

IEEE SA STANDARDS BOARD NEW STANDARDS COMMITTEE (NesCom)

MEETING MINUTES

22 October 2025

Webex

9:00 a.m. – 10:30 a.m. ET (UTC-4)

Attendees

Members Present:

Ted Burse, Chair
Xiaofeng (Alfred) Chen, Vice Chair
Guido Hiertz, Vice Chair
Kit August
Periklis Chatzimisios
Yuan Chi
Darren Galpin
Howard Li
Johnny Lin
Hiroshi Mano
Daleep Mohla
Dan Sabin
Luyang Zhang

Members Absent:

Edward Au
Amit Kumar
N. Kishor Narang
Ramesh S.
Daidi Zhong

IEEE Staff:

Abira Altvater
Christy Bahn
Teresa Belmont, Administrator
Kim Breitfelder
Matt Ceglia
Ravindra Desai
Chinmae Deshmukkh
Karen Evangelista
Jonathan Goldberg
Dalisa Gonzales
Marissa Haight
Yvette Ho Sang
Michael Kipness
Vanessa Lalitte
Jiajia Liu
Sandra Maru
Suzanne Merten

Erin Morales
Pat Roder
Kierra Rudolph
Anand (Andy) Sudhakar
Malia Zaman
Meng Zhao

Guests:

Karen Bennet
Doug Edwards
Latonia Gordon
Siri Jodha Khalsa
Rui Li
Xiaohui Liu
Kevin Lu
Penelope Nagel
Robby Robson
Claire Topp, Outside legal counsel
Autilia Vitiello
Lei Wang

1. CALL TO ORDER

Chair Ted Burse called the meeting to order at 9:01 a.m. ET (UTC -4). There was a round of introductions.

It was noted that the meeting was quorate.

2. REVIEW OF AGENDA

Chair Burse reviewed the agenda.

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

2.1 Consent Agenda

IEEE Power and Energy Society/Insulated Conductors (PE/IC) has requested a PAR number change for P1614 to P400.6

3. APPROVAL OF MINUTES FROM THE 09 SEPTEMBER 2025 MEETING

There was a motion to approve the [09 September 2025 meeting minutes](#). In the absence of objection, 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 recommend the withdrawal of P3172 and PC37.122.9 based on the fact that preliminary votes have no objections to recommending withdrawal 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

P3172

Recommended Practice for Post-Quantum Cryptography Migration

Recommendation: Approve PAR withdrawal.

IEEE Power and Energy Society/Substations Committee

PC37.122.9

Guide for Condition Assessment of Gas-Insulated Substations Rated Above 52 kV

Recommendation: Approve PAR withdrawal.

4.2 Modified PARs

There was a bucket motion to approve P2976, PC37.232, PC57.140, and P3108 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 Computational Intelligence Society/Standards Committee

P2976

Standard for Requirements and Classification of Explainable Artificial Intelligence Systems

Recommendation: Approve modified PAR.

IEEE Power and Energy Society/Power System Relaying and Control

PC37.232

Standard for Common Format for Naming Time Sequence Data Files (COMNAME)

Recommendation: Approve modified PAR.

IEEE Power and Energy Society/Transformers

PC57.140

Guide for Life Extension of Liquid Type Power Transformers and Reactors

Recommendation: Approve modified PAR.

IEEE Robotics and Automation Society/Standing Committee for Standards

P3108

Recommended Practice for Design of Human Subjects Studies in Human-Robot Interaction

Recommendation: Approve modified PAR.

4.3 Extension PARs

There was a bucket motion to approve P1900.1, P1900.8, P1954, P1952, P1855, P2863, P3223.01, P9274.2.1, P1687.2, P11073-10107, P11073-10702, P11073-10703, P11073-10720, P114, P2964, P3114, P1120, P2810, P1815, PC37.96, PC37.99, PC37.243, PC57.125, P1048, P3132, P2817, P62704-1, and P62704-4 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 Communications Society/Dynamic Spectrum Access Networks Standards Committee

P1900.1

Standard for Definitions and Concepts for Dynamic Spectrum Access: Terminology Relating to Emerging Wireless Networks, System Functionality, and Spectrum Management

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

P1900.8

Standard for Training, Testing, and Evaluating Machine-Learned Spectrum Awareness Models

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

IEEE Communications Society/Mobile Communication Networks Standards Committee

P1954

Standard for Self-Organizing Spectrum-Agile Unmanned Aerial Vehicles Communications

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

IEEE Communications Society/Virtualized and Software Defined Networks, and Services Standards Committee

P1952

Standard for Resilient Positioning, Navigation and Timing (PNT) User Equipment

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

IEEE Computational Intelligence Society/Standards Committee

P1855

Standard for Fuzzy Markup Language

Recommendation: Approve request for an extension until 31 December 2026.

P2976

Standard for XAI – eXplainable Artificial Intelligence – for Achieving Clarity and Interoperability of AI Systems Design

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

There was a motion to approve the recommendation of P2976. In the absence of any objection or abstention, the motion was approved.

IEEE Computer Society/Artificial Intelligence Standards Committee

P2863

Recommended Practice for Organizational Governance of Artificial Intelligence

Recommendation: Approve request for an extension until 31 December 2026.

IEEE Computer Society/Blockchain and Distributed Ledgers

P3223.01

Standard for Blockchain-based Electronic Evidence Interface Specification

Recommendation: Approve request for an extension until 31 December 2026.

IEEE Computer Society/Learning Technology

P9274.2.1

Standard for JavaScript Object Notation for Linked Data (JSON-LD) for Application Profiles of Learner Experience Data

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

IEEE Computer Society/Test Technology

P1687.2

Standard for Describing Analog Test Access and Control

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

IEEE Engineering in Medicine and Biology Society/IEEE 11073 Standards Committee

P11073-10107

Health Informatics -- Device Interoperability -- Part 10107: Point-of-Care Medical Device Communication -- Nomenclature for External Control of Medical Devices

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

P11073-10702

Health Informatics -- Device Interoperability -- Part 10702: Point-of-Care Medical Device Communication – Alert Provisioning by Participants in a Service-Oriented Device Connectivity (SDC) System
Recommendation: Approve request for an extension until 31 December 2027.

P11073-10703

Health Informatics -- Device Interoperability -- Part 10703: Point-of-Care Medical Device Communication -- External Control by Participants in a Service-Oriented Device Connectivity (SDC) System
Recommendation: Approve request for an extension until 31 December 2027.

P11073-10720

Health Informatics -- Device Interoperability -- Part 10720: Point-of-Care Medical Device Communication -- Module Specifications for a Service-Oriented Medical Device Exchange Architecture
Recommendation: Approve request for an extension until 31 December 2027.

IEEE Industry Applications Society/Industrial Power Conversion Systems Department
P114

Standard Test Procedure for Single-Phase Induction Motors
Recommendation: Approve request for an extension until 31 December 2027.

P2964

Standard for Datasheet Parameters and Tests for Integrated Gate Drivers
Recommendation: Approve request for an extension until 31 December 2027.

P3114

Standard for Datasheet Parameters and Testing Protocols for Ultraviolet (UV) Light-emitting Diodes (LEDs)
Recommendation: Approve request for an extension until 31 December 2027.

IEEE Power and Energy Society/Insulated Conductors
P1120

Guide for the Planning, Design, Installation, and Repair of Submarine Power Cable Systems
Recommendation: Approve request for an extension until 31 December 2026.

P2810

Guide for Field Dielectric Enhancement of Polyethylene and Cross-linked Polyethylene Power Cables
Recommendation: Approve request for an extension until 31 December 2027.

IEEE Power and Energy Society/Power System Communications and Cybersecurity
P1815

Standard for Electric Power Systems Communications-Distributed Network Protocol (DNP3)
Recommendation: Approve request for an extension until 31 December 2027. (Abstain: G. Hiertz)

IEEE Power and Energy Society/Power System Relaying and Control
PC37.96

Guide for AC Motor Protection
Recommendation: Approve request for an extension until 31 December 2027.

PC37.99

Guide for the Protection of Shunt Capacitor Banks
Recommendation: Approve request for an extension until 31 December 2027.

PC37.243

Guide for Application of Line Current Differential Protection Using Digital Communications

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

IEEE Power and Energy Society/Transformers

PC57.125

Guide for Failure Investigation, Documentation, Analysis, and Reporting for Power Transformers and Shunt Reactors

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

IEEE Power and Energy Society/Transmission and Distribution

P1048

Guide for Protective Grounding of Power Lines

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

P3132

Guide for Application of Spacers and Spacer Dampers on Bundled Conductors

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

IEEE Robotics and Automation Society/Standing Committee for Standards

P2817

Guide for Verification of Autonomous Systems

Recommendation: Approve request for an extension until 31 December 2026.

IEEE SA Board of Governors/International Committee on Electromagnetic Safety

P62704-1

IEC/IEEE International Standard for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body from Wireless Communications Devices, 100 kHz to 10 GHz Part 1—General Requirements for using the Finite Difference Time Domain (FDTD) Method for SAR Calculations

Recommendation: Approve request for an extension until 31 December 2026.

P62704-4

IEC/IEEE International Standard for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body from Wireless Communication Devices, 100 kHz to 10 GHz Part 4—General Requirements for Using the Finite-Element Method (FEM) for SAR Calculations

Recommendation: Approve request for an extension until 31 December 2026.

4.4 New PARs

There was a bucket motion to approve P1953.2, P1945.2, P1936.22, P1939.2, P3781, P3752, P3786, P3226.01, P3241.06, P3274.02, P3274.03, P3274.04, P3275.01, P3787, P3184.4, P3701.1, P3790, P3794, P3783, P3784, P3785, P3158.2, P3158.3, P3792, P3847, P3848, P3782, P3791, P3715, P3793, PN42.22, PN42.23, P1588n, P3749, P3311, P3312, P7020, and P3734 based on the fact that preliminary votes have no objections to recommending approval and there are no unresolved NesCom member comments.

IEEE Communications Society/Access and Core Networks Standards Committee

P1953.2

Standard for Optical Service Unit (OSU) Over Passive Optical Network (PON)

Recommendation: Approve new PAR until December 2029.

IEEE Communications Society/Edge, Fog, Cloud Communications with IOT and Big Data Standards Committee

P1945.2

Standard for Internet of Things (IoT) Edge Computing on Unmanned Aircraft Systems—Requirements of Computational Power and Hardware Configuration for Power Grid Inspection.

Recommendation: Approve new PAR until December 2029.

IEEE Communications Society/Unmanned Aerial Vehicles Communications Standards Committee

P1936.22

Standard for File Formats of Flight Route for Multi-Rotor Unmanned Aerial Vehicles (UAVs) Used in Overhead Line Inspection

Recommendation: Approve new PAR until December 2029.

P1939.2

Standard for Data Interaction Requirements for Unmanned Aircraft Traffic Management Systems

Recommendation: Approve new PAR until December 2029.

IEEE Computational Intelligence Society/Standards Committee

P3781

Standard for Taxonomy and Terminology in Quantum Artificial Intelligence

Recommendation: Approve new PAR until December 2029.

IEEE Computer Society/Artificial Intelligence Standards Committee

P3752

Recommended Practice for the Application of Reinforcement Learning Methods in Power Dispatching and Management

Recommendation: Approve new PAR until December 2029.

P3786

Guide for Classification of Artificial intelligence Application Scenarios in the Operation and Maintenance of Electric Power Equipment

Recommendation: Approve new PAR until December 2029.

IEEE Computer Society/Blockchain and Distributed Ledgers

P3226.01

Standard for Web3.0 Ecosystem Reference Models

Recommendation: Approve new PAR until December 2029.

P3240.14

Standard for Framework and Requirements for Trusted Data Interaction at Electric Vehicle Battery Swapping Stations Based on Distributed Ledger Technology

Recommendation: Approve new PAR until December 2029.

There was a motion to approve the recommendation of P3240.14. In the absence of any objection or abstention, the motion was approved.

P3241.06

Standard for Carbon Footprint Data Collection Based on Blockchain

Recommendation: Approve new PAR until December 2029.

P3274.02

Standard for Technical Requirements of Real World Asset (RWA) Tokenization

Recommendation: Approve new PAR until December 2029.

P3274.03

Standard for Business Requirements of Real World Asset (RWA) Tokenization

Recommendation: Approve new PAR until December 2029.

P3274.04

Standard for Evaluation and Grading of Real World Asset (RWA) Tokenization

Recommendation: Approve new PAR until December 2029.

P3275.01

Standard for Technical Requirements of Digital Asset Custody

Recommendation: Approve new PAR until December 2029.

P3275.02

Standard for Technical Requirements of Web3 Wallets

Recommendation: Approve new PAR until December 2029.

There was a motion to approve the recommendation of P3275.02. In the absence of any objection or abstention, the motion was approved.

IEEE Computer Society/Cybersecurity and Privacy Standards Committee

P3787

Standard for Secure Data Encapsulation—Policy-Carrying Data Objects, Enforcement Interfaces, and Conformance Requirements

Recommendation: Approve new PAR until December 2029.

IEEE Computer Society/Data Compression Standards Committee

P3184.4

Standard for Compact Feature Representation for Collaborative Driving in Vehicle-to-Everything (V2X) Autonomous Driving Systems

Recommendation: Approve new PAR until December 2029.

IEEE Computer Society/Knowledge Engineering Standards Committee

P3701.1

Standard for Performance Benchmarking of Large-Scale Pre-Trained Models in Manufacturing with Knowledge Enhancement

Recommendation: Approve new PAR until December 2029. (Recuse: Y. Chi)

P3790

Guide for Knowledge Graph Construction and Application for Intelligent User-Side Load Management

Recommendation: Approve new PAR until December 2029. (Recuse: Y. Chi)

P3794

Standard for Technical Requirements of Knowledge Management Agents

Recommendation: Approve new PAR until December 2029. (Recuse: Y. Chi)

IEEE Computer Society/Smart Manufacturing Standards Committee

P3783

Standard for System Architecture of Embodied Intelligence-Based Agent for Robots in Smart Manufacturing

Recommendation: Approve new PAR until December 2029.

P3784

Standard for Maturity Assessment of Industrial Foundation Models

Recommendation: Approve new PAR until December 2029.

P3785

Standard for System Architecture of Industrial Foundation Models in Smart Manufacturing

Recommendation: Approve new PAR until December 2029.

IEEE Computer Society/Standards Activities Board Standards Committee

P3158.2

Standard for Capability Requirements of Trusted Data Spaces

Recommendation: Approve new PAR until December 2029.

P3158.3

Standard for the Protocol Requirements of Digital Contracts and Usage Control

Recommendation: Approve new PAR until December 2029.

P3792

Standard for a Management Framework for Storage of Personal Protective Equipment (PPE) in Electrical Operations Based on Data Fusion

Recommendation: Approve new PAR until December 2029.

IEEE Consumer Technology Society/Digital Finance and Economy Standards Committee

P3847

Standard for Technical Requirements and Interoperability Protocols for Decentralized Identity

Recommendation: Approve new PAR until December 2029.

P3848

Standard for Decentralized Digital Asset Classification Methodology

Recommendation: Approve new PAR until December 2029.

IEEE Consumer Technology Society/Emerging Technology Standards Committee

P3782

Standard for the Certification of Technology Readiness Levels Across Sectors

Recommendation: Approve new PAR until December 2029.

IEEE Consumer Technology Society/Smart Devices Standards Committee

P3791

Standard for Fluency of Human-system Interaction in Extended Reality (XR) Devices

Recommendation: Approve new PAR until December 2029.

IEEE Engineering in Medicine and Biology Society/Standards Committee

P3715

Standard for a Common Exchange Format for Match-Data in Football (Soccer)

Recommendation: Approve new PAR until December 2029.

IEEE Geoscience and Remote Sensing Society/Standards Committee

P4010

Standard for Validating Innovations in Agricultural Soil Testing

Recommendation: Approve new PAR until December 2029.

There was a motion to approve the recommendation of P4010. In the absence of any objection or abstention, the motion was approved.

IEEE Industry Applications Society/Industrial & Commercial Power Systems Standards Development Committee

P3793

Guide for Data Collection and Efficiency Optimization Strategies for Electrical Energy Consumption in Industrial and Commercial Power System Facilities"

Recommendation: Approve new PAR until December 2029.

IEEE Instrumentation and Measurement Society/TC45 - Radiation and Nuclear Instrumentation and Systems

PN42.22

Standard for Traceability of Radioactive Sources to National Institute of Standards and Technology (NIST) and Associated Instrument Quality Control

Recommendation: Approve new PAR until December 2029.

PN42.23

Standard for Measurement and Associated Instrument Quality Assurance for Radioassay Laboratories

Recommendation: Approve new PAR until December 2029.

IEEE Instrumentation and Measurement Society/TC9 - Sensor Technology

P1588n

IEEE Standard for a Precision Clock Synchronization Protocol for Networked Measurement and Control Systems
Amendment: Data Sets for Enhanced Accuracy Metrics and Foreign Master

Recommendation: Approve new PAR until December 2029.

IEEE Power Electronics Society/Standards Committee

P3749

Recommended Practice for Hardware-in-the-Loop Testing of Large-Scale Off-Shore Wind Turbine Systems

Recommendation: Approve new PAR until December 2029.

IEEE SA Board of Governors/Entity Collaborative Activities Governance Board

P3311

Adoption of Moving Picture, Audio and Data Coding by Artificial Intelligence (MPAI) Technical Specification)—
Connected Autonomous Vehicle (MPAI-CAV)—Technologies (CAV-TEC) Version 1.0

Recommendation: Approve new PAR until December 2029. (Abstain: D. Sabin)

P3312

Adoption of Moving Picture, Audio and Data Coding by Artificial Intelligence (MPAI) Technical Specification—MPAI
Metaverse Model (MPAI-MMM)—Technologies Version 2.0

Recommendation: Approve new PAR until December 2029. (Abstain: D. Sabin)

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

P7020

Standard for Transparency, Accuracy, and Source Integrity in Media and Public-facing Information

Recommendation: Approve new PAR until December 2029. (Recuse: K. August)

IEEE Vehicular Technology Society/Automated Vehicles Standards Committee

P3734

Recommended Practice for Artificial Intelligence (AI)-Enabled Performance and Safety Requirements in Police Pursuit Vehicles

Recommendation: Approve new PAR until December 2029.

4.5 PARs for the Revision of Standards

There was a bucket motion to approve P15026-4, P115, P1491, P1881, P60255-118-1, PC37.116, PC37.245, P1159.3, P1243, P1366, and P1547.6 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

P15026-4

ISO/IEC/IEEE 15026-4 International Standard—Systems and software engineering—Systems and software assurance—Part 4: Assurance in the life cycle

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

IEEE Power and Energy Society/Electric Machinery

P115

Guide for Test Procedures for Synchronous Machines Including Acceptance and Performance Testing and Parameter Determination for Dynamic Analysis

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

IEEE Power and Energy Society/Energy Storage & Stationary Battery Committee

P1491

Recommended Practice for Battery Monitoring in Stationary Applications

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

P1881

Standard Glossary of Energy Storage and Stationary Battery Terminology

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

IEEE Power and Energy Society/Power System Relaying and Control

P60255-118-1

IEEE/IEC International Standard - Measuring relays and protection equipment—Part 118-1: Synchrophasor for power systems—Measurements

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

PC37.116

Guide for Protective Relay Application to Transmission Line Fixed Series Capacitor Banks

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

PC37.245

Guide for the Application of Protective Relaying for Phase Shifting Transformers

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

IEEE Power and Energy Society/Transmission and Distribution

P1159.3

Standard for Power Quality Data Interchange Format (PQDIF)

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

P1243

Guide for Improving the Lightning Performance of Transmission Lines

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

P1366

Recommended Practice for Electric Power Distribution Reliability Indices

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

IEEE SA Board of Governors/Distributed Generation, Energy Storage and Interoperability Standards Committee

P1547.6

Guide for Interconnecting Distributed Energy Resources With Electric Distribution Systems Secondary Networks

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

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 and will take place on 9 December 2025 in Jersey City, NJ (USA).

8. Adjournment

The meeting was adjourned at 9:49 a.m. ET (UTC-4).