IEEE SA STANDARDS BOARD NEW STANDARDS COMMITTEE (NesCom)
MEETING MINUTES
8 May 2024
Teleconference via Webex
9:30 a.m. – 12:00 p.m. ET (UTC-4)

Attendees

Members Present:
Lei Wang, Chair
Guido Hiertz, Vice Chair
Kit August
Sara Biyabani
Xiaofeng (Alfred) Chen
Yuan Chi
Stephen Dukes
Doug Edwards
Ramy Fathy
Darren Galpin
Hao Hu
Howard Li
Johnny Lin
Jon Rosdahl

Members Absent:
Daleep Mohla
Daidi Zhong

IEEE Staff:
Christy Bahn
Teresa Belmont, Administrator
Ahsaki Benion
Matthew Ceglia
Karen Evangelista
Jonathan Goldberg
Dalisa Gonzalez
Yvette Ho Sang
Patrycja Jarosz
Soo Kim
Michael Kipness
Vanessa Lalitte
Jiajia Liu
Erin Morales
Christian Orlando
Dave Ringle
Jennifer Santulli
Alpesh Shah
Tom Thompson
Michelle Turner
Malia Zaman
Meng Zhao

Guests:
Baoyeqing
Latonia Gordon
Kingston Ho
David Law
Bin Liu
Rendong Liu
Luoyuan Peng
Feng Wang
Lifeng Zhang
Qinnan Zhang
Cheng Zhengfeng

1. **CALL TO ORDER**

   Chair Lei Wang called the meeting to order at 9:31 a.m. ET (UTC-4). 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 20 March 2024 MEETING**
   There was a motion to approve the 20 March 2024 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 bucket motion to approve P802.3cw and P3140 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/LAN/MAN Standards Committee
   P802.3cw
   Standard for Ethernet Amendment: Physical Layers and Management Parameters for 400 Gb/s Operation Over DWDM (Dense Wavelength Division Multiplexing) Systems
   Recommendation: Approve withdrawal.

   IEEE Robotics and Automation Society/Standing Committee for Standards
   P3140
   Standard for Semantic Maps for Autonomous Robots
   Recommendation: Approve withdrawal.

   4.2 Modified PARs
   There was a bucket motion to approve P3215, P2725.1, P1451.1.6, P1829, and P3321 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/Blockchain and Distributed Ledgers
P3215
Standard for Consensus Framework for Blockchain System
Recommendation: Approve modified PAR.

IEEE Engineering in Medicine and Biology Society/Standards Committee
P2725.1
Standard for Microwave Structural, Vascular, or Functional Brain Imaging Device Safety
Recommendation: Approve modified PAR.

IEEE Industrial Electronics Society/Industrial Electronics Society Standards Committee
P1451.1.6
Standard for a Smart Transducer Interface for Sensors, Actuators, and Devices - Message Queue Telemetry Transport (MQTT) for Networked Device Communication
Recommendation: Approve modified PAR.

IEEE Power and Energy Society/Transmission and Distribution
P1829
Guide for Conducting Corona Tests on Hardware Assemblies for Overhead Transmission Lines and Substations
Recommendation: Approve modified PAR.

IEEE Vehicular Technology Society/Intelligent Transportation Systems
P3321
Recommended Practice for the Application of Assumptions on Reasonably Foreseeable Behavior of Other Road Users in Safety Related Models
Recommendation: Approve modified PAR.

4.3 Extension Requests

There was a bucket motion to approve P2863, P1450.6.2, P1615, PC57.146, P393, and P62209-3 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/Artificial Intelligence Standards Committee
P2863
Recommended Practice for Organizational Governance of Artificial Intelligence
Recommendation: Approve request for an extension until 31 December 2025.

IEEE Computer Society/Test Technology
P1450.6.2
Standard for Memory Modeling in Core Test Language
Recommendation: Approve request for an extension until 31 December 2026.

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 2025. (Vote: 7=Yes; 5=No; 0=Abstain)

There was a motion to disapprove the extension of P1120. The motion failed. (Vote: 4=Yes; 6= No; 3=Abstain).

There was a motion to approve the extension of P1120. The motion was approved. (Vote: 7 = Yes; 5=No)

IEEE Power and Energy Society/Power System Communications and Cybersecurity

P1615

Recommended Practice for Network Communication for Electric Power Substation Monitoring and Control

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

IEEE Power and Energy Society/Transformers

PC57.146

Guide for Interpretation of Gases Generated in Silicone-Immersed Transformers

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

IEEE Power Electronics Society/Standards Committee

P393

Standard for Test Procedures for Magnetic Cores

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

IEEE SA Board of Governors/International Committee on Electromagnetic Safety

P62209-3

Measurement Procedure for the Assessment of Specific Absorption Rate of Human Exposure to Radio Frequency Fields from Hand-Held and Body-Mounted Wireless Communication Devices – Part 3: Vector Measurement Based Systems (Frequency range of 300 MHz to 6 GHz)

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

4.4 New PARs

There was a bucket motion to approve P1936.9, P1936.10, P3483, P802.1ASeb, P3816.1, P3816.2, P3824, P3475, P1451.99, P1588.1, PC57.133, P3476, and P3474 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

P1936.6

Standard for Unmanned Aircraft Systems Based Oblique Photogrammetry Used for Survey and Design of 110 kV and above Power Transmission and Transformation Projects

Recommendation: Approve new PAR until December 2028.

There was a motion to approve the recommendation for P1936.6. In the absence of objection or abstention, the motion was approved.

P1936.7

Standard for Mesh Deployment of Multi-Rotor Unmanned Aircraft Systems for Inspection of Electrical Power Facilities

Recommendation: Defer P1936.7 until next NesCom meeting. (1 abstention)

There was a motion to defer P1936.7 to the June meeting. The motion was approved. (Vote: 1 abstention)

P1936.8

Standard for Photovoltaic Power Station Monitoring by Unmanned Aircraft System

Recommendation: Defer P1936.8 until next NesCom meeting. (Vote: 9 = Yes; 2 = No; 2 = Abstain)

There was a motion to defer P1936.8 to the June meeting. The motion was approved. (Vote: 9=Yes; 2=No; 2=Abstain) abstention)

P1936.9
Standard for Technical Requirements for Electric Unmanned Aircraft Systems for Power Grid Material Lifting
Recommendation: Approve new PAR until December 2028.

P1936.10
Recommended Practice for Use of Electric Unmanned Aircraft Systems for Power Grid Material Lifting
Recommendation: Approve new PAR until December 2028.

IEEE Computer Society/Artificial Intelligence Standards Committee
P3484
Recommended Practice for an Artificial Intelligence Imaging and Data Process Model for Sustainable Textile Value Chain Operations
Recommendation: Approve new PAR until December 2028. (Vote: 10=Yes; 3=No; 0=Abstain)

There was a motion to approve the recommendation for P3484. The motion was approved. (Vote: 10=Yes; 3=No; 0=Abstain)

IEEE Computer Society/Data Compression Standards Committee
P3483
Standard for Deep Intermediate Feature Coding
Recommendation: Approve new PAR until December 2028.

IEEE Computer Society/LAN/MAN Standards Committee
P802.1ASeb
IEEE Standard for Local and Metropolitan Area Networks - Timing and Synchronization for Time-Sensitive Applications Amendment: Optional Use of Announce
Recommendation: Approve new PAR until December 2028.

IEEE Consumer Technology Society/Digital Finance and Economy Standards Committee
P3816.1
Standard for Certificates of Internet of Rights (IOR)
Recommendation: Approve new PAR until December 2028.

P3816.2
Standard for Entrusted Storage of Internet of Rights (IOR)
Recommendation: Approve new PAR until December 2028.

P3822
Standard for Framework of Computational Resource Trading Based on Blockchain
Recommendation: Approve new PAR until December 2028.

There was a motion to approve the recommendation for P3822. In the absence of objection or abstention, the motion was approved.

P3823
Guide for Privacy-Preserving Computation-Based Price Mechanism for the Data Element Market
Recommendation: Approve new PAR until December 2028. (1 abstention)

There was a motion to approve the recommendation for P3823. The motion was approved. (1 abstention)

P3824
Standard for Reference Framework for Blockchain-Based Digital Content Management Platform
Recommendation: Approve new PAR until December 2028.

P3825
Standard for Technical Requirements for Blockchain-Based Electronic Transferable Records
Recommendation: Approve new PAR until December 2028.

There was a motion to approve the recommendation for P3822. In the absence of objection or abstention, the motion was approved.

IEEE Consumer Technology Society/Emerging Technology Standards Committee
P3475
Standard for General Requirements for the Docking Port of Intelligent Washing Machines and Cleaning All-in-One Robots
Recommendation: Approve new PAR until December 2028.

IEEE Instrumentation and Measurement Society/TC9 - Sensor Technology
P1451.99
Standard for Harmonization of Internet of Things (IoT) Systems Interactions
Recommendation: Approve new PAR until December 2028.

P1588.1
Standard for Client Server Precision Clock Synchronization Protocol
Recommendation: Approve new PAR until December 2028.

IEEE Intelligent Transportation Systems Society/Standards Committee
P3473
Standard for Technical Requirements for Large Scale Artificial Intelligence Models for Rail Transit
Recommendation: Approve new PAR until December 2028. (Vote: 9=Yes; 4=No; 0=Abstain)

There was a motion to approve the recommendation for P3473. The motion was approved. (Vote: 9=Yes; 4=No; 0=Abstain)

IEEE Power and Energy Society/Analytic Methods for Power Systems
P2882
Guide for Validation of Software Models of Generators for Power System Studies
Recommendation: Approve new PAR until December 2028.

There was a motion to approve the recommendation for P2882. In the absence of objection or abstention, the motion was approved.

IEEE Power and Energy Society/Transformers
PC57.133
Guide for Evaluating Transformer Performance under Reverse Power Flow
Recommendation: Approve new PAR until December 2028.

IEEE Power and Energy Society/Transmission and Distribution
P3476
Standard for Unique IDs and Smart Tags for Supply Chain and Asset Traceability for the Electric Grid
Recommendation: Approve new PAR until December 2028.

IEEE Vehicular Technology Society/Automated Vehicles Standards Committee
P3472
Standard for Developing Parallel Autonomy Systems within Passenger Vehicles
Recommendation: Approve new PAR until December 2028.

There was a motion to approve the recommendation for P3472. In the absence of objection or abstention, the motion was approved.

P3474
Standard for Human Intentions and Artificial Intelligence Alignment in Autonomous Driving Agent
Recommendation: Approve new PAR until December 2028.

4.5 PARs for the Revision of Standards
There was a bucket motion to approve P26513, P1129, P1776, PC37.30.3, PC37.30.4, PC57.12.58, PC57.19.01, PC57.93, PC57.104, and PC57.161 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 Antennas and Propagation Society/Antennas and Propagation Standards Committee
P211
Standard for Definitions of Terms for Radio Wave Propagation
Recommendation: Approve PAR for the revision of a standard until December 2028. (Vote: 6=Yes; 4=No; 3=Abstain)

There was a motion to approve the recommendation for P211. The motion was approved. (Vote: 6=Yes; 4=No; 3=Abstain).

IEEE Computer Society/Software & Systems Engineering Standards Committee
P26513
Systems and Software Engineering - Testing and Reviewing Information for Users
Recommendation: Approve PAR for the revision of a standard until December 2028.

IEEE Power and Energy Society/Electric Machinery
P1129
Guide for Online Monitoring of Large Synchronous Generators (10 MVA and above)
Recommendation: Approve PAR for the revision of a standard until December 2028.

P1776
Recommended Practice for Thermal Evaluation of Unsealed or Sealed Insulation Systems for AC Electric Machinery Employing Form-Wound Pre-Insulated Stator Coils for Machines Rated 15 000 V and Below
Recommendation: Approve PAR for the revision of a standard until December 2028.

IEEE Power and Energy Society/Switchgear
PC37.30.3
Standard for Requirements for High-Voltage Interrupter Switches, Interrupters, or Interrupting Aids Used on or Attached to Switches Rated for Alternating Currents above 1000 V
Recommendation: Approve PAR for the revision of a standard until December 2028.

PC37.30.4
Standard for Test Code for Switching and Fault Making Tests for High-Voltage Interrupter Switches, Interrupters, or Interrupting Aids Used on or Attached to Switches Rated for Alternating Currents above 1000 V
Recommendation: Approve PAR for the revision of a standard until December 2028.

IEEE Power and Energy Society/Transformers
PC57.12.58
Guide for Conducting a Transient Voltage Analysis of a Dry-Type Winding
Recommendation: Approve PAR for the revision of a standard until December 2028.

PC57.19.01
Standard for Performance Characteristics and Dimensions for Power Transformer and Reactor Bushings
Recommendation: Approve PAR for the revision of a standard until December 2028.

PC57.93
Guide for Installation and Maintenance of Liquid-Immersed Power Transformers and Reactors
Recommendation: Approve PAR for the revision of a standard until December 2028.

PC57.104
Guide for the Interpretation of Gases Generated in Mineral Oil-Immersed Transformers
Recommendation: Approve PAR for the revision of a standard until December 2028.

PC57.161
Guide for Dielectric Frequency Response Test for Liquid-immersed Transformers and Reactors
Recommendation: Approve PAR for the revision of a standard until December 2028.

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 virtual meeting and will take place on 5 June 2024. Chair Wang asked NesCom members to submit new topic ideas for the June meeting no later than 29 May 2024 and to send any supporting documentation to the NesCom Administrator by 3 June 2024.

8. Adjournment
The meeting was adjourned at 12:00 p.m. ET (UTC-4).