

NesCom Meeting Minutes

4 December 2015

**IEEE-SA Standards Board New Standards Committee (NesCom)
Meeting Minutes**

4 December 2015

IEEE Operations Center, Piscataway, New Jersey, USA

8:30 a.m. - 2:00 p.m.

Members Present:

Osama Aboul-Magd
Stephen Dukes
James Gilb
Michael Janezic
Xiaohui Liu
Kevin Lu
Andrew Myles
Annette Reilly
Jon Rosdahl
Phil Winston, Chair

Members Absent:

Curtis Siller

Guests:

Chuck Adams
Peter Balma
Dennis Brophy
Jean-Philippe Faure
Jinri Huang [part-time by phone]
Rich Hulett
Bruce Kraemer
John Kulick
David Law
John Messenger
Paul Nikolich
Ted Olsen
Glenn Parsons
Adrian Stephens
Claire Topp
Mehmet Ulema
Phil Wennblom
John White [part-time by phone]
Don Wright
Daidi Zhong

Staff:

Melissa Aranzamendez
Bill Ash
Christy Bahn
Kathryn Bennett
Christina Boyce
Kim Breitfelder
Matt Ceglia
Jonathan Goldberg
Lloyd Green
Jodi Haasz
Mary Ellen Hanntz
Yvette Ho Sang
Noelle Humenick
Konstantinos Karachalios
Karen Kenney
Soo Kim
Victoria Kuperman-Super
Brenda Mancuso
Jennifer McClain
Mary Lynne Nielsen
Walter Pienciak
Dave Ringle
Pat Roder
Sam Sciacca
Alpesh Shah
Patrick Slaats
Erin Spiewak
Cherry Tom
Lisa Weisser, Administrator
Malia Zaman
Meng Zhao

[Unless otherwise noted, all votes are unanimous]

1 CALL TO ORDER

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

2 REVIEW OF AGENDA

Chair Winston noted that there were two time sensitive PAR discussions; consideration of P1914.1 would occur at 10:30 a.m. and consideration of P62582-6 would occur at 12:00 p.m. in order to enable the respective Working Group Chairs to join the discussion of each PAR by phone. He also accepted a request by James Gilb to add a discussion to New Business about the relationship with IEEE and IEC. All were in agreement with these agenda changes.

There was a motion to approve the agenda. There was no objection to unanimous consent.

2.1 Consent Agenda

2.1.1 Withdrawal Requests

2.1.2 PARs to be Administratively Withdrawn

P1619 (C/IA)

Standard for Cryptographic Protection of Data on Block-Oriented Storage Devices
([Revision PAR](#))

P25010 (C/S2ESC)

Standard -- Adoption of ISO/IEC 25010-2010 Systems and Software Engineering -- Systems and Software Quality Requirements and Evaluation (SQuaRE) -- System and Software Quality Models
([New PAR](#))

P1822 (EMB/Std Com)

Standard for Digital Microscope Analyzer, Whole Slide Image Scanner and Digital Microscope
([New PAR](#))

P1580.1 (IAS/PCI)

Recommended Practice for Insulated Bus Pipe for Use on Shipboard and Fixed or Floating Platforms
([New PAR](#))

P1595 (PE/ED&PG)

Standard for Designating and Quantifying Green Energy Projects in the Electricity Sector
([New PAR](#))

P1254 (PE/IC)
Guide for Soil Thermal Stability
([New PAR](#))

P692a (PE/NPE)
Standard Criteria for Security Systems for Nuclear Power Generating Stations
Amendment a: Alignment with Recent Industry Security Approach Changes
([Amendment PAR](#))

PC93.3 (PE/PSC)
Standard for the Requirements for Power-Line Carrier Line Traps (30-500 kHz)
([New PAR](#))

P1562 (SASB/SCC21)
Guide for Array and Battery Sizing in Stand-Alone Photovoltaic (PV) Systems
([Revision PAR](#))

P2030.1 (SASB/SCC40)
Guide for Electric-Sourced Transportation Infrastructure
([New PAR](#))

P1833 (VT/RTSC)
Guide for the Design of Direct Current Overhead Contact Systems for Transit Systems
([New PAR](#))

3 APPROVAL OF PRIOR MEETING MINUTES

There was a motion to approve the 2 September 2015 NesCom meeting minutes. There was brief discussion after James Gilb objected to the format of all of the minutes for the meetings from the committees of the SASB. Upon vote, the minutes of the 2 September 2015 NesCom meeting were approved [8 in favor, 1 opposed (Gilb), 1 abstain (Rosdahl)].

4 PARS FOR DISCUSSION

4.1 Modified PARs

IEEE-SA Board of Governors/Corporate Advisory Group

P1834
Technology Supervision Code for Wind Turbine Rotor Systems
Recommendation: Approve modified PAR

IEEE Computer Society/LAN/MAN Standards Committee

P802.15.3d

Standard for Information technology-- Local and metropolitan area networks-- Specific requirements-- Part 15.3: Wireless Medium Access Control (MAC) and Physical Layer (PHY) Specifications for High Rate Wireless Personal Area Networks (WPAN) Amendment for a 100 Gb/s wireless switched point-to-point physical layer
Recommendation: Approve modified PAR (9 in favor, 0 opposed, 1 recuse)

IEEE Communications Society/Standards Development Board

P1912

Standard for Privacy and Security Architecture for Consumer Wireless Devices
Recommendation: Approve modified PAR

IEEE Power and Energy Society/Power System Relaying

PC37.238

Standard Profile for Use of IEEE 1588 Precision Time Protocol in Power System Applications
Recommendation: Approve modified PAR

4.2 Extension Requests

IEEE Computer Society/Learning Technology

P1484.13.4

Recommended Practice for Learning Technology - IMS Content Packaging Information Model (CP) Version 1.2 - Mapping to the Conceptual Model for Resource Aggregation
Recommendation: Approve request for an extension until December 2016

IEEE Computer Society/Test Technology

P1804

Standard for Fault Accounting and Coverage Reporting to Digital Modules (FACR)
Recommendation: Approve request for an extension until December 2016

P1838

Standard for Test Access Architecture for Three-Dimensional Stacked Integrated Circuits
Recommendation: Approve request for an extension until December 2018

IEEE Communications Society/Standards Development Board

P1903.1

Standard for Content Delivery Protocols of Next Generation Service Overlay Network (NGSON)
Recommendation: Approve request for an extension until December 2016

P1903.2

Standard for Service Composition Protocols of Next Generation Service Overlay Network (NGSON)

Recommendation: Approve request for an extension until December 2016

P1903.3

Standard for Self-Organizing Management Protocols of Next Generation Service Overlay Network (NGSON)

Recommendation: Approve request for an extension until December 2016

P1907.1

Standard for Network-Adaptive Quality of Experience (QoE) Management Scheme for Real-Time Mobile Video Communications

Recommendation: Disapprove request for an extension

P1908.1

Virtual Keyboard Standard for Indic Languages

Recommendation: Conditionally approve request for an extension until 2017; contingent upon placing text from comment 3.1 in dialog into section 2 on the PAR. NB: the condition has been met.

IEEE Industry Applications Society/Petroleum & Chemical Industry**P1814**

Recommended Practice for Electrical System Design Techniques to Improve Electrical Safety

Recommendation: Approve request for an extension until December 2017

P80005-2

Cold Ironing Part 2: High Voltage Shore Connection (HVSC) Systems - Communication Interface Description

Recommendation: Approve request for an extension until December 2017

IEEE Industry Applications Society/Technical Books Coordinating Committee**P3001.11**

Recommended Practice for Application of Controllers and Automation to Industrial and Commercial Power Systems

Recommendation: Approve request for an extension until December 2016

P3002.2

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

Recommendation: Approve request for an extension until December 2017

P3002.3

Recommended Practice for Conducting Short-Circuit Studies of Industrial and

Commercial Power Systems

**Recommendation: Approve request for an extension until December 2017
(8 in favor, 2 opposed)**

P3002.7

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

**Recommendation: Approve request for an extension until December 2017
(5 in favor, 3 opposed, 1 abstain)**

P3002.8

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

**Recommendation: Approve request for an extension until December 2017
(7 in favor, 2 opposed)**

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 2017
(7 in favor, 2 opposed)**

P3004.9

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

Recommendation: Approve request for an extension until December 2017

P3004.13

Recommended Practice for Overcurrent Coordination in Industrial and Commercial Power Systems

Recommendation: Approve request for an extension until December 2017

IEEE Instrumentation and Measurement Society/TC4 - High Frequency
Measurement

P287.1

Standard for Precision Coaxial Connectors at RF, Microwave and Millimeter-wave Frequencies

Recommendation: Approve request for an extension until December 2018

IEEE Microwave Theory and Techniques Society/Standards Coordinating Committee

P1549-2011/Cor 1

IEEE Standard for Microwave Filter Definitions - Corrigendum 1

**Recommendation: Approve request for an extension until December 2016
(8 in favor, 1 recuse)**

IEEE Power and Energy Society/Energy Development & Power Generation

P421.5

Recommended Practice for Excitation System Models for Power System Stability Studies

Recommendation: Approve request for an extension until December 2016

IEEE Power and Energy Society/Electric Machinery

P112

Standard Test Procedure for Polyphase Induction Motors and Generators

Recommendation: Approve request for an extension until December 2016

IEEE Power and Energy Society/Insulated Conductors

P386

Standard for Separable Insulated Connector Systems for Power Distribution Systems rated 2.5 kV through 35 kV

Recommendation: Approve request for an extension until December 2016

PC62.22.1

Guide for the Connection of Surge Arresters to Protect Insulated Shielded Electric Power Cable Systems Up to 46 kV

Recommendation: Conditionally approve request for an extension until December 2016; contingent upon moving the acronym definition from section 8.1 into section 2 on the PAR. NB: the condition has been met.

IEEE Power and Energy Society/Power System Relaying

C37.113

Guide for Protective Relay Applications to Transmission Lines

Recommendation: Disapprove request for an extension because the project was recommended for approval by RevCom.

IEEE Power and Energy Society/Stationary Batteries Committee

P946

Recommended Practice for the Design of DC Power Systems for Stationary Applications

Recommendation: Approve request for an extension until December 2017

P1679.1

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

Recommendation: Defer request for an extension until the next NesCom meeting with a request that more information is provided in section 2 on the PAR. (8 in favor 1 opposed)

P1679.2

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

Recommendation: Approve request for an extension until December 2017

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

PC62.33

Standard for Test Methods and Performance Values of Metal-Oxide Varistor Surge Protective Components

Recommendation: Approve request for an extension until December 2016

IEEE Power and Energy Society/Substations

P1268

Guide for Safety in the Installation of Mobile Substation Equipment

Recommendation: Approve request for an extension until December 2016

P1427

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

Recommendation: Approve request for an extension until December 2017

1815.1

Standard for Exchanging Information Between Networks Implementing IEC 61850 and IEEE Std 1815 (Distributed Network Protocol - DNP3)

Recommendation: Disapprove request for an extension because the project was recommended for approval by RevCom.

IEEE Power and Energy Society/Switchgear

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: Defer request for an extension until the next NesCom meeting with a request to clarify section 2 on the PAR. (8 in favor, 1 opposed)

PC37.10.1

Guide for the Selection of Monitoring for Circuit Breakers

Recommendation: Disapprove request for an extension (6 in favor, 2 opposed, 1 abstain)

PC37.20.7

Guide for Testing Switchgear Rated 38 kV or Below for Internal Arcing Faults

Recommendation: Approve request for an extension until December 2017

IEEE Power and Energy Society/Transmission and Distribution**P751**

Guide for Design of Wood Transmission Structures

Recommendation: Approve request for an extension until December 2017 (8 in favor, 1 opposed)

IEEE Power and Energy Society/Transformers**PC57.12.24**

Standard for Submersible, Three-Phase Transformers, 3750 kVA and Smaller: High Voltage, 34 500 GrdY/19 920 Volts and Below; Low Voltage, 600 Volts and Below

Recommendation: Approve request for an extension until December 2017

PC57.12.36

Standard Requirements for Liquid-Immersed Distribution Substation Transformers

Recommendation: Approve request for an extension until December 2017

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 request for an extension until December 2017

PC57.156

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

Recommendation: Approve request for an extension until December 2017

IEEE-SASB Coordinating Committees/SCC39 - International Committee on Electromagnetic Safety**P62704-1**

Standard for Determining the Peak Spatial Average Specific Absorption Rate (SAR) in the Human Body from Wireless Communications Devices, 30 MHz - 6 GHz Part 1: General Requirements for using the Finite Difference Time Domain (FDTD) Method for SAR Calculations

Recommendation: Approve request for an extension until December 2016

P62704-2

Standard for Determining the Peak Spatial Average Specific Absorption Rate (SAR) in the Human Body from Wireless Communications Devices, 30 MHz - 6 GHz Part 2: Specific Requirements for Finite Difference Time Domain (FDTD) Modelling of Exposure from Vehicle Mounted Antennas

Recommendation: Approve request for an extension until December 2016

P62704-3

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

Recommendation: Conditionally approve request for an extension until December 2017; contingent upon changing the wording in section 2 on the PAR from interlab study to interlaboratory comparison. (8 in favor, 1 opposed) NB: the condition has been met.

P62704-4

Standard for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body from Wireless Communications Devices, 30 MHz - 6 GHz: General Requirements for Using the Finite Element Method (FEM) for SAR Calculations and Specific Requirements for Modeling Vehicle-Mounted Antennas and Personal Wireless Devices

Recommendation: Approve request for an extension until December 2017

4.3 New PARs

IEEE Computer Society/LAN/MAN Standards Committee

P802.3ca

Approved Draft Standard for Ethernet

Amendment: Physical Layer Specifications and Management Parameters for 25 Gb/s, 50 Gb/s, and 100 Gb/s Passive Optical Networks

Recommendation: Approve new PAR until December 2019

P802.3cb

Approved Draft Standard for Ethernet

Amendment: Physical Layer Specifications and Management Parameters for 2.5 Gb/s and 5 Gb/s Operation over Backplane and Copper Cables

Recommendation: Approve new PAR until December 2019

P802.15.4t

Standard for Local and metropolitan area networks--Part 15.4: Low-Rate Wireless Personal Area Networks (LR-WPANs) Amendment for a Higher Rate (2 Mb/s) Physical (PHY) Layer

Recommendation: Conditionally approve new PAR until December 2019; contingent upon adding (2 Mb/s) after Higher Rate in the title. NB: the condition has been met.

P802.15.4u

Standard for Local and Metropolitan Area Networks -Part 15.4: Low-Rate Wireless Personal Area Networks (LR-WPANs) Amendment for Use of the 865-867 MHz Band in India

Recommendation: Approve new PAR until December 2019

P802d

Standard for Local and Metropolitan Area Networks: Overview and Architecture
Amendment: Uniform Resource Names (URN) Namespace

Recommendation: Approve new PAR until December 2019

IEEE Computer Society/Standards Activities Board

P1857.8

Standard for 2nd Generation Audio Coding

Recommendation: Approve new PAR until December 2019 (6 in favor, 2 opposed, 1 abstain)

P1857.9

Standard for Immersive Visual Content Coding

Recommendation: Approve new PAR until December 2019 (4 in favor, 2 opposed, 3 abstain)

IEEE Communications Society/Standards Development Board

Jinri Huang, Working Group Chair for COM/SDB/NGFI joined the meeting by phone for discussion of this PAR:

P1914.1

Standard for Packet-based Fronthaul Transport Networks

**Recommendation: Defer new PAR until the next NesCom meeting.
Guidance will be provided by NesCom members and staff. (7 in favor, 1 opposed, 1 abstain)**

AI: Steve Dukes and James Gilb volunteered to work with the group to edit the PAR.

P1915.1

Standard for Software Defined Networking and Network Function Virtualization Security

Recommendation: Approve new PAR until December 2019

P1916.1

Standard for Software Defined Networking and Network Function Virtualization Performance

Recommendation: Approve new PAR until December 2019

P1917.1

Standard for Software Defined Networking and Network Function Virtualization Reliability

Recommendation: Approve new PAR until December 2019

IEEE Engineering in Medicine and Biology Society/IEEE 11073 Standards

Committee

P11073-10101b

Health informatics -- Point-of-care medical device communication -- Part 10101:
Nomenclature Amendment 2: Additional definitions

Recommendation: Approve new PAR until December 2019

P11073-10103a

Health informatics--Point-of-care medical device communication Part 10103:
Nomenclature--Implantable device, cardiac Amendment 1: Additional definitions

Recommendation: Approve new PAR until December 2019

IEEE Electromagnetic Compatibility Society/Standards Development Committee

P1848

Techniques & Measures to Manage Risks With Regard to Electromagnetic
Disturbances

**Recommendation: Defer new PAR until the next NesCom meeting with
request to edit sections 7 and 8 on the PAR. (4 in favor, 2 opposed, 3
abstain)**

IEEE Power and Energy Society/Nuclear Power Engineering

John White, Working Group Chair for PE/NPE/WG_2.1 joined the meeting by phone
for discussion of this PAR:

P62582-6

Nuclear power plants -- Instrumentation and control important to safety --
Electrical equipment condition monitoring methods. Part 6: Insulation resistance

Recommendation: Approve new PAR until December 2019

IEEE Power and Energy Society/ Switchgear

PC37.100.5

Common Definitions for Switchgear

Recommendation: Approve new PAR until December 2019

4.4 PARs for the Revision of Standards

IEEE Antennas and Propagation Society/Antennas

P149

Recommended Practice for Antenna Measurements

**Recommendation: Approve PAR for the revision of a standard until
December 2019**

P1502

Recommended Practice for Radar Cross-Section Test Procedures

Recommendation: Approve PAR for the revision of a standard until December 2019

IEEE Antennas and Propagation Society/Propagation

P211

Standard Definitions of Terms for Radio Wave Propagation

Recommendation: Approve PAR for the revision of a standard until December 2019

IEEE Computer Society/Microprocessor Standards Committee

P1722.1

Standard for Device Discovery, Connection Management, and Control Protocol for Time-Sensitive Networking Systems

Recommendation: Approve PAR for the revision of a standard until December 2019 (8 in favor, 1 abstain)

IEEE Electromagnetic Compatibility Society/Standards Development Committee

P1597.1

Standard for Validation of Computational Electromagnetics Computer Modeling and Simulations

Recommendation: Approve PAR for the revision of a standard until December 2019 (8 in favor, 1 abstain)

IEEE Industry Applications Society/Petroleum & Chemical Industry

P515

Standard for the Testing, Design, Installation, and Maintenance of Electrical Resistance Trace Heating for Industrial Applications

Recommendation: Approve PAR for the revision of a standard until December 2019

IEEE Power and Energy Society/Electric Machinery

P115

Guide for Test Procedures for Synchronous Machines Part I--Acceptance and Performance Testing Part II--Test Procedures and Parameter Determination for Dynamic Analysis

Recommendation: Approve PAR for the revision of a standard until December 2019

IEEE Power and Energy Society/Insulated Conductors

P1617

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

Recommendation: Approve PAR for the revision of a standard until December 2019

IEEE Power and Energy Society/Power System Relaying

PC37.108

Guide for the Protection of Secondary Network Systems

Recommendation: Approve PAR for the revision of a standard until December 2019

PC37.233

Guide for Power System Protection Testing

Recommendation: Approve PAR for the revision of a standard until December 2019

IEEE Power and Energy Society/Switchgear

PC37.24

Guide for Evaluating the Effect of Solar Radiation on Outdoor Metal-Enclosed Switchgear

Recommendation: Approve PAR for the revision of a standard until December 2019

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

P1505.1

Standard for the Common Test Interface Pin Map Configuration for High-Density, Single-Tier Electronics Test Requirements Utilizing IEEE Std 1505

Recommendation: Approve PAR for the revision of a standard until December 2019

P1636

Standard for Software Interface for Maintenance Information Collection and Analysis (SIMICA)

Recommendation: Approve PAR for the revision of a standard until December 2019

5 OLD BUSINESS

There was no old business.

6 NEW BUSINESS

6.1 IEEE/IEC relationship – James Gilb

James Gilb introduced this discussion with regard to NesCom's review of PARs. It was noted that because the timelines for the two organizations are different, there is often the need for IEEE to make exceptions to processes. It was pointed out that this is most often an issue in the case of adoptions. There was agreement that the two organizations should work together earlier in the process for better collaboration.

6.2 myProject redesign demo – Christina Boyce and Sampath Heragu

Due to time constraints, this item was moved to after the NesCom meeting. Several volunteers and staff members remained in the room to view the demo of the updated myProject and they provided feedback for the design team.

7 NEXT MEETING

The next meeting of NesCom will be a Continuous Processing Teleconference. It was scheduled for 19 January 2016, but the date changed to 26 January 2016 due to potential quorum issues. The submittal deadline is 9 December. The next in-person meeting will take place on 2 March 2016 in New Delhi, India.

8 ADJOURNMENT

The meeting continued past 2:00 p.m. and was adjourned at 2:10 p.m.