

IEEE SA STANDARDS BOARD NEW STANDARDS COMMITTEE (NesCom)

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.