029.

There was a motion to approve the recommendation of P3568. In the absence of any objection or abstention, the motion was approved.

IEEE Instrumentation and Measurement Society/TC9 - Sensor Technology

P3589

Standard for Early Characteristic Gas Detection of Lithium Ion Batteries with Thermal Runaway

Recommendation: Approve new PAR until December 2029.

IEEE Intelligent Transportation Systems Society/Standards Committee

P3560

Guide for Carbon Footprint Assessment of Electric Vehicle Supply Equipment

Recommendation: Approve new PAR until December 2029.

IEEE Photonics Society/Standards Committee

P3576

Standard for Quality Inspection of Metal-Metallurgical Connection Components by X-ray Technology

Recommendation: Approve new PAR until December 2029.

IEEE Power and Energy Society/Insulated Conductors

P3556

Guide for Direct Current Fast Charging Cables with Thermal Management for Electric Vehicles

Recommendation: Approve new PAR until December 2029.

IEEE Power and Energy Society/Power System Instrumentation and Measurements

P3541

Guide for Test Method for Harmonic Influence Test Equipment for Electrical Energy Meters

Recommendation: Approve new PAR until December 2029.

IEEE Power and Energy Society/Power System Instrumentation and Measurements

P3563

Guide for Technology for Direct Current Standard Signal Sources with Digital Output

Recommendation: Approve new PAR until December 2029.

IEEE Power and Energy Society/Switchgear

PC37.303

Guide for Field Measurement of Partial Discharge within Switchgear (above 1000 Vac)

Recommendation: Approve new PAR until December 2029.

IEEE Power and Energy Society/Transformers

PC57.12.55

Standard for Enclosure Requirements for Dry-type Transformers

Recommendation: Approve new PAR until December 2029.

IEEE Power and Energy Society/Transformers

PC57.12.60-2020/Cor 1

IEEE Standard for Thermal Evaluation of Insulation Systems for Dry-Type Power and Distribution Transformers - Corrigendum 1

Recommendation: Approve new PAR until December 2029.

PC57.13.11

Standard Requirements for Low Power Instrument Transformers for 69 kV or Higher Nominal System Voltage

Recommendation: Approve new PAR until December 2029.

There was a motion to approve the recommendation of PC57.13.11. In the absence of any objection or abstention, the motion was approved.

PC57.15.01

Standard Requirements for Pad-Mounted Compartmental-Type Step-Voltage Regulators

Recommendation: Approve new PAR until December 2029.

IEEE Power and Energy Society/Transmission and Distribution

P3554

Guide for X-ray Detection Method for Transmission Line Conductor Crimping

Recommendation: Approve new PAR until December 2029.

P3555

Standard for Test Method for Fiber Ropes Used in Construction of Overhead Transmission Lines

Recommendation: Approve new PAR until December 2029.

P3561

Guide for Fault Location, Isolation, and Service Restoration Application for Distribution Management Systems

Recommendation: Approve new PAR until December 2029.

IEEE SA Board of Governors/Entity Collaborative Activities Governance Board

P3566

Guide for Electric Meter Replacement without Disconnect Using a Bypass

Recommendation: Approve new PAR until December 2029.

IEEE SA Board of Governors/Entity Collaborative Activities Governance Board

P3574

Guide for Satellite-based Systems Monitoring Wildfires in Overhead Transmission Line Corridors

Recommendation: Approve new PAR until December 2029, conditional upon a Working Group chair

accepting the role within the myProject system and conditional upon making the editorial change of "location" to "locations" in the third sentence of the Scope. [The conditions have been met.]

There was a motion to approve new PAR until December 2029, conditional upon a Working Group chair accepting the role within the myProject system and conditional upon making the editorial change of "location" to "locations" in the third sentence of the Scope. In the absence of any objection or abstention, the motion was approved. [The conditions have been met.]

P3575

Guide for Construction of Digital Twin Substation—Part 1: General Provisions

Recommendation: Approve new PAR until December 2029.

IEEE Society on Social Implications of Technology/Social Implications of Technology Standards Committee

P3564

Recommended Practice for Implementation of Gender Equity and Social Inclusion Considerations in Low Carbon Energy Transition Programs

Recommendation: Approve new PAR until December 2029. (Vote: 8=Yes; 0=No; 4=Abstain)

There was a motion to approve the recommendation of P3564. The motion was passed with a vote of 8=Yes, 0=No; and 4=Abstains.

IEEE Vehicular Technology Society/Automated Vehicles Standards Committee

P3573

Guide for Online Monitoring System for Public Electric Vehicle Charging Facilities

Recommendation: Approve new PAR until December 2029.

IEEE Vehicular Technology Society/High Speed Train and Maglev Standards Committee

P3565

Standard for Icing-monitoring and Ice-melting System for the Catenary of Electrified High-speed Railway

Recommendation: Approve new PAR until December 2029.

IEEE Vehicular Technology Society/High Speed Train and Maglev Standards Committee

P3571

Guide for the Selection of Roof Insulators for Electric Locomotive with Nominal Voltage of 25 kV

Recommendation: Approve new PAR until December 2029.

P3572

Standard for Overvoltage Monitoring System with Protection Measures for Traction Power Supply System of Highspeed Railway

Recommendation: Approve new PAR until December 2029.

IEEE Vehicular Technology Society/Overhead Contact Systems

P3535

Guide for the Construction of Overhead Contact Systems for Direct Current Transit Systems up to 1500 V DC

Recommendation: Approve new PAR until December 2029.

4.5 PARs for the Revision of Standards

There was a bucket motion to approve P1619.2, P802.1CB, P802.16, P299, P299.1, P603, P980, PC37.04, PC37.59, PC57.140, P1609.3, and P2020 based on the fact that preliminary votes have no objections to recommending approval and there are no unresolved NesCom member comments. In the absence of objection or abstention, the motion was approved.

IEEE Computer Society/Cybersecurity and Privacy Standards Committee

P1619.2

Standard for Wide-Block Encryption for Shared Storage Media

Recommendation: Approve PAR for the revision of a standard until December 2029.

IEEE Computer Society/LAN/MAN Standards Committee

P802.1CB

Standard for Local and Metropolitan Area Networks--Frame Replication and Elimination for Reliability

Recommendation: Approve PAR for the revision of a standard until December 2029.

P802.16

Standard for Air Interface for Broadband Wireless Access Systems

Recommendation: Approve PAR for the revision of a standard until December 2029. (Abstain: Hiertz)

IEEE Electromagnetic Compatibility Society/Standards Development Committee

P299

Standard Method for Measuring the Effectiveness of Electromagnetic Shielding Enclosures

Recommendation: Approve PAR for the revision of a standard until December 2029.

P299.1

Standard Method for Measuring the Shielding Effectiveness of Enclosures and Boxes Having All Dimensions between 0.1 m and 2 m

Recommendation: Approve PAR for the revision of a standard until December 2029.

IEEE Power and Energy Society/Insulated Conductors

P575

Guide for Application of Sheath-Bonding Methods for Single-Conductor Cables and the Calculation of Induced Voltages and Currents in Cable Sheaths

Recommendation: Defer P575 to the next NesCom meeting.

There was a motion to defer P575 to the next NesCom Meeting. In the absence of any objection or abstention, the motion was approved.

IEEE Power and Energy Society/Nuclear Power Engineering Committee

P603

Standard Criteria for Safety Systems for Nuclear Power Generating Stations

Recommendation: Approve PAR for the revision of a standard until December 2029.

IEEE Power and Energy Society/Substations Committee

P980

Guide for Containment and Control of Oil Spills in Substations

Recommendation: Approve PAR for the revision of a standard until December 2029.

IEEE Power and Energy Society/Switchgear

PC37.04

Standard for Ratings and Requirements for AC High-Voltage Circuit Breakers with Rated Maximum Voltage above 1000 V

Recommendation: Approve PAR for the revision of a standard until December 2029. (Abstain: Edwards)

PC37.59

Standard for Requirements for Conversion of Power Switchgear Equipment

Recommendation: Approve PAR for the revision of a standard until December 2029. (Abstain: Edwards)

IEEE Power and Energy Society/Transformers

PC57.140

Guide for Evaluation and Reconditioning of Liquid Immersed Power Transformers

Recommendation: Approve PAR for the revision of a standard until December 2029. (Abstain: Hiertz)

IEEE Vehicular Technology Society/Intelligent Transportation Systems

P1609.3

Standard for Wireless Access in Vehicular Environments (WAVE)--Networking Services

Recommendation: Approve PAR for the revision of a standard until December 2029.

P2020

Standard for Automotive System Image Quality

Recommendation: Approve PAR for the revision of a standard until December 2029.

5. Old Business

There was no old business.

6. New Business

There was no new business.

7. Next Meeting

The next meeting will be a hybrid meeting with the in person portion held in Seoul, South Korea. The meeting will be held 26 March 2025 during the SASB March Meeting Series. NesCom members should submit new topic ideas for the March meeting no later than 18 March 2025 along with any supporting documentation to the NesCom Administrator.

8. Adjournment

The meeting was adjourned at 11:23 a.m. ET (UTC-5).