

IEEE SA Standards Board New Standards Committee (NesCom)

Meeting Minutes

07 December 2021

8:30 a.m. - 11:30 a.m. ET (UTC-5)

Teleconference

Members Present:

Doug Edwards

Ramy A. Fathy, Vice Chair

Guido Hiertz

Wei Hong

Daleep Mohla

Annette Reilly

Dorothy Stanley, Chair

Mehmet Ulema

Lei Wang

Karl Weber

Sha Wei, Vice Chair

Don Wright

Daidi Zhong

Members Absent:

Chenhui Niu

Guests:

Tarek Al-Sitt

Alison Aquilina

Jyotika Athavale

Edward Au

Allen Chen

Jennyffer Cisneros

Eve Gadzikwa

Latonia Gordon

Gary Hoffman

Victor Huang

Tyler Jaynes

Yixiong Kok

Dominik Krantz

John Kulick

Kevin Lu

Carol McDonald

Avygdor Moise

Paul Nikolich

Glenn Parsons

Robby Robson

Bright Tango
Mark Tostrud
Claire Topp [legal counsel]
Constance Weise

IEEE Staff:

Christy Bahn
Kim Breitfelder
Matt Ceglia
Sri Chandrasekaran
Jonathan Goldberg
Jodi Haasz
Yvette Ho Sang
Soo Kim
Michael Kipness
Vanessa Lalitte
Kristin Little
Jiajia Liu
Kelly Lorne
Karen McCabe
Erin Morales
Ashley Moran
Adam Newman
Dan Perez
Dave Ringle
Pat Roder
Jennifer Santulli
Rosalinda Saravia
Rudi Schubert
Tom Thompson
Lisa Weisser, Administrator
Malia Zaman

[Unless otherwise noted, all votes are unanimous]

1 CALL TO ORDER AND INTRODUCTIONS

Chair Stanley called the meeting to order at 8:32 a.m. ET (UTC-5). She welcomed everyone, and gave a special welcome to the IEEE Standards Fellowship Program participants. 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 to the agenda. There were none.

A motion was made (Wright) and seconded (Wei) to approve the 07 December 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 Industry Applications Society/Industrial & Commercial Power Systems Standards Development Committee

P3007.1

Recommended Practice for the Operation and Management of Industrial and Commercial Power Systems

Recommendation: Approve PAR withdrawal

P3007.3

Recommended Practice for Electrical Safety in Industrial and Commercial Power Systems

Recommendation: Approve PAR withdrawal

IEEE Instrumentation and Measurement Society/TC4 - High Frequency Measurement

P287

Standard for Precision Coaxial Connectors (DC-110 GHz)

Recommendation: Approve PAR withdrawal

2.1.2 PARs for Administrative Withdrawal

Note: The approval of this list of expired PARs to be administratively withdrawn was included in the approval of the agenda and consent agenda. The following PARs have been administratively withdrawn:

P2048.6 (CTSoc/VRARSC)

Standard for Virtual Reality and Augmented Reality: Immersive User Interface
(New PAR)

P2048.7 (CTSoc/VRARSC)

Standard for Virtual Reality and Augmented Reality: Map for Virtual Objects in the Real World
(New PAR)

P2048.8 (CTSoc/VRARSC)

Standard for Virtual Reality and Augmented Reality: Interoperability between Virtual Objects and the Real World
(New PAR)

P2048.9 (CTSoc/VRARSC)

Standard for Virtual Reality and Augmented Reality: Immersive Audio Taxonomy and Quality Metrics
(New PAR)

P2048.10 (CTSoc/VRARSC)

Standard for Virtual Reality and Augmented Reality: Immersive Audio File and Stream Formats
(New PAR)

P2048.11 (CTSoc/VRARSC)

Standard for Virtual Reality and Augmented Reality: In-Vehicle Augmented Reality
(New PAR)

P2048.12 (CTSoc/VRARSC)

Standard for Virtual Reality and Augmented Reality: Content Ratings and Descriptors

(New PAR)

P3333.2.5 (EMB/Std Com)

Standard for Bio-CAD File Format for Medical Three-Dimensional (3D) Printing

(New PAR)

P1814 (IAS/PCI)

Recommended Practice for Electrical System Design Techniques to Improve Electrical Safety

(New PAR)

P1375 (PE/ESSB)

Guide for the Protection of Stationary Battery Systems

(Revision PAR)

P2776 (PE/IC)

Guide for Specifying and Selecting Cables for Nuclear Facilities

(New PAR)

P837-2014/Cor 1 (PE/SUB)

Standard for Qualifying Permanent Connections Used in Substation Grounding - Corrigendum 1: Correct EMF Current Value for 5/8 Ground Rod

(New PAR)

P947 (SASB/SCC14)

Guide for Identification of Alternative Metric Devices for Valves, Fittings, Threads, Flanges

(New PAR)

P2510 (SEN/SC)

Standard for Establishing Quality of Data Sensor Parameters in the Internet of Things Environment

(New PAR)

P1883 (VT/RTSC)

Recommended Practice for Electrical and Electro-Mechanical Bench Test Equipment (BTE) for Transit Rail Projects

(New PAR)

P1884 (VT/RTSC)

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

(New PAR)

2.1.3 Standards Committee Transfer Request for Four PARs to Move from C/SAB to C/OGSC

Note: The approval of this Standards Committee change request was included in the approval of the agenda and consent agenda. The following four PARs have been moved from C/SAB to C/OGSC:

P2946 'Guide for Electronic Sports (Esports) Integrity'

P2947 'Guide for Broadcasting Electronic Sports (Esports) Events'

P2948 'Standard for Framework and Definitions for Cloud Gaming'

P2949 'Recommended Practice for the Evaluation of Cloud Gaming User Experiences'

3 Approval of Minutes from the 22 September 2021 NesCom Meeting

A motion was made (Mohla) and seconded (Hong) to approve the minutes of the 22 September 2021 NesCom meeting. In the absence of objection, the motion was approved.

4 PARS FOR DISCUSSION

For the benefit of the IEEE Standards Fellowship Program participants, Chair Stanley described the NesCom process of reviewing the PARs prior to the meeting and providing feedback to the Working Group Chairs to update and enhance the PARs.

4.1 Modified PARs

IEEE Computer Society/Functional Safety Standards Committee

P2851

Standard for Functional Safety Data Format for Interoperability within the Dependability Lifecycle

Recommendation: Approve modified PAR until December 2023

IEEE Computer Society/Software & Systems Engineering Standards Committee

P29119-1

ISO/IEC/IEEE International Standard - Software and Systems Engineering - Software Testing - Part 1: General concepts

Recommendation: Approve modified PAR until December 2023

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

P11073-10725

Health Informatics - Device Interoperability - Part 10725: Point-of-Care Medical Device Communication - Device Specialization - Suction and Irrigation Pump

Recommendation: Approve modified PAR until December 2023

IEEE Power and Energy Society/Insulated Conductors

P1202

Standard for Testing Flame-Propagation and Smoke Generation of Cables

Recommendation: Approve modified PAR until December 2022

P2417

Guide for Early Detection, Mitigation, Preventative Measures, and Response to Smoke, Fire, and Explosions in Underground Electrical Structures

Recommendation: Approve modified PAR until December 2022

IEEE Power and Energy Society/Power System Relaying and Control

PC37.249

Guide for Categorizing Security Needs for Protection, Automation, and Control Related Data Files

Recommendation: Approve modified PAR until December 2021

4.2 Extension Requests

IEEE Aerospace and Electronic Systems Society/Gyro Accelerometer Panel

P1780

Standard for the Specification of Inertial Measurement Units (IMU)

Recommendation: Approve request for an extension until December 2022

IEEE Communications Society/Mobile Communication Networks Standards Committee

P1932.1

Standard for Licensed/Unlicensed Spectrum Interoperability in Wireless Mobile Networks

Recommendation: Approve request for an extension until December 2023

IEEE Communications Society/Virtualized and Software Defined Networks, and Services Standards Committee

P2784

Guide for the Technology and Process Framework for Planning a Smart City

Recommendation: Approve request for an extension until December 2024

IEEE Computer Society/Cloud Computing Standards Committee

P2302

Standard for Intercloud Interoperability and Federation (SIIF)

Recommendation: Approve request for an extension until December 2022

IEEE Computer Society/LAN/MAN Standards Committee

P802.1ABcu

Standard for Local and Metropolitan Area Networks - Station and Media Access Control Connectivity Discovery
Amendment: YANG Data Model

Recommendation: Approve request for an extension until December 2022

P802.1ACct

Standard for Local and Metropolitan Area Networks - Media Access Control (MAC) Service Definition
Amendment Support for IEEE Std 802.15.3

Recommendation: Approve request for an extension until December 2022

IEEE Computer Society/Standards Activities Board

P3333.1.3

Standard for the Deep Learning-Based Assessment of Visual Experience Based on Human Factors

Recommendation: Approve request for an extension until December 2022

P7130

Standard for Quantum Technologies Definitions

Recommendation: Approve request for an extension until December 2023

IEEE Consumer Technology Society/Standards Committee

P3141

Trial-Use Standard for 3D Body Processing

Recommendation: Approve request for an extension until December 2024

IEEE Electromagnetic Compatibility Society/Standards Development Committee

P2717

Passive Intermodulation Test Methods for Wireless Systems in Low Noise Environments

Recommendation: Approve request for an extension until December 2023

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

P11073-10101b

Health informatics - Device Interoperability - Part 10101: Foundational - Nomenclature - Amendment 2: Additional definitions

Recommendation: Approve request for an extension until December 2022

IEEE Engineering in Medicine and Biology Society/Standards Committee

P2650

Standard for Enabling Mobile Device Platforms to be Used as Pre-Screening Audiometric Systems

Recommendation: Approve request for an extension until December 2024

P3333.2.5

Standard for Bio-CAD File Format for Medical Three-Dimensional (3D) Printing

Recommendation: Disapprove request for an extension (4 approve, 3 disapprove [Mohla, Ulema, Weber], 5 abstain [Hiertz, Hong, Wang, Wei, Zhong])

IEEE Industrial Electronics Society/Industrial Electronics Society Standards Committee

P21451-002

Recommended Practice for Low-Power Smart Transducers Applications

Recommendation: Approve request for an extension until December 2024

IEEE Instrumentation and Measurement Society/TC39 - Measurements in Power Systems

P61869-105

Recommended Practice for Uncertainty Evaluation in the Calibration of Instrument Transformers

Recommendation: Approve request for an extension until December 2022

IEEE Power and Energy Society/Electric Machinery

P62.2

Guide for Diagnostic Field Testing of Electric Power Apparatus - Electrical Machinery

Recommendation: Approve request for an extension until December 2024

P97

Diagnostic Test Methods for Testing the Insulation of AC Electric Machinery Using Direct Voltage

Recommendation: Approve request for an extension until December 2024

P433

Recommended Practice for Insulation Testing of AC Electric Machinery with High Voltage Rating up to 30 kV at Very Low Frequency

Recommendation: Approve request for an extension until December 2022

P1553

Standard for Voltage Endurance Testing of Form-Wound Coils and Bars for Hydrogenerators

Recommendation: Approve request for an extension until December 2022

P1776

Recommended Practice for Thermal Evaluation of Unsealed or Sealed Insulation Systems for AC Electric Machinery Employing Form-Wound Pre-Insulated Stator Coils for Machines Rated 15 000 V and Below

Recommendation: Approve request for an extension until December 2023

IEEE Power and Energy Society/Energy Development & Power Generation

P63198-2775

Technical Guide for Smart Hydroelectric Power Plant

Recommendation: Approve request for an extension until December 2023

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

P1184

Guide for Batteries for Uninterruptible Power Supply Systems

Recommendation: Approve request for an extension until December 2022

P2685

Recommended Practice for Energy Storage for Stationary Engine-Starting Systems

Recommendation: Approve request for an extension until December 2023

IEEE Power and Energy Society/Insulated Conductors

P400.3

Guide for Partial Discharge Field Diagnostic Testing of Shielded Power Cable Systems

Recommendation: Approve request for an extension until December 2022

P634

Standard for Cable-Penetration Fire Stop Qualification Test

Recommendation: Approve request for an extension until December 2023

P1614

Field-Testing of Shielded Power Cable Systems Rated 5 kV and Above with Continuous Alternating Voltage

Recommendation: Approve request for an extension until December 2023

P1617

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

Recommendation: Approve request for an extension until December 2022

IEEE Power and Energy Society/Power System Communications and Cybersecurity

P1595

Standard for Testing and Performance for Optical Phase Conductor (OPPC) for Use on Electrical Utility Power Lines

Recommendation: Approve request for an extension until December 2022

P1711.1

Standard for a Cryptographic Protocol for Cyber Security of Substation Serial Links: Substation Serial Protection Protocol

Recommendation: Approve request for an extension until December 2023

IEEE Power and Energy Society/Power System Relaying and Control**C37.235**

Guide for the Application of Rogowski Coils Used for Protective Relaying Purposes

Recommendation: Approve request for an extension until December 2022

P1646

Standard Communication Delivery Time Performance Requirements for Electric Power Substation Automation

Recommendation: Approve request for an extension until December 2023

PC37.90.2

Standard for Relays, Relay Systems, and Control Devices Used for Protection and Control of Electric Power Apparatus – Radiated Electromagnetic Interference Withstand Capability Requirements and Tests

Recommendation: Approve request for an extension until December 2023

PC37.110

Guide for the Application of Current Transformers Used for Protective Relaying Purposes

Recommendation: Approve request for an extension until December 2023

PC37.249

Guide for Categorizing Security Needs for Protection and Automation Related Data Files

Recommendation: Approve request for an extension until December 2022

IEEE Power and Energy Society/Substations**P80**

Guide for Safety in AC Substation Grounding

Recommendation: Approve request for an extension until December 2023

P81

Guide for Measuring Earth Resistivity, Ground Impedance, and Earth Surface Potentials of a Grounding System

Recommendation: Approve request for an extension until December 2023

P980

Guide for Containment and Control of Oil Spills in Substations

Recommendation: Approve request for an extension until December 2022

P1127

Guide for the Design, Construction, and Operation of Electric Power Substations for Community Acceptance and Environmental Compatibility

Recommendation: Approve request for an extension until December 2023

IEEE Power and Energy Society/Surge Protective Devices/High Voltage**PC62.82.2**

Guide for the Application of Insulation Coordination

Recommendation: Approve request for an extension until December 2022

IEEE Power and Energy Society/Surge Protective Devices/Low Voltage**PC62.230**

Guide for Surge Protection of Electric Vehicle Infrastructure

Recommendation: Approve request for an extension until December 2022

IEEE Power and Energy Society/Transformers

P63253-5713-8

Standard Requirements for Station Service Voltage Transformers

Recommendation: Approve request for an extension until December 2023

PC57.12.80

Standard Terminology for Power and Distribution Transformers

Recommendation: Approve request for an extension until December 2023

PC57.13.2

Standard for Conformance Test Procedure for Instrument Transformers

Recommendation: Approve request for an extension until December 2023

PC57.124

Recommended Practice for the Detection of Partial Discharge and the Measurement of Apparent Charge in Dry-Type Transformers

Recommendation: Approve request for an extension until December 2023

PC57.150

Guide for the Transportation of Transformers and Reactors Rated 10,000 kVA or Higher

Recommendation: Approve request for an extension until December 2023

PC57.165

Guide for Temperature Measurements for Liquid Immersed Transformers and Reactors

Recommendation: Approve request for an extension until December 2023

IEEE Power and Energy Society/Transmission and Distribution

P1368

Guide for Aeolian Vibration Field Measurements of Overhead Conductors

Recommendation: Approve request for an extension until December 2023

P1453

Standard for Measurement and Limits of Voltage Fluctuations and Associated Light Flicker on AC Power Systems

Recommendation: Approve request for an extension until December 2022

IEEE Robotics and Automation Society/Standing Committee for Standards

P7008

Standard for Ethically Driven Nudging for Robotic, Intelligent and Autonomous Systems

Recommendation: Approve request for an extension until December 2023

IEEE Society on Social Implications of Technology/Social Implications of Technology Standards Committee

P7011

Standard for the Process of Identifying and Rating the Trustworthiness of News Sources

Recommendation: Approve request for an extension until December 2023

IEEE-SASB Coordinating Committees/SCC31 - Automatic Meter Reading and Energy Management**P1704**

Standard for Utility Industry End Device Communications Module

Recommendation: Approve request for an extension until December 2022

IEEE-SASB Coordinating Committees/SCC39 - International Committee on Electromagnetic Safety**P63195-1**

Measurement Procedure for the Assessment of Power Density of Human Exposure to Radio Frequency Fields from Wireless Devices Operating in Close Proximity to the Head and Body - Frequency Range of 6 GHz to 300 GHz

Recommendation: Approve request for an extension until December 2022

P63195-2

The Assessment of Power Density of Human Exposure to Radio Frequency Fields from Wireless Devices in Close Proximity to the Head and Body, Part 2: Computational procedure (frequency range of 6 GHz to 300 GHz)

Recommendation: Approve request for an extension until December 2022

4.3 New PARs**IEEE Computer Society/Cybersecurity and Privacy Standards Committee****P3117**

Standard for Interworking Framework for Privacy-Preserving Computation

Recommendation: Approve new PAR until December 2025

IEEE Computer Society/LAN/MAN Standards Committee**P802.3df**

Standard for Ethernet

Amendment: Media Access Control Parameters, Physical Layers and Management Parameters for 200 Gb/s, 400 Gb/s, 800 Gb/s, and 1.6 Tb/s Operation

Recommendation: Approve new PAR until December 2025

IEEE Computer Society/Software & Systems Engineering Standards Committee**P3131**

Recommended Practice for Data Engineering with Heterogeneous Ecosystems and Data Sources for Efficient Data Processing, Management, and Consumption

Recommendation: Approve new PAR until December 2025

IEEE Computer Society/Standards Activities Board**P2888.5**

Standard for Virtual Training System Evaluation Methods

Recommendation: Approve new PAR until December 2025

P2888.6

Standard for Holographic Visualization for Interfacing Cyber and Physical Worlds

Recommendation: Approve new PAR until December 2025

P3079.3

Standard for a Framework for Evaluating the Quality of Digital Humans

Recommendation: Approve new PAR until December 2025

IEEE Engineering in Medicine and Biology Society/Standards Committee

P3135

Standard for Specifying Requirements for Neurofeedback Systems Design

Recommendation: Approve new PAR until December 2025

IEEE Industrial Electronics Society/Industrial Electronics Society Standards Committee

P3137

Standard for Automotive Electronics Product Inspection Equipment

Recommendation: Approve new PAR until December 2025

P3138

Standard for General Requirements of Chip Visual Inspection in Surface Mount Industry

Recommendation: Approve new PAR until December 2025

IEEE Microwave Theory and Techniques Society/Standards Coordinating Committee

P3136

Standard for a Universal Waveguide Interface for Frequencies of 60 GHz and Above

Recommendation: Approve new PAR until December 2025

IEEE Photonics Society/Standards Committee

P3112

Standard for Electronic Photonic Design Automation – Open Data Formats – Terminology and Definitions

Recommendation: Approve new PAR until December 2025

IEEE Power and Energy Society/Substations

PC37.431.40

Standard for Functional Specifications of Medium (1 kV to 69 kV) Voltage Series and Shunt Electronic Devices for Dynamic Voltage Compensation

Recommendation: Approve new PAR until December 2025

IEEE Power and Energy Society/Switchgear

PC37.04a

Standard for Ratings and Requirements for AC High-Voltage Circuit Breakers with Rated Maximum Voltage Above 1000 V

Amendment: Changes to construction requirements and clarification of certain related required capabilities

Recommendation: Approve new PAR until December 2025

PC37.09a

Standard Test Procedures for AC High-Voltage Circuit Breakers with Rated Maximum Voltage Above 1000 V

Amendment: Modifications to test procedures

Recommendation: Approve new PAR until December 2025

IEEE Power and Energy Society/Transmission and Distribution

P3139

Guide for Power Quality Data Analytics

Recommendation: Approve new PAR until December 2025

IEEE Society on Social Implications of Technology/Social Implications of Technology Standards Committee

P7030

Recommended Practice for Ethical Assessment of Extended Reality (XR) Technologies

Recommendation: Approve new PAR until December 2025

4.4 PARs for the Revision of Standards

IEEE Computer Society/Design Automation

P1076

Standard for VHDL Language Reference Manual

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

IEEE Computer Society/LAN/MAN Standards Committee

P802.15.3

Standard for Wireless Multi-Media Networks

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

IEEE Power and Energy Society/Power System Communications and Cybersecurity

P367

Recommended Practice for Determining the Electric Power Station Ground Potential Rise and Induced Voltage from a Power Fault

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

IEEE Power and Energy Society/Power System Relaying and Control

PC37.96

Guide for AC Motor Protection

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

PC37.232

Standard for Common Format for Naming Time Sequence Data Files (COMNAME)

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

PC37.243

Guide for Application of Line Current Differential Protection Using Digital Communications

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

IEEE Power and Energy Society/Switchgear

P62271-37-082

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

Recommendation: Approve PAR for the revision of a standard until December 2025 (11 approve, 0 disapprove, 1 abstain [Edwards])

PC37.20.10

Standard Definitions for AC (52 kV and below) and DC (3.2 kV and below) Switchgear Assemblies

Recommendation: Approve PAR for the revision of a standard until December 2025 (11 approve, 0 disapprove, 1 abstain [Edwards])

PC37.010

Application Guide for AC High-Voltage Circuit Breakers > 1000 Vac Rated on a Symmetrical Current Basis

Recommendation: Approve PAR for the revision of a standard until December 2025 (11 approve, 0 disapprove, 1 abstain [Edwards])

PC37.016

Standard for AC High Voltage Circuit Switchers Rated 15.5 kV through 245 kV

Recommendation: Approve PAR for the revision of a standard until December 2025 (11 approve, 0 disapprove, 1 abstain [Edwards])

5 OLD BUSINESS

5.1 Committee Member Interactions/Comments Re: myProject

Adam Newman provided a myProject update on behalf of the myProject team, which was well received. Several NesCom members, in addition to Chair Stanley thanked Adam and the myProject team for their efforts. Adam gave credit to the myProject team and to NesCom.

There were some requests discussed that will be brought to the myProject team, including:

- The ability to review the original PARs that were submitted before they were potentially edited through the NesCom review process.
- The ability for sharing NesCom submissions within Standards Committees or Societies when potential Co-Standards Committees are being considered.

AI: Staff will bring these topics to the myProject team.

Note: The topic of the ability to review the original submitted PARs was discussed during a subsequent myProject team meeting, and a potential solution was discussed to include a submitted PARs file with the agenda zip file, so it is accessible for NesCom members, if needed. This topic was discussed previously, and the current solution is that the submitted PARs file is sent by the NesCom Administrator.

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

There was no new business.

7 DATE OF NEXT MEETING

The next meeting of NesCom will take place on 07 February 2022 by teleconference.

8 ADJOURNMENT

Chair Stanley reminded the NesCom members that the 2021 NesCom will conduct the reviews for the February 2022 NesCom meeting. She wished everyone a happy holiday season, and thanked the NesCom members for their review and discussion of the PARs. She also thanked staff, and especially Lisa Weisser for her work behind the scenes. Chair Stanley thanked the Standards Committee and Working Group representatives and wished them luck as they begin their work developing the standards. There being no further business, the meeting was adjourned at 10:04 a.m. ET (UTC-5).