

**IEEE SA STANDARDS BOARD (SASB)  
Meeting Minutes  
06 June 2024  
Teleconference/Webex  
9:00 a.m. – 12:00 p.m. ET (UTC-4)**

**Attendees**

**Chair:**

David Law

**Vice Chair:**

Jon Rosdahl

**Past Chair:**

Gary Hoffman

**Secretary:**

Alpesh Shah

**Members:**

Sara Biyabani

Ted Burse

Stephen Dukes

Doug Edwards

Travis Griffith

Guido Hiertz

Ron Hotchkiss

Hao Hu

Yousef Kimiagar

Howard Li

Xiaohui Liu

Haiying (John) Lu

Kevin Lu

Hiroshi Mano

Paul Nikolich [TAB Rep.]

Robby Robson

Lei Wang

Keith Waters

Sha Wei

Philip Winston  
Don Wright

**Members Absent:**

Joe Koepfinger, Member Emeritus

**IEEE Staff:**

Christy Bahn  
Adrien Bastos  
Teresa Belmont  
Ahsaki Benion  
Hermann Brand  
Kim Breitfelder  
Matthew Ceglia  
Sri Chandrasekaran  
Susan England-Lutz  
Karen Evangelista  
Josh Gay  
Jonathan Goldberg  
Lloyd Green  
Jodi Haasz  
Yvette Ho Sang  
Patrycja Jarosz  
Soo Kim  
Michael Kipness  
Irene Kitsara  
Vanessa Lalitte  
Juanita Lewis  
Jiajia Liu  
Karen McCabe  
Suzanne Merten  
Erin Morales  
Karen Mulberry  
Mary Lynne Nielsen  
Tania Olabi-Colon  
Christian Orlando  
Moirra Patterson  
Shana Pepin  
Dave Ringle, Recording Secretary  
Pat Roder  
Stacey Rossado  
Jennifer Santulli

Rosalinda Saravia  
Rudi Schubert  
Ravi Subramaniam  
Tom Thompson  
Meng Zhao

**IEEE Outside Legal Counsel:**

Claire Topp – Dorsey & Whitney LLP

**Guests:**

Edward Au  
Xiaofeng (Alfred) Chen  
Nehad El-Sherif  
James Gilb  
Latonia Gordon  
Tyler Jaynes  
Thomas Koshy  
Joseph Levy  
Johnny Lin  
Meng Lu  
Jim Matthews  
Daleep Mohla  
Glenn Parsons  
Annette Reilly  
Dan Sabin  
Naghm Saeed  
Dorothy Stanley  
Donnie Swing  
Barry Tilton  
Mehmet Ulema

[NOTE: Some presentations are available to SASB Members in the IEEE SA [Standards Board document repository](#), in the Files & Discussions area, in the June 2024 folder.]

**1 Call to Order**

SASB Chair David Law called the meeting to order at 9:03 a.m. ET (UTC-4).

Chair Law welcomed everyone to the meeting.

**2 Introductions**

There was a round of introductions by the SASB Members and guests.

Dave Ringle read the names of the attending IEEE staff members.

It was noted that the meeting was quorate.

Chair Law noted the new GEPS representatives since the last SASB meeting.

### **3 Agenda**

#### 3.1 Approval of [Agenda](#)

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

#### 3.2 Consent Agenda

##### 3.2.1 Approval of 21 March 2024 SASB Meeting [Minutes](#)

##### 3.2.2 AudCom Recommendations

#### Standards Committee P&Ps

##### Accepted (*standards work authorized*):

CTS/BSC	IEEE Consumer Technology Society/Blockchain Standards Committee
PE/PSIM	IEEE Power and Energy Society/Power System Instrumentation and Measurements
PE/AMPS	IEEE Power and Energy Society/Analytic Methods for Power Systems

##### Conditionally Accepted (*standards work authorized*):

CTS/ETSC	IEEE Consumer Technology Society/Emerging Technology Standards Committee
IAS/PCI	IEEE Industry Applications Society/Petroleum & Chemical Industry
IM/CM&FDI	IEEE Instrumentation and Measurement Society/TC3 – Condition Monitoring & Fault Diagnosis Instrument

##### 3.2.3 NesCom Recommendations

**Modified PARs:**

**IEEE Instrumentation and Measurement Society/TC39 –  
Measurements in Power Systems**

**P61869-21**

Uncertainty Evaluation in the Calibration of Instrument Transformers

**Recommendation:** Approve modified PAR.

**IEEE Power and Energy Society/Energy Storage & Stationary Battery  
Committee**

**P1188**

Recommended Practice for Maintenance, Testing, and Replacement of Valve-Regulated Lead-Acid (VRLA) Batteries for Stationary Applications

**Recommendation:** Approve modified PAR.

**IEEE Power and Energy Society/Nuclear Power Engineering  
Committee**

**P1205**

Guide for Assessing, Monitoring, and Mitigating Aging Effects on Electrical Equipment Used in Nuclear Facilities

**Recommendation:** Approve modified PAR.

**IEEE Vehicular Technology Society/High Speed Train and Maglev  
Standards Committee**

**P3351**

Standard for Levitation Systems of Electromagnetic Suspension-Type Maglev Vehicles

**Recommendation:** Approve modified PAR.

**P3352**

Standard for Test Specification of Short Primary Maglev Vehicles

**Recommendation:** Approve modified PAR.

**Extension Requests:**

**IEEE Instrumentation and Measurement Society/TC39 –  
Measurements in Power Systems**

**P61869-21**

Recommended Practice for Uncertainty Evaluation in the Calibration of Instrument Transformers

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

**IEEE Power and Energy Society/Switchgear**

**PC37.20.1**

Standard for Metal-Enclosed Low-Voltage (1000 Vac and below, 3200 Vdc and below) Power Circuit Breaker Switchgear

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

**PC37.23**

Standard for Metal-Enclosed Bus

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

**PC37.100.2**

Standard for Common Requirements for Testing of AC Capacitive Current Switching Devices over 1000 V

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

**New PARs:**

**IEEE Communications Society/Mobile Communication Networks Standards Committee**

**P1955**

Standard for 6G Empowering Robotics: Use Case Scenarios, Requirements, Architectural Impact, and Technical Assumptions

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

**IEEE Communications Society/Unmanned Aerial Vehicles Communications Standards Committee**

**P1936.7**

Standard for Mesh Deployment of Multi-Rotor Unmanned Aircraft Systems for Inspection of Overhead Transmission and Distribution, and Outdoor Substation Facilities

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

**P1936.8**

Standard for Monitoring of Photovoltaic Power Stations Using Unmanned Aircraft Systems

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

**P1936.11**

Standard for Requirements of Laying Out Pilot Ropes by Unmanned Aircraft Systems for Overhead Power Line Installations

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

**P1936.12**

Standard for Verification of Pilot Line Deployment Devices Based on Unmanned Aircraft Systems for Overhead Power Line Installations

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

**P1936.13**

Recommended Practice for Image Collection during the Inspection of Overhead Distribution Lines by Unmanned Aircraft Systems

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

**P1936.14**

Standard for Multi-Spectral Scanning of Overhead Transmission Lines by Unmanned Aircraft Systems

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

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

**P1948.1**

Standard for Artificial Intelligence Based Network Applications in 5G and Beyond Mobile Networks

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

**IEEE Computer Society/Blockchain and Distributed Ledgers**

**P3234**

Standard for Blockchain-Based Carbon Trading Data Format Specification

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

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

**P3477**

Standard for Evaluation Method for Anonymization Effectiveness in Data Sharing

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

**IEEE Computer Society/Software & Systems Engineering Standards Committee**

**P29119-8**

Software and Systems Engineering – Software Testing – Part 8: Model-Based Testing

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

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

**P7100**

Standard for Measurement of Environmental Impacts of Artificial Intelligence Systems

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

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

**P3826**

Standard for Technical Requirements for Large Language Models for Finance

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

**IEEE Consumer Technology Society/Metaverse Standards Committee**

**P2048.202**

Standard for Security Specifications of Blockchain-Based Metaverse Data

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

**P2048.203**

Standard for Security Specifications of Blockchain-Based Metaverse Interconnection

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



**P2048.204**

Standard for Security Specifications of Blockchain-Based Metaverse Digital Commodity Circulation

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

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

**P3487**

Standard for Perceived Image Quality Consistency of Multi-Camera Consumer Devices and Systems

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

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

**P3493.1**

Standard Framework for Secure, Compliant, Coordinated, and Inclusive Healthcare Data Recycling: Cancer Care

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

**IEEE Industrial Electronics Society/Industrial Electronics Society Standards Committee**

**P3464**

Guide for Test Methods for the Static and Dynamic Performance and Efficiency of the Proton Exchange Membrane Fuel Cell Cogeneration Systems under Feedback Control

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

**IEEE Magnetics Society/Magnetics Society Standards Committee**

**P3387**

Guide for Contactless Current Measurement for High-Voltage (4.76 kV to 800 kV) Multi-Phase Multi-Core Power Cables Based on Magnetic Field Sensing

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

**P3465**

Standard for Magnetoresistive Immunity Verification of Magnetoresistive Random Access Memory

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

### IEEE Oceanic Engineering Society/Standards Committee

#### **P3501**

Recommended Practice for the Development of Digital Twins of the Earth

**Recommendation:** Defer new PAR until September NesCom meeting.

### IEEE Power and Energy Society/Insulated Conductors

#### **P48404.2**

Standard for Terminations and Joints for Extruded and Laminated Dielectric Shielded Cables Rated 69 kV through 500 kV

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

### IEEE Power and Energy Society/Switchgear

#### **PC37.20.7.1**

Guide for Application, Installation, and Use of Switchgear Rated up to 52 kV Tested for Internal Arcing Faults

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

### IEEE SA Board of Governors/Entity Collaborative Activities Governance Board

#### **P3302**

Moving Picture, Audio and Data Coding by Artificial Intelligence (MPAI)  
Technical Specification – Context-Based Audio Enhancement (MPAI-CAE)  
V2.1

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

#### **P3308**

Moving Picture, Audio and Data Coding by Artificial Intelligence (MPAI)  
Object and Scene Description (OSD) v1.1

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

### **PARs for the Revision of Standards:**

### IEEE Aerospace and Electronic Systems Society/Radar Systems Panel

#### **P521**

Standard Letter Designations for Radar-Frequency Bands

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

### **IEEE Computer Society/Microprocessor Standards Committee**

#### **P754**

Standard for Floating-Point Arithmetic

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

#### **P1722**

Standard for a Transport Protocol for Time-Sensitive Applications in Bridged Local Area Networks

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

### **IEEE Power and Energy Society/Nuclear Power Engineering Committee**

#### **P1707**

Recommended Practice for the Investigation of Events at Nuclear Facilities

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

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

#### **PC37.62**

Standard for Pad-Mounted Dry Vault, Submersible, and Overhead Fault Interrupters for Alternating Current Systems up to and including 38 kV

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

### **IEEE Power and Energy Society/Transmission and Distribution**

#### **P1250**

Guide for Identifying and Improving Voltage Quality in Power Systems

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

#### **P2845**

Standard for Testing and Evaluating the Dielectric Performance of Celebratory Balloons in Contact with Overhead Power Distribution Lines Rated up to 38 kV System Voltage

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

### **IEEE SA Board of Governors/Distributed Generation, Energy Storage and Interoperability Standards Committee**

#### **P1547.7**

Guide for Conducting Impact Studies for Distributed Energy Resource Interconnection

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

#### 3.2.4 RevCom Recommendations

#### **New:**

### **IEEE Communications Society/Mobile Communication Networks Standards Committee**

#### **P2061/Draft 1.1**

IEEE Draft Standard for Architecture for Low Mobility Energy Efficient Network for Affordable Broadband Access

**Recommendation:** APPROVE

### **IEEE Computer Society/Knowledge Engineering Standards Committee**

#### **P2807.1/Draft 2**

IEEE Draft Standard for Technical Requirements and Evaluation of Knowledge Graphs

**Recommendation:** APPROVE

### **IEEE Computer Society/LAN/MAN Standards Committee**

#### **P802.1Qdx/Draft 2.1**

IEEE Draft Standard for Local and Metropolitan Area Networks – Bridges and Bridged Networks

Amendment 39: YANG Data Models for the Credit-Based Shaper

**Recommendation:** APPROVE

### **IEEE Computer Society/Smart Manufacturing Standards Committee**

#### **P3145/Draft 2**

IEEE Draft Standard for General Technical Requirement of Auxiliary Warehouse in Smart Factory

**Recommendation:** APPROVE

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

#### **P2796/Draft 3**

IEEE Draft Standard for Framework for the Internet of Food (IoF)

**Recommendation:** APPROVE

#### **P3158/Draft 3**

IEEE Draft Standard for Trusted Data Matrix System Architecture

**Recommendation:** APPROVE

#### **P3188/Draft 1.3**

IEEE Draft Standard for Virtual E-card Platform

**Recommendation:** APPROVE

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

#### **P2933/Draft 3.1**

IEEE Draft Standard for Clinical Internet of Things (IoT) Data and Device Interoperability with TIPPSS – Trust, Identity, Privacy, Protection, Safety, Security

**Recommendation:** APPROVE

### **IEEE Industry Applications Society/Petroleum & Chemical Industry**

#### **P62395-2/Draft 6**

IEC/IEEE Draft Standard – Electrical Resistance Trace Heating Systems for Industrial and Commercial Applications Part 2: Application Guide for System Design, Installation and Maintenance

**Recommendation:** APPROVE

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

**PC37.20.9a/Draft 5**

IEEE Draft 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

**Revision:**

**IEEE Industry Applications Society/Petroleum & Chemical Industry**

**P62395-1/Draft 8**

IEEE/IEC Draft Standard – Electrical Resistance Trace Heating Systems for  
Industrial and Commercial Applications – Part 1: General and Testing  
Requirements

**Recommendation:** APPROVE

**IEEE Power and Energy Society/Electric Machinery**

**P1665/Draft 23**

IEEE Draft Guide for the Rewind of Synchronous Generators, 50 Hz and 60  
Hz, Rated 1 MVA and above

**Recommendation:** APPROVE

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

**PC37.118.2/Draft 3.30**

IEEE Draft Standard for Synchrophasor Data Transfer for Power Systems

**Recommendation:** APPROVE

**IEEE Power and Energy Society/Switchgear**

**PC37.20.6/Draft 6**

IEEE Draft Standard for 4.76 kV to 48.3 kV Rated Ground and Test Devices  
Used in Enclosures

**Recommendation:** APPROVE

**IEEE Power and Energy Society/Transformers**

**PC57.12.35/Draft 5.5**

IEEE Draft Standard for Information Coding for Distribution Transformers and Step-Voltage Regulators

**Recommendation:** APPROVE

**4 SASB Standing Committee Reports**

4.1 Audit Committee ([AudCom](#))

Kevin Lu, AudCom Chair, reported.

4.2 New Standards Committee ([NesCom](#))

Lei Wang, NesCom Chair, reported.

4.3 Procedures Committee ([ProCom](#))

Ted Burse, ProCom Chair, reported.

***Action Item: Add Keith Waters to the Ad Hoc reviewing the SASB OpMan RE: External Liaisons***

***Action Item: Add Doug Edwards and Daleep Mohla to the Ad Hoc reviewing the SASB OpMan RE: Standards Promotion and Social Media***

**There was a motion (from ProCom):**

**Move to approve updates to the SASB OpMan RE: Meeting Fees.**

**IEEE SA Standards Board Operations Manual**

**5.3.5 Meeting expenses**

A Standards Committee or Working Group may choose to set a meeting fee as a means of offsetting the costs of meeting administration, logistics, and other similar costs of **IEEE** standards development **meetings**.

The Standards Committee or Working Group assumes the entire risk of deficit; i.e., if a deficit is incurred in the operation of a meeting, that deficit is chargeable against the Standards Committee or Working Group, as appropriate. Conversely, if a surplus results from the operation, the surplus will be credited to the Standards Committee or Working Group, as appropriate.

**5.3.5.1 Taxes on meeting expenses**

Standards Committees or Working Groups shall collect as a part of standards development meeting fees any applicable indirect and direct tax payments for the meetings. The Standards Committee or Working Group shall coordinate with IEEE SA to determine applicable taxes to include in registration fees for remittance to appropriate tax authorities. The relevant tax payments shall be covered by funds in the Standards Committee or Working Group Concentration Banking Account.

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

4.4 Standards Review Committee ([RevCom](#))

Keith Waters, RevCom Chair, reported.

4.4.1 [P3307](#)

Keith Water, RevCom Chair, stated the RevCom recommendation.

### **IEEE SA Board of Governors/Entity Collaborative Activities Governance Board**

#### **P3307/Draft 1**

IEEE Draft Standard – Adoption of Moving Picture, Audio and Data Coding by Artificial Intelligence (MPAI) Technical Specification Connected Autonomous Vehicle – Architecture (CAV) Version 1

**RevCom Recommendation:** APPROVE [10=yes, 2=no, (Kimiagar, Nikolich), 2=abstain (Liu, Wolfman)]

**In the absence of objection, the SASB approved P3307/Draft 1.  
[Recused: Dukes]**

## **5 Old Business**

None.

## **6 Informational Reports**

6.1 CAG [Report](#)

Don Wright, SASB Liaison to the CAG, reported.

6.2 IEEE SA President's [Report](#)



Jim Matthews, IEEE SA President, reported.

6.3 SASB Chair's [Report](#)

Chair Law reported.

**7 New Business**

**8 [Next Meeting](#)**

The next SASB meeting will be scheduled for 26 September 2024 and will be held in Athens, Greece.

**9 Draft 2025 IEEE SA Governance Calendar**

Chair Law introduced the [venues](#) recommended by the IEEE SA BOG.

There was extensive discussion.

**There was a motion:**

**For the March 2025 SASB meeting series, Primary Venue=Seoul, Secondary Venue=New Delhi**

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

**There was a motion:**

**For the June 2025 SASB meeting series, Primary Venue=Milan, Secondary Venue=Vienna**

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

Chair Law recognized Mary Lynne Nielsen, who is retiring from IEEE at the end of June 2024 after 35 years of service.

**There was a resolution, which was approved by acclamation:**

Whereas Mary Lynne Nielsen has announced her retirement in June 2024,

Whereas Mary Lynne has served IEEE for 35 years,

Whereas Mary Lynne has been instrumental in many successful projects,

Be it Resolved that the IEEE SA Standards Board acknowledges and thanks Mary Lynne Nielsen for 35 years of service and wishes her the best on her new adventures.

## **10 SASB Resolutions**

None.

The SASB entered Executive Session at 11:38 a.m. ET (UTC-4).

## **11 Executive Session Items**

11.1 Report from Ad Hoc RE: Standards Information Development Activities

Executive Session concluded at 11:48 a.m. ET (UTC-4).

### Report Out of Executive Session

A report from the Ad Hoc RE: Standards Development Activities was received. The work of the Ad Hoc is ongoing.

## **12 Adjournment**

There being no further business, the meeting was adjourned at 11:49 a.m. ET (UTC-4).