

## **IEEE SA Standards Board (SASB) 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

Matthew Ceglia

Sri Chandrasekaran

Karen Evangelista

Jonathan Goldberg

Jodi Haasz

Yvette Ho Sang

Soo Kim

Michael Kipness

Vanessa Lalitte

Juanita Lewis

Kristin Little

Jijia 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:**

Michael Lindsay – Dorsey & Whitney LLP  
Christopher Renner – Davis Wright Tremaine LLP  
Claire Topp – Dorsey & Whitney LLP

**Guests:**

Douglas Arnold  
Ted Burse  
Rodney Cummings  
Keith Flowers  
Latonia Gordon  
Ron Hartzel  
Guido Hiertz  
Taras Holoyad  
Joseph Levy  
Xiaohui Liu  
Haiying Lu  
Jim Matthews  
Paul Nikolich  
Glenn Parsons  
Robby Robson  
Jessy Rouyer  
Mark Siira  
Eleftheria Stefanaki  
Joy Tan  
Constance Weise  
Philip Winston  
Don Wright

[NOTE: Some presentations are available to SASB Members in the IEEE SA [Standards Board document repository](#), in the Files & Discussions area, in the June 2021 folder.]

**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.

### **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 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**

Standard for Determination of the Imaging Performance of X-Ray and Gamma-Ray Systems for Cargo and Vehicle Security Screening

**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**

Guide for Technical Requirements and Test Methods for Industrial Ultrashort Pulse Lasers

**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**

Guide for the Application of Surge-Protective Components in Surge Protective Devices and Equipment Ports – Part 5: 2-Terminal Electronic Current Limiters

**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/Stds 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**

IEEE Draft Guide for Technology of Unified Power Flow Controller Using Modular Multilevel Converter: Part 2 Terminology

**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

Revision:

**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**

**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 (5 approve, 3 disapprove [Mohla, Reilly, Weber], 3 abstain [Fathy, Hong, Wei])

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.