

IEEE SA STANDARDS BOARD NEW STANDARDS COMMITTEE (NesCom)

MEETING MINUTES

31 January 2024

Webex

9:30 a.m. – 12:00 p.m. ET (UTC-5)

Attendees

Members Present:

Lei Wang, Chair
Guido Hiertz, Vice Chair
Johnny Lin, Vice Chair
Sara Biyabani
Xiaofeng (Alfred) Chen
Doug Edwards
Ramy Fathy
Wei Hong
Howard Li
Annette Reilly
Daidi Zhong

Members Absent:

Gui Liu
Daleep Mohla
Andrew Myles

IEEE Staff:

Christy Bahn
Teresa Belmont, Administrator
Ahaski Benion
Kim Breitfelder
Matthew Ceglia
Karen Evangelista
Joshua Gay
Jonathan Goldberg
Dalisa Gonzalez
Jodi Haasz
Yvette Ho Sang
Patrycja Jarosz
Soo Kim
Michael Kipness
Vanessa Lalitte
Jiajia Liu
Suzanne Merten
Erin Morales
Christian Orlando
Maira Patterson
Shana Pepin
Markus Plessel

Dave Ringle
Pat Roder
Jennifer Santulli
Rudi Schubert
Tom Thompson
Malia Zaman
Meng Zhao

IEEE Outside Legal Counsel:

Claire Topp – Dorsey & Whitney LLP

Guests:

Kit August
Yanming Cao
Yuan Chi
Jun Feng
Darren Galpin
Latonia Gordon
Ron Hotchkiss
Hao Hu
Yousef Kimiagar
Joseph Levy
Ruiqi Li
Xiaohui Liu
Kevin Lu
Paul Nikolich
Robby Robson
Liang Sun
Hongkai Wang
Yidan Wang
Keith Waters

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.

2.1 CONSENT AGENDA

2.1.1 PARs for Administrative Withdrawal

IEEE Power and Energy Society/Insulated Conductors has requested P1614 (Field-Testing of Shielded Power Cable Systems Rated 5 kV and Above with Continuous Alternating Voltage) to be withdrawn. PAR expired on 31 December 2023 and will be administratively withdrawn.

3. APPROVAL OF MINUTES FROM THE 5 DECEMBER 2023 MEETING

There was a motion to approve the [5 December 2023 meeting minutes](#). In the absence of an 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 motion to approve P2304 and P802.3dh 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/Cloud Computing Standards Committee

P2304

Standard for Cloud Computing Shared Function Model

Recommendation: Approve PAR withdrawal.

IEEE Computer Society/LAN/MAN Standards Committee

P802.3dh

Standard for Ethernet Amendment: Physical Layer Specifications and Management Parameters for multi-gigabit optical Ethernet using graded-index plastic optical fiber for application in the automotive environment

Recommendation: Approve PAR withdrawal.

4.2 Modified PARs

There was a bucket motion to approve P1937.3, P32430, PN42.59, P3388, PC57.156, and P3143 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/Unmanned Aerial Vehicles Communications Standards Committee

P1937.3

Standard for Flight Data Transmission of Civil Unmanned Aerial Vehicle Based on Short Message Mechanisms

Recommendation: Approve modified PAR.

IEEE Computer Society/Blockchain and Distributed Ledgers

P3204

Standard for Blockchain Interoperability - Cross-Chain Transaction Consistency Protocol

Recommendation: Approve modified PAR.

There was a motion to approve the recommendation for P3204. In the absence of objection or abstention, the motion was approved.

IEEE Computer Society/Software & Systems Engineering Standards Committee

P32430

Software engineering - Software Non-Functional Sizing Measurement

Recommendation: Approve modified PAR.

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

PN42.59

Standard for Measuring the Imaging Performance of Active Millimeter-Wave Systems for Security Screening of Humans

Recommendation: Approve modified PAR.

IEEE Instrumentation and Measurement Society/TC9 - Sensor Technology

P3388

Standard for the Performance Assessment of Industrial Wireless Systems

Recommendation: Approve modified PAR.

IEEE Power and Energy Society/Transformers

PC57.156

Guide for Tank Rupture Mitigation of Liquid-Immersed Power Transformers and Reactors

Recommendation: Approve modified PAR.

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

P3143

Standard for Electric Traction System for Short Primary Maglev Vehicle

Recommendation: Approve modified PAR.

4.3 Extension Requests

There was a bucket motion to approve P3079.1, P2811, P2812, P1128, P2418.5, and P2798 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/Standards Activities Board Standards Committee

P3079.1

Motion to Photon (MTP) Latency in Virtual Environments

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

IEEE Consumer Technology Society/Emerging Technology Standards Committee

P2811

Standard for Architectural Framework and Technical Requirements for Smart Lock

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

P2812

Guide for Minor Guardianship System for Online Mobile Gaming

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

IEEE Electromagnetic Compatibility Society/Standards Development Committee

P1128

Recommended Practice for Radio-Frequency (RF) Absorber Evaluation in the Range of 30 MHz to 40 GHz

Recommendation: Approve request for an extension until 31 December 2024.

P2838

Standard for Aircraft Component Lightning Strike Direct Effects Qualification

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

There was a motion to approve the recommendation for P2838. In the absence of objection or abstention, the motion was approved.

IEEE Power and Energy Society/Smart Buildings, Loads and Customer Systems

P2418.5

Guide for Blockchain in Power and Energy Systems

Recommendation: Approve request for an extension until 31 December 2024.

IEEE Power and Energy Society/Transmission and Distribution

P2798

Guide for Helicopter Operation Procedures for the Utility Industry

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

4.4 New PARs

There was a bucket motion to approve P3447, P3458, P3227.1, P3233, P3454, P2807.10, P802.1ACea, P802.1AXdz, P802.1CB-2017/Cor 1, P802.3-2022/Cor 1, P802.19.3a, P24748-7, P24748-8, P42024, P42042, P3079.3.2, P1838a, P2834.1, P3457, PN42.35, PC57.20, P3140.1, P3328.1, and P3452 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/Artificial Intelligence Standards Committee

P3447

System Architecture and General Requirements for Pre-trained Large Language Models (LLM) Applications in the Smart Home Industry

Recommendation: Approve new PAR until December 2028.

P3458

Standard for Domain-Specific Large Language Model Management Platforms

Recommendation: Approve new PAR until December 2028.

IEEE Computer Society/Blockchain and Distributed Ledgers

P3227.1

System Technical Requirements for Risk Assessment of On-chain Digital Content

Recommendation: Approve new PAR until December 2028.

P3233

Standard for Blockchain-Based Decentralized Storage Protocol Specification

Recommendation: Approve new PAR until December 2028.

IEEE Computer Society/Cybersecurity and Privacy Standards Committee

P3454

Standard for Cloud Computing - Operational Resilience - Framework

Recommendation: Approve new PAR until December 2028.

IEEE Computer Society/Knowledge Engineering Standards Committee

P2807.9

Guide for Application of Knowledge Graphs for Rail Transit

Recommendation: Approve new PAR until December 2028.

There was a motion to approve the recommendation for P2807.9. In the absence of objection or abstention, the motion was approved.

P2807.10

Guide for Knowledge Modeling for Carbon Verification-Oriented Knowledge Graph

Recommendation: Approve new PAR until December 2028.

P2807.11

Guide for Production Oriented Knowledge Graph in Petroleum and Chemical Industry

Recommendation: Defer New PAR until next NesCom meeting for the Working Group to collaborate with other societies as to the Scope and Purpose of the PAR. (Vote: 5=Yes; 4=No; 2=Abstain)

There was a motion to defer P2807.11 to the next NesCom meeting. The motion was accepted with a vote of 5=Yes; 4=No; and 2=Abstain)

P3460

Guide for Framework of Auxiliary Decision-Making Systems in Power Grid Operations

Recommendation: Defer New PAR until next NesCom meeting for the Working Group to collaborate with other societies as to the Scope and Purpose of the PAR. (1 Abstention)

There was a motion to defer P3460 to the next NesCom meeting. The motion was accepted with 1 abstention.

IEEE Computer Society/LAN/MAN Standards Committee

P802.1ACea

IEEE Standard for Local and metropolitan area networks -- Media Access Control (MAC) Service Definition Amendment: Support for IEEE Std 802.15.6

Recommendation: Approve new PAR until December 2028.

P802.1AXdz

IEEE Standard for Local and Metropolitan Area Networks--Link Aggregation Amendment: YANG for Link Aggregation

Recommendation: Approve new PAR until December 2028.

P802.1CB-2017/Cor 1

IEEE Standard for Local and metropolitan area networks--Frame Replication and Elimination for Reliability - Corrigendum 1

Recommendation: Approve new PAR until December 2028.

P802.3-2022/Cor 1

IEEE Standard for Ethernet - Corrigendum 1 - Multi-Gigabit Automotive Medium Dependent Interface (MDI) Return Loss

Recommendation: Approve new PAR until December 2028.

P802.19.3a

IEEE Recommended Practice for Local and Metropolitan Area Networks--Part 19: Coexistence Methods for IEEE 802.11 and IEEE 802.15.4 Based Systems Operating in the Sub-1 GHz Frequency Bands Amendment: Additional recommendations for improving coexistence

Recommendation: Approve new PAR until December 2028.

IEEE Computer Society/Software & Systems Engineering Standards Committee

P24748-7

Systems and software engineering--Life cycle management--Part 7: Application of systems engineering on defense programs

Recommendation: Approve new PAR until December 2028.

P24748-8

Systems and software engineering--Life cycle management--Part 8: Technical reviews and audits on defense programs

Recommendation: Approve new PAR until December 2028.

P42024

Standard for Enterprise, systems and software --- Architecture fundamentals

Recommendation: Approve new PAR until December 2028.

P42042

Standard for Enterprise, Systems and Software --- Reference architectures

Recommendation: Approve new PAR until December 2028.

IEEE Computer Society/Standards Activities Board Standards Committee

P3079.3.2

Standard for a Framework for Privacy Protection through Identifiability Management Arising from Avatar Interaction

Recommendation: Approve new PAR until December 2028.

IEEE Computer Society/Test Technology

P1838a

IEEE Standard for Test Access Architecture for Three-Dimensional Stacked Integrated Circuits Amendment 1: Testing of Interconnects External to Multi-Die Assemblies using Boundary-Scan Register (BSR) Segments

Recommendation: Approve new PAR until December 2028.

IEEE Consumer Technology Society/Blockchain Standards Committee

P2147.1

Standard for Requirements of Integrated Consortium Chain Station

Recommendation: Conditional approval with editorial corrections of comment #2.3 to be made; new PAR valid until December 2028.

There was a motion to recommend conditional approval with editorial corrections of comment #2.3 for P2147.1. In the absence of objection or abstention, the motion was approved. The condition has been met.

IEEE Education Society/Standards Committee

P2834.1

Standard for Digital Forensics on Trusted Learning Systems

Recommendation: Approve new PAR until December 2028.

IEEE Engineering in Medicine and Biology Society/Standards Committee

P3337

Standard for the Requirements for Designing Accessible Intelligent Cyber-Physical Systems (AICS) for Well-Being

Recommendation: Defer New PAR until next NesCom meeting to provide time for continued discussion and clarification on the PAR. (Vote: 8=Yes; 0= No; 1=Abstain)

There was a motion to defer P3337 to the next NesCom meeting. The motion was accepted with a vote of 8=Yes; 0=No; and 1=Abstain)

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

P3457

Guide for Energy-saving Lightweight Transformation and Operating Maintenance of Electric Facilities in Existing Buildings in Industrial and Commercial Installations

Recommendation: Approve new PAR until December 2028.

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

PN42.35

Standard for Evaluation Criteria and Performance Requirements of Radiation Detection Portal Monitors for Use in Homeland Security

Recommendation: Approve new PAR until December 2028.

IEEE Instrumentation and Measurement Society/TC9 - Sensor Technology

P3456.1

Standard for Testing Instruments for Deep foundations - Part 1:Low-strain Testing Instruments

Recommendation: Approve new PAR until December 2028.

There was a motion to approve the recommendation for P3456.1. In the absence of objection or abstention, the motion was approved.

P3456.2

Standard for Testing instruments for Deep Foundations - Part 2: High-strain Testing Instruments

Recommendation: Approve new PAR until December 2028.

There was a motion to approve the recommendation for P3456.2. In the absence of objection or abstention, the motion was approved.

IEEE Photonics Society/Standards Committee

P3461

Standard for Smart Infrastructure with Fiber Optic Sensors

Recommendation: Approve new PAR until December 2028.

There was a motion to approve the recommendation for P3461. In the absence of objection or abstention, the motion was approved.

IEEE Power and Energy Society/Power System Instrumentation and Measurements

P3453

Guide for Evaluation and Application of Overall Measurement Uncertainty of Electrical Energy Metering Devices

Recommendation: Approve new PAR until December 2028.

There was a motion to approve the recommendation for P3453. In the absence of objection or abstention, the motion was approved.

IEEE Power and Energy Society/Transformers

PC57.20

Guide for Power Transformers for Low-frequency (10 Hz to 30 Hz) Power Transmission

Recommendation: Approve new PAR until December 2028.

IEEE Robotics and Automation Society/Standing Committee for Standards

P3140.1

Standard for Semantic Maps for Autonomous Robots - Part 1: Use Cases and Requirements

Recommendation: Approve new PAR until December 2028.

P3140.2

Standard for Semantic Maps for Autonomous Robots - Part 2: Framework and Application Development Interface

Recommendation: Approve new PAR until December 2028.

There was a motion to approve the recommendation for P3140.2. In the absence of objection or abstention, the motion was approved.

IEEE SA Board of Governors/Entity Collaborative Activities Governance Board

P3328.1

Recommended Practice for Quality Assessment of Wheeled Robots for Substation Inspection

Recommendation: Approve new PAR until December 2028.

IEEE Systems, Man, and Cybernetics Society/Standards Committee

P3449

Recommended Practice for Active Safety Online Monitoring and Early Fire Warning of Lithium-ion Battery Energy Storage Power Station

Recommendation: Approve new PAR until December 2028.

There was a motion to approve the recommendation for P3449. In the absence of objection or abstention, the motion was approved.

IEEE Vehicular Technology Society/Intelligent Transportation Systems

P3452

Standard for Technical Requirements for Vehicle Networking Management System Based on 3 Access Point Name (3APN)

Recommendation: Approve new PAR until December 2028.

4.5 PARs for the Revision of Standards

There was a bucket motion to approve P1900.5, P1619, P1857.5, P45.7, P1810, P1106, P1635, P487.2, PC37.30.2, P60076-57-129, PC57.12.23, PC57.12.37, PC57.12.39, PC57.127, and PC57.159 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

P1900.5

Standard for Requirements and System Architectures for Dynamic Spectrum Access Systems

Recommendation: Approve PAR for the revision of a standard until December 2028.

IEEE Computer Society/Cybersecurity and Privacy Standards Committee

P1619

Standard for Cryptographic Protection of Data on Block-Oriented Storage Devices

Recommendation: Approve PAR for the revision of a standard until December 2028.

IEEE Computer Society/Data Compression Standards Committee

P1857.5

Standard for Advanced Mobile Speech and Audio

Recommendation: Approve PAR for the revision of a standard until December 2028.

IEEE Industry Applications Society/Petroleum & Chemical Industry

P45.7

Recommended Practice for Electrical Installations on Shipboard -- AC Switchboards

Recommendation: Approve PAR for the revision of a standard until December 2028.

P1810

Guide for the Installation of Circuit-Integrity Cables Evaluated for Hydrocarbon Pool Fires in Petroleum and Chemical Facilities

Recommendation: Approve PAR for the revision of a standard until December 2028.

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

P1106

Recommended Practice for Installation, Maintenance, Testing, and Replacement of Vented Nickel-Cadmium Batteries for Stationary Applications

Recommendation: Approve PAR for the revision of a standard until December 2028.

P1635

IEEE/ASHRAE Guide for the Ventilation and Thermal Management of Batteries for Stationary Applications

Recommendation: Approve PAR for the revision of a standard until December 2028.

IEEE Power and Energy Society/Power System Communications and Cybersecurity

P487.2

Standard for the Electrical Protection of Communication Facilities Serving Electric Supply Locations through the Use of Optical Fiber Systems

Recommendation: Approve PAR for the revision of a standard until December 2028.

IEEE Power and Energy Society/Switchgear

PC37.30.2

Guide for Wind-Loading Evaluation of High-Voltage (>1000 V) Air-Break Switches

Recommendation: Approve PAR for the revision of a standard until December 2028.

IEEE Power and Energy Society/Transformers

P60076-57-129

IEC/IEEE International Standard - Power transformers--Part 57-129: Transformers for HVDC applications

Recommendation: Approve PAR for the revision of a standard until December 2028.

PC57.12.23

Standard for Submersible Single-Phase Transformers:250 kVA and Smaller; High Voltage 34 500 GrdY/19 920 V and Below; Low Voltage 600 V and Below

Recommendation: Approve PAR for the revision of a standard until December 2028.

PC57.12.37

Standard for the Electronic Reporting of Distribution Transformer Test Data

Recommendation: Approve PAR for the revision of a standard until December 2028.

PC57.12.39

Standard for Requirements for Distribution Transformer Tank Pressure Coordination

Recommendation: Approve PAR for the revision of a standard until December 2028.

PC57.15

IEEE/IEC International Standard- Power transformers - Part 21: Standard requirements, terminology, and test code for step-voltage regulators

Recommendation: Approve PAR for the revision of a standard until December 2028.

There was a motion to approve the recommendation for PC57.15. In the absence of objection or abstention, the motion was approved.

PC57.127

Guide for the Detection, Location and Interpretation of Sources of Acoustic Emissions from Electrical Discharges in Transformers and Reactors.

Recommendation: Approve PAR for the revision of a standard until December 2028.

PC57.159

Standard for Distributed Photo-Voltaic Transformers (DPVTs)

Recommendation: Approve PAR for the revision of a standard until December 2028.

5. Old Business

5.1 Role of NesCom

Chair Wang reviewed the document entitled Role of NesCom. It was recommended that the document be added to the NesCom webpage.

Action item: NesCom Administrator will work with the web team to add the document.

Sara Biyabani provided a summary of “Statement of Guidance” for NesCom. It was decided that this language will be added to the conventions and training materials for NesCom members.

Action Item: NesCom Administrator will work with Director – IEEE SA Governance to create a draft of updated NesCom Conventions for review by NesCom at the March 2024 NesCom meeting.

6. New Business

There was no new business.

7. Next Meeting

The next meeting will be a hybrid meeting and will take place 20 March 2024 in London, UK and by Webex. Chair Wang asked NesCom members to submit new topic ideas no later than one week prior to the meeting (13 March 2024) and to send any supporting documents to NesCom Administrator by 15 March 2024.

8. Adjournment

The meeting was adjourned at 12:15 p.m. ET (UTC-5).