

IEEE SA Standards Board New Standards Committee (NesCom)

Meeting Minutes

15 May 2023

Time: 10:00 a.m. ET - 12:30 p.m. ET (UTC-4)

Location: Teleconference

Members Present:

Sara Biyabani
Xiaofeng (Alfred) Chen
Doug Edwards
Ramy A. Fathy
Guido Hiertz, Vice Chair
Howard Li
Johnny Lin, Vice Chair
Gui Liu
Daleep Mohla
Annette Reilly
Lei Wang, Chair
Daidi Zhong

Members Absent:

Wei Hong
Andrew Myles

Guests:

Jens Boemer
Xiaozhou Chen
Jean-Philippe Faure
Latonia Gordon
Travis Griffith
Gary Hoffman
Zhou Ji
John Kulick
David Law
Huiwen Liu
Oleg Logvinov
Kevin Lu
Andy Molisch
Paul Nikolich
Glenn Parsons
Mark Siira
Claire Topp [legal counsel]
Don Wright
Du Yan
Lu Yuanyuan

Shi Zhuyu

IEEE Staff:

Kim Breitfelder

Matthew Ceglia

Karen Evangelista

Jonathan Goldberg

Jodi Haasz

Yvette Ho Sang

Ron Hotchkiss

Patrycja Jarosz

Soo Kim

Michael Kipness

Vanessa Lalitte

Kelly Lorne

Gregory Marchini

Karen McCabe

Suzanne Merten

Karen Mulberry

Christian Orlando

Shana Pepin

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 Wang welcomed everyone and called the meeting to order at 10:04 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 Wang asked if there were any changes to be made to the agenda. There were none.

A motion was made to approve the 15 May 2023 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

There were no withdrawal requests.

3 Approval of Minutes from the 30 January 2023 NesCom Meeting

A motion was made to approve the minutes of the 30 January 2023 NesCom meeting. In the absence of objection, the motion was approved.

4 PARS FOR DISCUSSION

4.1 Modified PARs

IEEE Computer Society/Artificial Intelligence Standards Committee

P3110

Standard for Computer Vision (CV) - Technical Requirements for Algorithms Application Programming Interfaces (APIs) of Deep Learning Framework

Recommendation: Approve modified PAR

IEEE Computer Society/LAN/MAN Standards Committee

P802.1ASdm

Standard for Local and Metropolitan Area Networks - Timing and Synchronization for Time-Sensitive Applications

Amendment: Hot Standby and Clock Drift Error Reduction

Recommendation: Approve modified PAR

P802.1CS-2020/Cor 1

Standard for Local and Metropolitan Area Networks--Link-local Registration Protocol - Corrigendum 1 Corrections to Management Modules and Protocol Encoding

Recommendation: Approve modified PAR

P802.1Qdt

Standard for Local and Metropolitan Area Networks--Bridges and Bridged Networks

Amendment: Priority-based Flow Control Enhancements

Recommendation: Approve modified PAR

IEEE Power and Energy Society/Electric Machinery

P2465

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

Recommendation: Approve modified PAR

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

P1115

Recommended Practice for Sizing Nickel-Cadmium Batteries for Stationary Applications

Recommendation: Approve modified PAR

IEEE Power and Energy Society/Insulated Conductors

P495

Standard for Testing Faulted Circuit Indicators

Recommendation: Approve modified PAR

IEEE Power Electronics Society/Standards Committee**P2996**

Recommended Practice for Near Magnetic Field and Electric Field Characterization of Inductors

Recommendation: Approve modified PAR

IEEE Vehicular Technology Society/Intelligent Transportation Systems**P3344**

Standard for Scenario Description Language for Autonomous Driving

Recommendation: Approve modified PAR

4.2 Extension Requests**IEEE Power and Energy Society/Substations****PC37.122.10**

Guide for Handling Non-Sulphur Hexafluoride (SF6) Gases for High-Voltage Equipment Rated above 1000 Vac

Recommendation: Approve request for an extension until December 2025

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 2025 (10 approve, 0 disapprove, 1 abstain)

PC57.12.38

Standard for Pad-Mounted-Type, Self-Cooled, Single-Phase Distribution Transformers 250 kVA and Smaller: High Voltage, 34 500 GrdY/19 920 V and Below; Low Voltage, 480/240 V and Below

Recommendation: Approve request for an extension until December 2025

PC57.152

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

Recommendation: Approve request for an extension until December 2025

4.3 New PARs**IEEE Communications Society/Mobile Communication Networks Standards Committee****P1944**

Standard for Channel Models of Wireless Systems

Recommendation: Approve new PAR until December 2027

IEEE Communications Society/Power Line Communications**P1901.3**

Standard for Medium Frequency (less than 12 MHz) Power Line Communications (PLC) with a Hybrid PLC/Radio Frequency Physical Layer (PHY)

Recommendation: Approve new PAR until December 2027

P3363

Standard for Wireless Sensor Data of Power Transmission and Transformation Equipment

Recommendation: Conditionally approve new PAR until December 2027 pending information of the Working Group Chair being added to the PAR

Note: The condition has been met.

IEEE Computer Society/Blockchain and Distributed Ledgers

P3231

Standard for a Blockchain-based Energy Metaverse Application Model, Framework, and Requirements

Recommendation: Approve new PAR until December 2027

IEEE Computer Society/Data Compression Standards Committee

P2941.3

Standard for Representation and Application Programming Interface (API) of Large-scale Pre-trained Artificial Intelligence (AI) Models

Recommendation: Approve new PAR until December 2027

P3184.1

Standard for Joint Calibration Framework of Multiple Roadside Sensors

Recommendation: Approve new PAR until December 2027

P3184.2

Standard for Property Graph Description of Road Networks

Recommendation: Approve new PAR until December 2027

P3366.1

Standard for Geometry Point Cloud Compression

Recommendation: Approve new PAR until December 2027

P3366.2

Standard for Polygonal Mesh Compression

Recommendation: Approve new PAR until December 2027

IEEE Computer Society/LAN/MAN Standards Committee

P802.1DU

Standard for Local and Metropolitan Area Networks – Cut-Through Forwarding Bridges and Bridged Networks

Recommendation: Approve new PAR until December 2027 (10 approve, 0 disapprove, 1 recuse [Hiertz])

P802.1Qdx

Standard for Local and Metropolitan Area Networks--Bridges and Bridged Networks

Amendment: YANG Data Models for the Credit-Based Shaper

Recommendation: Approve new PAR until December 2027

P802.15.4ac

Standard for Low-Rate Wireless Networks

Amendment: Privacy Enhancements

Recommendation: Approve new PAR until December 2027

IEEE Computer Society/Standards Activities Board

P3195.1.2

Standard for Person Ontology

Recommendation: Approve new PAR until December 2027

IEEE Industry Applications Society/Metal Industry Committee Standards Development Subcommittee

P3372

Guide for the Functional Specification of AC Guide for Arc Furnace Transformers: 10 MVA to 200 MVA, High Voltage 69 kV ac and below, Low Voltage 1250 V ac and below

Recommendation: Approve new PAR until December 2027 (10 approve, 0 disapprove, 1 abstain)

IEEE Industry Applications Society/Petroleum & Chemical Industry

P80005-4

Utility Connections in Port – Part 4: DC shore connection (DCSC) systems – General requirements

Recommendation: Approve new PAR until December 2027

IEEE Industry Applications Society/Pulp and Paper Industry Subcommittee

P3371

Recommended practice for Coordinated Drive Systems for Electrical AC Motors Operating on Three Phase, 50 Hz or 60 Hz, 1000 V and Below for Pulp and Paper Industry Installations

Recommendation: Approve new PAR until December 2027

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

PN42.323AB

Radiation Protection Instrumentation Test and Calibration, Portable Survey Instruments

Recommendation: Conditionally approve new PAR until December 2027 contingent upon changing 'should be' to 'are' in the last sentence of the scope

Note: The condition has been met.

IEEE Power and Energy Society/Insulated Conductors

P3174

Guide for Dynamic Rating of Underground Cable Systems

Recommendation: Approve new PAR until December 2027

IEEE Power and Energy Society/Surge Protective Devices Committee

P3369

Standard for Testing of Lightning-protective Insulator of Overhead Transmission Lines

Recommendation: Approve new PAR until December 2027

IEEE Power and Energy Society/Transformers

PC57.145

Guide for Digital Twin Modeling and Analysis of Power Transformers with High Voltages 69 kV up to 161 kV

Recommendation: Approve new PAR until December 2027

IEEE SA Board of Governors/Corporate Advisory Group

P3304

Adoption of Moving Picture, Audio and Data Coding by Artificial Intelligence (MPAI) Technical Specification Neural Network Watermarking (NNW) Version 1.0

Recommendation: Approve new PAR until December 2027

P3365

Guide for Test and Evaluation of on-board Lithium-based Batteries for Electric Vehicle (EV) Propulsion

Recommendation: Approve new PAR until December 2027

IEEE SA Board of Governors/Distributed Generation, Energy Storage and Interoperability Standards Committee

P1547.1a

Standard Conformance Test Procedures for Equipment Interconnecting Distributed Energy Resources with Electric Power Systems and Associated Interfaces
Amendment 1

Recommendation: Approve new PAR until December 2027

IEEE Signal Processing Society/Synthetic Aperture Standards Committee

P3370

Standard for Performance Metrics of Collocated Multiple-Input Multiple-Output (MIMO) Synthetic Aperture Radar (SAR)

Recommendation: Approve new PAR until December 2027

4.4 PARs for the Revision of Standards

IEEE Computer Society/LAN/MAN Standards Committee

P802.1AS

Standard for Local and Metropolitan Area Networks--Timing and Synchronization for Time-Sensitive Applications

Recommendation: Approve PAR for the revision of a standard until December 2027

P802.1Q

Standard for Local and Metropolitan Area Networks--Bridges and Bridged Networks

Recommendation: Approve PAR for the revision of a standard until December 2027

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

P1361

Guide for Selecting and Evaluating Batteries Used in Stand-Alone Photovoltaic (PV) Systems

Recommendation: Approve PAR for the revision of a standard until December 2027

IEEE Power and Energy Society/Switchgear

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 PAR for the revision of a standard until December 2027

IEEE Power and Energy Society/Transformers

PC57.17

Standard Requirements for Arc Furnace Transformers

Recommendation: Approve PAR for the revision of a standard until December 2027

PC57.156

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

Recommendation: Approve PAR for the revision of a standard until December 2027

PC57.157

Guide for Conducting Functional Life Tests on Switch Contacts Used in Insulating Liquid--Immersed Transformers

Recommendation: Approve PAR for the revision of a standard until December 2027

IEEE Power and Energy Society/Transmission and Distribution

P2819

Recommended Practice for Measuring Electromagnetic Fields from Overhead Power Transmission Lines in Shared AC and DC Corridors

Recommendation: Approve PAR for the revision of a standard until December 2027

IEEE SA Board of Governors/Distributed Generation, Energy Storage and Interoperability Standards Committee

P1547.4

Guide for Design, Operation, Integration and Interoperability of Intentional Electric Power Systems Islands

Recommendation: Approve PAR for the revision of a standard until December 2027

Following the discussions about the PARs on the agenda, Chair Wang thanked the Working Group Chairs and the NesCom members for the good discussions, and she thanked staff for all of their efforts.

5 OLD BUSINESS

During the March NesCom meeting there was a discussion about a potential enhancement within myProject to enable NesCom members to 'follow' discussions about specific PARs (only during the Open Review period). Staff brought this up to the myProject team, and it is in the myProject queue for review.

There was another discussion during the March NesCom meeting about the terminology used in a PAR referring to the type of document (Standard, Recommended Practice, or Guide). There was agreement that the terminology should be consistent with section 1.2 'Type of Document' on the PAR. A follow-up recommendation was to include this in the NesCom Conventions as part of Convention number 4 'Clarity in PAR Content and Title':

A motion was made to introduce the following text at the end of '4 Clarity in PAR Content and Title' in New Standards Committee (NESCOM) Conventions:

4a. The terminology used in the PAR referring to the document to be developed shall be consistent with Section 1.2 Type of Document in the PAR, i.e., standard, recommended practice, or guide. In the absence of objection, the motion was approved.

AI: Staff will update the NesCom Conventions with this additional text in Convention number 4.

Another follow up discussion from the March NesCom meeting was about providing the information about which organization's style guide would be used for proposed joint development projects. This information is not currently provided on a PAR when the answer to question 7.2 'Is it the intent to develop this document jointly with another organization?' is 'yes'. A recommendation was made to add a new NesCom Convention (number 19) clarifying that if the answer to section 7.2 on the PAR is 'yes', the information about which style guide is being used should be added to section 8.1 'Additional Explanatory Notes' on the PAR. There was no consensus reached, and the discussion will continue at the June NesCom meeting.

6 NEW BUSINESS

There was no new business.

7 DATE OF NEXT MEETING

The next meeting of NesCom will take place on 28 June 2023 in Brussels, Belgium (hybrid). Chair Wang mentioned that she hopes to see everyone in person.

8 ADJOURNMENT

Chair Wang thanked the NesCom members again for all their work. She also reminded the members of the need to close out comments prior to the meetings. It was noted that Lisa Weisser is moving to MGA, and there was positive recognition for her efforts in support of NesCom. Dave Ringle mentioned that during the transition period he will support NesCom.

There being no further business, the meeting was adjourned at 12:26 p.m. ET (UTC-4).