

IEEE SA STANDARDS BOARD NEW STANDARDS COMMITTEE (NesCom)

DRAFT MEETING MINUTES

20 March 2024

Hybrid Meeting: London, UK and Webex

9:00 a.m. – 12:00 p.m. UTC+05

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
Hao Hu
Howard Li
Johnny Lin
Daleep Mohla
Jon Rosdahl
Daidi Zhong

Members Absent:

Ramy Fathy

IEEE Staff:

Christy Bahn
Adrien Bastos
Teresa Belmont, Administrator
Ahsaki Benion
Hermann Brand
Kim Breitfelder
Matthew Ceglia
Karen Evangelista
Joshua Gay
Jonathan Goldberg
Dalisa Gonzalez
Jodi Haasz
Matt Herdlein
Yvette Ho Sang
Usha Jagannathan
Patrycja Jarosz
Soo Kim
Michael Kipness
Jon Labrador
Vanessa Lalitte
Jiajia Liu
Karen McCabe

Suzanne Merten
Erin Morales
Christian Orlando
Maria Palombini
Moira Patterson
Dave Ringle
Heather Robinson
Pat Roder
Jennifer Santulli
Rudi Schubert
Alpesh Shah
Ravi Subramaniam
Tom Thompson
Malia Zaman
Meng Zhao

IEEE Outside Legal Counsel:

Claire Topp – Dorsey & Whitney LLP

Guests:

Edward Au
Mona Ghassemian
James Gilb
Latonia Gordon
Allan Gray
Qinfen Hao
Gary Hoffman
Ron Hotchkiss
Yousef Kimiagar
David Law
Joseph Levy
Ruth Lewis
Caroline Li
Xiaohui Liu
Kevin Lu
Ralf Ma
Vikas Malhotra
Hiroshi Mano
Stephen McCann
Andrew McStay
Hans Mumm
Kesang Phuntsho Namgay
Paul Nikolich
Annette Reilly
Robby Robson
Dan Sabin
Robby Simpson
Dorothy Stanley
Donnie Swing
Mehmet Ulema
Ken Wallace
Keith Waters
Don Wright
Hongwei Zhang

1. CALL TO ORDER

Chair Lei Wang called the meeting to order at 9:00 a.m. UTC+0. 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 31 JANUARY 2024 MEETING

There was a motion to approve the [31 January 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

None

4.2 Modified PARs

There was a bucket motion to approve P1937.8, P802.11bf, P3079.2, P1186, and P3400 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

P1937.8

Recommended Practice for Functional and Interface Specifications for Unmanned Aerial Vehicle (UAV) Cellular Communication Terminals

Recommendation: Approve modified PAR.

IEEE Computer Society/LAN/MAN Standards Committee

P802.11bf

Standard for Information Technology -- Telecommunications and Information Exchange Between Systems Local and Metropolitan Area Networks -- Specific Requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications Amendment: Enhancements for Wireless Local Area Network (WLAN) Sensing

Recommendation: Approve modified PAR.

IEEE Computer Society/Standards Activities Board Standards Committee

P3079.2

Standard for Mixed Reality (MR) Framework for Motion Training

Recommendation: Approve modified PAR.

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

PN42.49.1

Standard for Performance Criteria for Non-alarming Personal Emergency Radiation Detectors (PERDs) for Exposure Control

Recommendation: Approve modified PAR.

There was a motion to approve the recommendation for PN42.49.1. In the absence of objection or abstention, the motion was approved.

PN42.61

Standard for Data Format for Real-Time Streaming from Radiation Detection Instrument

Recommendation: Approve modified PAR.

There was a motion to approve the recommendation for PN42.61. In the absence of objection or abstention, the motion was approved.

IEEE Power and Energy Society/Insulated Conductors

P1186

Recommended Practice for Applicability of Methods for the Evaluation of Low-Voltage and Medium-Voltage Installed Cable Systems in Nuclear Facilities

Recommendation: Approve modified PAR.

IEEE SA Board of Governors/Strategic and Emerging Standards Committee

P3400

Standard for Use of Inclusive Language in Technical Terminology and Communications

Recommendation: Approve modified PAR.

4.3 Extension Requests

IEEE Computer Society/Standards Activities Board Standards Committee

P3079.2

Standard for Mixed Reality (MR) Framework for Motion Training

Recommendation: Approve request for an extension 31 December 2026.

There was a motion to approve the recommendation for P3079.2. In the absence of objection or abstention, the motion was approved.

4.4 New PARs

There was a bucket motion to approve P1946, P2030.5-2023/Cor 1, P1947, P3462, P1666-2023/Cor 1, P2851.1, P2807.11, P2807.12, P2807.13, P3460, P802.3dm, P802.11bp, P802.15.4ad, P2785.1, P2785.3, P3441, P2048.111, P2048.121, P2048.201, P3069, P3337, P1614, PC37.431.10, P3466, P3467, P62209-1528a, and P3463 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 Circuits and Systems Society/Integrated Circuit Design and Test for Emerging Circuits and Systems Standards Committee

P3468

Standard for Chiplet Interface Circuit

Recommendation: Approve new PAR until December 2028.

There was a motion to approve the recommendation for P3468. In the absence of objection or abstention, the motion was approved.

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

P1946

Standard for Self-Healing Global Positioning System (GPS) Signals

Recommendation: Approve new PAR until December 2028.

IEEE Communications Society/Power Line Communications

P2030.5-2023/Cor 1

IEEE Standard for Smart Energy Profile Application Protocol Corrigendum 1

Recommendation: Approve new PAR until December 2028.

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

P1947

Standard for Quantum Cybersecurity Framework

Recommendation: Approve new PAR until December 2028.

IEEE Computer Society/Artificial Intelligence Standards Committee

P3462

Recommended Practice for Using Safety by Design in Generative Models to Prioritize Child Safety

Recommendation: Approve new PAR until December 2028.

IEEE Computer Society/Design Automation

P1666-2023/Cor 1

IEEE Standard for Standard SystemC® Language Reference Manual - Corrigendum 1

Recommendation: Approve new PAR until December 2028.

IEEE Computer Society/Functional Safety Standards Committee

P2851.1

Standard for the Enablement of Functional Safety Interoperability with Reliability

Recommendation: Approve new PAR until December 2028.

IEEE Computer Society/Knowledge Engineering Standards Committee

P2807.11

Guide for Production Oriented Knowledge Graph in Petroleum and Chemical Industry

Recommendation: Approve new PAR until December 2028.

P2807.12

Standard for Technical Requirements for General Knowledge Services Based on Knowledge Graphs

Recommendation: Approve new PAR until December 2028.

P2807.13

Guide for Integration Framework among Large-Scale Pre-Trained Model and Knowledge Graphs

Recommendation: Approve new PAR until December 2028.

P3460

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

Recommendation: Approve new PAR until December 2028.

IEEE Computer Society/LAN/MAN Standards Committee

P802.3dm

IEEE Standard for Ethernet Amendment: Physical Layer Specifications and Management Parameters for Asymmetrical Electrical Automotive Ethernet

Recommendation: Approve new PAR until December 2028.

P802.11bp

IEEE Standard for Information Technology--Telecommunications and Information Exchange between Systems - Local and Metropolitan Area Networks--Specific Requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications Amendment: Enhancements for Ambient Power Communication (AMP)

Recommendation: Approve new PAR until December 2028. (Hiertz recused from the vote.)

P802.15.4ad

IEEE Standard for Low-Rate Wireless Networks Amendment: Data rate and range extensions for the Smart Utility Network (SUN) Physical Layer (PHY)

Recommendation: Approve new PAR until December 2028.

IEEE Consumer Technology Society/Emerging Technology Standards Committee

P2089.2

Standard for Terms and Conditions for Children's Online Engagement

Recommendation: Approve new PAR until December 2028.

There was a motion to approve the recommendation for P2089.2. In the absence of objection or abstention, the motion was approved.

P2785.1

Standard for a Framework and Requirements for Multimodal Interaction Systems in Smart Home

Recommendation: Approve new PAR until December 2028.

P2785.3

Standard for Classification and Description of Perceptual Data in Smart Home

Recommendation: Approve new PAR until December 2028.

P3441

Standard for Classification of Intelligence Levels and their Evaluation Model in Smart Home Systems

Recommendation: Approve new PAR until December 2028.

IEEE Consumer Technology Society/Metaverse Standards Committee

P2048.111

Standard for Technical Specification for Three-dimensional (3D) Reconstruction and Visual Localization for Large Scale Scenes

Recommendation: Approve new PAR until December 2028.

P2048.121

Standard for General Technical Requirements for Service-oriented Digital Human Based on Artificial Intelligence

Recommendation: Approve new PAR until December 2028.

P2048.201

Standard for Security Specification of Blockchain-based Metaverse Accounts

Recommendation: Approve new PAR until December 2028.

P3069

Recommended Practice for Consumer AR/VR Handheld-controller Location Technology Based on Active Infrared Optics

Recommendation: Approve new PAR until December 2028.

P3438

Standard for Network Infrastructure for Web3.0

Recommendation: Approve new PAR until December 2028.

There was a motion to approve the recommendation for P3438. In the absence of objection or abstention, the motion was approved.

IEEE Engineering in Medicine and Biology Society/Standards Committee

P3337

Standard for Requirements for Designing Accessible Intelligent Cyber-Physical Systems (AICS) for Well-Being
Recommendation: Approve new PAR until December 2028. (August abstained from the vote.)

IEEE Power and Energy Society/Analytic Methods for Power Systems

P2882

Guide for Validation of Software Models of Renewable and Non-renewable Generators for Power System Studies
Recommendation: NesCom recommends deferral of P2882 to allow for continued discussion on the breadth of the equipment involved in the validation/verification. In addition, NesCom recommends to further define the types of generation that will be used (e.g., utility generation, commercial/industrial back up generation, hospital emergency generation, communications generation, or residential generation). Doug Edwards has been assigned as a mentor.
[Vote: 11= Yes; 1=No; 2=abstain]

IEEE Power and Energy Society/Insulated Conductors

P1614

Guide for AC Withstand Field-Testing of Shielded Power Cable Systems Rated 5 kV and Above with Continuous Alternating Voltage
Recommendation: Approve new PAR until December 2028.

IEEE Power and Energy Society/Substations

PC37.431.10

Guide for Functional Specification of Transmission Dynamic Reactive Power Compensators (DRPC)
Recommendation: Approve new PAR until December 2028.

IEEE SA Board of Governors/Entity Collaborative Activities Governance Board

P3466

Standard for Data-Driven High-throughput Laboratory Intelligence and Automation
Recommendation: Approve new PAR until December 2028.

P3467

Standard for Digital Manufacturing and Stability Testing of Perovskite Solar Cells and Modules
Recommendation: Approve new PAR until December 2028.

IEEE SA Board of Governors/International Committee on Electromagnetic Safety

P62209-1528a

IEC/IEEE International Standard - 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 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz) Amendment of IEC/IEEE 62209-1528:2020
Recommendation: Approve new PAR until December 2028.

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

P3469

Standard for an Environmental Liability Process Model for Accounting in Systems Engineering
Recommendation: Approve new PAR until December 2028.

There was a motion to approve the recommendation for P3469. In the absence of objection or abstention, the motion was approved.

P7014.1

Recommended Practice for Ethical Considerations of Emulated Empathy in Partner-based General-Purpose Artificial Intelligence Systems

Recommendation: Approve new PAR until December 2028. [Vote: 10=Yes; 1=No (Biyabani); 2=Abstain (Hu)]

IEEE Vehicular Technology Society/Intelligent Transportation Systems

P3463

Standard for Requirements for Signal and Data Cables for Automobile Chassis System

Recommendation: Approve new PAR until December 2028.

4.5 PARs for the Revision of Standards

There was a bucket motion to approve P1601 and PC37.246 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 Power and Energy Society/Power System Instrumentation and Measurements

P1601

Standard for Optical AC Current and Voltage Sensing Systems

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

IEEE Power and Energy Society/Power System Relaying and Control

PC37.246

Guide for Protection Systems of Transmission-to-Generation Interconnections

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

IEEE Power and Energy Society/Transmission and Distribution

P1656

Guide for Testing the Electrical, Mechanical, and Durability Performance of Wildlife Protective Devices on Overhead Power Distribution Systems Rated up to 38 kV

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

There was a motion to approve the recommendation for P1656. In the absence of objection or abstention, the motion was approved.

5. Old Business

There was no old business.

6. New Business

As time permitted, Chair Wang allowed for other items to be discussed, including:

- When a preliminary vote of “conditional approval” is made, there should be comments to indicate the concerns.
- The overall quality/readability of PARs.
- What training /education is available to promote general engagement?
- Where to find the rationales behind PAR withdrawals.
- Connecting with United Nations (UN) Sustainability Goals.

7. Next Meeting

The next meeting will be a virtual meeting and will take place on 8 May 2024. Chair Wang asked NesCom members to submit new topic ideas for the May meeting no later than 1 May 2024 and to send any supporting documentation to the NesCom Administrator by 3 May 2024.

8. Adjournment

The meeting was adjourned at 12:00 p.m. UTC+0.