

IEEE SA STANDARDS BOARD (SASB) Meeting Minutes 06 December 2023 New Brunswick, NJ, USA and Teleconference/Webex 9:00 a.m. - 5:00 p.m. ET (UTC-5)

Attendees

Chair:

David Law

Vice Chair:

Ted Burse

Past Chair:

Gary Hoffman

Secretary:

Konstantinos Karachalios

Members:

Sara Biyabani

Doug Edwards

Ramy Fathy

Guido Hiertz

Yousef Kimiagar

Thomas Koshy

John Kulick

Joseph Levy

Howard Li

Johnny Lin

Gui Liu

Xiaohui Liu

Kevin Lu

Daleep Mohla

Andrew Myles

Paul Nikolich [TAB Rep.]

Annette Reilly

Robby Robson

Lei Wang

IEEE SA STANDARDS ASSOCIATION

Keith Waters Karl Weber Philip Winston Don Wright

Members Absent:

Joe Koepfinger, Member Emeritus

IEEE Staff:

Christy Bahn

Teresa Belmont

Jennifer Biolsi

Hermann Brand

Kim Breitfelder

Matthew Ceglia

Sri Chandrasekaran

Chirag Desai

Karen Evangelista

Joshua Gay

Patrick Gibbons

Jonathan Goldberg

Katherine Gomez

Dalisa Gonzalez

Lloyd Green

Jodi Haasz

Yvette Ho Sang

Patrycja Jarosz

Anja Kaspersen

Soo Kim

Michael Kipness

Victoria Kuperman-Super

Vanessa Lalitte

Donald Lee

Juanita Lewis

Jiajia Liu

Kelly Lorne

Sandra Maru

Karen McCabe

Patrick McCarren

Suzanne Merten

Erin Morales

Karen Mulberry

IEEE SA STANDARDS ASSOCIATION

Mary Lynne Nielsen Tania Olabi-Colon Christian Orlando Moira Patterson Shana Pepin Lisa Perry Dave Ringle, Recording Secretary Pat Roder Anasthasie Sainvilus-Cantrell Jennifer Santulli Rosalinda Saravia Rudi Schubert Alpesh Shah Tom Thompson Ernesto Vega Janica Malia Zaman Meng Zhao

IEEE Outside Legal Counsel:

Claire Topp - Dorsey & Whitney LLP

Guests:

Chuck Adams Miguel Aranda Michael Atlass Edward Au Kit August

Dennis Brophy

Helena Costa

Latonia Gordon

Haiying Lu

Meng Lu

Ralf Ma

Hiroshi Mano

Jim Matthews

Celestin Ntahomvukiye

Sophia Papathanasopoulou

Glenn Parsons

Cristina Popa

Jon Rosdahl

Jessy Rouyer

Lachlan Scully



Mark Siira
Robby Simpson
Dorothy Stanley
Gary Stuebing
Donnie Swing
Barry Tilton
Victoria Wang
Constance Weise
John Wnuk

[NOTE: Some presentations are available to SASB Members in the IEEE SA Standards Board document repository, in the Files & Discussions area, in the December 2023 folder.]

1 Call to Order

SASB Chair David Law called the meeting to order at 9:00 a.m. ET (UTC-5).

2 Introductions

There was a round of introductions by all present.

It was noted that the meeting was quorate.

Chair Law welcomed the attending GEPS representatives and the IEEE SA Standards Fellowship Program participants to the 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 September 2023 SASB Meeting Minutes
- 3.2.2 AudCom Recommendations

Standards Committee P&Ps

<u>Accepted (standards work authorized):</u>



C/S2ESC IEEE Computer Society/Software & Systems

Engineering Standards Committee

C/SAB IEEE Computer Society/Standards Activities Board

GRSS/SC IEEE Geoscience and Remote Sensing

Society/Standards Committee: Standards for Earth

Observation Technical Committee

IM/NDE&II IEEE Instrumentation and Measurement Society/TC1

- Non-Destructive Evaluation and Industrial

Inspection

PEL/SC IEEE Power Electronics Society/Standards Committee

Conditionally Accepted (standards work authorized):

CASS/HSSC IEEE Circuits and Systems Society/Hardware

Security Standards Committee

New Standards Committee Recognition with Accepted P&Ps

Motion: Recognize the IEEE Circuits and Systems Society/Hardware Security Standards Committee to be abbreviated as CASS/HSSC as an official Standards Committee, in accordance with IEEE SASB Bylaws 5.2.2, upon satisfaction of the conditions related to acceptance of their Standards Committee P&P.

Motion: Recommend that the SASB recognize the IEEE Instrumentation and Measurement Society/TC1 – Non-Destructive Evaluation and Industrial Inspection, to be abbreviated as IM/NDE&II, as an official Standards Committee, in accordance with IEEE SASB Bylaws 5.2.2.

3.2.3 NesCom Recommendations

PARs for Administrative Withdrawal

PAR Number	Standards Committee	Title
		Standard for Electricity Access
		Requirements for DC Low
		Power not exceeding 60 V
P2030.10.2	BOG/SC21/P2030.10.2	(SASB/SCC21/P2030.10.2)
		Time-Sensitive Networking
		Profile for Service Provider
P802.1DF	C/LAN/MAN/802.1 WG	Networks



		Recommended Practices for
		Evaluation of Adaptive
P2247.3	C/LT/AIS	Instructional Systems
		Standard Profiles for ISO 8583
P1940	COM/EdgeCloud-SC/PayAuth	Authentication Services
		Standard for the Framework
		of Blockchain Use in Internet
P2418.1	CTS/BSC/BIOTWG	of Things (IoT)
		Standard for Cryptocurrency
P2418.9	CTS/BSC/CBSTWG	Based Security Tokens
		Health Informatics - Device
		Interoperability - Part 10721:
		Point-of-Care Medical Device
		Communication - Device
		Specialization - High
		Frequency (200 kHz to < 5
P11073-10721	EMB/11073/PoCD	MHz) Surgical Equipment
		Health Informatics - Device
		Interoperability - Part 10722:
		Point-of-Care Medical Device
		Communication - Device
		Specialization - Endoscopic
P11073-10722	EMB/11073/PoCD	Camera
		Health Informatics - Device
		Interoperability - Part 10723:
		Point-of-Care Medical Device
		Communication - Device
B11070 10700	EMP (4.4.0.73./D. O.D.	Specialization - Endoscopic
P11073-10723	EMB/11073/PoCD	Light Source
		Health Informatics - Device
		Interoperability - Part 10724:
		Point-of-Care Medical Device
		Communication - Device
D11072 10724	FMP /11072 /D-CD	Specialization - Endoscopic
P11073-10724	EMB/11073/PoCD	Insufflator
		Health Informatics - Device
		Interoperability - Part 10725:
		Point-of-Care Medical Device
		Communication - Device
D11072 1072E	EMB/11072/DaCD	Specialization - Suction and
P11073-10725	EMB/11073/PoCD	Irrigation Pump



		Standard for Calibration of Microwave Radiometers in the
		300 MHz to 1 THz Frequency
D4004	CDCC/CC/MANA/ C I	Range for Geoscience
P4004	GRSS/SC/MW Cal	Applications
		Standard for Harmonization of
D1 4F1 00	IM/CT/DACLI	Internet of Things (IoT)
P1451.99	IM/ST/DASH	Devices and Systems
		Guide for the Application of
		Turbine Governing Systems
D1 207	DE /EDDC/UDC WC 1207	for Hydroelectric Generating
P1207	PE/EDPG/HPS - WG 1207	Units
		Recommended Practice for
		Preparation of Equipment
		Specifications for Speed-
		Governing of Hydraulic Turbines Intended to Drive
P125	PE/EDPG/HPS - WG 125	Electric Generators
FIZJ	FL/LDFG/TIF3 - WG 123	Guide for Generating Station
P665	PE/EDPG/SDOC-WG665/P665	Grounding
F003	FE/EDFG/SDOC-WG005/F005	Standard for Rotating Electric
		Machinery for Rail and Road
P11	PE/EM/Motor - WG11	Vehicles
	1 2, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Recommended Practice for
		Battery Monitoring in
P1491	PE/ESSB/WG 1491	Stationary Applications
		Guide for Selection and
		Design of Aluminum Sheaths
P635	PE/IC/A15W/P635_WG	for Power Cables
	, , , , <u>-</u> -	Standard for Test Procedures
		and Requirements for Joints
		and Live Front Terminations
		installed on Extruded or
		Laminated Dielectric Shielded
	PE/IC/B22W: Distr. 48-	Power Cable Systems Rated
P48404.1	404/P48404.1	2.5 kV through 46 kV AC
		Standard for Terminations and
		Joints for Extruded and
		Laminar Dielectric Shielded
	PE/IC/B23W: Transmission	Cables Rated 69 kV through
P48404.2	48-404	500 kV



DCC2 F1		Guide for the Application of Plug-in Multiservice Surge-Protective Devices (MSPDs) for Equipment Connected to AC Mains and Information and Communication Technology
PC62.51	PE/SPDLV/LV3.6.10	(ICT) Metallic Cables
PC62.41.1	PE/SPDLV/LV3.6.4	Guide on the Surge Environment in Low-Voltage (1000 V and less) AC Power Circuits
PC62.41.4	PE/SPDLV/LV3.6.4	Recommended Practice on Surge Testing for Equipment Connected to Low-Voltage (1000 V and less) AC Power Circuits
PC37.122.9	PE/SUB/WGK14	Guide for Condition Assessment of Gas-Insulated Substations
PC37.301	PE/SWG/Adscom/C37.301	Standard for High-Voltage Switchgear (Above 1000 V) Test Techniques - Partial Discharge Measurements
P1368	PE/T&D/TPC-1368 WG	Guide for Aeolian Vibration Field Measurements of Overhead Conductors
P691	PE/T&D/TPC-15.11.03	Guide for Transmission Structure Foundation Design and Testing
P1218	PE/T&D/TPC-15.11.08-10	Trial-Use Guide for Maintenance of Wood Transmission and Distribution Line Structures
PC57.13- 2016/Cor 1	PE/TR/Instrument-WGC57.13	Standard Requirements for Instrument Transformers - Corrigendum 1
PC57.13.2	PE/TR/Instrument- WGC57.13.2	Standard for Conformance Test Procedure for Instrument Transformers
P2520	SEN/SC-SC/TMODS	Guide for Testing Machine Olfaction Devices and Systems



Project Number Change Requests

IEEE Instrumentation and Measurement Society/TC9 – Sensor Technology (IM/ST) to change P21451-7 to P1451.7 Title: Standard for Smart Transducer Interface for Sensors and Actuators-Transducers to Radio Frequency Identification (RFID) Systems Communication Protocols and Transducer Electronic Data Sheet (TEDS) Formats

IEEE Computer Society/Standards Activities Board (C/SAB) to change P3401 to P3079.4 Title: Standard for the Visual Quality Assessment of Auto-Stereoscopic Displays

Withdrawal Requests

IEEE Communications Society/Dynamic Spectrum Access Networks Standards Committee

P1900.5

Standard for Requirements and System Architectures for Dynamic Spectrum Access Systems

Recommendation: Approve PAR withdrawal.

IEEE Power and Energy Society/Analytic Methods for Power Systems

P2882

Guide for Validation of Software Models of Renewable and Conventional Generators for Power System Studies

Recommendation: Approve PAR withdrawal.

Modified PARs

IEEE Engineering in Medicine and Biology Society/Standards Committee

P2795

Standard for Shared Analytics Across Secure and Unsecured Networks **Recommendation:** Approve modified PAR.

IEEE Industry Applications Society/Petroleum & Chemical Industry

P61886.2

Subsea Power Transformers



Recommendation: Approve modified PAR.

IEEE Power and Energy Society/Electric Machinery

P43

Standard for Testing Insulation Resistance of Electric Machinery

Recommendation: Approve modified PAR.

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

P2815

Guide for the Technical Specification of Smart Distribution Transformer Terminal **Recommendation:** Approve modified PAR.

IEEE Signal Processing Society/Synthetic Aperture Standards Committee

P3199

Standard for a Synthetic Aperture Sonar Data Format

Recommendation: Approve modified PAR.

P3343

Standard for the Spatio-temporal Synchronization of a Synthetic Aperture of Distributed Sensors

Recommendation: Approve modified PAR.

Extension Requests

IEEE Communications Society/Mobile Communication Networks Standards Committee

P1932.1

Standard for Licensed/Unlicensed Spectrum Interoperability in Wireless Mobile Networks

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

IEEE Communications Society/Unmanned Aerial Vehicles Communications Standards Committee

P1937.3

Protocol for the Flight Data Transmission of Civil Unmanned Aerial Vehicle Based on BeiDou Short Message



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

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

P1938.1

Standard for Software Defined Protocol and Functional Requirements for Improvement of the Signal-to-Noise Ratio (SNR) in Communications Channels **Recommendation:** Approve request for an extension until 31 December 2025.

IEEE Computer Society/Software & Systems Engineering Standards Committee

P1228

Standard for Software Safety

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

IEEE Dielectrics and Electrical Insulation Society/Standards Committee

P1043

Recommended Practice for Voltage-Endurance Testing of Form-Wound Bars and Coils

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

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 31 December 2025.

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

P11073-10107

Health Informatics – Device Interoperability – Part 10107: Point-of-Care Medical Device Communication – Nomenclature for External Control of Medical Devices **Recommendation:** Approve request for an extension until 31 December 2025.

P11073-10441



Health Informatics – Device Interoperability – Part 10441: Personal Health Device Communication – Device Specialization – Cardiovascular Fitness and Activity Monitor

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

P11073-10702

Health Informatics – Device Interoperability – Part 10702: Point-of-Care Medical Device Communication – Alert Provisioning by Participants in a Service-Oriented Device Connectivity (SDC) System

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

P11073-10703

Health Informatics – Device Interoperability – Part 10703: Point-of-Care Medical Device Communication – External Control by Participants in a Service-Oriented Device Connectivity (SDC) System

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

P11073-10720

Health Informatics – Device Interoperability – Part 10720: Point-of-Care Medical Device Communication – Module Specifications for a Service-Oriented Medical Device Exchange Architecture

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

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

P3002.9

Recommended Practice for Conducting Transient Stability Studies and Analysis of Industrial and Commercial Power Systems

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

P3003.4

Recommended Practice for Connections to Earth for Alternating Current (AC) Industrial and Commercial Power Systems Facilities

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

IEEE Industry Applications Society/Petroleum & Chemical Industry

P61886.2

Subsea Power Transformers

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



IEEE Instrumentation and Measurement Society/TC41 – Traffic Enforcement Technologies

P2452

Standard for the Performance of Lidar Used in Traffic Speed Measurements **Recommendation:** Approve request for an extension until 31 December 2025.

IEEE Power and Energy Society/Electric Machinery

P286

Recommended Practice for Measurement of Power Factor Tip-Up of Electric Machinery Stator Coil Insulation

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

P1415

Guide for Induction Machinery Maintenance Testing and Failure Analysis **Recommendation:** Approve request for an extension until 31 December 2025.

P1434

Guide for the Measurement of Partial Discharges in AC Electric Machinery **Recommendation:** Approve request for an extension until 31 December 2025.

P1553

Standard for Voltage Endurance Testing of Form-Wound Coils and Bars for Hydrogenerators

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

P1665

Guide for the Rewind of Synchronous Generators, 50 Hz and 60 Hz, Rated 1 MVA and Above

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

P2465

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

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

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

P1189

Guide for Selection of Batteries for Standby Applications



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

P2685

Recommended Practice for Energy Storage for Stationary Engine-Starting Systems **Recommendation:** Approve request for an extension until 31 December 2025.

IEEE Power and Energy Society/Insulated Conductors

P495

Standard for Testing Faulted Circuit Indicators

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

IEEE Power and Energy Society/Nuclear Power Engineering Committee

P334

Standard for Qualifying Alternating Current Class 1E Motors for Nuclear Power Generating Stations

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

P62582-1

Nuclear Power Plants – Instrumentation and Control Important to Safety – Electrical Equipment Condition Monitoring Methods – Part 1: General **Recommendation:** Approve request for an extension until 31 December 2024.

P62582-3

Nuclear Power Plants - Instrumentation and Control Important to Safety – Electrical Equipment Condition Monitoring Methods – Part 3: Elongation at Break **Recommendation:** Approve request for an extension until 31 December 2024.

P63332-387

Nuclear Facilities – Electrical Power Systems – Part 387: Diesel Generator Units Applied as Standby Power Sources

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

IEEE Power and Energy Society/Power System Communications and Cybersecurity

P1591.4

Standard for Testing and Performance of Hardware for Optical Fiber Composite Overhead Phase Conductor (OPPC)

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



P1711.1

Standard for a Cryptographic Protocol for Cyber Security of Substation Serial Links: Substation Serial Protection Protocol

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

P2808

Standard for Function Designations used in Electrical Power Systems for Cyber Services and Cybersecurity

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

PC37.118.2

Standard for Synchrophasor Data Transfer for Power Systems

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

IEEE Power and Energy Society/Power System Instrumentation and Measurements

P454

Guide for the Detection, Measurement, and Interpretation of Partial Discharges **Recommendation:** Approve request for an extension until 31 December 2025.

P1122

Standard for Digital Recorders for Measurements in High-Voltage and High-Current Impulse Tests

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

P2426

Guide for Field Measurement of Fast-Front and Very Fast-Front Overvoltages in Electric Power System – Part 1: Measuring Techniques

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

IEEE Power and Energy Society/Power System Relaying and Control

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 request for an extension until 31 December 2024.

PC37.99

Guide for the Protection of Shunt Capacitor Banks

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



PC37.249

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

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

PC37.251

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

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

PC37.252

Guide for Testing Automatic Voltage Control Systems in Regional Power Grids **Recommendation:** Approve request for an extension until 31 December 2025.

IEEE Power and Energy Society/Substations

P81

Guide for Measuring Earth Resistivity, Ground Impedance, and Earth Surface Potentials of a Grounding System

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

PC37.122.3

Guide for Sulphur Hexafluoride (SF6) Gas Handling for High-Voltage (over 1000 Vac) Equipment

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

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

PC62.37

Standard for Test Methods and Preferred Values for Thyristor Surge Protective Components

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

PC62.41.2

Recommended Practice on Characterization of Surges in Low-Voltage (1000 V and less) AC Power Circuits

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

IEEE Power and Energy Society/Switchgear

PC37.20.4



Standard for AC Switches Rated above 1 kV up to 52 kV for Use in Metal-Enclosed Switchgear

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

PC37.68

Standard Design, Test, and Application Requirements for Microprocessor-Based Controls of Distribution Padmount, Dry Vault, Wet Vault, and Polemount Switchgear Rated Above 1 kV and up to and including 38 kV

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

IEEE Power and Energy Society/Transformers

P63253-5713-8

Standard Requirements for Station Service Voltage Transformers

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

PC57.12.44

Standard Requirements for Secondary Network Protectors

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

PC57.124

Recommended Practice for the Detection of Partial Discharge and the Measurement of Apparent Charge in Dry-Type Transformers

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

PC57.162

Guide for the Interpretation of Moisture Related Parameters in Liquid Immersed Transformers and Reactors

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

IEEE Power and Energy Society/Transmission and Distribution

P18

Standard for Shunt Power Capacitors

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

P957

Guide for Monitoring, Managing, and Cleaning of Contaminated Insulators **Recommendation:** Approve request for an extension until 31 December 2024.

P1410



Guide for Improving the Lightning Performance of Electric Power Overhead Distribution Lines

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

P2748

Recommended Practice for Fault Diagnosis and Protection in Smart Distribution System

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

IEEE Robotics and Automation Society/Standing Committee for Standards

P2751

3D Map Data Representation for Robotics and Automation

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

P7008

Standard for Ethically Driven Nudging for Robotic, Intelligent, and Autonomous Systems

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

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

P2030.10.1

Standard for Electricity Access Requirements with Safety Extra Low Voltage (SELV) DC for Tier II and Tier III of Energy Sector Management Assistance Program (ESMAP) Multi-Tier Framework for Household Electricity Supply

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

IEEE SA Board of Governors/Entity Collaborative Activities Governance Board

P2413.2

Standard for a Reference Architecture for Power Distribution IoT (PDIoT) **Recommendation:** Approve request for an extension until 31 December 2025.

New PARs

IEEE Circuits and Systems Society/Flexible and Wearable Circuits and Systems Standards Committee

P3435



Standard for Digital Stethoscope

Recommendation: Approve new PAR until December 2027.

IEEE Computer Society/Artificial Intelligence Standards Committee

P3426

Standard for Defining and Measuring the Capabilities of AI Foundation Models **Recommendation:** Approve new PAR until December 2027.

P3427

Standard for Federated Machine Learning of Semantic Information Agents **Recommendation:** Approve new PAR until December 2027.

P3428

Standard for Large Language Model Agents for AI-Powered Education **Recommendation:** Approve new PAR until December 2027.

P3429

Recommended Practices for Levels of Artificial Intelligence Generated Content Technologies

Recommendation: Approve new PAR until December 2027.

P3430

Recommended Practice for a Holistic Framework for AI Foundation Models **Recommendation:** Approve new PAR until December 2027.

P3445

Standard for Privacy Engineering Maturity Model

Recommendation: Approve new PAR until December 2027.

IEEE Computer Society/Blockchain and Distributed Ledgers

P3232

Standard for Blockchain-Based Renewable Energy Certificates Trading Technical Specifications

Recommendation: Approve new PAR until December 2027.

IEEE Consumer Technology Society/Smart Devices Standards Committee

P3437

Standard for Privacy Enhancing Machine Learning Based on Terminal and Cloud Collaboration



Recommendation: Approve new PAR until December 2027.

IEEE Intelligent Transportation Systems Society/Standards Committee

P3439

Guide for Driving Risk Assessment Procedure in SAE Level 1 to 3 **Recommendation:** Approve new PAR until December 2027.

P3442

Standard for Multimodal Logistics Corridors for Resilient Food Supply **Recommendation:** Approve new PAR until December 2027.

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

P3434

Guide for the Project Development, Facility Design, Installation, Operations and Maintenance (O&M) for Grid Connected Energy Storage Systems (ESSs) **Recommendation:** Approve new PAR until December 2027.

IEEE Power and Energy Society/Substations

P3443

Guide for Substation Physical Resilience

Recommendation: Approve new PAR until December 2027.

IEEE Power and Energy Society/Transmission and Distribution

P3413

Guide for Technical Requirements and Acceptance Methods of Double Horizontal Jibs Gin Pole on Ground for Transmission Tower Erection **Recommendation:** Approve new PAR until December 2027.

IEEE Robotics and Automation Society/Standing Committee for Standards

P1872.1.1

Guide for Practical Implementations of IEEE 1872.1-2024 Standard for Robot Task Representation

Recommendation: Approve new PAR until December 2027.

IEEE SA Board of Governors/Entity Collaborative Activities Governance Board



P3300

Adoption of Moving Picture, Audio and Data Coding by Artificial Intelligence (MPAI) Technical Specification Multimodal Conversation (MMC) Version 2 **Recommendation:** Approve new PAR until December 2027.

P3301

Adoption of Moving Picture, Audio and Data Coding by Artificial Intelligence (MPAI) Technical Specification Artificial Intelligence Framework (AIF) Version 2

Recommendation: Approve new PAR until December 2027.

P3305

Adoption of Moving Picture, Audio and Data Coding by Artificial Intelligence (MPAI) Technical Specification MPAI Metaverse Model (MMM) Architecture Version 1 **Recommendation:** Approve new PAR until December 2027.

P3306

Adoption of Moving Picture, Audio and Data Coding by Artificial Intelligence (MPAI) Technical Specification Portable Avatar Format (PAF) Version 1 **Recommendation:** Approve new PAR until December 2027.

P3307

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

Recommendation: Approve new PAR until December 2027.

IEEE Systems, Man, and Cybernetics Society/Standards Committee

P3436

Guide for Electric Vehicle Charging Load Prediction

Recommendation: Approve new PAR until December 2027.

PARs for the Revision of Standards

IEEE Communications Society/Dynamic Spectrum Access Networks Standards Committee

P1900.5.1

Standard for Policy Language for Dynamic Spectrum Access Systems **Recommendation:** Approve PAR for the revision of a standard until December 2027.



IEEE Computer Society/Software & Systems Engineering Standards Committee

P24748-4

Systems and Software Engineering – Life Cycle Management – Part 4: Systems Engineering Management Planning

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

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

P902

Recommended Practice for Maintenance and Operational Safety of Electrical Power Distribution Systems in Industrial and Commercial Facilities

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

IEEE Industry Applications Society/Petroleum & Chemical Industry

P45.3

Recommended Practice for Shipboard Electrical Installations – Systems Engineering

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

IEEE Microwave Theory and Techniques Society/Standards Committee

P1785.1

Standard for Rectangular Metallic Waveguides and their Interfaces for Frequencies of 110 GHz and Above – Part 1: Frequency Bands and Waveguide Dimensions **Recommendation:** Approve PAR for the revision of a standard until December 2027.

P1785.2

Standard for Rectangular Metallic Waveguides and their Interfaces for Frequencies of 110 GHz and Above – Part 2: Waveguide Interfaces

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

P1785.3



Recommended Practice for Rectangular Metallic Waveguides and their Interfaces for Frequencies of 110 GHz and Above – Part 3: Recommendations for Performance and Uncertainty Specifications

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

IEEE Power and Energy Society/Analytic Methods for Power Systems

P762

Standard Definitions for Use in Reporting Electric Generating and Storage Unit Reliability, Availability, and Productivity

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

IEEE Power and Energy Society/Energy Development & Power Generation

P1249

Guide for Digital Control for Hydroelectric Power Plant Automation **Recommendation:** Approve PAR for the revision of a standard until December 2027.

P2778

Guide for Solar Power Plant Grounding for Personnel Protection **Recommendation:** Approve PAR for the revision of a standard until December 2027.

IEEE Power and Energy Society/Power System Relaying and Control

PC37.231

Standard Common Format for Documenting Intelligent Electronic Device (IED) Firmware or Software Changes and Confirming their Transmittal **Recommendation:** Approve PAR for the revision of a standard until December 2027.

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

PC62.39

Standard for Test Methods and Preferred Values for Self-Restoring Current-Limiter Components Used in Telecommunication Surge Protection

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



PC62.44

Guide for the Application of Low-Voltage (1000 V rms or Less) Surge Protective Devices Used on Secondary Distribution Systems (Between the Transformer Low-Voltage Terminals and the Line Side of the Service Equipment)

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

PC62.50

Standard for Performance Criteria and Test Methods for Plug-In (Portable) Multiservice (Multiport) Surge-Protective Devices for Equipment Connected to a 120 V/240 V Single Phase Power Service and Metallic Conductive Communication Line(s)

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

PC62.72

Guide for the Application of Surge-Protective Devices for Use on the Load Side of Service Equipment in Low-Voltage (1000 V or Less, 50 Hz or 60 Hz) AC Power Circuits

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

IEEE Power and Energy Society/Switchgear

PC37.12

Guide for Specifications of AC High-Voltage Circuit Breakers (over 1000 V) **Recommendation:** Approve PAR for the revision of a standard until December 2027.

PC37.015

Guide for the Application of Shunt Reactor Switching

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

IEEE Power and Energy Society/Transformers

P638

Standard for Qualification of Class 1E Transformers for Nuclear Power Generating Stations

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



PC57.12.32

Standard for Submersible Equipment – Enclosure Integrity

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

3.2.4 RevCom Recommendations

New

IEEE Computer Society/Artificial Intelligence Standards Committee

P2986/Draft 1.1

IEEE Draft Recommended Practice for Privacy and Security for Federated Machine Learning

Recommendation: APPROVE

P3156/Draft 2.1

IEEE Draft Standard for Requirements of Privacy-preserving Computation Integrated Platforms

Recommendation: APPROVE

IEEE Computer Society/Blockchain and Distributed Ledgers

P3224/Draft 5.0

IEEE Draft Standard for Blockchain-Based Green Power Identification Application

Recommendation: APPROVE

IEEE Computer Society/Standards Activities Board

P2888.4/Draft 3

IEEE Draft Standard on Architecture for Virtual Reality Disaster Response Training System with Six degrees of Freedom (6 DoF)

Recommendation: APPROVE

IEEE Electromagnetic Compatibility Society/Standards Development Committee

P2718/Draft 10

IEEE Draft Guide for Near Field Characterization of Unintentional Stochastic Radiators

Recommendation: APPROVE



IEEE Industry Applications Society/Petroleum & Chemical Industry

P61886.2/Draft 4

IEC/IEEE International Draft Standard – Subsea Equipment – Part 2: Power Transformers

Recommendation: Conditionally approved based on SASB approval of the Modified PAR

IEEE Instrumentation and Measurement Society/TC9 – Sensor Technology

P1588d/Draft 1.4

IEEE Draft Standard for a Precision Clock Synchronization Protocol for Networked Measurement and Control Systems Amendment: GDOI (Group Domain of Interpretation) Key Management

Recommendation: APPROVE

IEEE Power and Energy Society/Electric Machinery

P2465/Draft 16

IEEE Draft Trial-Use Recommended Practice for Pulse-Type Partial Discharge Measurements on Individual Stator Coils and Bars

Recommendation: APPROVE

IEEE Power and Energy Society/Switchgear

PC37.68/Draft 3.6

IEEE Draft Standard for Design, Test, and Application Requirements for Microprocessor-Based Controls of Distribution Pad-mount, Dry Vault, Wet Vault, and Polemount Switchgear Rated above 1 kV and up to and including 38 kV

Recommendation: APPROVE

IEEE Power and Energy Society/Transformers

PC57.105-2019/Cor 1/Draft 5

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

Recommendation: APPROVE

PC57.160/Draft 7.6

IEEE Draft Guide for the Electrical Measurement of Partial Discharge in High Voltage Bushings and Instrument Transformers



Recommendation: APPROVE

IEEE Power and Energy Society/Transmission and Distribution

P2748/Draft 5.4

IEEE Draft Recommended Practice for Fault Diagnosis and Protection in Smart Distribution System

Recommendation: APPROVE

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

P2030.10.1/Draft 6

IEEE Draft Standard for Electricity Access Requirements with Safety Extra Low Voltage (SELV) DC for Tier 2 and Tier 3 of the ESMAP Multi-Tier Framework for Household Electricity Supply

Recommendation: APPROVE

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

P1671.1-2017/Cor 1/Draft 5

IEEE Draft Standard for Automatic Test Markup Language (ATML) Test

Descriptions - Corrigendum 1
Recommendation: APPROVE

Revision

IEEE Communications Society/Power Line Communications

P2030.5/Draft 4

IEEE Draft Standard for Smart Energy Profile Application Protocol

Recommendation: APPROVE

IEEE Computer Society/Design Automation

P1800/Draft 18

IEEE Draft Standard for SystemVerilog – Unified Hardware Design, Specification, and Verification Language

Recommendation: APPROVE

IEEE Computer Society/Test Technology



P1450/Draft 2

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

Recommendation: APPROVE

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

P11073-10419/Draft 15

IEEE Draft Standard for Health Informatics – Device interoperability – Part 10419: Personal Health Device Communication – Device Specialization – Insulin Pump

Recommendation: APPROVE

IEEE Industry Applications Society/Petroleum & Chemical Industry

P1662/Draft 8.2

IEEE Draft Recommended Practice for the Design and Application of Power Electronics in Electrical Power Systems

Recommendation: APPROVE

IEEE Power and Energy Society/Power System Communications and Cybersecurity

P1692/Draft 7

IEEE Draft Guide for the Protection of Communication Installations from Lightning Effects

Recommendation: APPROVE

IEEE Power and Energy Society/Power System Relaying and Control

PC37.102/Draft 7.8

IEEE Draft Guide for AC Generator Protection

Recommendation: APPROVE

PC37.109/Draft 3.6

IEEE Draft Guide for the Protection of Shunt Reactors

Recommendation: APPROVE

IEEE Power and Energy Society/Substations

P605/Draft 11

IEEE Draft Guide for Bus Design in Air Insulated Substations



Recommendation: APPROVE

P1127/Draft 4.2

IEEE Draft Guide for the Design, Construction, and Operation of Electric Power Substations for Community Acceptance and Environmental Compatibility

Recommendation: APPROVE

PC37.123/Draft 3

IEEE Draft Guide for Specifications for High-Voltage Gas-Insulated Substations Rated above 52 kV

Recommendation: APPROVE

IEEE Power and Energy Society/Transformers

PC57.12.28/Draft 7.3

IEEE Draft Standard for Pad-Mounted Equipment - Enclosure Integrity

Recommendation: APPROVE

PC57.12.29/Draft 7.3

IEEE Draft Standard for Pad-Mounted Equipment – Enclosure Integrity for Coastal

Environments

Recommendation: APPROVE

IEEE Power and Energy Society/Transmission and Distribution

PC135.80/Draft 2

IEEE Draft Standard for Fasteners for Overhead Line Construction

Recommendation: APPROVE

4 SASB Standing Committee Reports

4.1 Audit Committee (<u>AudCom</u>)

Kevin Lu, AudCom Chair, reported.

4.2 New Standards Committee (NesCom)

Lei Wang, NesCom Chair, reported.

4.3 Patent Committee (PatCom)

John Kulick, PatCom Chair, reported.



SASB Chair Law noted that John had served 17 consecutive years on the SASB.

There was a motion, which was approved by acclamation:

The IEEE SA Standards Board thanks John Kulick for his 17 years of service to the IEEE SA Standards Board and to the IEEE SA.

4.4 Procedures Committee (ProCom)

Ted Burse, ProCom Chair, reported.

4.5 Standards Review Committee (RevCom)

Keith Waters, RevCom Chair, reported.

It was noted that RevCom had recommended approval for a record number of submittals in 2023.

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

IEEE SA President Jim Matthews gave a verbal update.

Jim thanked the SASB and SASB standing committee members for their work and support in 2023.

Jim noted that Gary Hoffman will be the IEEE SA President Elect in 2024.

6.3 IEEE SA Managing Director's Report

The written IEEE SA Managing Director's Report was made available in the SASB document repository.



Konstantinos Karachalios, IEEE SA Managing Director, provided a <u>ten-year story</u> seen from the angle of the IEEE SA strategic goals (defined around 2013).

There was a motion, which was approved by acclamation and accompanied by a plaque:

The IEEE SA Standards Board Award of Distinction is presented to Konstantinos Karachalios for his support and guidance during his tenure as Managing Director of the IEEE Standards Association staff [2012-2023].

There was a round of applause for Konstantinos.

6.4 SASB Chair's Report

Chair Law reported.

Chair Law was thanked for his service as Chair in 2023.

6.5 TAB CoS <u>Update</u>

Edward Au, TAB CoS Chair, reported.

7 New Business

None.

8 2024 Calendar Update

Chair Law noted that the IEEE SA BOG endorsed the IEEE SA SPCC recommendation that the September 2024 IEEE SA Standards Board meeting series be moved from Tel Aviv, Israel to Athens, Greece.

There was a motion:

Move the September 2024 SASB meeting series venue from Tel Aviv, Israel to Athens, Greece.

In the absence of objection, the motion was approved.

9 Next Meeting



The next SASB meeting will be scheduled for 21 March 2024 in London, UK.

10 SASB Resolutions

The SASB recognized the IEEE Circuits and Systems Society/Hardware Security Standards Committee to be abbreviated as CASS/HSSC, as an official Standards Committee, in accordance with IEEE SASB Bylaws 5.2.2.

The SASB recognized the IEEE Instrumentation and Measurement Society/TC1 – Non-Destructive Evaluation and Industrial Inspection, to be abbreviated as IM/NDE&II, as an official Standards Committee, in accordance with IEEE SASB Bylaws 5.2.2.

Chair Law thanked all of the attendees for their participation in the meeting and wished everyone Happy Holidays and a Happy New Year.

The SASB entered Executive Session at 2:00 p.m. ET (UTC-5).

11 Executive Session Items

- 11.1 SASB Oversight Committee RE: a Specific Standards Committee
- 11.2 Report from Ad Hoc RE: Standards Development Activities
- 11.3 Report from Mentors for a Specific Project

The SASB concluded Executive Session at 3:52 p.m. ET (UTC-5).

Report Out from the Executive Session:

The SASB requires that the Standards Committee re-form the P1937.7 IEEE SA balloting group.

12 Adjournment

There being no further business, the meeting was adjourned at 3:53 p.m. ET (UTC-5).