IEEE SA Standards Board (SASB) DRAFT Meeting Minutes

16 June 2021
12:30 p.m. – 4:00 p.m. UTC
Teleconference/Webex

Attendees

Chair:
Gary Hoffman

Vice Chair:
Jon Rosdahl

Past Chair:
John Kulick

Secretary:
Konstantinos Karachalios

Members:
Edward Addy [TAB Rep.]
Doug Edwards
Ramy Fathy
Travis Griffith
Thomas Koshy
David Law
Howard Li
Johnny Lin
Kevin Lu
Daleep Mohla
Damir Novosel
Annette Reilly
Dorothy Stanley
Mehmet Ulema
Lei Wang
Keith Waters
Karl Weber
Sha Wei
Howard Wolfman
Daidi Zhong

**Members Absent:**
Chenhui Niu

Joe Koepfinger, Member Emeritus

**IEEE Staff:**
Christy Bahn
Adrien Barmaksiz
Kim Breitfelder
Mathew Ceglia
Sri Chandrasekaran
Karen Evangelista
Jonathan Goldberg
Jodi Haasz
Yvette Ho Sang
Soo Kim
Michael Kipness
Vanessa Lalitte
Juanita Lewis
Kristin Little
Jiajia Liu
Kelly Lorne
Erin Morales
Ashley Moran
Adam Newman
Mary Lynne Nielsen
Christian Orlando
Maria Palombini
Moira Patterson
Dan Perez
Dave Ringle, Recording Secretary
Pat Roder
Jennifer Santulli
Rudi Schubert
Tom Thompson
Michelle Turner
Lisa Weisser
Malia Zaman

**IEEE Outside Legal Counsel:**
1  Call to Order

Chair Hoffman called the meeting to order at 12:34 p.m. UTC.

2  Introductions
There was a round of introductions by all present. It was noted that the meeting was quorate.

### 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 25-26 March 2021 SASB Meeting Minutes**

#### 3.2.2 AudCom Recommendations

**Standards Committee P&Ps**

*Accepted (standards work authorized)*:

- APS/SC Antennas and Propagation Society/Standards Committee
- CEDA/SC Council on Electronic Design Automation/Standards Committee
- IM/WM&A Instrumentation and Measurement Society/Waveform Generation Measurement and Analysis
- SEN/SC Sensors Council/Standards Committee

**New Standards Committee Recognition with Accepted P&Ps**

Motion: Recommend that the SASB recognize the Council on Electronic Design Automation/Standards Committee, to be abbreviated as (CEDA/SC), as an official Standards Committee, in accordance with IEEE SASB Bylaws 5.2.2.

#### 3.2.3 NesCom Recommendations

**Withdrawal Requests:**

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

**P1914.3a**
Standard for Radio over Ethernet Encapsulations and Mappings
Amendment 1: Encapsulation Enhancements and Elaborations, Additional Operation, Administration, and Maintenance (OAM) Functions, Management Model, Clarification on Relationships between Parameters

**Recommendation:** Approve PAR withdrawal

**Modified PARs:**

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

**P11073-10700**
Health Informatics – Device Interoperability – Part 10700: Point-of-Care Medical Device Communication – Standard for Base Requirements for Participants in a Service-Oriented Device Connectivity (SDC) System

**Recommendation:** Approve modified PAR

**IEEE Instrumentation and Measurement Society/TC9 – Sensor Technology**

[This item was removed from the consent agenda. See item 4.2.1.]

**P1588d**
Standard for a Precision Clock Synchronization Protocol for Networked Measurement and Control Systems

**Amendment:** Guidelines for Selecting and Operating a Key Management System

**Recommendation:** Approve modified PAR

**Extension Requests:**

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

**P2465**
Recommended Practice for Pulse-Type Partial Discharge Measurements on Individual Stator Coils and Bars

**Recommendation:** Approve request for an extension until December 2023

**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 request for an extension until December 2024

**IEEE Power and Energy Society/Power System Instrumentation and Measurements**

**P2426**
Guide for Field Measurement of Fast-Front and Very Fast-Front Overvoltages in Electric Power System

**Recommendation:** Approve request for an extension until December 2023

**IEEE Power and Energy Society/Transformers**

**PC57.91**
Guide for Loading Mineral-Oil-Immersed Transformers and Step-Voltage Regulators

**Recommendation:** Approve request for an extension until December 2023

**PC57.113**
Recommended Practice for Partial Discharge Measurement in Liquid-Filled Power Transformers and Shunt Reactors

**Recommendation:** Approve request for an extension until December 2023

**PC57.142**
Guide to Describe the Occurrence and Mitigation of Switching Transients Induced by Transformers, Switching Device, and System Interaction

**Recommendation:** Approve request for an extension until December 2023

**IEEE-SASB Coordinating Committees/SCC21 – Fuel Cells, Photovoltaics, Dispersed Generation, and Energy Storage**

**P2030.4**
Guide for Control and Automation Installations Applied to the Electric Power Infrastructure

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

New PARs:

**IEEE Computer Society/Learning Technology**

**P2997**
Standard for Enterprise Learner Record

**Recommendation:** Approve new PAR until December 2025
IEEE Computer Society/Software & Systems Engineering Standards Committee

**P2995**
Trial-Use Standard for a Quantum Algorithm Design and Development
**Recommendation:** Approve new PAR until December 2025

**P2998**
Recommended Practice for Building Accessible Applications
**Recommendation:** Approve new PAR until December 2025

IEEE Consumer Technology Society/Standards Committee

**P2861.4**
Standard for Game Voice Enhancement for Mobile Gaming
**Recommendation:** Approve new PAR until December 2025

IEEE Industry Applications Society/Petroleum & Chemical Industry

**P1017.4**
Recommended Practice for Testing and Rating of Electrical Submersible Pump Motors
**Recommendation:** Approve new PAR until December 2025

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

**PN42.46**
**Recommendation:** Approve new PAR until December 2025

**PN42.59**
Standard for Measuring the Imaging Performance of Millimeter-Wave Systems for Security Screening of Humans
**Recommendation:** Approve new PAR until December 2025

IEEE Photonics Society/Standards Committee

**P2999**

**Recommendation:** Approve new PAR until December 2025

**P3101**
Standard for Fiber Optic Distributed Acoustic Sensing (DAS) Interrogator Standard – Terminology and Definitions

**Recommendation:** Approve new PAR until December 2025

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

**PC93.5-2021/Cor 1**
Standard for Power Line Carrier Transmitter/Receiver Equipment Used to Transfer Discrete Teleprotection Signals

Corrigendum: To add Table 3 which is referenced and required but missing in IEEE Std C93.5

**Recommendation:** Approve new PAR until December 2025

**IEEE Power and Energy Society/Surge Protective Devices/Low Voltage**

**PC62.42.5**

**Recommendation:** Approve new PAR until December 2025

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

**P1048b**
Guide for Protective Grounding of Power Lines

Amendment: Differentiating the Fabric Carrier Mat and the Rigid Carrier Mat

**Recommendation:** Approve new PAR until December 2025

**PARs for the Revision of Standards:**

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

**P1914.3**
Standard for Radio over Ethernet Encapsulations and Mappings
**Recommendation:** Approve PAR for the revision of a standard until December 2025

**IEEE Computer Society/Data Compression Standards Committee**

**P1857**
Standard for Advanced Audio and Video Coding  
**Recommendation:** Approve PAR for the revision of a standard until December 2025

**P1857.3**
Standard for System of Advanced Audio and Video Coding  
**Recommendation:** Approve PAR for the revision of a standard until December 2025

**IEEE Computer Society/Simulation Interoperability Stds Organization/Std Activity Committee**

**P1278.1**
Standard for Distributed Interactive Simulation – Application Protocols  
**Recommendation:** Approve PAR for the revision of a standard until December 2025

**IEEE Power and Energy Society/Switchgear**

[This item was removed from the consent agenda. See item 4.2.2.]

**PC37.20.6**
Standard for 4.76 kV to 48.3 kV Rated Ground and Test Devices Used in Enclosures  
**Recommendation:** Approve PAR for the revision of a standard until December 2025

**PC37.63**
Standard Requirements for Overhead, Pad-Mounted, Dry-Vault, and Submersible Automatic Line Sectionalizers for Alternating Current Systems up to 38 kV  
**Recommendation:** Approve PAR for the revision of a standard until December 2025

**PC37.74**
Standard Requirements for Subsurface, Vault, and Padmounted Load-Interrupter Switchgear and Fused Load-Interrupter Switchgear for Alternating Current Systems up to 38 kV

**Recommendation:** Approve PAR for the revision of a standard until December 2025

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

**P1564**
Guide for Voltage Sag Indices

**Recommendation:** Approve PAR for the revision of a standard until December 2025

**PC135.80**
Standard for Fasteners for Overhead Line Construction

**Recommendation:** Approve PAR for the revision of a standard until December 2025

**Standards Committee Changes:**

Current Standards Committee for the following standard: EDS/MEMS; New Standards Committee: BOG/SESCOM

**2700** Standard for Sensor Performance Parameter Definitions

Current Standards Committee for the following standard: VT/RTSC; New Standards Committee: VT/CBTC&SIG

**1474.4** Recommended Practice for Functional Testing of a Communications-Based Train Control (CBTC) System

Current Standards Committee for the following PARs: VT/RTSC; New Standards Committee: VT/CBTC&SIG

**P1474.1** Standard for Communications-Based Train Control (CBTC) Performance and Functional Requirements

**P1474.2** Standard for User Interface Requirements in Communications-Based Train Control (CBTC) Systems

**P1474.3** Recommended Practice for Communications-Based Train Control (CBTC) System Design and Functional Allocations
Current Standards Committee for the following standards: VT/RTSC; New Standards Committee: VT/TPSSC

1653.4 Standard for DC Traction Power System Field Testing and Acceptance Criteria for System Applications up to 1500 V DC Nominal

1887 Guide for Wayside Energy Storage Systems for DC Traction Applications

1653.1 Standard for Traction Power Rectifier Transformers for Substation Applications up to 1500 V DC Nominal Output

1653.5 Recommended Practice for Thyristor Controlled Rectifiers for Traction Power Substation Applications

2720 Guide for Rail Potential Management for DC Electrification Systems

1653.3 Guide for Rail Transit Traction Power Systems Modeling

1653.2 Standard for Uncontrolled Traction Power Rectifiers for Substation Applications up to 1500 V DC Nominal Output

1653.6 Recommended Practice for Grounding of DC Equipment Enclosures in Traction Power Distribution Facilities

Current Standards Committee for the following PARs: VT/RTSC; New Standards Committee: VT/TPSSC

P2853 Recommended Practice for Grounding of Traction Power Systems

P1653.1 Standard for Traction Power Rectifier Transformers for Substation Applications up to 1500 V DC Nominal Output

P1884 Guide for Stray Current/Corrosion Mitigation for DC Rail Transit Systems

3.2.4 RevCom Recommendations

New:
IEEE Communications Society/Access and Core Networks Standards Committee

P1904.2/Draft 3.2
IEEE Draft Standard for Control and Management of Virtual Links in Ethernet-Based Subscriber Access Networks
Recommendation: APPROVE

IEEE Computer Society/LAN/MAN Standards Committee

P802.3cp/Draft 3.2
IEEE Draft Standard for Ethernet Amendment 14: Bidirectional 10 Gb/s, 25 Gb/s, and 50 Gb/s Optical Access PHYs
Recommendation: APPROVE

P802.3ct/Draft 3.4
IEEE Draft Standard for Ethernet Amendment: Physical Layers and Management Parameters for 100 Gb/s Operation over DWDM (Dense Wavelength Division Multiplexing) Systems
Recommendation: APPROVE

IEEE Computer Society/Software & Systems Engineering Standards Committee

P7000/Draft 7
IEEE Draft Model Process for Addressing Ethical Concerns during System Design
Recommendation: APPROVE

IEEE Computer Society/Standards Activities Board

P2830/Draft 3
IEEE Draft Standard for Technical Framework and Requirements of Trusted Execution Environment-Based Shared Machine Learning
Recommendation: APPROVE

IEEE Engineering in Medicine and Biology Society/Standards Committee

P1752.1/Draft 3
IEEE Draft Standard for Mobile Health Data
Recommendation: APPROVE

IEEE Power and Energy Society/Power System Communications and Cybersecurity

PC37.238a/Draft 2.3
IEEE Draft Standard Profile for Use of IEEE 1588 Precision Time Protocol in Power System Applications
Amendment 1: Adding a Type-Length-Value (TLV) to indicate the latest International Earth Rotation Service (IERS)-Specified Universal Time Coordinated (UTC) Leap Second Event
Recommendation: Disapprove with the remedy to conduct a recirculation ballot. David Law and Philip Winston were appointed as mentors.

IEEE Power and Energy Society/Substations

PC37.122.7/Draft 4.3
IEEE Draft Guide for Field Testing of Gas-Insulated Substations Rated above 52 kV
Recommendation: APPROVE

IEEE Power and Energy Society/Switchgear

PC37.04-2018/Cor 1/Draft 1.4
IEEE Draft Standard for Ratings and Requirements for AC High-Voltage Circuit Breakers with Rated Maximum Voltage Above 1000 V – Corrigendum 1
Recommendation: APPROVE

IEEE Power and Energy Society/Transmission and Distribution

P1806/Draft 6.1
IEEE Draft Guide for Reliability-Based Placement of Overhead and Underground Switching and Overcurrent Protection Equipment up to and Including 38 kV
Recommendation: APPROVE

P2745.2/Draft 5.1
Recommendation: APPROVE

IEEE SA Board of Governors/Corporate Advisory Group
**P2839/Draft 1.3**  
IEEE Draft Recommended Practice for Vital Computer for Rail Safety-Related Application  
**Recommendation:** APPROVE

**P2857/Draft 3**  
IEEE Draft Standard for Wireless Smart Utility Network Field Area Network (FAN)  
**Recommendation:** APPROVE

**P2977/Draft 1**  
IEEE Draft Standard for Adoption of MIPI Alliance Specification for A-PHY Interface (A-PHY) Version 1.0  
**Recommendation:** APPROVE

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

**P802.15.9/Draft 06**  
IEEE Draft Standard for Transport of Key Management Protocol (KMP) Datagrams  
**Recommendation:** APPROVE

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

**P1349/Draft 9.0**  
IEEE Draft Guide for the Application of Electric Machines in Zone 2 and Class I, Division 2 Hazardous (Classified) Locations  
**Recommendation:** APPROVE

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

**P1725/Draft 1**  
IEEE Draft Standard for Rechargeable Batteries for Cellular Telephones  
**Recommendation:** APPROVE

**IEEE Power and Energy Society/Substations**

**PC37.122/Draft 9**
IEEE Draft Standard for High Voltage Gas-Insulated Substations Rated above 52 kV

**Recommendation:** APPROVE

**IEEE-SASB Coordinating Committees/SCC14 – Quantities, Units, and Letter Symbols**

**P280/Draft 25**
IEEE Draft Standard Letter Symbols for Quantities Used in Electrical Science and Electrical Engineering

**Recommendation:** APPROVE

**IEEE-SASB Coordinating Committees/SCC21 – Fuel Cells, Photovoltaics, Dispersed Generation, and Energy Storage**

**P1562/Draft 10**
IEEE Draft Recommended Practice for Sizing of Stand-Alone Photovoltaic (PV) Systems

**Recommendation:** APPROVE

### 4  SASB Standing Committee Reports

#### 4.1  Audit Committee (AudCom)

Kevin Lu, AudCom Chair, reported.

Kevin thanked Peter Balma and Doug Edwards for their participation and contributions to the Ad Hoc on Improved Opportunities for AudCom Member Review of Materials.

#### 4.2  New Standards Committee (NesCom)

Dorothy Stanley, NesCom Chair, reported.

##### 4.2.1  P1588d

Dorothy Stanley, NesCom Chair, introduced the NesCom recommendation:

**Modified PARs**

**IEEE Instrumentation and Measurement Society/TC9 – Sensor Technology**
Annette Reilly asked for a slide to be shown.

After discussion, there was a motion to Call the Question. The motion was approved in the absence of objection.

There was a vote on the NesCom recommendation. The NesCom recommendation to approve the P1588d Modified PAR was approved. [Vote: Yes=15; No=3; Abstain=3]

4.2.2 PC37.20.6

Dorothy Stanley, NesCom Chair, introduced the NesCom recommendation:

**PARs for the Revision of Standards**
**IEEE Power and Energy Society/ Switchgear**

**PC37.20.6**
Standard for 4.76 kV to 48.3 kV Rated Ground and Test Devices Used in Enclosures

**Recommendation:** Approve PAR for the revision of a standard until December 2025 (4 approve, 3 disapprove [Fathy, Reilly, Wright], 3 abstain [Hong, Weber, Wei], 1 recuse [Edwards])

Annette Reilly asked for a slide to be shown.

There was a Motion to amend the Scope text in the PAR:

There may be more complicated G&T devices that may include current and/or voltage transformers, glow tubes, or other accessory components. These more complex devices are not within the scope of this standard. This standard can be used as a for guidance for their development but additional testing and interlocking may be required. Manufacturers should be consulted for the availability and ratings of these types of devices.
There was a vote on the motion to amend. The motion was approved. [Vote: Yes=19; No=2]

There was motion to postpone consideration of the PC37.20.6 PAR submittal until the September SASB meeting. This motion was unanimously disapproved.

After discussion, there was a motion to Call the Question. The motion was approved in the absence of objection.

There was a vote on the updated main motion, which was to now Approve the PAR as amended (see yellow above). The motion failed. [Vote: Yes=5; No=11; Abstain=5]

**There was a motion to defer consideration of the PC37.20.6 PAR to the September NesCom agenda.**

After discussion, there was a motion to Call the Question. The motion was approved in the absence of objection.

**The motion to defer the PAR was approved. [Vote: Yes=12; No=6; Abstain=3]**

4.3 Procedures Committee (ProCom)

John Kulick, ProCom Chair, reported.

4.4 Standards Review Committee (RevCom)

Travis Griffith, RevCom Chair, reported.

5 Standards Coordinating Committee Reports

5.1 SCC Coordinator’s Report

Mehmet Ulema, SCC Coordinator, reported.

**There was a motion to accept the submitted report from SCC14. In the absence of objection, the motion was approved.**
5.2  Scheduled Report Due in June:
5.2.1  SCC14 – Quantities, Units, and Letter Symbols
[Doug Edwards]

5.3  Report from the Ad Hoc Evaluating Information SCCs within IEEE SA Governance [Part 1]

Mehmet Ulema, Ad Hoc Chair, reported.

6  Old Business

None.

7  Informational Reports

7.1  CAG Report

Don Wright, SASB Liaison to the CAG, reported.

7.2  IEEE SA President’s Report

IEEE SA President Jim Matthews gave a verbal report.

The following items were noted:
- There was a BOG meeting in May.
  o The BOG clarified the role of staff within SMDCs.
  o The IEEE SA established a Fellows Nominations Support Committee under the IEEE Technical Innovation and Engagement SMDC.
- The next BOG meeting is scheduled for 01 July.
  o The BOG will receive a report from an ad hoc that is reviewing document classification and use of Executive Sessions.
- There are four candidates for IEEE SA President Elect [Mark Epstein (via petition), Robby Robson, Yatin Trivedi, Yu Yuan (via petition)].

7.3  IEEE SA Managing Director’s Report

Konstantinos Karachalios, IEEE SA Managing Director, reported.

7.4  SASB Chair’s Report
SASB Chair Hoffman reported.

8  **New Business**

None.

9  **Next Meeting**

The next SASB meeting is currently scheduled for 23 September 2021.

10  **SASB Resolutions**

The SASB recognized the Council on Electronic Design Automation/Standards Committee, to be abbreviated as (CEDA/SC), as an official Standards Committee, in accordance with IEEE SASB Bylaws 5.2.2.

The SASB entered Executive Session at 3:40 p.m. UTC.

Remaining in the meeting: BOG Members, SASB Members, IEEE SA Senior Directors, IEEE SA Governance staff, Yvette Ho Sang, IEEE SA OPM Managers, IEEE’s legal counsels

11  **Executive Session Items**

11.1 BOG Update RE: Patent Policy Guidance

11.2 Request from SASB Chair

11.3 SASB Oversight Committee RE: a Specific Standards Committee

11.4 Report from the Ad Hoc Evaluating SCCs within IEEE SA Governance [Part 2]

12  **Adjournment**

There being no further business, the meeting was adjourned at 4:03 p.m. UTC.