

**IEEE SA Standards Board (SASB) Meeting Minutes
Teleconference/Webex**

Session 1: 03 December 2020, 1:00 p.m. – 4:00 p.m. UTC

Session 2: 04 December 2020, 1:00 p.m. – 4:00 p.m. UTC

Attendees

Chair:

Gary Hoffman

Vice Chair:

Jon Rosdahl

Past Chair:

John Kulick

Secretary:

Konstantinos Karachalios

Members:

Ted Burse

Doug Edwards

Travis Griffith

Guido Hiertz

David Law

Howard Li

Kevin Lu

Paul Nikolich [TAB Rep.]

Damir Novosel

Dorothy Stanley

Mehmet Ulema

Lei Wang

Sha Wei

Philip Winston

Daidi Zhong (Session 1)

Jingyi Zhou

Members Absent:

Grace Gu
Dong Liu
Daidi Zhong (Session 2)

Joe Koepfinger, Member Emeritus

IEEE Staff:

Kim Breitfelder
Matthew Ceglia
Sri Chandrasekaran (Session 1)
Tom Compton (Session 2)
Karen Evangelista
Lloyd Green (Session 1)
Jodi Haasz
Yvette Ho Sang
Soo Kim
Michael Kipness
Vanessa Lalitte
Juanita Lewis
Kristin Little
Kelly Lorne
Jiajia Liu
Karen McCabe
Erin Morales
Adam Newman
Mary Lynne Nielsen
Babajide Okesola
Christian Orlando
Lisa Perry
Dave Ringle, Recording Secretary
Pat Roder
Anasthasie Sainvilus-Cantrell
Jennifer Santulli (Session 1)
Gail Sheedy (Session 2)
Tom Thompson
Michelle Turner (Session 1)
Lisa Weisser
Malia Zaman
Meng Zhao

IEEE Outside Legal Counsel:

Claire Topp – Dorsey & Whitney LLP

Guests:

Edward Addy
Danny Akerman (Session 1)
Tarek Al-Sitt
Michael Atlass
Edward Au
Tek Bahadur Chhetri
Dennis Brophy
Allen Chen
Evelyn Chen (Session 1)
Marbeth Delgado Castro
Mark Epstein
Ramy Fathy (Session 1)
Eve Gadzikwa
Latonia Gordon
Richard Green (Session 1)
Victor Huang
Thomas Koshy (Session 1)
Joseph Levy
Hung Ling
Xiaohui Liu
Marco Lo Bue
Haiying Lu
Riccardo Mariani
Jim Matthews
Yilma Mengistu Mamo
Daleep Mohla
Gil Ohana
Glenn Parsons (Session 1)
Robby Robson
Jessy Rouyer
Victoria Wang
Keith Waters
Karl Weber
Constance Weise
Jodie Williams (Session 1)
Howard Wolfman
Don Wright
Yu Yuan

1 Call to Order

Chair Hoffman called the meeting to order at 1:05 p.m. UTC.

2 Introductions

There was a round of introductions by all present on 03 December 2020. 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 12 October 2020 SASB Meeting [Minutes](#)

3.2.2 AudCom Recommendations

Standards Committee P&Ps

Accepted (standards work authorized):

- BOG/SESCoM Board of Governors/Strategic and Emerging Standards Committee
- C/AISC Computer Society/Artificial Intelligence Standards Committee
- C/FSSC Computer Society/Functional Safety Standards Committee
[Contingent upon reviewers uploading a final checklist that says the minor edits have been made.]
NB: This condition has been met.
- IAS/PPIC Industry Application Society/Pulp and Paper Industry Committee
- IM/HFM Instrumentation and Measurement Society/High Frequency Measurement
- UFFC/UFFC Ultrasonics, Ferroelectrics, and Frequency Control Society/Ultrasonics, Ferroelectrics, and Frequency Control

Conditionally Accepted (*standards work authorized*):

- SASB/SCC22 SASB Coordinating Committees/SCC22 – Power Quality
[Contingent upon minor editorial corrections to be completed.]

New Standards Committee Recognition with Accepted P&Ps

Motion: Recommend that the SASB recognize the Board of Governors/Strategic and Emerging Standards Committee, to be abbreviated as (BOG/SESCOM), as an official Standards Committee, in accordance with IEEE SASB Bylaws 5.2.2.

Motion: Recommend that the SASB recognize the Computer Society/Artificial Intelligence Standards Committee, to be abbreviated as (C/AISC), as an official Standards Committee, in accordance with IEEE SASB Bylaws 5.2.2.

Motion: Recommend that the SASB recognize the Computer Society/Functional Safety Standards Committee, to be abbreviated as (C/FSSC), as an official Standards Committee, in accordance with IEEE SASB Bylaws 5.2.2.

Motion: Recommend that the SASB recognize the Industry Applications Society/Pulp and Paper Industry Committee, to be abbreviated as (IAS/PPIC), as an official Standards Committee, in accordance with IEEE SASB Bylaws 5.2.2.

AudCom 2020 Baselines

Motion: Recommend that P&Ps submitted before 01 March 2021 may use either the 2017 or 2020 baseline documents, and all P&Ps submitted 01 March 2021 or after shall use the 2020 baseline documents.

3.2.3 NesCom Recommendations

Modified PARs:

IEEE Communications Society/Access and Core Networks Standards Committee

P1904.2

Standard for Control and Management of Virtual Links in Ethernet-Based Subscriber Access Networks

Recommendation: Approve modified PAR

IEEE Computer Society/LAN/MAN Standards Committee

P802.16t

Standard for Air Interface for Broadband Wireless Access Systems
Amendment – Fixed and Mobile Wireless Access in Narrowband Channels

Recommendation: Approve modified PAR

IEEE Industry Applications Society/Petroleum & Chemical Industry

P62395

Electrical Resistance Trace Heating Systems for Industrial and Commercial
Applications – Part 1: General and Testing Requirements

Recommendation: Approve modified PAR

IEEE Power and Energy Society/Energy Development & Power Generation

P2800

Standard for Interconnection and Interoperability of Inverter-Based
Resources (IBR) Interconnecting with Associated Transmission Electric Power
Systems

Recommendation: Approve modified PAR

IEEE Power and Energy Society/Power System Relaying and Control

P1613

Standard for Environmental and Testing Requirements for Devices with
Communications Functions Used with Electric Power Apparatus

Recommendation: Approve modified PAR

PC37.1.2

Guide for Databases Used in Utility Automation Systems

Recommendation: Approve modified PAR

PC37.90

Standard for Relays, Relay Systems, and Control Devices Used for Protection
and Control of Electric Power Apparatus – General Requirements and Tests

Recommendation: Approve modified PAR

PC37.90.2

Standard for Relays, Relay Systems, and Control Devices Used for Protection and Control of Electric Power Apparatus – Radiated Electromagnetic Interference Withstand Capability Requirements and Tests

Recommendation: Approve modified PAR

IEEE Power and Energy Society/Switchgear

PC37.09-2018/Cor 1

Standard Test Procedures for AC High-Voltage Circuit Breakers with Rated Maximum Voltage above 1000 V – Corrigendum 1

Recommendation: Approve modified PAR

IEEE Power and Energy Society/Transmission and Distribution

P1453

Standard for Measurement and Limits of Voltage Fluctuations and Associated Light Flicker on AC Power Systems

Recommendation: Approve modified PAR

IEEE SA Board of Governors/Corporate Advisory Group

P2418.1

Standard for the Framework of Blockchain Use in Internet of Things (IoT)

Recommendation: Approve modified PAR

P2418.5 Standard for Blockchain in Energy

Recommendation: Approve modified PAR

IEEE-SASB Coordinating Committees/SCC39 – International Committee on Electromagnetic Safety

PC95.7

Standard for Electromagnetic Energy Safety Programs, 0 Hz to 300 GHz

Recommendation: Approve modified PAR

Extension Requests:

IEEE Communications Society/Access and Core Networks Standards Committee

P1904.2

Standard for Universal Management Tunnel for Ethernet-Based Subscriber Access Networks

Recommendation: Approve request for an extension until December 2021

IEEE Communications Society/Dynamic Spectrum Access Networks Standards Committee

P1900.5.1

Standard Policy Language for Dynamic Spectrum Access Systems

Recommendation: Approve request for an extension until December 2021

P1900.6b

Standard for Spectrum Sensing Interfaces and Data Structures for Dynamic Spectrum Access and Other Advanced Radio Communication Systems – Spectrum Database Interfaces Amendment

Recommendation: Approve request for an extension until December 2022

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

P1913

Software-Defined Quantum Communication

Recommendation: Approve request for an extension until December 2022

P1930.1

Recommended Practice for Software Defined Networking (SDN) Based Middleware for Control and Management of Wireless Networks

Recommendation: Approve request for an extension until December 2022

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

P1516

Standard for Modeling and Simulation (M&S) High Level Architecture (HLA) – Framework and Rules

Recommendation: Approve request for an extension until December 2023

P1516.1

Standard for Modeling and Simulation (M&S) High Level Architecture (HLA) – Federate Interface Specification

Recommendation: Approve request for an extension until December 2023

P1516.2

Standard for Modeling and Simulation (M&S) High Level Architecture (HLA) – Object Model Template (OMT) Specification

Recommendation: Approve request for an extension until December 2023

IEEE Computer Society/Software & Systems Engineering Standards Committee

P2675

DevOps – Standard for Building Reliable and Secure Systems including Application Build, Package, and Deployment

Recommendation: Approve request for an extension until December 2021

P7000

Model Process for Addressing Ethical Concerns during System Design

Recommendation: Approve request for an extension until December 2021

IEEE Dielectrics and Electrical Insulation Society/Standards Committee

P1820

Guide on the Selection of Transmission and Distribution Insulators with Respect to Cold Weather Conditions

Recommendation: Approve request for an extension until December 2021

IEEE Electromagnetic Compatibility Society/Standards Development Committee

P473

Recommended Practice for an Electromagnetic Site Survey (10 kHz to 40 GHz)

Recommendation: Approve request for an extension until December 2022

P1897

Recommended Practice for the Resolution of Power-Line Gap-Noise Reports

Recommendation: Approve request for an extension until December 2022

P2715

Guide for the Characterization of the Shielding Effectiveness of Planar Materials

Recommendation: Approve request for an extension until December 2022

P2716

Guide for the Characterization of the Effectiveness of Printed Circuit Board Level Shielding

Recommendation: Approve request for an extension until December 2022

IEEE Engineering in Medicine and Biology Society/Standards Committee

P3333.2.2

Standard for Three-Dimensional (3D) Medical Visualization

Recommendation: Approve request for an extension until December 2022

P3333.2.3

Standard for Three-Dimensional (3D) Medical Data Management

Recommendation: Approve request for an extension until December 2022

P3333.2.4

Standard for Three-Dimensional (3D) Medical Simulation

Recommendation: Approve request for an extension until December 2022

IEEE Industry Applications Society/Industrial & Commercial Power Systems Standards Development Committee

P3004.7

Recommended Practice for the Protection of Conductors Used in Industrial and Commercial Power Systems

Recommendation: Approve request for an extension until December 2021

IEEE Industry Applications Society/Petroleum & Chemical Industry

P303

Recommended Practice for Auxiliary Devices for Rotating Electrical Machines in Class I, Division 2 and Zone 2 Locations and Class II, Division 2 and Zone 22 Locations

Recommendation: Approve request for an extension until December 2022

P841

Standard for Petroleum and Chemical Industry – Premium-Efficiency, Severe-Duty, Totally Enclosed Squirrel Cage Induction Motors – 0.75 - 370 kW (1 - 500 hp)

Recommendation: Approve request for an extension until December 2022

P841.1

Standard for Process Industry – IE3, Severe-Duty, IP 56 Squirrel Cage Induction Motors – up to and including 370 kW

Recommendation: Approve request for an extension until December 2022

P1580

Recommended Practice for Marine Cable for Use on Shipboard and Fixed or Floating Facilities

Recommendation: Approve request for an extension until December 2021

IEEE Instrumentation and Measurement Society/TC9 – Sensor Technology

P1451.99

Standard for Harmonization of Internet of Things (IoT) Devices and Systems

Recommendation: Approve request for an extension until December 2023

IEEE Power and Energy Society/Energy Development & Power Generation

P421.1

Standard Definitions for Excitation Systems for Synchronous Machines

Recommendation: Approve request for an extension until December 2021

P421.5

Recommended Practice for Excitation System Models for Power System Stability Studies

Recommendation: Approve request for an extension until December 2022

P665

Guide for Generating Station Grounding

Recommendation: Approve request for an extension until December 2023

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

P450

Recommended Practice for Maintenance, Testing, and Replacement of Vented Lead-Acid Batteries for Stationary Applications

Recommendation: Approve request for an extension until December 2021

IEEE Power and Energy Society/Insulated Conductors

P400.3

Guide for Partial Discharge Field Diagnostic Testing of Shielded Power Cable Systems

Recommendation: Approve request for an extension until December 2021

P495

Guide for Testing Faulted Circuit Indicators

Recommendation: Approve request for an extension until December 2022

P532

Guide for Selecting and Testing Jackets for Power, Instrumentation, and Control Cables

Recommendation: Approve request for an extension until December 2021

P1120

Guide for the Planning, Design, Installation, and Repair of Submarine Power Cable Systems

Recommendation: Approve request for an extension until December 2022

P1617

Guide for Assessment, Mitigation, and Control of Corrosion of Metallic Shields in Extruded Dielectric Cables rated 5 kV to 46 kV

Recommendation: Approve request for an extension until December 2021

P2412

Standard Test for Determining Circuit Integrity Performance of Fire Resistive Cable Systems in Passenger Rail and Road Tunnels

Recommendation: Approve request for an extension until December 2022

IEEE Power and Energy Society/Nuclear Power Engineering

P2425

Standard for Electromagnetic Compatibility Testing of Electrical and Instrumentation and Control Equipment at Nuclear Power Generating Stations and Other Nuclear Facilities

Recommendation: Approve request for an extension until December 2023

P63113

Nuclear Facilities – Instrumentation Important to Safety – Spent Fuel Pool Instrumentation

Recommendation: Approve request for an extension until December 2021

IEEE Power and Energy Society/Power System Communications and Cybersecurity

P1711

Standard for a Cryptographic Protocol for Electric Power System (EPS) Communications Links

Recommendation: Approve request for an extension until December 2022

IEEE Power and Energy Society/Power System Instrumentation and Measurements

P510

Guide for Electrical Safety in High-Voltage Testing

Recommendation: Approve request for an extension until December 2022

IEEE Power and Energy Society/Power System Relaying and Control

PC37.1.2

Recommended Practice for Databases Used in Utility Automation Systems

Recommendation: Approve request for an extension until December 2022

PC37.91

Guide for Protecting Power Transformers

Recommendation: Approve request for an extension until December 2021

PC37.249

Guide for Categorizing Security Needs for Protection and Automation Related Data Files

Recommendation: Approve request for an extension until December 2021

PC37.251

Standard for Common Protection and Control Settings or Configuration Data Format (COMSET)

Recommendation: Approve request for an extension until December 2022

IEEE Power and Energy Society/Substations

P998

Guide for Direct Lightning Stroke Shielding of Substations

Recommendation: Approve request for an extension until December 2022

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

PC62.230

Guide for Surge Protection of Electric Vehicle Infrastructure

Recommendation: Approve request for an extension until December 2021

IEEE Power and Energy Society/Switchgear

PC37.30.1

Standard Requirements for AC High-Voltage Air Switches Rated above 1000 V

Recommendation: Approve request for an extension until December 2022

PC37.66

Standard Requirements for Capacitor Switches for AC Systems (1 kV to 38 kV)

Recommendation: Approve request for an extension until December 2021

IEEE Power and Energy Society/Transformers

PC57.16

Standard for Requirements, Terminology, and Test Code for Dry-Type Air-Core Series-Connected Reactors

Recommendation: Approve request for an extension until December 2022

PC57.18.10

Standard Practices and Requirements for Semiconductor Power Rectifier Transformers

Recommendation: Approve request for an extension until December 2022

PC57.21

Standard Requirements, Terminology, and Test Code for Shunt Reactors Rated over 500 kVA

Recommendation: Approve request for an extension until December 2021

PC57.162

Guide for the Interpretation of Moisture Related Parameters in Dry, Gas Insulated, and Liquid Immersed Transformers and Reactors

Recommendation: Approve request for an extension until December 2022

IEEE Power and Energy Society/Transmission and Distribution

P18

Standard for Shunt Power Capacitors

Recommendation: Approve request for an extension until December 2022

P519.1

Guide for Applying Harmonic Limits on Power Systems

Recommendation: Approve request for an extension until December 2022

P957

Guide for Monitoring, Managing, and Cleaning of Contaminated Insulators

Recommendation: Approve request for an extension until December 2022

IEEE Power Electronics Society/Standards Committee

P1573

Recommended Practice for Electronic Power Subsystems: Parameters, Interfaces, Elements, and Performance

Recommendation: Approve request for an extension until December 2021

IEEE SA Board of Governors/Corporate Advisory Group

P1858

Standard for Camera Phone Image Quality (CPIQ)

Recommendation: Approve request for an extension until December 2022

IEEE Vehicular Technology Society/Intelligent Transportation Systems

P2020

Standard for Automotive System Image Quality

Recommendation: Approve request for an extension until December 2022

P7001

Transparency of Autonomous Systems

Recommendation: Approve request for an extension until December 2021

IEEE Vehicular Technology Society/Rail Transportation Standards Committee

P1653.3

Guide for Rail Transit Traction Power Systems Modeling

Recommendation: Approve request for an extension until December 2021

P2406

Standard for Design and Construction of Non-Load Break Disconnect Switches for Direct Current Applications on Transit Systems

Recommendation: Approve request for an extension until December 2022

P2720

Rail Potential Management Guide for Direct Current Traction Electrification Systems

Recommendation: Approve request for an extension until December 2021

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

P260.1 Standard Letter Symbols for Units of Measurement (SI Units, Customary Inch-Pound Units, and Certain Other Units)

Recommendation: Approve request for an extension until December 2024

P280

Standard Letter Symbols for Quantities Used in Electrical Science and Electrical Engineering

Recommendation: Approve request for an extension until December 2021

IEEE-SASB Coordinating Committees/SCC31 – Automatic Meter Reading and Energy Management

P1704

Standard for Utility Industry End Device Communications Module

Recommendation: Approve request for an extension until December 2021

New PARs:

IEEE Computer Society/Blockchain and Distributed Ledgers

P3215

Standard for Consensus Framework for Blockchain System

Recommendation: Approve new PAR until December 2024

P3216

Standard for Blockchain Service Capability Evaluation

Recommendation: Approve new PAR until December 2024

IEEE Computer Society/Cybersecurity and Privacy Standards Committee

P2978

Standard for Quantum Risk Management for the Board of Directors

Recommendation: Defer new PAR until the next NesCom meeting to provide time for comments to be resolved. Chair Stanley and Ramy Fathy will work with the Chair during this process.

IEEE Computer Society/LAN/MAN Standards Committee

P802.1DP

Standard for Local and Metropolitan Area Networks – Time-Sensitive Networking for Aerospace Onboard Ethernet Communications

Recommendation: Approve new PAR until December 2024

P802.15.4aa

Standard for Low-Rate Wireless Networks Amendment: Higher Data Rate Extension to IEEE 802.15.4 Smart Utility Network (SUN) Frequency Shift Keying (FSK) Physical Layer (PHY)

Recommendation: Approve new PAR until December 2024

IEEE Computer Society/Learning Technology

P2955

Recommended Practice for Creating Self Learning Tutorials and Side by Side Learning

Recommendation: Defer new PAR until the next NesCom meeting due to late replies to comments that NesCom members did not get to review.

IEEE Computer Society/Smart Manufacturing Standards Committee

P2971

Standard for the Test Requirements of a Gateway Supporting a Time Sensitive Networking in the Field of Industrial Internet

Recommendation: Approve new PAR until December 2024

P2972

Standard for General Requirements of Gateway Supporting Time Sensitive Networking in Factory Environments

Recommendation: Defer new PAR until the next NesCom meeting to allow time for discussion about collaboration with IEEE 802.

2975

Standard for Industrial Artificial Intelligence (AI) Data Attributes

Recommendation: Approve new PAR until December 2024

IEEE Computer Society/Standards Activities Board

P2888.2

Standard for Actuator Interface for Cyber and Physical Worlds

Recommendation: Approve new PAR until December 2024

P2888.3

Standard on Orchestration of Digital Synchronization between Cyber and Physical Worlds

Recommendation: Approve new PAR until December 2024

P2888.4 Standard on Architecture for Virtual Reality Disaster Response Training System with Six Degrees of Freedom (6 DoF)

Recommendation: Approve new PAR until December 2024

P2945

Standard for Technical Requirements for Face Recognition Systems

Recommendation: Approve new PAR until December 2024

IEEE Consumer Electronics Society/Digital Finance and Economy Standards Committee

P3807

Standard for Consortium Chain Certificate Application

Recommendation: Approve new PAR until December 2024

P3808

Standard for Consortium Chain Traceability Application

Recommendation: Approve new PAR until December 2024

IEEE Consumer Electronics Society/Smart Devices Standards Committee

P2953

Standard for Technical Requirements for Industrial Smart Terminal Devices

Recommendation: Approve new PAR until December 2024

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

P11073-10101c

Standard for Health Informatics – Point-of-Care Medical Device Communication – Part 10101: Nomenclature Amendment 3: Additional Definitions

Recommendation: Approve new PAR until December 2024

IEEE Industry Applications Society/Petroleum & Chemical Industry

P62395-2

Electrical Resistance Trace Heating Systems for Industrial and Commercial Applications Part 2: Application Guide for System Design, Installation, and Maintenance

Recommendation: Approve new PAR until December 2024

IEEE Instrumentation and Measurement Society/TC9 – Sensor Technology

P1588g

Standard for a Precision Clock Synchronization Protocol for Networked Measurement and Control Systems – Amendment: Master-Slave Optional Alternative Terminology

Recommendation: Approve new PAR until December 2024

IEEE Power and Energy Society/Transformers

PC57.105-2019/Cor 1

Guide for Application of Transformer Connections in Three-Phase Electrical Systems – Corrigendum 1: Update Table 1 – Application Characteristics of Connections

Recommendation: Approve new PAR until December 2024

IEEE Power and Energy Society/Transmission and Distribution

P987

Guide for Application of Composite Insulators for Overhead Electric Power Lines

Recommendation: Approve new PAR until December 2024

P2942

Guide for In-Service Application, Care, Maintenance, and Testing of Insulating Flexible Sling for Live Working

Recommendation: Approve new PAR until December 2024

P2974

Guide for System Commissioning of Medium and Low (750 V to ± 50 kV) Voltage Direct Current Distribution Network

Recommendation: Approve new PAR until December 2024

IEEE SA Board of Governors/Corporate Advisory Group

P2958

Standard for a Decentralized Identity and Access Management Framework for Internet of Things

Recommendation: Approve new PAR until December 2024

P2973

Guide for Field Calibration System for Current Carrying Capacity of Overhead Transmission Lines

Recommendation: Approve new PAR until December 2024

IEEE Vehicular Technology Society/Intelligent Transportation Systems

P2030.1.2

Standard Technical Specifications for Ultra-High-Power Electric Vehicle Chargers

Recommendation: Approve new PAR until December 2024

IEEE Vehicular Technology Society/Rail Transportation Standards Committee

P2970

Guide for Synchronous Monitoring of the Magnitude and Distribution of Stray Current in Urban Rail Transit's Direct Current Traction System

Recommendation: Approve new PAR until December 2024

IEEE-SASB Coordinating Committees/SCC39 – International Committee on Electromagnetic Safety

P62209-3

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 3: Vector Measurement-Based Systems (Frequency Range of 600 MHz to 6 GHz)

Recommendation: Approve new PAR until December 2024

PARs for the Revision of Standards:

IEEE Computer Society/Test Technology

P1450

Standard Test Interface Language (STIL) for Digital Test Vector Data

Recommendation: Approve PAR for the revision of a standard until December 2024

P1450.1

Standard for Extensions to Standard Test Interface Language (STIL) (IEEE Std 1450-1999) for Semiconductor Design Environments

Recommendation: Approve PAR for the revision of a standard until December 2024

P1450.6

Standard Test Interface Language (STIL) for Digital Test Vector Data-Core Test Language (CTL)

Recommendation: Approve PAR for the revision of a standard until December 2024

IEEE Industry Applications Society/Petroleum & Chemical Industry

P45.2

Recommended Practice for Electrical Installations on Shipboard – Controls and Automation

Recommendation: Approve PAR for the revision of a standard until December 2024

IEEE Power and Energy Society/Insulated Conductors

P1511

Guide for Investigating and Analyzing Power Cable, Joint, and Termination Failures on Systems Rated 2.5 kV through 46 kV

Recommendation: Approve PAR for the revision of a standard until December 2024

P1511.1

Guide for Investigating and Analyzing Shielded Power Cable Failures on Systems Rated 2.5 kV Through 46 kV

Recommendation: Approve PAR for the revision of a standard until December 2024

IEEE Power and Energy Society/Nuclear Power Engineering

PC37.98

Standard for Seismic Qualification Testing of Protective Relays and Auxiliaries for Nuclear Facilities

Recommendation: Approve PAR for the revision of a standard until December 2024

PC37.105

Standard for Qualifying Class 1E Protective Relays and Auxiliaries for Nuclear Power Generating Stations and Other Nuclear Facilities

Recommendation: Approve PAR for the revision of a standard until December 2024

IEEE Power and Energy Society/Power System Communications and Cybersecurity

P1615

Recommended Practice for Network Communication for Electric Power Substation Monitoring and Control

Recommendation: Approve PAR for the revision of a standard until December 2024

IEEE Power and Energy Society/Power System Relaying and Control

PC37.95

Guide for Protective Relaying of Utility-Consumer Interconnections

Recommendation: Approve PAR for the revision of a standard until December 2024

IEEE Power and Energy Society/Switchgear

PC37.10

Guide for Investigation, Analysis, and Reporting of Failures of AC High-Voltage Circuit Breakers and Circuit Switchers with Rated Maximum Voltage Above 1000 V

Recommendation: Approve PAR for the revision of a standard until December 2024

PC37.20.1

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

Recommendation: Approve PAR for the revision of a standard until December 2024

PC37.012

Guide for the Application of Capacitance Current Switching for AC High-Voltage Circuit Breakers above 1000 V

Recommendation: Approve PAR for the revision of a standard until December 2024

PC37.100.2

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

Recommendation: Approve PAR for the revision of a standard until December 2024

IEEE Power and Energy Society/Transformers

P259

Standard Test Procedure for Evaluation of Systems of Insulation for Dry-Type Specialty and General-Purpose Transformers

Recommendation: Approve PAR for the revision of a standard until December 2024

PC57.131

Standard Performance Requirements and Test Methods for Tap-Changers

Recommendation: Approve PAR for the revision of a standard until December 2024

IEEE Power and Energy Society/Transmission and Distribution

P1243

Guide for Improving the Lightning Performance of Transmission Lines

Recommendation: Approve PAR for the revision of a standard until December 2024

P1854

Guide for Smart Distribution Applications

Recommendation: Approve PAR for the revision of a standard until December 2024

IEEE Power Electronics Society/Standards Committee

P393

Standard for Test Procedures for Magnetic Cores

Recommendation: Approve PAR for the revision of a standard until December 2024

IEEE SA Board of Governors/Corporate Advisory Group

P1863

Guide for Overhead Alternating Current (AC) Transmission Line Design

Recommendation: Approve PAR for the revision of a standard until December 2024

IEEE-SASB Coordinating Committees/SCC39 – International Committee on Electromagnetic Safety

P62704-3

Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body from Wireless Communications Devices, 30 MHz – 6 GHz Part 3: Specific Requirements for Using the Finite Difference Time Domain (FDTD) Method for SAR Calculations of Mobile Phones

Recommendation: Approve PAR for the revision of a standard until December 2024

PARs for Administrative withdrawals

P982.1 (C/S2ESC)

Standard for Measures of the Software Aspects of Dependability
(Revision PAR)

P2048.1 (CES/VRARSC)

Standard for Virtual Reality and Augmented Reality: Device Taxonomy and Definitions
(New PAR)

P2048.2 (CES/VRARSC)

Standard for Virtual Reality and Augmented Reality: Immersive Video Taxonomy and Quality Metrics
(New PAR)

P2048.3 (CES/VRARSC)
Standard for Virtual Reality and Augmented Reality: Immersive Video File and Stream Formats
(New PAR)

P2048.4 (CES/VRARSC)
Standard for Virtual Reality and Augmented Reality: Person Identity
(New PAR)

P2048.5 (CES/VRARSC)
Standard for Virtual Reality and Augmented Reality: Environment Safety
(New PAR)

P1921.1 (COM/NetSoft-SC)
Standard for Software-Defined Networking (SDN) Bootstrapping Procedures
(New PAR)

P2710 (EMC/SDCom)
Electromagnetic Shielding Performance of Enclosures for Portable Electronic Devices
(New PAR)

P1451.1.4 (IM/ST)
Standard for a Smart Transducer Interface for Sensors, Actuators, and Devices – eXtensible Messaging and Presence Protocol (XMPP) for Networked Device Communication
(New PAR)

P1050 (PE/EDPG)
Guide for Instrumentation and Control Equipment Grounding in Generating Stations
(Revision PAR)

P825 (PE/SBLC)
Guide for Interoperability of Transactive Energy Systems with Electric Power Infrastructure (Building the Enabling Network for Distributed Energy Resources)
(New PAR)

P1654 (PE/T&D)

Guide for RF Protection of Personnel Working in the Vicinity of Wireless Communications Antennas Attached to Electric Power Line Structures

(Revision PAR)

P977a (PE/T&D)

Guide to Installation of Foundations for Transmission Line Structures
Amendment

(New PAR)

P60214-1-57-131 (PE/TR)

Standard Requirements for Tap Changers

(New PAR)

P2690 (VT/ITS)

Standard for Charging Network Management Protocol for Electric Vehicle Charging Systems

(New PAR)

Standards Committee Changes

P2418.1 'Standard for the Framework of Blockchain Use in Internet of Things (IOT)'

Current Standards Committee: BOG/CAG; New Standards Committee: CTS/BSC

P2418.5 'Standard for Blockchain in Energy'

Current Standards Committee: BOG/CAG; New Standards Committee: PE/SBLC

3.2.4 RevCom Recommendations

Withdrawal

IEEE-SASB Coordinating Committees/SCC39 – International Committee on Electromagnetic Safety

C95.4-2002

IEEE Recommended Practice for Determining Safe Distances from Radio Frequency Transmitting Antennas when Using Electric Blasting Caps during Explosive Operations

Recommendation: APPROVE

New:

IEEE Communications Society/Dynamic Spectrum Access Networks Standards Committee

P1900.5.1/Draft 3

IEEE Draft Standard Policy Language for Dynamic Spectrum Access Systems

Recommendation: APPROVE

IEEE Computer Society/LAN/MAN Standards Committee

P802.1CS/Draft 3.1

IEEE Draft Standard for Local and Metropolitan Area Networks – Link-Local Registration Protocol

Recommendation: APPROVE

IEEE Consumer Electronics Society/Blockchain Standards Committee

P2144.1/Draft 3

IEEE Draft Standard for Framework of Blockchain-Based Internet of Things (IoT) Data Management

Recommendation: APPROVE

IEEE Dielectrics and Electrical Insulation Society/Standards Committee

P1820/Draft 13

IEEE Draft Guide on the Selection of Transmission and Distribution Insulators with Respect to Cold Weather Conditions

Recommendation: APPROVE

P2862/Draft 2

IEEE Draft Recommended Practice for Partial Discharge Measurements under AC Voltage with VHF/UHF Sensors during Routine Tests on Factory and Pre-Moulded Joints of HVDC Extruded Cable Systems up to 800 kV

Recommendation: APPROVE

IEEE Photonics Society/Standards Committee

P2065/Draft 5

IEEE Draft Parameter Requirements and Test Method for Industrial Fiber Laser

Recommendation: APPROVE

IEEE Power and Energy Society/Insulated Conductors

P2740/Draft 6.6

IEEE Draft Guide for the Selection and Installation of Electrical Cables and Cable Systems in Hazardous (Classified) Locations on Oil and Gas Land Drilling Rigs

Recommendation: APPROVE

IEEE Power and Energy Society/Power System Communications and Cybersecurity

P2030.102.1/Draft 1.13

IEEE Draft Standard for Interoperability of Internet Protocol Security (IPsec) Utilized within Utility Control Systems

Recommendation: APPROVE

IEEE Power and Energy Society/Switchgear

PC37.62/Draft 7.2

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

Recommendation: APPROVE

IEEE SA Board of Governors/Corporate Advisory Group

P2755.2/Draft 2

IEEE Draft Recommended Practice for Implementation and Management Methodology for Software Based Intelligent Process Automation

Recommendation: APPROVE

IEEE Vehicular Technology Society/Rail Transportation Standards Committee

P1653.5/Draft 11

IEEE Draft Recommended Practice for Controlled Rectifiers for Traction Power Substation Applications

Recommendation: APPROVE

Revision:

IEEE Computer Society/LAN/MAN Standards Committee

P802.11/Draft 5.0

IEEE Draft 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

Recommendation: APPROVE

IEEE Computer Society/Software & Systems Engineering Standards Committee

P16085/Draft 5

ISO/IEC/IEEE International Draft Standard – Systems and Software Engineering – Life Cycle Processes – Risk Management

Recommendation: APPROVE

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

P450/Draft 14

IEEE Draft Recommended Practice for Maintenance, Testing, and Replacement of Vented Lead-Acid Batteries for Stationary Applications

Recommendation: APPROVE

IEEE Power and Energy Society/Nuclear Power Engineering

P1023/Draft 1

IEEE Draft Recommended Practice for the Application of Human Factors Engineering to Systems, Equipment, and Facilities of Nuclear Power Generating Stations and Other Nuclear Facilities

Recommendation: APPROVE

IEEE Power and Energy Society/Power System Communications and Cybersecurity

P1591.3/Draft 6

IEEE Draft Standard for Qualifying Hardware for Helically-Applied Fiber Optic Cable Systems (WRAP Cable)

Recommendation: APPROVE

P1594/Draft 5

IEEE Draft Standard for Helically Applied Fiber Optic Cable Systems (WRAP Cable) for Use on Overhead Utility Lines

Recommendation: APPROVE

IEEE Power and Energy Society/Power System Relaying and Control

PC37.230/Draft 2.8

IEEE Draft Guide for Protective Relay Applications to Distribution Lines

Recommendation: APPROVE

IEEE Power and Energy Society/Substations

P1246/Draft 25

IEEE Draft Guide for Temporary Protective Grounding Systems Used in Substations

Recommendation: APPROVE

P1427/Draft 5.1

IEEE Draft Guide for Recommended Electrical Clearances and Insulation Levels in Air Insulated Electrical Power Substations

Recommendation: APPROVE

IEEE Power and Energy Society/Switchgear

PC37.017/Draft 9

IEEE Draft Standard for Bushings for High-Voltage [over 1000 V (ac)] Circuit Breakers and Gas-Insulated Switchgear

Recommendation: APPROVE

IEEE Power and Energy Society/Transformers

PC57.12.30/Draft 1.6

IEEE Draft Standard for Pole-Mounted Equipment – Enclosure Integrity for Coastal Environments

Recommendation: APPROVE

PC57.12.31/Draft 1.6

IEEE Draft Standard for Pole-Mounted Equipment – Enclosure Integrity

Recommendation: APPROVE

IEEE Power and Energy Society/Transmission and Distribution

P539/Draft 6

IEEE Draft Standard Definitions of Terms Relating to Corona and Field Effects of Overhead Power Lines

Recommendation: APPROVE

IEEE Vehicular Technology Society/Intelligent Transportation Systems

P1609.3/Draft 13

Standard for Wireless Access in Vehicular Environments (WAVE) – Networking Services

Recommendation: APPROVE

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

P1526/Draft 7

IEEE Draft Recommended Practice for Testing the Performance of Stand-Alone Photovoltaic Systems

Recommendation: APPROVE

4 SASB Standing Committee Reports

4.1 Audit Committee ([AudCom](#))

John Kulick, AudCom Chair, reported.

4.1.1 C/OGSC Standards Committee P&P

4.1.2 CTS/EGSSC Standards Committee P&P

There was a motion:

Whereas the SASB recognizes the importance of online gaming and E-sports as areas of IEEE standardization and notes that standards projects in these areas may occur unimpeded under existing Standards Committees,

The SASB hereby postpones consideration of the AudCom recommendations for approval of the CTS/EGSSC and C/OGSC Standards Committee P&Ps and the recognition of these Standards Committees for standards development activities until the March 2021 SASB meeting, to allow sufficient time for the

scopes of the Standards Committees to be clarified to show a differentiation between them. This clarification is expected to be mediated by the TAB Committee on Standards.

There was a motion to Amend [Amendment 1] in **blue**:

Whereas the SASB recognizes the importance of online gaming and E-sports as areas of IEEE standardization and notes that standards projects in these areas may occur unimpeded under existing Standards Committees,

The SASB hereby ~~postpones consideration of~~ **approves** the AudCom recommendations for approval of the CTS/EGSSC and C/OGSC Standards Committee P&Ps and the recognition of these Standards Committees for standards development activities ~~until the March 2021 SASB meeting, to allow sufficient time for the scopes of the Standards Committees to be clarified to show a differentiation between them. This clarification is expected to be mediated by the TAB Committee on Standards.~~

There was a motion to Amend [Amendment 2] in **yellow**:

Whereas the SASB recognizes the importance of online gaming and E-sports as areas of IEEE standardization and notes that ~~standards projects in these areas may occur unimpeded under existing Standards Committees potentially necessary clarifications regarding scope may be mediated by the TAB Committee on Standards,~~

The SASB hereby ~~postpones consideration of~~ **approves** the AudCom recommendations for approval of the CTS/EGSSC and C/OGSC Standards Committee P&Ps and the recognition of these Standards Committees for standards development activities ~~until the March 2021 SASB meeting, to allow sufficient time for the scopes of the Standards Committees to be clarified to show a differentiation between them. This clarification is expected to be mediated by the TAB Committee on Standards.~~

There was a vote on Amendment 2. The amendment was approved. [Vote: Yes=9, No=5, Abstain=3 (Wei, Zhong)]

There was a vote on the updated amendment (Amendment 2 + Amendment 1). The updated amendment was approved. [Vote: Yes=11, No=4; Abstain=1]

Updated main motion:

Whereas the SASB recognizes the importance of online gaming and E-sports as areas of IEEE standardization and notes that potentially necessary clarifications regarding scope may be mediated by the TAB Committee on Standards,

The SASB hereby approves the AudCom recommendations for approval of the CTS/EGSSC and C/OGSC Standards Committee P&Ps and the recognition of these Standards Committees for standards development activities.

There was a vote on updated main motion. The motion was approved. [Vote: Yes=12, No=5, Abstain=1]

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

Dorothy Stanley, NesCom Chair, reported.

4.3 Patent Committee ([PatCom](#))

David Law, PatCom Chair, reported.

4.4 Procedures Committee ([ProCom](#))

Kevin Lu, Acting ProCom Chair, reported.

SASB Chair Hoffman thanked Kevin for being the Acting ProCom Chair for the December ProCom meeting.

4.5 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.

- 5.2 Scheduled Report Due in December:
- 5.2.1 SCC39 – International Committee on Electromagnetic Safety

6 Old Business

- 6.1 [SASB Ad Hoc on Terminology](#)

Chair Hoffman reported.

There was a motion to approve the following policy statement:

IEEE standards (including recommended practices and guides) shall be written in such a way as to unambiguously communicate the technical necessities, preferences, and options of the standard to best enable market adoption, conformity assessment, interoperability, and other technical aspirations of the developing standards committee. IEEE standards should be written in such a way as to avoid non-inclusive and insensitive terminology (see IEEE Policy 9.27) and other deprecated terminology (see clause 10 of the IEEE SA Style Manual) except when required by safety, legal, regulatory, and other similar considerations. Terms such as master/slave, blacklist, and whitelist should be avoided.

In the absence of objection, the motion was approved.

- 6.2 [Update RE: P802.11ax](#)

Paul Nikolich, C/LMSC Chair, reported. Paul noted that it was the 3rd recirculation ballot that closed on 27 November 2020.

7 Informational Reports

- 7.1 TAB Representative's [Report](#)

Paul Nikolich, TAB Representative to SASB, reported.

- 7.2 CAG [Report](#)

Don Wright, SASB liaison to the CAG, reported.

- 7.3 IEEE SA President's [Report](#)

There was a report submitted for this item by IEEE SA President Fish.

7.4 IEEE SA Managing Director's [Report](#)

Konstantinos Karachalios, IEEE SA Managing Director, reported.

The SASB recessed at 4:01 p.m. UTC on 03 December 2020.

7.5 SASB Chair's [Report](#)

The SASB reconvened at 1:02 p.m. UTC on 04 December 2020.

Chair Hoffman reported.

Konstantinos Karachalios thanked Chair Hoffman for his leadership, energy, and perseverance in 2020.

7.6 Standards Education Committee [Update](#)

Robby Robson, Standards Education Committee Chair, reported.

8 New Business

None.

9 [Next Meeting](#)

The next SASB meeting series is scheduled for 23-25 March 2021 via teleconference/Webex.

10 SASB Resolutions

IEEE standards (including recommended practices and guides) shall be written in such a way as to unambiguously communicate the technical necessities, preferences, and options of the standard to best enable market adoption, conformity assessment, interoperability, and other technical aspirations of the developing standards committee. IEEE standards should be written in such a

way as to avoid non-inclusive and insensitive terminology (see IEEE Policy 9.27) and other deprecated terminology (see clause 10 of the IEEE SA Style Manual) except when required by safety, legal, regulatory, and other similar considerations. Terms such as master/slave, blacklist, and whitelist should be avoided.

The SASB recognized the Board of Governors/Strategic and Emerging Standards Committee, to be abbreviated as (BOG/SESCOM), as an official Standards Committee, in accordance with IEEE SASB Bylaws 5.2.2.

The SASB recognized the Computer Society/Artificial Intelligence Standards Committee, to be abbreviated as (C/AISC), as an official Standards Committee, in accordance with IEEE SASB Bylaws 5.2.2.

The SASB recognized the Computer Society/Functional Safety Standards Committee, to be abbreviated as (C/FSSC), as an official Standards Committee, in accordance with IEEE SASB Bylaws 5.2.2.

The SASB recognized the Computer Society/Online Gaming Standards Committee, to be abbreviated as (C/OGSC), as an official Standards Committee, in accordance with IEEE SASB Bylaws 5.2.2.

The SASB recognized the Consumer Technology Society/Electronic Games and Sports Standards Committee, to be abbreviated as (CTS/EGSSC), as an official Standards Committee, in accordance with IEEE SASB Bylaws 5.2.2.

The SASB recognized the Industry Applications Society/Pulp and Paper Industry Committee, to be abbreviated as (IAS/PPIC), as an official Standards Committee, in accordance with IEEE SASB Bylaws 5.2.2.

In regards to the baseline P&P documents maintained by AudCom, the SASB declared that P&Ps submitted before 01 March 2021 may use either the 2017 or 2020 baseline documents, and all P&Ps submitted on or after 01 March 2021 shall use the 2020 baseline documents.

11 Recess until 1:00 p.m. UTC on 04 December 2020

This item was overcome by events.

The SASB entered Executive Session at 2:01 p.m. UTC on 04 December 2020.

Remaining in the meeting: BOG Members, SASB Members, IEEE SA Senior Directors, IEEE SA Governance staff, IEEE OPM Managers, Yvette Ho Sang, Claire Topp

12 Executive Session Items

12.1 SASB Oversight Committee RE: a Specific Standards Committee

12.2 Ad Hoc Report RE: Recent Claim

12.3 Follow-up on the SASB Ratification of the Actions Taken by IEEE 802 LMSC in Connections with the 802.11 TGax Complaint

Executive Session concluded at 3:44 p.m. UTC on 04 December 2020.

13 Adjournment

There being no further business, the meeting was adjourned at 3:44 p.m. UTC on 04 December 2020.