

IEEE-SA Standards Board Meeting Minutes – December 2017

IEEE-SA Standards Board

Meeting Minutes

06 December 2017

IEEE Operations Center, Piscataway, New Jersey, USA

Attendees

Chair:

Jean-Philippe Faure

Vice Chair:

Gary Hoffman

Past Chair:

John Kulick

Secretary:

Konstantinos Karachalios

Members:

Chuck Adams

Masayuki Ariyoshi

Ted Burse

Stephen Dukes

Doug Edwards

Travis Griffith

Michael Janezic

Thomas Koshy

Kevin Lu

Daleep Mohla

Damir Novosel, TAB Rep.

Ron Petersen

Annette Reilly

Robby Robson

Dorothy Stanley

Adrian Stephens

Phil Wennblom

Howard Wolfman

IEEE-SA Standards Board Meeting Minutes – December 2017

Yu Yuan

Joe Koepfinger, Member Emeritus

Members Absent:

Mehmet Ulema

IEEE Staff:

Natasha Alvarado

Melissa Aranzamendez

Bill Ash

Christy Bahn

Kathryn Bennett

Kim Breitfelder

Matthew Ceglia

Donna Ceruto

Sri Chandrasekaran

Rob Craig

Ravindra Desai

Patti Dominach

Susan England-Lutz

Karen Evangelista

Tricia Gerdon

Jonathan Goldberg

Lloyd Green

Kathy Grise

Jodi Haasz

Mary Ellen Hanntz

Yvette Ho Sang

Noelle Humenick

Karen Kenney

Soo Kim

Michael Kipness

Victoria Kuperman-Super

Dan Lang

Juanita Lewis

Kelly Lorne

Greg Marchini

Daniella Martinez

Karen McCabe

Adam Newman

Mary Lynne Nielsen

Nicholas Orlando

Jeff Pane

Moira Patterson

IEEE-SA Standards Board Meeting Minutes – December 2017

Lisa Perry
Walter Pienciak
Dave Ringle, Recording Secretary
Pat Roder
Jennifer Santulli
Rudi Schubert
Sam Sciacca
Alpesh Shah
Erin Spiewak
Tanya Steinhauser
Walter Sun
Susan Tatiner
Cherry Tom
Michelle Turner
Chris Verga
Albert Waldhuber
Lisa Weisser
Joan Woolery
Malia Zaman
Meng Zhao

IEEE Outside Legal Counsel:

Claire Topp

Guests:

Michael Atlass
Dennis Brophy
Evelyn Chen
Scott Gilfillan
Richard Holub
Victor Huang
Chris Hunter
Roland Johansson
Chad Jones
Chileshe Kapaya
Bruce Kraemer
Joseph Levy
Hung Ling
Xiaohui Liu
John Messenger
William Miller
Patrick Murphy
Paul Nikolich
Gil Ohana
Glenn Parsons

Jon Rosdahl
Deo Rukundo
Matteo Sabattini
Andrea Santana
Jack Sheldon
Patrick Slaats
Victoria Wang
Constance Weise
Philip Winston
Don Wright
Xinhua Yu
Zhijun Zhang
Jingyi Zhou

1 Call to Order

Chair Faure called the meeting to order at 9:00 a.m. There was a round of introductions from all present.

2 Agenda

2.1 Approval of [Agenda](#)

There was a motion to approve the agenda. The agenda was unanimously approved.

2.2 Consent Agenda

2.2.1 Approval of 28 September 2017 SASB Meeting [Minutes](#)

2.2.2 AudCom Recommendations

Accepted (standards work authorized):

- PE/PSRCC Power and Energy Society/Power System Relaying and Control Committee
- PE/SPDHV Power and Energy Society/Surge Protective Devices/High Voltage
- VT/RTSC Vehicular Technology Society/Rail Transportation Standards Committee

2.2.3 ICCom Recommendations

New Industry Connections Activity:

IC17-015-01 Optical Networks 2020

IEEE-SA Standards Board Meeting Minutes – December 2017

ICAID: <https://iee-SA.imeetcentral.com/p/eAAAAAAAOC-eAAAAAGmytNO>

Recommendation: Approve

IC17-016-01 IC Industry Consortium on Learning Engineering

ICAID: <https://iee-SA.imeetcentral.com/p/eAAAAAAAOCtAAAAABVwuKY>

Recommendation: Approve

IC17-017-01 Blockchain Asset Exchange

ICAID: <https://iee-SA.imeetcentral.com/p/eAAAAAAAOL2AAAAAH6Kjs>

Recommendation: Approve

IC17-018-01 IEEE VR/AR Advisory Board

ICAID: <https://iee-SA.imeetcentral.com/p/eAAAAAAAOLzAAAAAB6PyCw>

Recommendation: Approve

Renewed/Revised Industry Connections Activity:

IC15-004-02 3D Body Processing

ICAID: <https://iee-SA.imeetcentral.com/p/eAAAAAAAOA6hAAAAAHIDcXU>

Recommendation: Approve

2.2.4 NesCom Recommendations

Withdrawal Requests:

IEEE Computer Society/Software & Systems Engineering Standards Committee

P20000-1

Information Technology – Service Management – Part 1: Service Management System Requirements

Recommendation: Approve PAR withdrawal

IEEE Communications Society/Standards Development Board

P1908.1

Virtual Keyboard Standard for Indic Languages

Recommendation: Approve PAR withdrawal

IEEE Industry Applications Society/Technical Books Coordinating Committee

P3004.9

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

Recommendation: Approve PAR withdrawal

P3004.10

Recommended Practice for Generator Protection in Industrial and Commercial Power Systems

Recommendation: Approve PAR withdrawal

P3004.13

Recommended Practice for Overcurrent Coordination in Industrial and Commercial Power Systems

Recommendation: Approve PAR withdrawal

IEEE Instrumentation and Measurement Society/TC25 – Medical and Biological Measurements

P1721

Standard for Objective Measurement of Systemic Arterial Blood Pressure in Humans

Recommendation: Approve PAR withdrawal

Modified PARs:

IEEE Computer Society/LAN/MAN Standards Committee

P802.11ax

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 Amendment Enhancements for High Efficiency WLAN

Recommendation: Approve modified PAR

IEEE Computer Society/Software & Systems Engineering Standards Committee

P82079-1

Preparation of Information for Use (Instructions for Use) of Products – Part 1: Principles and General Requirements

Recommendation: Approve modified PAR

IEEE Computer Society/Standards Activities Board

P1680.4

Standard for Environmental Leadership and Corporate Social Responsibility Assessment of Servers

Recommendation: Approve modified PAR

IEEE Electromagnetic Compatibility Society/Standards Development Committee

P1128

Recommended Practice for Radio-Frequency (RF) Absorber Evaluation in the Range of 30 MHz to 40 GHz

Recommendation: Approve modified PAR

P1848

Techniques & Measures to Manage Functional Safety and Other Risks with Regard to Electromagnetic Disturbances

Recommendation: Approve modified PAR

IEEE Industry Applications Society/Petroleum & Chemical Industry

P844.3

Standard for Impedance Heating of Pipelines and Equipment – General, Testing, Marking, and Documentation Requirements

Recommendation: Approve modified PAR

P844.4

Standard for Impedance Heating of Pipelines and Equipment – Application Guide for Design, Installation, Testing, Commissioning, and Maintenance

Recommendation: Approve modified PAR

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

P1679.1

Guide for the Characterization and Evaluation of Lithium-Based Batteries in Stationary Applications

Recommendation: Approve modified PAR

P1679.2

Guide for the Characterization and Evaluation of Sodium-Beta Batteries in Stationary Applications

Recommendation: Approve modified PAR

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

PC62.43.1

Guide for Surge Protectors and Surge Protective Circuits Used in Information and Communication Technology Circuits (ICT) including Smart Grid – Part 1 Applications

Recommendation: Approve modified PAR

IEEE Vehicular Technology Society/Rail Transportation Standards Committee

P1627

Standard for Transient Overvoltage Protection of DC Electrification Systems by Application of DC Surge Arresters

Recommendation: Approve modified PAR

Extension Requests:

IEEE Computer Society/LAN/MAN Standards Committee

P802.15.8

Wireless Medium Access Control (MAC) and Physical Layer (PHY) Specifications for Peer Aware Communications (PAC)

Recommendation: Approve request for an extension until December 2018

IEEE Computer Society/Standards Activities Board

P1680.4

Standard for Environmental Assessment of Servers

Recommendation: Approve request for an extension until December 2019

P1857.4

Standard for 2nd Generation IEEE 1857 Video Coding

Recommendation: Approve request for an extension until December 2019

P1857.6

Standard for Digital Media Content Description

Recommendation: Approve request for an extension until December 2019

IEEE Computer Society/Test Technology

P1450.4

Standard for Extensions to Standard Test Interface Language (STIL) (IEEE Std. 1450-1999) for Test Flow Specification

Recommendation: Approve request for an extension until December 2018

P1804

Standard for Fault Accounting and Coverage Reporting to Digital Modules (FACR)

Recommendation: Approve request for an extension until December 2018

IEEE Industry Applications Society/Petroleum & Chemical Industry

P844.3

Standard for Impedance Heating of Pipelines, Vessels, Equipment, and Structures – General, Testing, Marking, and Documentation Requirements

Recommendation: Approve request for an extension until December 2019

P844.4 Standard for Impedance Heating of Pipelines, Vessels, Equipment, and Structures – Application Guide for Design, Installation, Testing, Commissioning, and Maintenance

Recommendation: Approve request for an extension until December 2019

P844.5

Recommended Practice for the Design, Installation, Testing, Commissioning, and Maintenance of Induction Heating Systems for Pipelines, Vessels, Equipment, Structures, and Induction Susceptor Heating Furnaces

Recommendation: Approve request for an extension until December 2019

P1584

Guide for Performing Arc-Flash Hazard Calculations

Recommendation: Approve request for an extension until December 2019

P1814

Recommended Practice for Electrical System Design Techniques to Improve Electrical Safety

Recommendation: Approve request for an extension until December 2019

P61886-1

Subsea Equipment – Power Connectors, Penetrators and Jumper Assemblies with Rated Voltage from 3 kV ($U_{max} = 3.6$ kV) to 30 kV ($U_{max} = 36$ kV)

Recommendation: Approve request for an extension until December 2019

IEEE Industry Applications Society/Technical Books Coordinating Committee

P3002.2

Recommended Practice for Conducting Load-Flow Studies of Industrial and Commercial Power Systems

Recommendation: Approve request for an extension until December 2018

P3002.3

Recommended Practice for Conducting Short-Circuit Studies of Industrial and Commercial Power Systems

Recommendation: Approve request for an extension until December 2018

P3002.7

Recommended Practice for Conducting Motor-Starting Studies in Industrial and Commercial Power Systems

Recommendation: Approve request for an extension until December 2018

P3002.8

Recommended Practice for Conducting Harmonic-Analysis Studies of Industrial and Commercial Power Systems

Recommendation: Approve request for an extension until December 2018

P3003.1

Recommended Practice for the System Grounding of Industrial and Commercial Power Systems

Recommendation: Approve request for an extension until December 2019

P3004.3

Recommended Practice for the Application of Low-Voltage Fuses in Industrial and Commercial Power Systems

Recommendation: Approve request for an extension until December 2018

P3004.4

Recommended Practice for the Application of Medium- and High-Voltage Fuses in Industrial and Commercial Power Systems

Recommendation: Approve request for an extension until December 2018

P3004.7

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

Recommendation: Approve request for an extension until December 2018

P3004.11

Recommended Practice for Bus and Switchgear Protection in Industrial and Commercial Power Systems

Recommendation: Approve request for an extension until December 2018

P3006.3

Recommended Practice for Determining the Impact of Preventative Maintenance on the Reliability of Industrial and Commercial Power Systems

Recommendation: Approve request for an extension until December 2018

IEEE Instrumentation and Measurement Society/TC4 – High Frequency Measurement

P378

Recommended Practices for Scattering Parameter Measurements Using Vector Network Analyzers

Recommendation: Disapprove request for an extension

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

P484

Recommended Practice for Installation Design and Installation of Vented Lead-Acid Batteries for Stationary Applications

Recommendation: Approve request for an extension until December 2018

P946

Recommended Practice for the Design of DC Power Systems for Stationary Applications
Recommendation: Approve request for an extension until December 2018

P1679.2

Guide for the Characterization and Evaluation of Sodium-Based Batteries in Stationary Applications
Recommendation: Approve request for an extension until December 2018

IEEE Power and Energy Society/Power System Communications and Cybersecurity

P1711

Standard for a Cryptographic Protocol for EPS Serial Links
Recommendation: Approve request for an extension until December 2018

P1711.2

Standard for Secure SCADA Communications Protocol (SSCP)
Recommendation: Approve request for an extension until December 2018

P2030.102.1

Standard for Interoperability of Internet Protocol Security (IPsec) Utilized within Utility Control Systems
Recommendation: Approve request for an extension until December 2019

IEEE Power and Energy Society/Power System Instrumentation and Measurements

P1889

Guide for Evaluating and Testing the Electrical Performance of Energy Saving Devices
Recommendation: Approve request for an extension until December 2019

IEEE Power and Energy Society/Power System Relaying and Control

PC37.237

Standard Requirements for Time Tags Created by Intelligent Electronic Devices – COMTAG^(TM)
Recommendation: Approve request for an extension until December 2018

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

PC62.22

Guide for the Application of Metal-Oxide Surge Arresters for Alternating-Current Systems
Recommendation: Approve request for an extension until December 2018

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

PC62.41.3

Guide for Interactions between Power System Disturbances and Surge Protective Devices

Recommendation: Approve request for an extension until December 2019

PC62.42.2

Guide for the Application of Surge-Protective Components in Surge Protective Devices and Equipment Ports – Part 2 Metal-Oxide Varistors (MOVs)

Recommendation: Approve request for an extension until December 2020

PC62.42.4

Guide for the Application of Surge-Protective Components in Surge Protective Devices and Equipment Ports – Part 4 Thermally Activated Current Limiters

Recommendation: Approve request for an extension until December 2019

IEEE Power and Energy Society/Substations

P1427

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

Recommendation: Approve request for an extension until December 2019

P1615

Recommended Practice for Network Communication in Electric Power Substations

Recommendation: Approve request for an extension until December 2018

P2030.101 Guide for Designing a Time Synchronization System for Power Substations

Recommendation: Approve request for an extension until December 2018

IEEE Power and Energy Society/Switchgear

PC37.04

Standard for Ratings and Requirements for AC High Voltage Circuit Breakers with Rated Maximum Voltage above 1000 V

Recommendation: Approve request for an extension until December 2018

PC37.06.1

Recommended Practice for Preferred Ratings for High-Voltage (>1000 Volts) AC Circuit Breakers Designated Definite Purpose for Fast Transient Recovery Voltage Rise Times

Recommendation: Approve request for an extension until December 2018

PC37.60

High-Voltage Switchgear and Controlgear – Part 111: Automatic Circuit Reclosers for Alternating Current Systems Up to and including 38 kV

Recommendation: Approve request for an extension until December 2018

PC37.62

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

Recommendation: Approve request for an extension until December 2019

PC37.100.1

Standard of Common Requirements for High Voltage Power Switchgear Rated Above 1000 V

Recommendation: Approve request for an extension until December 2018

PC37.100.2

Standard for Common Requirements for Testing of AC Capacitance Current Switching Devices Over 1000 V

Recommendation: Approve request for an extension until December 2018

IEEE Power and Energy Society/Transmission and Distribution

P751

Guide for Wood Structures Used for Overhead Electric Transmission Lines

Recommendation: Approve request for an extension until December 2018

P1243

Guide for Improving the Lightning Performance of Transmission Lines

Recommendation: Approve request for an extension until December 2019

P1307

Standard for Fall Protection for Utility Work

Recommendation: Approve request for an extension until December 2018

P1854

Guide for Smart Distribution Applications

Recommendation: Approve request for an extension until December 2018

P1882

Guide for Establishing, Benchmarking, and Maintaining a Working Program for Energized Transmission Lines

Recommendation: Approve request for an extension until December 2018

P1885

Guide for Assessing, Measuring and Verifying Volt-Var Control Optimization on Distribution Systems

Recommendation: Approve request for an extension until December 2019

IEEE Power and Energy Society/Transformers

PC57.13.7

Standard for Current Transformers with a Maximum mA Secondary Current of 250 mA

Recommendation: Approve request for an extension until December 2018

PC57.104

Guide for the Interpretation of Gases Generated in Oil-Immersed Transformers

Recommendation: Approve request for an extension until December 2019

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 2020

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 2019

IEEE-SASB Coordinating Committees/SCC20 – Test and Diagnosis for Electronic Systems

P1636.2

Standard for Software Interface for Maintenance Information Collection and Analysis (SIMICA): Exchanging Maintenance Action Information via the Extensible Markup Language (XML)

Recommendation: Approve request for an extension until December 2018

P1641.1a

Guide for the Use of IEEE Std 1641, IEEE Standard for Signal and Test Definition Amendment to add guidelines for producing reusable Test Signal Frameworks (TSFs) for use on platforms utilizing Automatic Test Markup Language (ATML)

Recommendation: Approve request for an extension until December 2018

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

P2030.2.1

Guide for Design, Operation, and Maintenance of Battery Energy Storage Systems, both Stationary and Mobile, and Applications Integrated with Electric Power Systems

Recommendation: Approve request for an extension until December 2018

New PARs:

IEEE Computer Society/LAN/MAN Standards Committee

P802.15.10a

Recommended Practice for Routing Packets in IEEE 802.15.4 Dynamically Changing Wireless Networks Amendment to fully define use of addressing and route information currently in the standard

Recommendation: Approve new PAR until December 2021

IEEE Computer Society/Software & Systems Engineering Standards Committee

P21840

Systems Engineering – Guide for the Utilization of ISO/IEC/IEEE 15288 in the Context of System of Systems Engineering

Recommendation: Approve new PAR until December 2021

P21841

Systems and Software Engineering – Taxonomies of Systems of Systems (SoS)

Recommendation: Approve new PAR until December 2021

IEEE Computer Society/Standards Activities Board

P2671

Standard for General Requirements of Online Detection Based on Machine Vision in Intelligent Manufacturing

Recommendation: Approve new PAR until December 2021

P2672

Guide for General Requirements of Mass Customization

Recommendation: Approve new PAR until December 2021

IEEE Consumer Electronics Society/Standards Committee

P2050

Standard for Real-Time Operating System (OS) for Small-Scale Embedded Systems

Recommendation: Approve new PAR until December 2021

IEEE Communications Society/Edge, Fog, Cloud Communications with IOT and Big Data Standards Committee

P1935

Standard for Edge/Fog Manageability and Orchestration

Recommendation: Approve new PAR until December 2021

P2557

Standard for Ambient Genetics Frameworks

Recommendation: Approve new PAR until December 2021

P2558

Standard for Ambient Objects

Recommendation: Approve new PAR until December 2021

IEEE Communications Society/Power Line Communications

P1901.3

Standard for Power Line Communications for Internet of Things Applications

Recommendation: Approve new PAR until December 2021

IEEE Electromagnetic Compatibility Society/Standards Development Committee

P2665

Recommended Practice for Statistical Process Control for EMC Test Laboratories

Recommendation: Approve new PAR until December 2021

IEEE Industry Applications Society/Petroleum & Chemical Industry

P2455

Recommended Practice for the Repair and Maintenance of Direct Current Electric Machines

Recommendation: Approve new PAR until December 2021

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

P2770

60099-11 Surge Arresters – Part 11: Metal-Oxide Line Surge Arresters to Protect Power Line Insulation

Recommendation: Approve new PAR until December 2021

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

PC62.35-2010/Cor 1

Standard Test Methods for Avalanche Junction Semiconductor Surge-Protective Device Components – Corrigendum 1

Recommendation: Approve new PAR until December 2021

PC62.55-2017/Cor 1

Guide for Surge Protection of DC Power Feeds to Remote Radio Heads – Corrigendum 1

Recommendation: Approve new PAR until December 2021

IEEE Power and Energy Society/Transmission and Distribution

P2445

Standard Practice for Inspection and Assessment of Below Grade and Groundline Corrosion on Weathering Steel on Electrical Transmission and Distribution Structures

Recommendation: Approve new PAR until December 2021

IEEE Society on Social Implications of Technology/Social Implications of Technology Standards Committee

P7011

Standard for the Process of Identifying and Rating the Trustworthiness of News Sources

Recommendation: Approve new PAR until December 2021

P7012

Standard for Machine Readable Personal Privacy Terms

Recommendation: Approve new PAR until December 2021

PARs for the Revision of Standards:

IEEE Computer Society/Design Automation

P1647

Standard for the Functional Verification Language e

Recommendation: Approve PAR for the revision of a standard until December 2021

IEEE Computer Society/Software & Systems Engineering Standards Committee

P15026-4

Systems and Software Engineering – Systems and Software Assurance – Part 4: Assurance in the Life Cycle

Recommendation: Approve PAR for the revision of a standard until December 2021

P15289

ISO/IEC/IEEE International Standard – Systems and Software Engineering – Content of Life-Cycle Information Items (Documentation)

Recommendation: Approve PAR for the revision of a standard until December 2021

P90003

Software Engineering – Guidelines for the Application of ISO 9001:2015 to Computer Software

Recommendation: Approve PAR for the revision of a standard until December 2021

IEEE Industry Applications Society/Petroleum & Chemical Industry

P463

Standard for Electrical Safety Practices in Electrolytic Cell Line Working Zones

Recommendation: Approve PAR for the revision of a standard until December 2021

IEEE Industry Applications Society/Technical Books Coordinating Committee

P3007.1

Recommended Practice for the Operation and Management of Industrial and Commercial Power Systems

Recommendation: Approve PAR for the revision of a standard until December 2021

P3007.3

Recommended Practice for Electrical Safety in Industrial and Commercial Power Systems

Recommendation: Approve PAR for the revision of a standard until December 2021

IEEE Instrumentation and Measurement Society/TC4 – High Frequency Measurement

P287

Standard for Precision Coaxial Connectors (DC-110 GHz)

Recommendation: Approve PAR for the revision of a standard until December 2021

IEEE Instrumentation and Measurement Society/TC9 – Sensor Technology

P1451.0

Standard for a Smart Transducer Interface for Sensors, Actuators, Devices, and Systems – Common Functions, Communication Protocols, and Transducer Electronic Data Sheet (TEDS) Formats

Recommendation: Approve PAR for the revision of a standard until December 2021

P1451.5

Standard for a Smart Transducer Interface for Sensors and Actuator – Wireless Communication Protocols and Transducer Electronic Data Sheet (TEDS) Formats

Recommendation: Approve PAR for the revision of a standard until December 2021

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

P1679

Recommended Practice for the Characterization and Evaluation of Emerging Energy Storage Technologies in Stationary Applications

Recommendation: Approve PAR for the revision of a standard until December 2021

IEEE Power and Energy Society/Power System Communications and Cybersecurity

P1137

Recommended Practice for the Implementation of Inductive Coordination Mitigation Techniques and Application

Recommendation: Approve PAR for the revision of a standard until December 2021

P1686

Standard for Intelligent Electronic Devices Cyber Security Capabilities

Recommendation: Approve PAR for the revision of a standard until December 2021

PC37.240

Standard Cybersecurity Requirements for Power System Automation, Protection, and Control Systems

Recommendation: Approve PAR for the revision of a standard until December 2021

IEEE Power and Energy Society/Power System Relaying and Control

PC37.90.2

Standard for Withstand Capability of Relay Systems to Radiated Electromagnetic Interference from Transceivers

Recommendation: Approve PAR for the revision of a standard until December 2021

IEEE Power and Energy Society/Substations

P1246

Guide for Temporary Protective Grounding Systems Used in Substations

Recommendation: Approve PAR for the revision of a standard until December 2021

IEEE Power and Energy Society/Transformers

PC57.12.90

Standard Test Code for Liquid-Immersed Distribution, Power, and Regulating Transformers

Recommendation: Approve PAR for the revision of a standard until December 2021

PC57.13.2

Standard for Conformance Test Procedure for Instrument Transformers

Recommendation: Approve PAR for the revision of a standard until December 2021

PC57.113

Recommended Practice for Partial Discharge Measurement in Liquid-Filled Power Transformers and Shunt Reactors

Recommendation: Approve PAR for the revision of a standard until December 2021

IEEE Vehicular Technology Society/Rail Transportation Standards Committee

P1653.2

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

Recommendation: Approve PAR for the revision of a standard until December 2021

P1653.6

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

Recommendation: Approve PAR for the revision of a standard until December 2021

PARs for Administrative Withdrawal – December 2017:

P378 (IM/HFM)

Recommended Practices for Scattering Parameter Measurements Using Vector Network Analyzers

[New PAR]

P742 (PE/NPE)

Standard for Bus Voltage Monitoring of the Class 1E Power Systems in Nuclear Power Generating Stations (NPGS)

[New PAR]

PC37.1.1 (PE/SUB)

Standard for Input and Output Requirements and Testing Methodology for Intelligent Electronic Devices (IEDs)

[PAR for the Revision of a Standard]

2.2.5 RevCom Recommendations

NEW

P535-2013/Cor 1/Draft P535 Corrigendum 1 /DC (PE/ESSB) IEEE Draft Standard for Qualification of Class 1E Vented Lead Acid Storage Batteries for Nuclear Power Generating Stations – Corrigendum 1: Clarification of Thermal Aging Durations

Recommendation: APPROVE

P802.3bs/Draft D3.5 (C/LM) IEEE Draft Standard for Ethernet Amendment 10: Media Access Control Parameters, Physical Layers, and Management Parameters for 200 Gb/s and 400 Gb/s Operation

Recommendation: APPROVE

P802.3cc/Draft D3.3 (C/LM) IEEE Draft Standard for Ethernet Amendment: Physical Layer and Management Parameters for Serial 25 Gb/s Ethernet Operation Over Single-Mode Fiber

Recommendation: APPROVE

P802.15.3f/Draft 01 (C/LM) IEEE Draft Standard for High Data Rate Wireless Multi-Media Networks Amendment Extending the Physical Layer (PHY) Specification for Millimeter Wave to Operate from 57.0 GHz to 71 GHz

Recommendation: APPROVE

P802.15.8/Draft P802.15.8-D6 (C/LM) IEEE Draft Wireless Medium Access Control (MAC) and Physical Layer (PHY) Specifications for Peer Aware Communications (PAC)

Recommendation: APPROVE

P802.21-2017/Cor 1/Draft D02 (C/LM) IEEE Draft Standard for Local and Metropolitan Area Networks – Part 21: Media Independent Services Framework – Corrigendum 1: Clarification of Parameter Definition in Group Session Key Derivation

Recommendation: APPROVE

P1450.4/Draft 06 (C/TT) IEEE Draft Standard for Extensions to Standard Test Interface Language (STIL) (IEEE Std. 1450-1999) for Test Flow Specification

Recommendation: APPROVE

P1549-2011/Cor 1/Draft 3 (MTT/SCC) IEEE Draft Standard for Microwave Filter Definitions – Corrigendum 1

Recommendation: APPROVE

P1679.1/Draft 25 (PE/ESSB) IEEE Draft Guide for the Characterization and Evaluation of Lithium-Based Batteries in Stationary Applications

Recommendation: Conditional Approval

There was a motion to conditionally approve P1679.1 based on the NesCom approval of the Modified PAR.

P1680.2a/Draft 1680.2a D2 (C/SAB) IEEE Draft Standard for Environmental Assessment of Imaging Equipment Amendment 1

Recommendation: APPROVE

P1680.3a/Draft 1680.3a D2 (C/SAB) IEEE Draft Standard for Environmental Assessment of Televisions Amendment 1

Recommendation: APPROVE

P1788.1/Draft 9.9 (C/MSC) IEEE Draft Standard for Interval Arithmetic (Simplified)

Recommendation: APPROVE

P1804/Draft D1 9 (C/TT) IEEE Draft Standard for Fault Accounting and Coverage Reporting to Digital Modules (FACR)

Recommendation: APPROVE

P1900.5.2/Draft 1.06 (COM/DySPAN-SC) IEEE Draft Standard Method for Modeling Spectrum Consumption

Recommendation: APPROVE

P1903.1/Draft 02 (COM/SDB) IEEE Draft Standard for Content Delivery Protocols of Next Generation Service Overlay Network

Recommendation: APPROVE

P1903.2/Draft 02 (COM/SDB) IEEE Draft Standard for Service Composition Protocols of Next Generation Service Overlay Network (NGSON)

Recommendation: APPROVE

P1903.3/Draft 02 (COM/SDB) IEEE Draft Standard for Self-Organizing Management Protocols of Next Generation Service Overlay Network

Recommendation: APPROVE

P2030.7/Draft D11 (PE/T&D) IEEE Draft Standard for the Specification of Microgrid Controllers

Recommendation: APPROVE

P3001.2/Draft 5 (IAS/TBCC) Recommended Practice for Evaluating the Electrical Service Requirements of Industrial and Commercial Power Systems

Recommendation: APPROVE

P3006.3/Draft D4 (IAS/TBCC) IEEE Draft Recommended Practice for Determining the Impact of Preventative Maintenance on the Reliability of Industrial and Commercial Power Systems

Recommendation: APPROVE

P3333.1.2/Draft 3 (C/SAB) IEEE Draft Standard for the Perceptual Quality Assessment of Three Dimensional (3D) and Ultra High Definition (UHD) Contents

Recommendation: APPROVE

P11073-10207/Draft 10 (EMB/11073) IEEE Draft Standard for Domain Information & Service Model for Service-Oriented Point-of-Care Medical Device Communication

Recommendation: APPROVE

PC37.06.1/Draft D7 (PE/SWG) IEEE Draft Recommended Practice for Preferred Ratings for High-Voltage (>1000 volts) AC Circuit Breakers Designated Definite Purpose for Fast Transient Recovery Voltage Rise Times

Recommendation: APPROVE

PC37.41-2016/Cor 1/Draft 4 (PE/SWG) IEEE Draft Standard Design Tests for High-Voltage (>1000 V) Fuses and Accessories – Corrigendum 1

Recommendation: APPROVE

PC37.241/Draft 8.0 (PE/PSRCC) IEEE Draft Guide for Application of Optical Instrument Transformers for Protective Relaying

Recommendation: APPROVE

PC37.248/Draft 9 (PE/PSRCC) IEEE Draft Guide for Common Format for Naming Intelligent Electronic Devices (COMDEV)

Recommendation: APPROVE

PC57.12.39/Draft 5 (PE/TR) IEEE Draft Standard Requirements for Distribution Transformer Tank Pressure Coordination

Recommendation: APPROVE

PC57.158/Draft 7A (PE/TR) IEEE Draft Guide for the Application of Tertiary and Stabilizing Windings in Power Transformers

Recommendation: APPROVE

REVISION

P112/Draft 8 (PE/EM) IEEE Draft Standard Test Procedure for Polyphase Induction Motors and Generators

Recommendation: APPROVE

P650/Draft P650_D5_September2017 (PE/NPE) IEEE Draft Standard for Qualification of Class 1E Static Battery Chargers, Inverters, and Uninterruptible Power Supply (UPS) Systems for Nuclear Power Generating Stations

Recommendation: APPROVE

P802.16/Draft D4 (C/LM) IEEE Draft Standard for Air Interface for Broadband Wireless Access Systems

Recommendation: APPROVE

P1003.1/Draft 1 (C/PA) IEEE Draft Standard for Information Technology – Portable Operating System Interface (POSIX[®])

Recommendation: APPROVE

P1082/Draft D9 (PE/NPE) IEEE Draft Guide for Incorporating Human Reliability Analysis into Probabilistic Risk Assessments for Nuclear Power Generating Stations and other Nuclear Facilities

Recommendation: APPROVE

P1671.1/Draft 3 (SASB/SCC20) IEEE Draft Standard for Automatic Test Markup Language (ATML) Test Description

Recommendation: APPROVE

P1671.3/Draft 4 (SASB/SCC20) IEEE Draft Standard for Automatic Test Markup Language (ATML) Unit Under Test (UUT) Description

Recommendation: APPROVE

P1800/Draft D4a (C/DA) IEEE Draft Standard for SystemVerilog – Unified Hardware Design, Specification, and Verification Language

Recommendation: APPROVE

PC37.015/Draft 4 (PE/SWG) IEEE Draft Guide for the Application of Shunt Reactor Switching

Recommendation: APPROVE

PC37.20.7/Draft 17 (PE/SWG) IEEE Draft Guide for Testing Switchgear Rated up to 52 kV for Internal Arcing Faults

Recommendation: APPROVE

PC57.12.10/Draft D2.8 (PE/TR) IEEE Draft Standard Requirements for Liquid-Immersed Power Transformers

Recommendation: APPROVE

PC57.13.1/Draft 6.6 (PE/PSRCC) IEEE Draft Guide for Field Testing of Relaying Current Transformers

Recommendation: APPROVE

PC57.15/Draft 3.2 (PE/TR) IEEE Draft Standard Requirements, Terminology, and Test Code for Step-Voltage Regulators

Recommendation: APPROVE

PC57.19.01/Draft R4 (PE/TR) IEEE Draft Standard for Performance Characteristics and Dimensions for Transformer and Reactor Bushings

Recommendation: APPROVE

PC62.23/Draft 6 (PE/SPDHV) IEEE Draft Application Guide for Surge Protection of Electric Generating Plants

Recommendation: APPROVE

3 Legal Update

None

4 SASB Oversight of SCC18

4.1 [IEEE Participation in the NFPA Process](#)

Christel Hunter, SCC18 Chair, reported.

Richard Holub, IAS/PCIC Codes & Regulations Subcommittee Chair, also reported.

4.2 IEEE Classification by NFPA – [Options](#)

Sam Sciacca, IEEE-SA Senior Director – Technical Program Operations, reported.

The SASB entered Executive Session at 10:15 a.m.

4.3 SCC18 Oversight Committee Report [Executive Session]

Remaining in the room: SASB Members, BOG Members, IEEE Outside Legal Counsel , IEEE-SA Senior Directors, IEEE-SA Governance staff, Matthew Ceglia, Yvette Ho Sang, Soo Kim, Pat Roder

Recused: Daleep Mohla

5 [Follow-up](#) on the SASB Ratification of the Actions taken by the IEEE 802 LMSC Sponsor in Connection with the 802.11 TGax Complaint [Executive Session]

Remaining in the room: SASB Members, BOG Members, IEEE Outside Legal Counsel , IEEE-SA Senior Directors, IEEE-SA Governance staff, Matthew Ceglia, Yvette Ho Sang

Recused: Chuck Adams

Left room after initial discussion: Paul Nikolich, Adrian Stephens, Phil Wennblom

Executive Session concluded at 12:15 p.m. The SASB took a lunch break.

REPORT OUT from Executive Session:

- The SASB has expanded the charter of the SASB SCC18 Oversight Committee to include the oversight of the SCC18 P&Ps.
- The SASB will continue to follow-up on the SASB Ratification of the Actions taken by the IEEE 802 LMSC Sponsor in Connection with the 802.11 TGax Complaint until the project completes Sponsor ballot.

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

Konstantinos Karachalios, IEEE-SA Managing Director, reported.

Konstantinos commended Rob Fish for his leadership in establishing the TA Subcommittee on Standards.

6.1 National Institutes for Food and Drug Control (NIFDC)

Konstantinos introduced Dr. Victoria Wang, China Strategy Lead for the IEEE-SA.

Dr. Wang introduced Deputy Director General Zhijun Zhang and Deputy Director Xinhua Yu of the Chinese National Institutes for Food and Drug Control (NIFDC). Mr. Zhijun Zhang introduced NIFDC and potential areas for collaboration with IEEE-SA.

7 SASB Standing Committee Reports

7.1 Audit Committee ([AudCom](#))

Mike Janezic, AudCom Chair, reported.

Motion from AudCom: PE/ED&PG shall submit a draft Sponsor P&P to AudCom by March 31, 2018 or the IEEE-SA Standards Board shall suspend PE/ED&PG's authorization to perform standards work (including but not limited to: PAR actions, Sponsor ballot actions, etc.). The motion was approved by the SASB.

Motion from AudCom: PE/NPE shall submit a draft Sponsor P&P to AudCom by March 31, 2018 or the IEEE-SA Standards Board shall suspend PE/NPE's authorization to perform standards work (including but not limited to: PAR actions, Sponsor ballot actions, etc.). The motion was approved by the SASB.

Motion from AudCom: PE/PSIM shall submit a draft Sponsor P&P to AudCom by March 31, 2018 or the IEEE-SA Standards Board shall suspend PE/PSIM's authorization to perform standards work (including but not limited to: PAR actions, Sponsor ballot actions, etc.). The motion was approved by the SASB.

Motion from AudCom: PEL/SC shall submit a draft Sponsor P&P to AudCom by March 31, 2018 or the IEEE-SA Standards Board shall suspend PEL/SC's authorization to perform standards work (including but not limited to: PAR actions, Sponsor ballot actions, etc.). The motion was approved by the SASB.

There was a motion to approve the revised 2018 baseline P&P templates (Sponsor, Type 2 SCC, WG-Individual, and WG-Entity), which include changes made by AudCom during the comment adjudication process. The motion was unanimously approved.

7.2 Industry Connections Committee ([ICCom](#))

John Kulick, ICCom Chair, reported.

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

Steve Dukes, NesCom Chair, reported.

7.4 Patent Committee ([PatCom](#))

Phil Wennblom, PatCom Chair, reported.

7.5 Procedures Committee ([ProCom](#))

- [SASB OpMan RE: Data Privacy](#)

Ted Burse, ProCom Chair, reported.

There was a motion to approve the proposed changes to the SASB OpMan RE: Data Privacy and to instruct AudCom to include changes in the baseline P&Ps. The motion was unanimously approved.

IEEE-SA Standards Board Operations Manual

5.1.2 Duties of the Sponsor

5.1.2.1 Mandatory requirements

Supervision of a standards project by the Sponsor includes the following mandatory requirements:

- a) Submit a properly completed Project Authorization Request (PAR) for IEEE-SA Standards Board approval within six months of the first decision to initiate the project. Forms and information may be obtained from the NesCom Administrator (see 5.2).
- b) After approval of the project, work with the IEEE Standards Department Staff to give notice of the project in appropriate publications and to appropriate entities, for the purpose of soliciting an expression of interest in the work of the sponsoring committee.
- c) Ensure that mandatory coordination requirements are accomplished (see 4.2.3.2 and 5.4.4).

IEEE-SA Standards Board Meeting Minutes – December 2017

- d) Organize the technical development work on the standard.
- e) Access and use IEEE's data, including personal data, from IEEE systems for the purposes intended, including to support the technical development work on the standard, and only in compliance with IEEE or IEEE-SA Privacy and data privacy policies.
- ef) Notify persons who have expressed interest in the time and the place of meetings as specified in the P & P of the Sponsor (see 5.1.1).
- fg) Ensure that all meetings involving standards are open to all interested parties.
- gh) Conduct the Sponsor ballot and IEEE Public Review in accordance with these procedures (see 5.4).
- hi) Submit the proposed standard together with the submittal form to the IEEE-SA Standards Board.
- ij) Submit annually to IEEE-SA Staff an electronic list of persons participating in standards projects during the prior year.
- jk) Without exception, the Sponsor shall ensure the submission of an annual financial report(s) for the operation of the Sponsor and all of its standards development committees (e.g., working groups, task groups). Those groups operating without treasury are required to submit an annual declaration thereof via the report (see 5.3.6).
- kl) Monitor standards developing committees for signs of dominance by any single interest category, individual, or organization. If dominance is suspected, the Sponsor shall promptly notify the IEEE-SA Standards Board and shall immediately address the concern with the standards developing committee leadership.
- lm) If a Working Group (WG) was created for technical development work on a standard, ensure that a written set of WG policies and procedures (P & P) is created and approved by the Sponsor. Such P & P shall not be in conflict with the IEEE-SA Standards Board Operations Manual. Sponsors should note that IEEE-SA Standards Board maintains a baseline WG P & P, and may occasionally request to review a Sponsor's WG P & P for alignment.

5.3.3 Standards development meetings

Standards development meetings are to be conducted consistent with the principle of openness. Participants in a Working Group may include members and non-members when the requirements to gain membership are specified in Sponsor or Working Group P & P. A 'meeting' includes any convening for which notice was required to be given or for which membership-credits or other participation rights are either earned or exercised. Meetings may be in-person or may be via electronic means, as appropriate.

While a Working Group may maintain its own list of participants to track membership status, the authoritative list of participants is maintained in an IEEE-SA database. Only those authorized to access and use IEEE's data, including personal data, from IEEE systems are permitted to do so, for the purposes intended, including to support the technical development work on the standard, and only in compliance with IEEE or IEEE-SA Privacy and data privacy policies.

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

Gary Hoffman, RevCom Chair, reported.

8 Standards Coordinating Committee Reports

8.1 SCC Coordinator's [Report](#)

Kevin Lu, SCC Coordinator, reported.

There was a motion to accept the submitted reports from SCC39 and SCC42. The motion was approved.

8.2 Scheduled Reports Due in December:

8.2.1 [SCC39](#) – International Committee on Electromagnetic Safety (Ralf Bodemann)

8.2.2 [SCC42](#) – Transportation (Yu Yuan)

9 Reports from Government Observers

9.1 NIST [Report](#)

Michael Janezic, Government Observer to the SASB from U.S. NIST, reported.

10 Liaison Reports

10.1 IEC [Report](#)

Jack Sheldon, IEC Standardization Strategy Manager, reported.

11 Informational Reports

11.1 CAG [Report](#)

Glenn Parsons, CAG Liaison to the SASB, reported.

11.1.1 [Proposal on Open Source](#)

- Open Source [Report](#)

- SASB Chair Open Source [Report](#)

Chuck Adams reported.

The SASB Chair formed an SASB Ad Hoc on Open Source.

Charter: As a steering committee, develop and implement a plan to include an open source offering within the standardization process

Members: Phil Wennblom (Chair), one representative of ProCom, PatCom, AudCom, NesCom and RevCom [assigned by the Standing Committee Chairs], a liaison from the CAG's Ad Hoc on Open Source

First task: Develop a plan and breakdown tasks to be done in the Standing Committees
- It is expected that the Standing Committees will form ad hoc groups to address changes that affect their scope and responsibilities

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

Don Wright, IEEE-SA President, reported.

11.3 SASB Chair's [Report](#)

Chair Faure reported.

Chair Faure thanked the SASB Members for their work during a very busy year.

Chair Faure thanks Adrian Stephens [retiring] for his work and dedication on behalf of the SASB, the SASB standing committees, and many ad hocs.

The following venues are proposed for the 2019 in-person SASB meetings:

- Shanghai, PRC
- London, UK
- Piscataway, NJ, USA

There was a motion to approve the 2019 venues. The motion was unanimously approved.

It is expected that a draft 2019 SASB calendar will be provided to the 2018 SASB Members for review/comment in January 2018.

11.3.1 [Time](#) from PAR to Approval as a Standard

Matthew Ceglia, Director – Operational Program Management, reported.

12 Old Business

12.1 'Sponsor' Terminology Ad Hoc [Report](#)

Phil Wennblom, Ad Hoc Chair, reported.

There was a straw poll conducted in regards to updating 'Sponsor' to 'Technical Sponsor'. The straw poll results were Yes=13, Abstain=1.

13 New Business

None

14 [Next Meeting](#)

The next SASB meeting is scheduled for Thursday, 08 March 2018, in Tokyo, Japan.

14.1 [Japan Outreach](#)

Walter Sun, Global Strategy Manager, reported.

15 SASB Resolutions

The SASB will continue to follow-up on the SASB Ratification of the Actions taken by the IEEE 802 LMSC Sponsor in Connection with the 802.11 TGax Complaint until the project completes Sponsor ballot.

PE/ED&PG shall submit a draft Sponsor P&P to AudCom by 31 March 2018 or the IEEE-SA Standards Board shall suspend PE/ED&PG's authorization to perform standards work (including but not limited to: PAR actions, Sponsor ballot actions, etc.).

PE/NPE shall submit a draft Sponsor P&P to AudCom by 31 March 2018 or the IEEE-SA Standards Board shall suspend PE/NPE's authorization to perform standards work (including but not limited to: PAR actions, Sponsor ballot actions, etc.).

PE/PSIM shall submit a draft Sponsor P&P to AudCom by 31 March 2018 or the IEEE-SA Standards Board shall suspend PE/PSIM's authorization to perform standards work (including but not limited to: PAR actions, Sponsor ballot actions, etc.).

PEL/SC shall submit a draft Sponsor P&P to AudCom by 31 March 2018 or the IEEE-SA Standards Board shall suspend PEL/SC's authorization to perform standards work (including but not limited to: PAR actions, Sponsor ballot actions, etc.).

16 Adjournment

There being no further business, the meeting was adjourned at 4:10 p.m.