

**IEEE SA Standards Board New Standards Committee (NesCom)**

**Meeting Minutes**

11 June 2021

9:00 a.m. - 12:00 p.m. ET (UTC-4)

Teleconference

Members Present:

Doug Edwards

Ramy A. Fathy, Vice Chair

Guido Hiertz

Wei Hong

Daleep Mohla [part time]

Annette Reilly

Dorothy Stanley, Chair

Mehmet Ulema

Lei Wang

Karl Weber

Sha Wei, Vice Chair

Don Wright

Members Absent:

Chenhui Niu

Daidi Zhong

Guests:

Ron Hartzel

Gary Hoffman

Taras Holoyad

Roland Kudozia

Xiaohui Liu

Kevin Lu

Nara Luan

Keith Moore

Luntian Mou

Paul Nikolich

Glenn Parsons

Mark Siira

Gary Stuebing

Richard Tong

Claire Topp [legal counsel]

Shanshe Wang

IEEE Staff:

Christy Bahn

Adrien Barmaksiz

Matt Ceglia  
Karen Evangelista  
Jonathan Goldberg  
Lloyd Green  
Jodi Haasz  
Yvette Ho Sang  
Konstantinos Karachalios  
Soo Kim  
Michael Kipness  
Vanessa Lalitte  
Jiajia Liu  
Kelly Lorne  
Erin Morales  
Ashley Moran  
Adam Newman  
Christian Orlando  
Dan Perez  
Dave Ringle  
Pat Roder  
Jennifer Santulli  
Rudi Schubert  
Tom Thompson  
Lisa Weisser, Administrator  
Malia Zaman  
Meng Zhao

**[Unless otherwise noted, all votes are unanimous]**

## **1 CALL TO ORDER AND INTRODUCTIONS**

Chair Stanley welcomed everyone and called the meeting to order at 9:00 a.m. ET (UTC-4). There was a round of introductions by all in attendance.

## **2 REVIEW AND APPROVAL OF THE AGENDA**

The agenda was reviewed, and Chair Stanley asked if there were any changes to be made. There were none.

**A motion was made (Mohla) and seconded (Edwards) to approve the 11 June 2021 NesCom meeting agenda, including the consent agenda. In the absence of objection, the motion was approved.**

### **2.1 Consent Agenda**

#### **2.1.1 Withdrawal Requests**

**IEEE Communications Society/Mobile Communication Networks Standards Committee**

#### **P1914.3a**

Standard for Radio over Ethernet Encapsulations and Mappings

Amendment 1: Encapsulation Enhancements and Elaborations, Additional Operation, Administration, and Maintenance (OAM) Functions, Management Model, Clarification on Relationships between Parameters

**Recommendation: Approve PAR withdrawal**

**2.1.2. Standards Committee Change for 2700 'Standard for Sensor Performance Parameter Definitions' to Move from EDS/MEMS to BOG/SESCOM**

Note: The approval of this Standards Committee change request was included in the approval of the agenda and consent agenda. The standard, 2700 has been moved from EDS/MEMS to BOG/SESCOM.

**2.1.3. Standards Committee Change for 1474.4, 'Recommended Practice for Functional Testing of a Communications-Based Train Control (CBTC) System', P1474.1, 'Standard for Communications-Based Train Control (CBTC) Performance and Functional Requirements', P1474.2, 'Standard for User Interface Requirements in Communications-Based Train Control (CBTC) Systems', and P1474.3, 'Recommended Practice for Communications-Based Train Control (CBTC) System Design and Functional Allocations' to Move from VT/RTSC to VT/CBTC&SIG**

Note: The approval of this Standards Committee change request was included in the approval of the agenda and consent agenda. The three PARs, P1474.1, P1474.2, and P1474.3, and one standard, 1474.4, have been moved from VT/RTSC to VT/CBTC&SIG.

**2.1.4. Standards Committee Change Request for Three PARs and Eight Standards to Move from VT/RTSC to VT/TPSSC**

Note: The approval of this Standards Committee change request was included in the approval of the agenda and consent agenda.

The following three PARs have been moved from VT/RTSC to VT/TPSSC:

P2853 'Recommended Practice for Grounding of Traction Power Systems'

P1653.1 'Standard for Traction Power Rectifier Transformers for Substation Applications up to 1500 V DC Nominal Output'

P1884 'Guide for Stray Current/Corrosion Mitigation for DC Rail Transit Systems'

The following eight standards have been moved from VT/RTSC to VT/TPSSC:

1653.1 'Standard for Traction Power Rectifier Transformers for Substation Applications up to 1500 V DC Nominal Output'

1653.2 'Standard for Uncontrolled Traction Power Rectifiers for Substation Applications up to 1500 V DC Nominal Output'

1653.3 'Guide for Rail Transit Traction Power Systems Modeling'

1653.4 'Standard for DC Traction Power System Field Testing and Acceptance Criteria for System Applications up to 1500 V DC Nominal'

1653.5 'Recommended Practice for Thyristor Controlled Rectifiers for Traction Power Substation Applications'

1653.6 'Recommended Practice for Grounding of DC Equipment Enclosures in Traction Power Distribution Facilities'

1887 'Guide for Wayside Energy Storage Systems for DC Traction Applications'

2720 'Guide for Rail Potential Management for DC Electrification Systems'

**3 APPROVAL OF MINUTES FROM THE 04 MAY 2021 NESCOM MEETING**

A motion was made (Hong) and seconded (Edwards) to approve the minutes of the 04 May 2021 NesCom meeting. In the absence of objection, the motion was approved.

#### 4 PARS FOR DISCUSSION

##### 4.1 Modified PARs

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

###### **P11073-10700**

Health Informatics - Device Interoperability - Part 10700: Point-of-Care Medical Device Communication - Standard for Base Requirements for Participants in a Service-Oriented Device Connectivity (SDC) System

**Recommendation: Approve modified PAR**

IEEE Instrumentation and Measurement Society/TC9 - Sensor Technology

###### **P1588d**

Standard for a Precision Clock Synchronization Protocol for Networked Measurement and Control Systems  
Amendment: Guidelines for selecting and operating a Key Management System

**Recommendation: Approve modified PAR (5 approve, 3 disapprove [Mohla, Reilly, Weber], 3 abstain [Fathy, Hong, Wei])**

There was a discussion about whether terminology in this PAR needed to be updated, related to efforts to avoid non-inclusive terminology in IEEE standards. There is another amendment to IEEE 1588-2019 that will offer options to address inclusive terminology. The PAR was recommended for approval, but it was also discussed during the SASB meeting. The SASB approved the PAR.

##### 4.2 Extension Requests

IEEE Power and Energy Society/Electric Machinery

###### **P2465**

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

**Recommendation: Approve request for an extension until December 2023**

IEEE Power and Energy Society/Insulated Conductors

###### **P1186**

Recommended Practice for Applicability of Methods for the Evaluation of Low Voltage and Medium Voltage Installed Cable Systems in Nuclear Facilities

**Recommendation: Approve request for an extension until December 2024**

IEEE Power and Energy Society/Power System Instrumentation and Measurements

###### **P2426**

Guide for Field Measurement of Fast-Front and Very Fast-Front Overvoltages in Electric Power System

**Recommendation: Approve request for an extension until December 2023**

IEEE Power and Energy Society/Transformers

###### **PC57.91**

Guide for Loading Mineral-Oil-Immersed Transformers and Step-Voltage Regulators

**Recommendation: Approve request for an extension until December 2023**

**PC57.113**

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

**Recommendation: Approve request for an extension until December 2023**

**PC57.142**

Guide to Describe the Occurrence and Mitigation of Switching Transients Induced by Transformers, Switching Device, and System Interaction

**Recommendation: Approve request for an extension until December 2023**

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

**P2030.4**

Guide for Control and Automation Installations Applied to the Electric Power Infrastructure

**Recommendation: Approve request for an extension until December 2024**

**4.3 New PARs**

IEEE Computer Society/Learning Technology

**P2997**

Standard for Enterprise Learner Record

**Recommendation: Approve new PAR until December 2025**

IEEE Computer Society/Software & Systems Engineering Standards Committee

**P2995**

Trial-Use Standard for a Quantum Algorithm Design and Development

**Recommendation: Approve new PAR until December 2025**

**P2998**

Recommended Practice for Building Accessible Applications

**Recommendation: Approve new PAR until December 2025**

IEEE Consumer Technology Society/Standards Committee

**P2861.4**

Standard for Game Voice Enhancement for Mobile Gaming

**Recommendation: Approve new PAR until December 2025**

IEEE Industry Applications Society/Petroleum & Chemical Industry

**P1017.4**

Recommended Practice for Testing and Rating of Electrical Submersible Pump Motors

**Recommendation: Approve new PAR until December 2025**

IEEE Instrumentation and Measurement Society/TC45 - Radiation and Nuclear Instrumentation and Systems

**PN42.46**

Standard for Determination of the Imaging Performance of X-Ray and Gamma-Ray Systems for Cargo and Vehicle Security Screening

**Recommendation: Approve new PAR until December 2025**

**PN42.59**

Standard for Measuring the Imaging Performance of Millimeter-Wave Systems for Security Screening of Humans

**Recommendation: Approve new PAR until December 2025**

**IEEE Photonics Society/Standards Committee****P2999**

Guide for Technical Requirements and Test Methods for Industrial Ultrashort Pulse Lasers

**Recommendation: Approve new PAR until December 2025**

**P3101**

Standard for Fiber Optic Distributed Acoustic Sensing (DAS) Interrogator Standard - Terminology and Definitions

**Recommendation: Approve new PAR until December 2025**

**IEEE Power and Energy Society/Power System Communications and Cybersecurity****PC93.5-2021/Cor 1**

Standard for Power Line Carrier Transmitter/Receiver Equipment Used to Transfer Discrete Teleprotection Signals - Corrigendum 1

Corrigendum: To add Table 3 which is referenced and required but missing in IEEE Std C93.5

**Recommendation: Approve new PAR until December 2025**

**IEEE Power and Energy Society/Surge Protective Devices/Low Voltage****PC62.42.5**

Guide for the Application of Surge-Protective Components in Surge Protective Devices and Equipment Ports - Part 5: 2-Terminal Electronic Current Limiters

**Recommendation: Approve new PAR until December 2025**

**IEEE Power and Energy Society/Transmission and Distribution****P1048b**

Guide for Protective Grounding of Power Lines

Amendment: Differentiating the Fabric Carrier Mat and the Rigid Carrier Mat

**Recommendation: Approve new PAR until December 2025**

**4.4 PARs for the Revision of Standards****IEEE Communications Society/Mobile Communication Networks Standards Committee****P1914.3**

Standard for Radio over Ethernet Encapsulations and Mappings

**Recommendation: Approve PAR for the revision of a standard until December 2025**

**IEEE Computer Society/Data Compression Standards Committee****P1857**

Standard for Advanced Audio and Video Coding

**Recommendation: Approve PAR for the revision of a standard until December 2025 (9 approve, 0 disapprove, 1 abstain [Fathy])**

### **P1857.3**

Standard for System of Advanced Audio and Video Coding

**Recommendation: Approve PAR for the revision of a standard until December 2025 (9 approve, 0 disapprove, 1 abstain [Fathy])**

IEEE Computer Society/Simulation Interoperability Stds Organization/Stds Activity Committee

### **P1278.1**

Standard for Distributed Interactive Simulation - Application Protocols

**Recommendation: Approve PAR for the revision of a standard until December 2025**

IEEE Power and Energy Society/Switchgear

### **PC37.20.6**

Standard for 4.76 kV to 48.3 kV Rated Ground and Test Devices Used in Enclosures

**Recommendation: Approve PAR for the revision of a standard until December 2025 (4 approve, 3 disapprove [Fathy, Reilly, Wright], 3 abstain [Hong, Weber, Wei], 1 recuse [Edwards])**

There was a discussion about whether some of the updated text in the scope was appropriate for the scope of the standard. The PAR was recommended for approval, but it was also discussed during the SASB meeting.

Note: This PAR was deferred by the SASB to the September 2021 NesCom meeting.

### **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 2025 (9 approve, 0 disapprove, 1 recuse [Edwards])**

### **PC37.74**

Standard Requirements for Subsurface, Vault, and Padmounted Load-Interrupter Switchgear and Fused Load-Interrupter Switchgear for Alternating Current Systems up to 38 kV

**Recommendation: Approve PAR for the revision of a standard until December 2025 (9 approve, 0 disapprove, 1 recuse [Edwards])**

IEEE Power and Energy Society/Transmission and Distribution

### **P1564**

Guide for Voltage Sag Indices

**Recommendation: Approve PAR for the revision of a standard until December 2025**

### **PC135.80**

Standard for Fasteners for Overhead Line Construction

**Recommendation: Approve PAR for the revision of a standard until December 2025**

Chair Stanley thanked the NesCom members for their review of the PARs, the Chairs for all of their replies, and Lisa Weisser.

## 5 OLD BUSINESS

### 5.1 UPDATE ON CO-STANDARDS COMMITTEE TOPIC

Erin Morales reviewed the information that was first presented at the May NesCom meeting, based on a staff review of the current policies and practices with regard to Co-Standards Committees. This included a review of the process for each type of PAR, as well as potential process updates for consideration. Erin also mentioned that staff is working on a best practices guide that will be distributed to Standards Committee Chairs and posted on the IEEE SA website later this year. There was additional discussion about whether the term 'Co-Standards Committee' accurately reflects the current processes. Chair Stanley noted that the *IEEE SA Standards Board Operations Manual* refers to joint development, and asked if there is interest in finding alternate wording for the PAR or the *IEEE SA Standards Board Operations Manual*. It was agreed that the staff team should continue its work on this topic. Chair Stanley closed this item for NesCom at this time, and she and NesCom thanked staff for their ongoing work.

### 5.2 COMMITTEE MEMBER INTERACTIONS/COMMENTS RE: MYPROJECT

NesCom members discussed some of the features that would make it easier to navigate through the NesCom area in myProject during the review cycles. There is still a need for NesCom members to be able to filter through the submissions to see their votes and comments, along with the need to use Previous and Next buttons to move between PARs for the reviews, and the need to return to the appropriate location on the agenda (i.e., not to the top of the agenda, but to the precise location they were in when they clicked through a submission). Lisa Weisser reminded NesCom that this is on the list of user interface enhancements, which was delayed due to a larger system enhancement that, when completed, will make these NesCom member user interface enhancements easier to implement.

Note: This is a standing agenda item and if anyone has any feedback about their user experience with myProject, please let Lisa Weisser know.

## 6 NEW BUSINESS

### 6.1 PARS WITH OPEN SOURCE COMPONENTS

Chair Stanley introduced this discussion with a reminder that Open Source components for IEEE standards is in the purview of OSCom, and that OSCom site links are available for NesCom members to review. There was a discussion about whether known and/or intended information about incorporation of Open Source would be useful to include on the PARs. It was noted that Open Source is dynamic, and the PARs are relatively stable. Yvette Ho Sang mentioned that there is a subclause in the *IEEE SA Standards Board Operations Manual* which states that a Working Group that is including Open Source in a standard should indicate this in the scope of the standard.

***AI: Yvette Ho Sang will send the text from the IEEE SA Standards Board Operations Manual describing the inclusion of Open Source in the scope of the standard.***

Note: The following text from the *IEEE SA Standards Board Operations Manual* was provided to NesCom following the NesCom meeting:

#### 6.5.2.3 Incorporation of Open Source in standards

IEEE standards may incorporate the use of Open Source:

- Normatively, where use of the Open Source is required when implementing the standard; or
- Informatively, where the Open Source is provided for information only, and not required for implementation.



All IEEE standards that incorporate Open Source should indicate this fact in the scope of the standard; and shall identify in the text of the standard the appropriate use of the Open Source for compliance with the standard (e.g., whether the use is normative or informative), and the location of the software code and documentation in the repository on the IEEE Open Source Platform.

#### **6.2 P2785.1 UPDATE - RAMY FATHY (MENTOR)**

Ramy Fathy provided an update about the mentoring process for P2785.1, which included several email discussions, and a productive meeting on 04 June 2021. The Working Group was receptive to feedback and was provided with options to consider. The next step is for the Working Group to determine how it plans to proceed. Chair Stanley confirmed that Ramy will continue as the mentor.

Note: Following the 04 June meeting, a request was received from the Working Group Chair to move the PAR to the September NesCom meeting to allow time for work to continue on the PAR. The PAR is currently on the September NesCom agenda.

#### **7 DATE OF NEXT MEETING**

The next meeting of NesCom will take place on or close to 22 September 2021.

#### **8 ADJOURNMENT**

There being no further business, the meeting was adjourned at 11:43 a.m. ET (UTC-4).