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
Moira Patterson
Shana Pepin
Markus Plessel
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P1614 (Field-Testing of Shielded Power Cable Systems Rated 5 kV and Above with Continuous Alternating Voltage) to be withdrawn. PAR expired on 31 December 2023 and will be administratively withdrawn.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.

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
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

Recommendation: Approve new PAR until December 2028.

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

PN42.35

Recommendation: Approve new PAR until December 2028.

IEEE Instrumentation and Measurement Society/TC9 - Sensor Technology

P3456.1

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**
**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**
**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**
**Recommendation:** Approve new PAR until December 2028.

**P3140.2**
**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**
**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).