

**IEEE SA STANDARDS BOARD NEW STANDARDS COMMITTEE (NesCom)  
MEETING MINUTES**

**28 June 2023**

**Brussels, Belgium and Teleconference/Webex  
9:00 a.m. – 12:00 p.m. CEST (UTC+2)**

**Attendees**

**Members Present:**

Sara Biyabani  
Xiaofeng Chen  
Doug Edwards  
Guido Hiertz, Vice Chair  
Wei Hong  
Howard Li  
Johnny Lin, Vice Chair  
Daleep Mohla  
Andrew Myles  
Annette Reilly  
Lei Wang, Chair

**Members Absent:**

Ramy Fathy  
Gui Liu  
Daidi Zhong

**IEEE Staff:**

Christy Bahn  
Adrien Bastos  
Teresa Belmont  
Jennifer Biolsi  
Hermann Brand  
Kim Breitfelder  
Matthew Ceglia  
Karen Evangelista  
Jonathan Goldberg  
Jodi Haasz  
Yvette Ho Sang  
Ron Hotchkiss  
Patrycja Jarosz  
Konstantinos Karachalios

Soo Kim  
Michael Kipness  
Vanessa Lalitte  
Jiajia Liu  
Kelly Lorne  
Christian Orlando  
Dave Ringle, Administrator  
Pat Roder  
Jennifer Santulli  
Tom Thompson  
Ernesto Vega Janica  
Malia Zaman

**IEEE Outside Legal Counsel:**

Claire Topp – Dorsey & Whitney LLP

**Guests:**

Mila Aliana  
Mauricio Cespedes  
Latonia Gordon  
Gary Hoffman  
Oliver Holland  
Ning Hu  
Tyler Jaynes  
Yousef Kimiagar  
John Kulick  
David Law  
Joseph Levy  
Xiaohui Liu  
Haiying Lu  
Kevin Lu  
Meng Lu  
Jim Matthews  
Kai Pan  
Glenn Parsons  
Jim Peng  
Robby Robson  
Jon Rosdahl  
Dan Sabin  
Mark Siira  
Barry Tilton

Keith Waters  
Karl Weber  
Matthew Wilkowski  
Don Wright  
Hongjun Xie  
Yu Yuan  
Han Zhang  
Xi Zhang

1 CALL TO ORDER

Chair Wang called the meeting to order at 9:02 a.m. CEST (UTC+2).

There was a round of Introductions.

It was noted that the meeting was quorate.

2 REVIEW OF [AGENDA](#)

Chair Wang reviewed the agenda.

It was noted that P2030.14 would be time-specific at 11:00 a.m. CEST (UTC+2).

**There was a motion to approve the agenda. In the absence of objection, the motion was approved.**

2.1 Consent Agenda

2.1.1 Withdrawal Requests

**IEEE Computer Society/Microprocessor Standards Committee**

**P3120.1**

Standard for Quantum Simulator Architecture

**Recommendation:** Approve PAR withdrawal.

**IEEE Nanotechnology Council/Standards Committee**

**P3155**

Standard for Programmable Quantum Simulator

**Recommendation:** Approve PAR withdrawal.

## IEEE Power and Energy Society/Power System Communications and Cybersecurity

### PC37.240

Standard Cybersecurity Requirements for Power System Automation, Protection, and Control Systems

**Recommendation:** Approve PAR withdrawal.

- 3 APPROVAL OF NESCOM MEETING MINUTES
- 3.1 Approval of [Minutes](#) from the 29 March 2023 NesCom Meeting

**There was a motion to approve the 29 March 2023 meeting minutes. In the absence of objection, the motion was approved.**

- 3.2 Approval of [Minutes](#) from the 15 May 2023 NesCom Meeting

**There was a motion to approve the 15 May 2023 meeting minutes. In the absence of objection, the motion was approved.**

- 4 PARS FOR DISCUSSION
- 4.1 Modified PARs

**There was a motion to approve the recommendations for P2725.1, PC37.20.9a, and P2004 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, the motion was approved.**

## IEEE Computer Society/Artificial Intelligence Standards Committee

### P2894

Guide for an Architectural Framework for Explainable Artificial Intelligence

**Recommendation:** Approve modified PAR until 31 December 2024.

**There was a motion to approve the recommendation for P2894. In the absence of objection, the motion was approved.**

### P3152

Standard for Transparent Agency Identification of Humans and Machines

**Recommendation:** Approve modified PAR until 31 December 2026.

**There was a motion to approve the recommendation for P3152. In the absence of objection, the motion was approved.**

### **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 until 31 December 2024.

### **IEEE Power and Energy Society/Switchgear**

#### **PC37.20.9a**

Standard for Metal-Enclosed Switchgear Rated 1 kV to 52 kV Incorporating Gas Insulating Systems

Amendment: Clarification of metal-enclosed gas-insulated switchgear (MEGIS) types covered, refilling and monitoring requirements and production test requirements

**Recommendation:** Approve modified PAR until 31 December 2027.

### **IEEE Power Electronics Society/Standards Committee**

#### **P2004**

Hardware-in-the-Loop (HIL) Simulation Based Testing of Electric Power Apparatus and Controls

**Recommendation:** Approve modified PAR until 31 December 2023.

#### 4.2 Extension Requests

**There was a motion to approve the recommendations for P2807.1, P7130, P386, P1717, P1816, P1815.2, PC37.236, P80, PC37.13, PC37.100.6, PC57.170, P1636-2018/Cor 1, and P1671-2017/Cor 1 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, the motion was approved.**

### **IEEE Computer Society/Standards Activities Board**

#### **P2807.1**

Standard for Technical Requirements and Evaluation of Knowledge Graphs

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

### **P7130**

Standard for Quantum Technologies Definitions

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

## **IEEE Power and Energy Society/Insulated Conductors**

### **P386**

Standard for Shielded Separable Insulated Connectors for Classes 15 kV through 35 kV

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

### **P1428**

Guide for Installation Methods for Fiber Optic Cables in Power Generating Stations and in Industrial Facilities

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

**There was a motion to approve the recommendation for P1428. In the absence of objection, the motion was approved.**

### **P1717**

Standard for Testing Fire-Resistive, Circuit Integrity Cables and Cable Systems Using a Hydrocarbon Pool Fire Test Protocol

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

### **P1816**

Guide for Preparation Techniques of Shielded Cables Rated 2.5 kV through 46 kV and the Installation of Mating Accessories

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

## **IEEE Power and Energy Society/Power System Communications and Cybersecurity**

### **P1815.2**

Standard Profile for Communications with Distributed Energy Resources (DERs) using IEEE Std 1815 [Distributed Network Protocol (DNP3)]  
**Recommendation:** Approve request for an extension until 31 December 2025.

### **PC37.236**

Guide for Power System Protective Relay Applications Over Digital Communication Channels

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

## **IEEE Power and Energy Society/Substations**

### **P80**

Guide for Safety in AC Substation Grounding

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

## **IEEE Power and Energy Society/Switchgear**

### **PC37.13**

Standard for Low-Voltage AC (1058 V and Below) Power Circuit Breakers Used in Enclosures

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

### **PC37.100.6**

Guide for Determination of Test Specimens for Seismic Qualification for Building Code Applications

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

## **IEEE Power and Energy Society/Transformers**

### **PC57.170**

Guide for the Condition Assessment of Liquid Immersed Transformers, Reactors and Their Components

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

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

### **P7011**

Standard for the Process of Identifying and Rating the Trustworthiness of News Sources

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

**There was a motion to approve the recommendation for P7011. The motion was approved, with 2 abstentions [Edwards].**

## **IEEE-SASB Coordinating Committees/SCC20 – Test and Diagnosis for Electronic Systems**

### **P1636.1-2018/Cor 1**

Standard for Software Interface for Maintenance Information Collection and Analysis (SIMICA): Exchanging Test Results and Session Information via the eXtensible Markup Language (XML) – Corrigendum 1

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

### **P1671.1-2017/Cor 1**

Standard for Automatic Test Markup Language (ATML) Test Descriptions – Corrigendum 1

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

#### 4.3 New PARs

**There was a motion to approve the recommendations for P3385, P11073-20107-2017/Cor 1, P63480, P1871.3, P3382, P3383, P3384, and P3381 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, the motion was approved.**

## **IEEE Computer Society/Artificial Intelligence Standards Committee**

### **P3374**

Recommended Practice for the Framework and Evaluation Methods of Audio-Driven Portraits Based on Artificial Intelligence

**Recommendation:** Approve new PAR until December 2027.



**There was a motion to approve the recommendation for P3374. The motion was approved, with 1 abstention.**

### **P3375**

Standard for Specification of Cloud-Side Deep Learning Artificial Intelligence Chips for Computer Vision

**Recommendation:** Approve new PAR until December 2027.

**There was a motion to approve the recommendation for P3375. In the absence of objection, the motion was approved.**

### **P3376**

Recommended Practice for Evaluating Artificial Intelligence Generated Content

**Recommendation:** Approve new PAR until December 2027.

**There was a motion to approve the recommendation for P3376. In the absence of objection, the motion was approved.**

### **P3378**

Standard for Framework and Process for Large-Scale Deep Learning Model Evaluation

**Recommendation:** Approve new PAR until December 2027.

**There was a motion to approve the recommendation for P3378. In the absence of objection, the motion was approved.**

### **P3379**

Standard for Compiler Interfaces of Artificial Intelligence

**Recommendation:** Approve new PAR until December 2027.

**There was a motion to approve the recommendation for P3379. The motion was approved, with 2 abstentions [Edwards, Myles].**

### **P7018**

Standard for Security and Trustworthiness Requirements in Generative Pretrained Artificial Intelligence (AI) Models

**Recommendation:** Approve new PAR until December 2027.

**There was a motion to approve the recommendation for P7018. The motion was approved, with 1 abstention [Myles].**

**IEEE Computer Society/Cybersecurity and Privacy Standards  
Committee**

**P3389**

Standard for Technical Framework of Runtime Application Self-Protection (RASP)

**Recommendation:** Approve new PAR until December 2027.

**There was a motion to approve the recommendation for P3389. The motion was approved, with 1 abstention [Myles].**

**P3390**

Standard for Security Management Capability Framework of Open Source Software Supply Chain for Software Providers

**Recommendation:** Approve new PAR until December 2027.

**There was a motion to approve the recommendation for P3390. The motion was approved, with 1 abstention [Myles].**

**IEEE Consumer Technology Society/Digital Finance and Economy  
Standards Committee**

**P3812.3**

Standard for Decentralized/Disintermediation Identity Framework Based on Distributed Ledger Technology (DLT)

**Recommendation:** Approve new PAR until December 2027.

**There was a motion to approve the recommendation for P3812.3. The motion was approved. [Vote: Yes=6, No=2 (Myles), Abstain=2 (Edwards)].**

**P3815**

Standard for Layer 2 Framework for Blockchain and Distributed Ledger Technologies (DLT)

**Recommendation:** Approve new PAR until December 2027.

**There was a motion to approve the recommendation for P3815. The motion was approved, with 1 abstention [Myles].**

**P3816**

Standard for Internet of Rights (IOR): Overview and Architecture

**Recommendation:** Approve new PAR until December 2027.

**There was a motion to approve the recommendation for P3816. The motion was approved, with 1 abstention [Myles].**

**P3819**

Standard for Metaverse Financial System – Reference Architecture and Technical Requirements

**Recommendation:** Approve new PAR until December 2027.

**There was a motion to approve the recommendation for P3819. The motion was approved, with 2 abstentions [Edwards, Myles].**

**P3820**

Standard for Explainability Capability Evaluation of Anti-Fraud Artificial intelligence (AI) Systems

**Recommendation:** Approve new PAR until December 2027.

**P3821**

Standard for Framework of Digital Intelligent Comprehensive Energy Service Station Management Systems

**Recommendation:** Approve new PAR until December 2027.

**There was a motion to approve the recommendation for P3821. The motion was approved, with 1 abstention [Myles].**

**IEEE Consumer Technology Society/Smart Devices Standards Committee**

**P3385**

Guide for Framework on Personal Information Protection in Smart Devices

**Recommendation:** Approve new PAR until December 2027.

**IEEE Engineering in Medicine and Biology Society/IEEE 11073 Standards Committee**

**P11073-10207-2017/Cor 1**

Health Informatics – Point-of-Care Medical Device Communication Part 10207: Domain Information and Service Model for Service-Oriented Point-of-Care Medical Device Communication – Corrigendum 1

**Recommendation:** Approve new PAR until December 2027.

## IEEE Intelligent Transportation Systems Society/Standards Committee

### P3377

Standard for In-Cabin Vehicle Sensing & Communication Networks

**Recommendation:** Approve new PAR until December 2027.

**There was a motion to approve the recommendation for P3377. In the absence of objection, the motion was approved.**

## IEEE Power and Energy Society/Transmission and Distribution

### P2030.14

Guide for Virtual Power Plant Functional Specification for Alternate and Multi-Source Generation

**Recommendation:** Approve new PAR until December 2027.

This item occurred at 11:00 a.m. CEST (UTC+2).

**There was a motion to approve the recommendation for P2030.14. In the absence of objection, the motion was approved.**

## IEEE Power Electronics Society/Standards Committee

### P3380

Recommended Practice for Alternating Current (AC) Power System Stability in Critical Facilities

**Recommendation:** Defer consideration of new PAR to the September 2023 NesCom meeting to allow time for the PAR submitters to adequately review NesCom member comments and consider updates to the PAR.

There was a motion to Disapprove P3380. The motion failed. [Vote: Yes=4, No=5, Abstain=2]

There was a motion to Defer consideration of new PAR to the September 2023 NesCom meeting.

There was a motion to Amend to add 'to allow time for the PAR submitters to adequately review NesCom member comments and consider updates to the PAR.'

The motion to Amend was approved without objection.

**There was a vote on the new main motion to Defer consideration of new PAR to the September 2023 NesCom meeting to allow time for the PAR submitters to adequately review NesCom member comments and consider updates to the PAR.**

**In the absence of objection, the motion was approved.**

***Action Item: Chair Wang to consider the appointment of a NesCom Member as a mentor for this PAR submittal.***

### **IEEE SA Board of Governors/International Committee on Electromagnetic Safety**

#### **P63480**

Standard for Assessment of Human Exposure to Electromagnetic Fields from Radiative Wireless Power Transfer Systems: Measurement and Computational Methods (Frequency Range of 30 MHz to 300 GHz)

**Recommendation:** Approve new PAR until December 2027.

### **IEEE SA Board of Governors/SCC20 – Test and Diagnosis for Electronic Systems**

#### **P1871.3**

Recommended Practice for Using JavaScript Object Notation (JSON) with XML-based Data Models for Test and Diagnosis for Electronic Systems

**Recommendation:** Approve new PAR until December 2027.

### **IEEE Signal Processing Society/Synthetic Aperture Standards Committee**

#### **P3382**

Standard for Performance Metrics for Magnetic Resonance Image Reconstruction

**Recommendation:** Approve new PAR until December 2027.

#### **P3383**

Standard for Performance Metrics for Integrated Sensing and Communication Systems

**Recommendation:** Approve new PAR until December 2027.

#### **P3384**

Standard for Vocabulary for Integrated Sensing and Communication Systems

**Recommendation:** Approve new PAR until December 2027.

## IEEE Vehicular Technology Society/Intelligent Transportation Systems

### P3381

Guide for Condition Evaluation of Electric Vehicle Supply Equipment (EVSE)

**Recommendation:** Approve new PAR until December 2027.

#### 4.4 PARs for the Revision of Standards

**There was a motion to approve the recommendations for P1667, P741, P1792, P1268, PC37,122.5, PC37,122.6, PC37.60, PC37.81, PC37.82, PC57.158, and P1671 based on the fact that preliminary votes have no objections to recommending approval and there are no unresolved NesCom member comments. The motion was approved, with Edwards abstaining on PC37.81.**

## IEEE Computer Society/Cybersecurity and Privacy Standards Committee

### P1667

Standard for Discovery, Authentication, and Authorization in Host Attachments of Storage Devices

**Recommendation:** Approve PAR for the revision of a standard until December 2027.

## IEEE Power and Energy Society/Nuclear Power Engineering

### P741

Standard for Criteria for the Protection of Class 1E Power Systems and Equipment in Nuclear Power Generating Stations

**Recommendation:** Approve PAR for the revision of a standard until December 2027.

### P1792

Recommended Practice for Nuclear Power Generating Station Preferred Power Supply Reliability

**Recommendation:** Approve PAR for the revision of a standard until December 2027.

## IEEE Power and Energy Society/Substations

### **P1268**

Guide for Safety in Installation and Operation of Mobile Substation Equipment

**Recommendation:** Approve PAR for the revision of a standard until December 2027.

### **PC37.122.5**

Guide for Moisture Measurement and Control in SF6 Gas-Insulated Equipment Rated above 1000 V

**Recommendation:** Approve PAR for the revision of a standard until December 2027.

### **PC37.122.6**

Recommended Practice for the Interface of New Gas-Insulated Equipment in Existing Gas-Insulated Substations Rated above 52 kV

**Recommendation:** Approve PAR for the revision of a standard until December 2027.

## **IEEE Power and Energy Society/Switchgear**

### **PC37.60**

International Standard – High-Voltage Switchgear and Controlgear – Part 111: Automatic Circuit Reclosers for Alternating Current Systems above 1000 V

**Recommendation:** Approve PAR for the revision of a standard until December 2027.

### **PC37.81**

Guide for Seismic Qualification of Class 1E Metal-Enclosed Power Switchgear Assemblies

**Recommendation:** Approve PAR for the revision of a standard until December 2027.

### **PC37.82**

Standard for the Qualification of Switchgear Assemblies for Class 1E Applications in Nuclear Power Generating Stations

**Recommendation:** Approve PAR for the revision of a standard until December 2027.

## **IEEE Power and Energy Society/Transformers**

### **PC57.12.36**

Standard Requirements for Liquid-Immersed Distribution Substation Transformers

**Recommendation:** Approve PAR for the revision of a standard until December 2027.

There was a motion to recommend Deferral to allow time for the Working Group Chair to address open NesCom comments. The motion failed. [Vote: Yes=4, No=5, Abstain=2]

**There was a motion to approve the recommendation for PC57.12.36. In the absence of objection, the motion was approved.**

### **PC57.158**

Guide for the Application of Tertiary and Stabilizing Windings in Power Transformers

**Recommendation:** Approve PAR for the revision of a standard until December 2027.

## **IEEE SA Board of Governors/SCC20 – Test and Diagnosis for Electronic Systems**

### **P1671**

Standard for Automatic Test Markup Language (ATML) for Exchanging Automatic Test Equipment and Test Information Via eXtensible Markup Language

**Recommendation:** Approve PAR for the revision of a standard until December 2027.

5 OLD BUSINESS

5.1 [Documents Jointly Developed with Another Organization and Indication of Applicable Style](#)

Chair Wang initiated discussion.

There was a motion to extend the NesCom meeting by 10 minutes. In the absence of objection, the motion was approved.

**There was a motion to create a new NesCom Convention:**

### **19. Document Jointly Developed with Another Organization**



**If a PAR had the intent to develop the document jointly with another organization, i.e., when the answer in 7.2 of the PAR is yes, the information of the used document style guide should be provided in the Additional Explanatory Notes field.**

**The motion was approved. [Vote: Yes=5, No=4, Abstain=1]**

6 NEW BUSINESS

6.1 Discussion RE: NesCom Convention 8

Due to a lack of meeting time, this item was deferred to the September 2023 NesCom meeting.

6.2 Discussion RE: NesCom Assessment of Non-Technical Standards Proposals

Due to a lack of meeting time, this item was deferred to the September 2023 NesCom meeting.

6.3 Discussion RE: PAR Withdrawal Requests as Part of the NesCom Consent Agenda

Due to a lack of meeting time, this item was deferred to the September 2023 NesCom meeting.

6.4 Proposal to Introduce 'Void' in the NesCom Agenda when a PAR is Removed from the Agenda

Due to a lack of meeting time, this item was deferred to the September 2023 NesCom meeting.

7 [NEXT MEETING](#)

The next meeting of NesCom will take place on 20 September 2023 as a virtual-only meeting.

8 ADJOURNMENT

The meeting was adjourned at 12:07 p.m. CEST (UTC+2).