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  
Moira 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**
**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

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

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

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**

**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

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


Recommendation: APPROVE

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

Recommendation: APPROVE


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


Recommendation: APPROVE


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


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


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

REAFFIRMATION


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


Recommendation: APPROVE

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

Recommendation: APPROVE

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
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.
Patent Committee (PatCom)

John Kulick, PatCom Chair, reported.

Standards Coordinating Committee Reports

SCC Coordinator’s Report

John Kulick, SCC Coordinator, reported.

There was a motion to accept the submitted report from SCC20. The motion was approved.

Scheduled Reports Due in June:

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.

Ad Hoc Reports

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.

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.

‘Match’ Rule Ad Hoc Report

David Law, ‘Match’ Rule Ad Hoc Chair, reported.

NIST Report

Michael Janezic reported.

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.