

**IEEE-SA STANDARDS BOARD MEETING
MINUTES
16 June 2011
IEEE Operations Center, Piscataway, New Jersey, USA
8:30 a.m. – 4:00 p.m.**

Attendees:

Chair:

Rich Hulett

Past Chair:

Bob Grow

Vice Chair:

John Kulick

Secretary:

Judith Gorman

Members:

Masayuki Ariyoshi

Ted Burse

Clint Chaplin

Wael Diab

Jean-Philippe Faure

Alex Gelman

Paul Houzé

Jim Hughes

David Law

Hung Ling

Oleg Logvinov

Ted Olsen

Gary Robinson

Jon Rosdahl

Sam Sciacca

Mike Seavey

Curtis Siller

Phil Winston

Don Wright

Michael Janezic, NIST Representative

Joseph Koepfinger, Member Emeritus

Members Absent:

Bill Bartley

Thomas Lee

Howard Wolfman

Dick DeBlasio, DOE Representative

Satish Aggarwal, NRC Representative

IEEE-SA Staff:

Bill Ash
Kathryn Bennett
Kim Breitfelder
Terry deCourcelle
Francesca Drago
Karen Evangelista
Tricia Gerdon
Mary Ellen Hanntz
Yvette HoSang
Karen Kenney
Mike Kipness
Bob LaBelle
Juanita Lewis
Karen McCabe
Mary Lynne Nielsen
Maira Patterson
Walter Pienciak
Dave Ringle, Recording Secretary
Ana Sainvilus
Alpesh Shah
Erin Spiewak
Jennie Steinhagen
Susan Tatiner
Cherry Tom
Sue Vogel
Jim Wendorf
Charmain Williams
Joan Woolery
Lisa Yacone
Malia Zaman

IEEE Outside Legal Counsel:

Claire Topp

Guests:

Joseph Gwinn
Young Kyun Kim
Bruce Kraemer
Steve Mills
Jim Moore
Ron Petersen
Wayne Rifer
Yatin Trivedi
Bill Walsh

1 Call to Order

Chair Hulett called the meeting to order at 8:30 a.m. There was a round of introductions by all present.

2

Agenda

2.1 Approval of Agenda

Chair Hulett noted that item 12.1 will be discussed immediately after lunch.

There was a motion to approve the agenda. The motion was approved without objection.

Chair Hulett polled the SASB members on anticipated attendance in Seoul. Most members indicated that they will be in attendance; quorum should not be an issue.

Ted Burse presented *A.I.E.E. Transactions, Vol. XXX, Part II, 1911* to the IEEE. Judy Gorman accepted on behalf of the IEEE. The book contains papers presented during the April-June 1911 timeframe; and the current SASB meeting coincides with the 100th anniversary of its printing. Ted noted a statement in the book from Charles Proteus Steinmetz.

2.2 Consent Agenda

2.2.1 AudCom Recommendations

Accepted (*standards work authorized*):

- C/DA – Computer Society/Design Automation
- CES/SC - Consumer Electronics Society/Standards Committee
- EMB/SC - Engineering in Medicine and Biology Society/Standards Committee
- PE/SWG – Power and Energy Society/Switchgear Committee
- SASB/SCC20 – Test and Diagnosis for Electronic Systems
- VT/RT - Vehicular Technology Society/Rail Transportation

Visibly Under Development (*standards work authorized*):

- EDU/SC – Education Society/Standards Committee

2.2.2 NesCom Recommendations

Modified PARs

IEEE Computer Society/Software & Systems Engineering Standards Committee

P15026-2

Standard Adoption of ISO/IEC 15026 Systems and Software Engineering – Systems and Software Assurance – Part 2: Assurance Case

Recommendation: Approve modified PAR

IEEE Industry Applications Society/Technical Books Coordinating Committee

P3004.1

Recommended Practice for the Application of Instrument Transformers in Industrial and Commercial Power Systems

Recommendation: Approve modified PAR

IEEE Instrumentation and Measurement Society/TC9 – Sensor Technology

P21451-7

Standard for Information Technology – Smart Transducer Interface for Sensors and Actuators – Transducers to Radio Frequency Identification (RFID) Systems Communication Protocols and Transducer Electronic Data Sheet Formats

Recommendation: Approve modified PAR

IEEE Power and Energy Society/Insulated Conductors

P1717

Standard for Testing Circuit Integrity Cables Using a Hydrocarbon Pool Fire Test Protocol

Recommendation: Approve modified PAR

P1816

Guide for Preparation Techniques of Extruded Dielectric, Shielded Cables Rated 2.5 kV through 46 kV and the Installation of Mating Accessories

Recommendation: Conditionally approve modified PAR contingent upon changing the word ‘defines’ to ‘describes’ in the scope.

IEEE Power and Energy Society/Nuclear Power Engineering

P62582-3

Standard for Nuclear Power Plants – Instrumentation and Control Important to Safety – Electrical Equipment Condition Monitoring Methods – Part 3: Elongation at Break

Recommendation: Approve modified PAR

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

PC62.22a

Guide for the Application of Metal-Oxide Surge Arresters for Alternating-Current Systems Amendment: Supplement to consider energy handling capabilities

Recommendation: Approve modified PAR

IEEE Power and Energy Society/Switchgear

P62271-37-082

Standard for High-Voltage Switchgear and Controlgear – Part 37-082: Measurement of Sound Pressure Levels on Alternating Current Circuit-Breakers

Recommendation: Approve modified PAR

PC37.17

Standard for Trip Systems for Low-Voltage (1000 V and Below) AC and General Purpose (1500 V and Below) DC Power Circuit Breakers

Recommendation: Approve modified PAR

IEEE Power and Energy Society/Transformers

PC57.152

Guide for Diagnostic Field Testing of Fluid Filled Power Transformers, Regulators, and Reactors

Recommendation: Approve modified PAR

IEEE Vehicular Technology Society/Intelligent Transportation Systems

P1609.0

Guide for Wireless Access in Vehicular Environments (WAVE) – Architecture

Recommendation: Approve modified PAR

P1609.12

Standard for Wireless Access in Vehicular Environment (WAVE) – Identifier Allocations

Recommendation: Approve modified PAR

IEEE Vehicular Technology Society/Rail Transportation Standards Committee

P1653.6

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

Recommendation: Approve modified PAR

Extension Requests

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

P80000

Standard for Quantities and Units

Recommendation: Approve a two year extension until December 2013

New PARs

IEEE-SA Board of Governors/Corporate Advisory Group

P1888.1

Standard for a Ubiquitous Community Network: Control and Management

Recommendation: Approve new PAR until December 2015

P1888.2

Standard for Ubiquitous Green Community Control Network: Heterogeneous Networks Convergence and Scalability

Recommendation: Approve new PAR until December 2015

P1888.3

Standard for Ubiquitous Green Community Control Network: Security

Recommendation: Approve new PAR until December 2015

IEEE Computer Society/LAN/MAN Standards Committee

P802.16.1

Standard for WirelessMAN – Advanced Air Interface for Broadband Wireless Access Systems

Recommendation: Approve new PAR until December 2015

IEEE Computer Society/Software & Systems Engineering Standards Committee

P24774

Guide for Adoption of ISO/IEC TR 24774, Systems and Software Engineering – Life Cycle Management – Guidelines for Process Description

Recommendation: Approve new PAR until December 2015

IEEE Industry Applications Society/Petroleum & Chemical Industry

P844.1

Standard for the Construction, Testing, and Marking for Skin Effect Heating Systems for Pipelines and Vessels

Recommendation: Approve new PAR until December 2015

P844.2

Standard for the Construction, Testing, and Marking for Impedance, Induction, and Induction Susceptor Heating Systems for Pipelines and Vessels

Recommendation: Approve new PAR until December 2015

P844.3

Recommended Practice for Electrical Impedance, Induction, and Skin Effect Heating Systems for Pipelines and Vessels

Recommendation: Approve new PAR until December 2015

IEEE Industry Applications Society/Technical Books Coordinating Committee

P3004.7

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

Recommendation: Approve new PAR until December 2015

P3004.9

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

Recommendation: Approve new PAR until December 2015

IEEE Power and Energy Society/Switchgear

PC37.13a

Standard for Low-Voltage AC Power Circuit Breakers Used in Enclosures Amendment 1: Increase of Voltages to 1000 V AC and Below

Recommendation: Approve new PAR until December 2015

IEEE Power and Energy Society/Transformers

PC57.19.04

Standard Performance Characteristics and Dimensions for High Current Power Transformer Bushings with Rated Continuous Current in Excess of 5000 A in Bus Enclosures

Recommendation: Approve new PAR until December 2015

PC57.156

Guide for Tank Rupture Mitigation of Liquid-Immersed Power Transformers and Reactors

Recommendation: Approve new PAR until December 2015

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

P1505.3

Standard for the Universal Test Interface Framework and Pin Configuration for Portable/Bench Top Test Requirements Utilizing IEEE 1505 Receiver Fixture Interface Standard

Recommendation: Approve new PAR until December 2015

P1671.0

Guide for the Use of Automatic Test Equipment Markup Language (ATML); the IEEE-1671 Family of Standards

Recommendation: Approve new PAR until December 2015

P1871.1

Recommended Practice for Using IEEE 1671.2 Instrument Description Templates for Describing Synthetic Instrumentation for Classes of Instruments Such as Waveform Generators, Digitizers, External Oscillators, and Up & Down Converters

Recommendation: Approve new PAR until December 2015

P1871.2

Recommended Practice for IEEE 1671 Test Equipment Templates and Extension Classes for Describing Intrinsic Signal Path Information for Cables, Interface Adaptors, and Test Equipment

Recommendation: Approve new PAR until December 2015

PARs for the Revision of Standards

IEEE Computer Society/LAN/MAN Standards Committee

P802.3.1

Standard for Management Information Base (MIB) Definitions for Ethernet

Recommendation: Approve PAR for the revision of a standard until December 2015

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 2015

IEEE Power and Energy Society/Electric Machinery

P1415

Guide for Induction Machinery Maintenance Testing and Failure Analysis

Recommendation: Approve PAR for the revision of a standard until December 2015

PC50.13

Standard for Cylindrical-Rotor 50 Hz and 60 Hz Synchronous Generators Rated 10 MVA and Above

Recommendation: Approve PAR for the revision of a standard until December 2015

IEEE Power and Energy Society/Switchgear

PC37.63

Standard Requirements for Overhead, Pad-Mounted, Dry-Vault, and Submersible Automatic Line Sectionalizers for Alternating Current Systems Up to 38 kV

Recommendation: Approve PAR for the revision of a standard until December 2015

IEEE Power and Energy Society/Transformers

PC57.12.00

Standard for General Requirements for Liquid-Immersed Distribution, Power, and Regulating Transformers

Recommendation: Approve PAR for the revision of a standard until December 2015

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 2015

PC57.139

Guide for Dissolved Gas Analysis in Transformer Load Tap Changers

Recommendation: Approve PAR for the revision of a standard until December 2015

2.2.3 RevCom Recommendations

NEW

P802.1Qaz/D2.5 (C/LM) Standard for Local and Metropolitan Area Networks – Virtual Bridged Local Area Networks – Amendment: Enhanced Transmission Selection for Bandwidth Sharing Between Traffic Classes

Recommendation: APPROVE

P802.1Qbb/D2.3 (C/LM) Standard for Local and Metropolitan Area Networks – Virtual Bridged Local Area Networks – Amendment: Priority-Based Flow Control

Recommendation: Conditionally approve

There was a motion to conditionally approve P802.1Qbb conditional upon the SASB approval of P802.1Qaz.

P802.1Qbc/D1.5 (C/LM) Standard for Local and Metropolitan Area Networks – Virtual Bridged Local Area Networks – Amendment: Provider Bridging – Remote Customer Service Interfaces

Recommendation: APPROVE

P802.1Qbe/D1.7 (C/LM) Standard for Local and Metropolitan Area Networks – Virtual Bridged Local Area Networks – Amendment: Multiple Backbone Service Instance Identifier (I-SID) Registration Protocol (MIRP)

Recommendation: APPROVE

P802.3bd/D2.2 (C/LM) Standard for Information Technology – Telecommunications and Information Exchange Between Systems – Local and Metropolitan Area Networks – Specific Requirements Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications – Amendment: MAC Control Frame for Priority-Based Flow Control

Recommendation: Conditionally approve

There was a motion to conditionally approve P802.3bd conditional upon the SASB approval of P802.1Qbb.

P802.15.7/D8 (C/LM) Standard for Short-Range Wireless Optical Communication Using Visible Light

Recommendation: APPROVE

P802.22/D3 (C/LM) Standard for Wireless Regional Area Networks Part 22: Cognitive Wireless RAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications: Policies and Procedures for Operation in the TV Bands

Recommendation: APPROVE

P1474.4/D7 (VT/RTSC) Recommended Practice for Functional Testing of a Communications-Based Train Control (CBTC) System

Recommendation: APPROVE

P1547.4/D12 (SASB/SCC21) Guide for Design, Operation, and Integration of Distributed Resource Island Systems with Electric Power Systems

Recommendation: APPROVE

P1692/D10 (PE/PSC) Guide for the Protection of Communication Installations from Lightning Effects

Recommendation: APPROVE

P1734/D0.7 (C/DA) Standard for Quality of Electronic and Software Intellectual Property Used in System and System on Chip (SoC) Designs

Recommendation: APPROVE

P1786/D11 (PE/NPE) Human Factors Guide for Applications of Computerized Operating Procedure Systems at Nuclear Power Generating Stations and Other Nuclear Facilities

Recommendation: APPROVE

P1900.4a/D3 (COM/SC) Standard for Architectural Building Blocks Enabling Network-Device Distributed Decision Making for Optimized Radio Resource Usage in Heterogeneous Wireless Access Networks – Amendment: Architecture and Interfaces for Dynamic Spectrum Access Networks in White Space Frequency Bands

Recommendation: APPROVE

P11073-30200a/D4 (EMB/11073) Standard for Health Informatics – Point-of-Care Medical Device Communication – Part 30200: Transport Profile – Cable Connected – Amendment 1

Recommendation: APPROVE

PC37.238/D5.8 (PE/PSR) Standard Profile for Use of IEEE Std. 1588 Precision Time Protocol in Power System Applications

Recommendation: APPROVE

REVISION

P515/D3 (IAS/PCI) Standard for the Testing, Design, Installation, and Maintenance of Electrical Resistance Trace Heating for Industrial Applications

Recommendation: APPROVE

P802.15.4/D9 (C/LM) Standard for Local and Metropolitan Area Networks Part 15.4: Low Rate Wireless Personal Area Networks (LRWPANs)

Recommendation: APPROVE

P1303/D2 (PE/SUB) Guide for Static Var Compensator Field Tests

Recommendation: APPROVE

P1647/D9 (C/DA) Standard for the Functional Verification Language e

Recommendation: APPROVE

PC57.12.20/D7 (PE/TR) Standard for Overhead Type Distribution Transformers, 500 kVA and Smaller: High Voltage, 34 500 Volts and Below; Low Voltage, 7970/13 800Y Volts and Below

Recommendation: APPROVE

PC57.135/D9b (PE/TR) Guide for the Application, Specification and Testing of Phase Shifting Transformers

Recommendation: APPROVE

P21451-7/D20110426 (IM/ST) Information Technology – Smart Transducer Interface for Sensors and Actuators – \Part 7: Transducers to Radio Frequency Identification (RFID) Systems Communication Protocols and Transducer Electronic Data Sheet (TEDS) Formats

Recommendation: Conditionally Approve

There was a motion to approve P21451-7 conditional on SASB approval of the modified PAR.

REAFFIRMATION

1-2000 (R2005) (SASB/SCC04) IEEE Recommended Practice – General Principles for Temperature Limits in the Rating of Electrical Equipment and for Evaluation of Electrical Insulation

Recommendation: Disapprove

There was a motion to recommend disapproval of 1-2000 (R2005) and the remedy is to do a recirculation of all comments and responses.

(This item was removed from the Consent Agenda. See item 7.2.1)

303-2004 (IAS/PCI) IEEE Recommended Practice for Auxiliary Devices for Rotating Electrical Machines in Class I, Division 2 and Zone 2 Locations

Recommendation: Disapprove

There was a motion to recommend disapproval of 303-2004 and the remedy is to do a recirculation of all comments and responses.

649-2006 (PE/NPE) IEEE Standard for Qualifying Class 1E Motor Control Centers for Nuclear Power Generating Stations

Recommendation: APPROVE

845-1999 (PE/NPE) IEEE Guide for the Evaluation of Human-System Performance in Nuclear Power Generating Stations

Recommendation: APPROVE

1450-1999 (C/TT) IEEE Standard Test Interface Language (STIL) for Digital Test Vector Data

Recommendation: APPROVE

1450.1-2005 (C/TT) IEEE Standard for Extensions to Standard Test Interface Language (STIL) (IEEE Std 1450-1999) for Semiconductor Design Environments

Recommendation: APPROVE

1450.6-2005 (C/TT) IEEE Standard Test Interface Language (STIL) for Digital Test Vector Data – Core Test Language (CTL)

Recommendation: APPROVE

1547.1-2005 (SASB/SCC21) IEEE Standard for Conformance Tests Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems

Recommendation: APPROVE

C57.146-2005 (PE/TR) IEEE Guide for the Interpretation of Gases Generated in Silicone-Immersed Transformers

Recommendation: APPROVE

2.2.4 Approval of 1 Invited Expert for P1012 Sponsor Ballot

Anatol W. Kark

3 Legal Update

None.

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

Judy Gorman reported.

5 Old Business

5.1 The [minutes](#) of the 31 March 2011 meeting were approved on 18 May 2011.

5.2 L-50S [Report](#)

Juanita Lewis reported. Of the 19 reports that contained financial activity, 7 Sponsors were able to use the EZ version.

5.3 Commercial Terms Ad Hoc [Report](#)

Michael Janezic reported.

The ad hoc is disbanded.

6 EXECUTIVE SESSION ITEMS

6.1 COMSOC/DySPAN

6.2 P1900.7 PAR

6.3 Invited Experts Request from C/EASC for P1680.2 and P1680.3

6.4 Commercial Terms

Executive Session started at 9:10 a.m. Executive Session ended at 12:27 p.m.

Deliberative body for items 6.3 and 6.4:
Ted Burse

Wael Diab
Alex Gelman
Paul Houzé
Rich Hulett, Chair
John Kulick
Hung Ling
Oleg Logvinov
Ted Olsen
Gary Robinson
Jon Rosdahl
Sam Sciacca
Mike Seavey
Curtis Siller
Phil Winston

Report out of Executive Session:

- 1. The SASB SCC41/1900.4 Oversight Committee is authorized to share appropriate information, in confidence, with the COMSOC Standards Board to assist with its integration of DySPAN activities into COMSOC.**
- 2. P1900.7 PAR is approved.**
- 3. No invited experts were approved for either P1680.2 or P1680.3.**
- 4. Commercial Terms was discussed; no action was taken by the SASB.**

7 SASB Standing Committee Reports

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

Jon Rosdahl, NesCom Chair, reported.

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

David Law, RevCom Chair, reported.

7.2.1 1-2000 (R2005) Reaffirmation

The RevCom motion was to disapprove with a remedy to do a recirculation of all comments. After discussion, a vote was taken. The motion failed.

A motion was made to approve the reaffirmation. The motion was approved.

7.3 Procedures Committee ([ProCom](#))

Jim Hughes, ProCom Chair, reported.

Items for SASB email ballot:

- [Proposed changes](#) to SASB Bylaws and SASB OpMan RE: Interpretations
- Proposed changes to SASB OpMan RE: Access to Ballot Group Information
- Proposed changes to SASB OpMan RE: Scope in an Amendment

7.4 Audit Committee ([AudCom](#))

Ted Olsen, AudCom Chair, reported.

7.5 Patent Committee ([PatCom](#))

John Kulick, PatCom Chair, reported.

8 Standards Coordinating Committee Reports

8.1 SCC Coordinator's [Report](#)

John Kulick, SCC Coordinator, reported.

There was a motion to accept the submitted [report from SCC20](#). The motion was approved.

8.2 Scheduled Reports Due in June:

8.2.1 [SCC20](#) – Test and Diagnosis for Electronic Systems (Mike Seavey)

Mike Seavey, SCC20 Chair, reported. Mike thanked Lisa Yacone for her assistance during the SCC20 meetings held in April.

9 Ad Hoc Reports

9.1 Reaffirmation Process Ad Hoc [Report](#)

Jim Hughes, Reaffirmation Ad Hoc Chair, reported.

When the approved P&P changes are implemented in January 2012, existing standards will be granted extensions to the latest of the following dates:

- 10 years since initial SASB approval date,
- 10 years since reaffirmation/stabilization date, or
- 31 December 2018

Any reaffirmation/stabilization ballot that is in process on 1 January 2012 will need to complete in time for submittal to RevCom for its 4 December 2012 meeting. No reaffirmation/stabilization ballots can be initiated after 31 December 2011.

9.2 Corporate Influence Ad Hoc [Report](#)

Oleg Logvinov, Corporate Influence Ad Hoc Chair, reported.

SASB members are encouraged to review the proposal under consideration and to send any comments to Oleg Logvinov and Dave Ringle.

9.3 'Match' Rule Ad Hoc [Report](#)

David Law, 'Match' Rule Ad Hoc Chair, reported.

10 Liaison Reports

10.1 NIST [Report](#)

Michael Janezic reported.

11 Informational Reports

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

Steve Mills, IEEE-SA President reported.

Steve noted that the IEEE-SA Awards Committee (ArCom) continues to seek nominees for the various IEEE-SA awards. In addition, ArCom has created some new awards.

Steve thanked staff, especially Moira Patterson and Jennie Steinhagen, for pulling information together quickly for his report.

11.2 CAG [Report](#)

Jim Hughes, CAG member, reported.

11.3 SASB Chair's Report

Chair Hulett gave a verbal report, noting that the Sponsor for P998 had received a number of appeals and that some decisions of the Sponsor appeal panel related to hearing appeals had now been appealed to the SASB.

12 New Business

12.1 [Industry Connections](#)

This item was taken at 1:00 p.m. immediately after lunch.

Jim Wendorf reported.

He is seeking agreement from the SASB to assume ownership and oversight of Industry Connections (IC) programs, which are currently governed by the BOG. The target date for the transition is 1 January 2012.

Jim will work with ProCom to adapt and refine the IC processes, and to define any necessary changes to P&P documents.

The following SASB members volunteered to assist: Alex Gelman, Jim Hughes, David Law, and Don Wright.

13 [Next Meeting](#)

The next meeting of the IEEE-SA Standards Board will be 10 September 2011 in Seoul, South Korea.

14 SASB Resolutions

The SASB SCC41/1900.4 Oversight Committee is authorized to share appropriate information, in confidence, with the COMSOC Standards Board to assist with its integration of DySPAN activities into COMSOC.

15 Adjournment

There being no further business, the meeting was adjourned at 4:15 p.m.