

IEEE SA Standards Board New Standards Committee (NesCom)

Meeting Minutes

19 September 2022

8:00 a.m. - 9:30 a.m. ET (UTC-4)

Teleconference

Members Present:

Xiaofeng (Alfred) Chen

Doug Edwards

Ramy A. Fathy, Vice Chair

Guido Hiertz

Wei Hong

Yousef Kimiagar

Howard Li [part time]

Johnny Lin

Gui Liu

Annette Reilly

Dorothy Stanley, Chair

Lei Wang

Karl Weber

Sha Wei, Vice Chair

Don Wright

Daidi Zhong

Members Absent:

Daleep Mohla

Mehmet Ulema

Guests:

Jonathan Attia

Xinbei Bai

Abdeslam Bouhouia

Gilles Ceyssat

Latonia Gordon

Gary Hoffman

Wen Ji

George Kasangaki

John Kulick

David Law

Xiaohui Liu

Kevin Lu

Xiaoxu Luan

Jim Matthews

Susan Nakanwagi

Glenn Parsons

Robby Robson
Claire Topp [legal counsel]
Zhengyuan Zhu

IEEE Staff:

Christy Bahn
Adrien Bastos
Kim Breitfelder
Matt Ceglia
Ravindra Desai
Karen Evangelista
Jonathan Goldberg
Jodi Haasz
Yvette Ho Sang
Ron Hotchkiss
Michael Kipness
Vanessa Lalitte
Jiajia Liu
Kelly Lorne
Gregory Marchini
Suzanne Merten
Erin Morales
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 Stanley welcomed everyone and called the meeting to order at 8:01 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 to the agenda. There were no changes.

A motion was made (Kimiagar) and seconded (Edwards) to approve the 19 September 2022 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 Computer Society/Standards Activities Board

P2963

Standard for Data Formats for Smart Legal Contracts

Recommendation: Approve PAR withdrawal

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

PC62.44a

Guide for the Application of Low-Voltage (1000 V rms or Less) Surge Protective Devices Used on Secondary Distribution Systems (Between the Transformer Low-Voltage Terminals and the Line Side of the Service Equipment)

Amendment 1 - Annex D

Recommendation: Approve PAR withdrawal

2.1.2 Standards Committee Transfer Request for Six PARs and Three Standards from COM/AccessCore-SC to COM/AerCom-SC

Note: The approval of this Standards Committee change request was included in the approval of the agenda and consent agenda and the following six PARs and three standards have been moved from COM/AccessCore-SC to COM/AerCom-SC:

P1936.2 'Photogrammetric Technical Standard of Civil Light and Small Unmanned Aircraft Systems for Overhead Transmission Line Engineering'

P1937.3 'Protocol for the Flight Data Transmission of Civil Unmanned Aerial Vehicle Based on BeiDou Short Message'

P1937.6 'Standard for Unmanned Aerial Vehicle (UAV) Light Detection and Ranging (LiDAR) Remote Sensing Operation'

P1937.7 'Standard for the Unmanned Aerial Vehicle (UAV) Polarimetric Remote Sensing Method for Earth Observation Applications'

P1937.8 'Standard for Functional and Interface Requirements for Unmanned Aerial Vehicle (UAV) Cellular Communication Terminals'

P1937.9 'Requirements for External Power and Power Management Interfaces for Unmanned Aerial Vehicle'

1936.1 'Standard for Drone Applications Framework'

1937.1 'Standard Interface Requirements and Performance Characteristics for Payload Devices in Drones'

1939.1 'Standard for a Framework for Structuring Low Altitude Airspace for Unmanned Aerial Vehicle (UAV) Operations'

2.1.3 Standards Committee Transfer Request for Nine Standards from SASB/SCC21 to PE/ESSB

Note: The approval of this Standards Committee change request was included in the approval of the agenda and consent agenda and the following seven standards have been moved from SASB/SCC21 to PE/ESSB:

937 'Recommended Practice for Installation and Maintenance of Lead-Acid Batteries for Photovoltaic (PV) Systems'

1013 'Recommended Practice for Sizing Lead-Acid Batteries for Stand-Alone Photovoltaic (PV) Systems'

1361 'Guide for Selection, Charging, Test and Evaluation of Lead-Acid Batteries Used in Stand-Alone Photovoltaic (PV) Systems'

1526 'Recommended Practice for Testing the Performance of Stand-Alone Photovoltaic Systems'

1561 'Guide for Optimizing the Performance and Life of Lead-Acid Batteries in Remote Hybrid Power Systems'

1562 'Recommended Practice for Sizing of Stand-Alone Photovoltaic (PV) Systems'

1661 'Guide for Test and Evaluation of Lead-Acid Batteries Used in Photovoltaic (PV) Hybrid Power Systems'

The following two standards will be moved to PE/ESSB when PE/ESSB is ready to form Working Groups to develop revision standards:

1144 'Recommended Practice for Sizing Nickel-Cadmium Batteries for Photovoltaic (PV) Systems'

1145 'Recommended Practice for the Installation and Maintenance of Nickel-Cadmium Batteries for Photovoltaic (PV) Systems'

2.1.4 Standards Committee Transfer Request for Four Standards 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 and the following four standards have been moved from VT/RTSC to VT/CBTC&SIG:

1475 'Standard for the Functioning of and Interfaces Among Propulsion, Friction Brake, and Train-borne Master Control on Rail Rapid Transit Vehicles'

1483 'Standard for Verification of Vital Functions in Processor-Based Systems Used in Rail Transit Control'

1570 'Standard for the Interface Between the Rail Subsystem and the Highway Subsystem at a Highway Rail Intersection'

1698 'Guide for the Calculation of Braking Distances for Rail Transit Vehicles'

2.1.5 Standards Committee Transfer Request for Three PARs and Five Standards from VT/RTSC to VT/OCS

Note: The approval of this Standards Committee change request was included in the approval of the agenda and consent agenda and the following three PARs and five standards have been moved from VT/RTSC to VT/OCS:

P1628 'Recommended Practice for Maintenance of Direct Current (DC) Overhead Contact Systems for Transit Systems'

P1833 'Guidelines for the Design of Direct Current Overhead Contact Systems for Transit Systems'

P2406 'Standard for Design and Construction of Non-Load Break Disconnect Switches for Direct Current Applications on Transit Systems'

1627 'Standard for Transient Overvoltage Protection of DC Electrification Systems by Application of DC Surge Arresters'

1629 'Standard for Performance of DC Overhead Current Collectors for Rail Transit Vehicles'

1630 'Standard for Supporting Structures for Overhead Contact Systems for Transit Systems'

1791 'Recommended Practice for Terminology Used for Direct Current Electric Transit Overhead Contact Systems'

1896 'Standard for Identification of Contact Wire Used in Overhead Contact Systems'

3 APPROVAL OF MINUTES FROM THE 27 APRIL AND 15 JUNE 2022 NESCOM MEETINGS

A motion was made (Weber) and seconded (Wang) to approve the minutes of the 27 April 2022 NesCom meeting. In the absence of objection, the motion was approved.

A motion was made (Weber) and seconded (Wright) to approve the minutes of the 15 June 2022 NesCom meeting. In the absence of objection, the motion was approved.

4 PARS FOR DISCUSSION

4.1 Modified PARs

IEEE Computer Society/Design Automation

P3164

Standard for Security Annotation for Electronic Design Integration

Recommendation: Approve modified PAR

IEEE Computer Society/LAN/MAN Standards Committee

P60802

Time-Sensitive Networking Profile for Industrial Automation

Recommendation: Approve modified PAR

IEEE Instrumentation and Measurement Society/TC9 - Sensor Technology

P1451.0

Standard for a Smart Transducer Interface for Sensors, Actuators, Devices, and Systems - Common Functions, Communication Protocols, and Transducer Electronic Data Sheet (TEDS) Formats

Recommendation: Approve modified PAR

P1451.4

Standard for A Smart Transducer Interface for Sensors and Actuators--Mixed-Mode Communication Protocols and Transducer Electronic Data Sheet (TEDS) Formats

Recommendation: Approve modified PAR

IEEE Power and Energy Society/Insulated Conductors

P1202

Standard for Flame-Propagation Testing of Wire and Cable

Recommendation: Approve modified PAR

IEEE Power and Energy Society/Transmission and Distribution

P2845

Trial Use Standard for Testing and Evaluating the Dielectric Performance of Celebratory Balloons in Contact with Overhead Power Distribution Lines Rated up to 38 kV System Voltage

Recommendation: Approve modified PAR

IEEE SA Board of Governors/Corporate Advisory Group

P3300

Adoption of Moving Picture, Audio and Data Coding by Artificial Intelligence (MPAI) Technical Specification Multimodal Conversation Version 1.2

Recommendation: Approve modified PAR

P3302

Adoption of Moving Picture, Audio and Data Coding by Artificial Intelligence (MPAI) Technical Specification Context-based Audio Enhancement (CAE) Version 1.4

Recommendation: Approve modified PAR

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

P2030.10.1

Standard for Electricity Access Requirements with Safety Extra Low Voltage (SELV) DC for Tier II and Tier III of Energy Sector Management Assistance Program (ESMAP) Multi-tier Framework for Household Electricity Supply

Recommendation: Approve modified PAR

4.2 Extension Requests

IEEE Computer Society/Design Automation

P1666

Standard for Standard SystemC Language Reference Manual

Recommendation: Approve request for an extension until December 2023

P1735

Recommended Practice for Encryption and Management of Electronic Design Intellectual Property (IP)

Recommendation: Approve request for an extension until December 2024

P1801

Standard for Design and Verification of Low Power, Energy Aware Electronic Systems

Recommendation: Approve request for an extension until December 2024

IEEE Computer Society/LAN/MAN Standards Committee

P802.1CQ

Standard for Local and Metropolitan Area Networks: Multicast and Local Address Assignment

Recommendation: Approve request for an extension until December 2024

P802.1DC

Quality of Service Provision by Network Systems

Recommendation: Approve request for an extension until December 2024

P802.1Qcz

Standard for Local and Metropolitan Area Networks--Bridges and Bridged Networks Amendment: Congestion Isolation

Recommendation: Approve request for an extension until December 2024

P802.1Qdd

Standard for Local and Metropolitan Area Networks--Bridges and Bridged Networks Amendment: Resource Allocation Protocol

Recommendation: Approve request for an extension until December 2025

P802.11bb

Standard for Information Technology--Telecommunications and Information Exchange Between Systems Local and Metropolitan Area Networks--Specific Requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications Amendment: Light Communications

Recommendation: Approve request for an extension until December 2024

P802.11bc

Standard for Information technology--Telecommunications and information exchange between systems Local and metropolitan area networks--Specific requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications Amendment: Enhanced Broadcast Service

Recommendation: Approve request for an extension until December 2024

P802.11bd

Standard for Information technology--Telecommunications and information exchange between systems Local and metropolitan area networks--Specific requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications Amendment: Enhancements for Next Generation V2X

Recommendation: Approve request for an extension until December 2023

P802.15.13

Standard for Multi-Gigabit per Second Optical Wireless Communications (OWC), with Ranges up to 200 meters, for both stationary and mobile devices

Recommendation: Approve request for an extension until December 2023

P60802

Time-Sensitive Networking Profile for Industrial Automation

Recommendation: Approve request for an extension until December 2025

IEEE Computer Society/Software & Systems Engineering Standards Committee

P1012

Standard for System, Software, and Hardware Verification and Validation

Recommendation: Approve request for an extension until December 2024

IEEE Computer Society/Standards Activities Board

P2418.3

Standard for the Framework of Distributed Ledger Technology (DLT) Use in Agriculture

Recommendation: Approve request for an extension until December 2024

P7131

Standard for Quantum Computing Performance Metrics & Performance Benchmarking

Recommendation: Approve request for an extension until December 2024

IEEE Computer Society/Test Technology

P1687.1

Standard for the Application of Interfaces and Controllers to Access 1687 IJTAG Networks Embedded Within Semiconductor Devices

Recommendation: Approve request for an extension until December 2024

P2654

Standard for System Test Access Management (STAM) to Enable Use of Sub-System Test Capabilities at Higher Architectural Levels

Recommendation: Approve request for an extension until December 2024

IEEE Dielectrics and Electrical Insulation Society/Standards Committee

P1043

Recommended Practice for Voltage-Endurance Testing of Form-Wound Bars and Coils

Recommendation: Approve request for an extension until December 2023

IEEE Engineering in Medicine and Biology Society/Standards Committee

P2731

Standard for a Unified Terminology for Brain-Computer Interfaces

Recommendation: Approve request for an extension until December 2024

IEEE Geoscience and Remote Sensing Society/Standards Committee

P4002

Standard for Synthetic Aperture Radar Metadata Content

Recommendation: Approve request for an extension until December 2024

IEEE Industrial Electronics Society/Industrial Electronics Society Standards Committee

P21451-1-6

Standard for a Smart Transducer Interface for Sensors, Actuators, and Devices - Message Queue Telemetry Transport (MQTT) for Networked Device Communication

Recommendation: Approve request for an extension until December 2023

IEEE Industry Applications Society/Industrial & Commercial Power Systems Standards Development Committee

P3001.9

Recommended Practice for the Design of Power Systems Supplying Lighting Systems in Commercial and Industrial Facilities

Recommendation: Approve request for an extension until December 2023

IEEE Industry Applications Society/Petroleum & Chemical Industry

P303

Recommended Practice for Auxiliary Devices for Rotating Electrical Machines in Class I, Division 2 and Zone 2 Locations and Class II, Division 2 and Zone 22 Locations

Recommendation: Approve request for an extension until December 2023

P62395-1

Electrical Resistance Trace Heating Systems for Industrial and Commercial Applications – Part 1: General and testing requirements

Recommendation: Approve request for an extension until December 2024

P80005-3

Utility Connections in Port - Part 3: Low Voltage Shore Connection (LVSC) Systems - General Requirements

Recommendation: Approve request for an extension until December 2023

IEEE Instrumentation and Measurement Society/TC9 - Sensor Technology

P1451.4

Standard for A Smart Transducer Interface for Sensors and Actuators--Mixed-Mode Communication Protocols and Transducer Electronic Data Sheet (TEDS) Formats

Recommendation: Approve request for an extension until December 2025

IEEE Power and Energy Society/Electric Machinery

PC50.12

Standard for 50 Hz and 60 Hz Synchronous Generators and Generator/Motors Coupled to Hydraulic Turbines and Rated 5 MVA and Above

Recommendation: Approve request for an extension until December 2024

IEEE Power and Energy Society/Energy Development & Power Generation

P63197

Standard Terms and Definitions for Turbine Governing Systems

Recommendation: Approve request for an extension until December 2024

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

P2686

Recommended Practice for Battery Management Systems in Energy Storage Applications

Recommendation: Approve request for an extension until December 2024

IEEE Power and Energy Society/Insulated Conductors

P495

Guide for Testing Faulted Circuit Indicators

Recommendation: Approve request for an extension until December 2023

P1142

Guide for the Selection, Testing, Application and Installation of 300 V to 500 kV Cables Having Radial-Moisture Barriers and/or Longitudinal Water Blocking

Recommendation: Approve request for an extension until December 2024

P1202

Standard for Testing Flame-Propagation and Smoke Generation of Cables

Recommendation: Approve request for an extension until December 2023

P1235

Guide for Properties of Stripes and Ridges for Identification of Underground Power Cable Jackets and Ducts

Recommendation: Approve request for an extension until December 2023

P1511.2

Guide for Investigating and Analyzing Failures of Joints on Extruded Shielded Power Cables on Systems Rated 5 kV Through 46 kV

Recommendation: Approve request for an extension until December 2025

PC62.22.1

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

Recommendation: Approve request for an extension until December 2024

IEEE Power and Energy Society/Nuclear Power Engineering

P7-4.3.2

Standard Criteria for Programmable Digital Devices in Safety Systems of Nuclear Power Generating Stations

Recommendation: Approve request for an extension until December 2026

P420

Standard for the Design and Qualification of Class 1E Control Boards, Panels, and Racks Used in Nuclear Power Generating Stations

Recommendation: Approve request for an extension until December 2023

P2421

Guide for Designing and Developing Computer-Based Displays for Monitoring and Control of Nuclear Facilities

Recommendation: Approve request for an extension until December 2024

IEEE Power and Energy Society/Power System Communications and Cybersecurity

P643

Guide for Power-Line Carrier Applications

Recommendation: Approve request for an extension until December 2025

P2664

Standard for Streaming Telemetry Transport Protocol

Recommendation: Approve request for an extension until December 2024

IEEE Power and Energy Society/Power System Relaying and Control

P2030.12

Guide for the Design of Microgrid Protection Systems

Recommendation: Approve request for an extension until December 2024

P2030.100.1

Monitoring and Diagnostics of IEC 61850 Generic Object Oriented Status Event (GOOSE) and Sampled Values Based Systems

Recommendation: Approve request for an extension until December 2024

PC37.1.2

Guide for Databases Used in Utility Automation Systems

Recommendation: Approve request for an extension until December 2024

PC37.233

Guide for Power System Protection Testing

Recommendation: Approve request for an extension until December 2023

PC37.300

Guide for Centralized Protection and Control (CPC) Systems within a Substation

Recommendation: Approve request for an extension until December 2024

IEEE Power and Energy Society/Substations

P998

Guide for Direct Lightning Stroke Shielding of Substations

Recommendation: Approve request for an extension until December 2024

P1818

Recommended Practice for the Design of Low-Voltage Auxiliary Systems for Electric Power Substations

Recommendation: Approve request for an extension until December 2024

IEEE Power and Energy Society/Transformers**PC57.12.44**

Standard Requirements for Secondary Network Protectors

Recommendation: Approve request for an extension until December 2023

IEEE Power and Energy Society/Transmission and Distribution**P1695**

Guide to Understanding, Diagnosing, and Mitigating Stray and Contact Voltage

Recommendation: Approve request for an extension until December 2024

P2748

Recommended Practice for Fault Diagnosis and Protection in Smart Distribution System

Recommendation: Approve request for an extension until December 2023

P2749

Recommended Practice for Risk Identification and Evaluation of Smart Power Distribution System

Recommendation: Approve request for an extension until December 2023

P2797

Guide for Forecast and Early Warning of Icing on Overhead Transmission Lines in Micro-topographic Areas

Recommendation: Approve request for an extension until December 2023

IEEE Reliability Society/IEEE Reliability**P1413.1**

Guide for Selecting and Using Reliability Predictions Based on IEEE 1413

Recommendation: Approve request for an extension until December 2025

P1624

Standard for Organizational Reliability Capability

Recommendation: Approve request for an extension until December 2025

IEEE Vehicular Technology Society/Communications Based Train Control and Signals**P1474.2**

Standard for User Interface Requirements in Communications-Based Train Control (CBTC) Systems

Recommendation: Approve request for an extension until December 2023

P1474.3

Recommended Practice for Communications-Based Train Control (CBTC) System Design and Functional Allocations

Recommendation: Approve request for an extension until December 2023

4.3 New PARs

IEEE Communications Society/Unmanned Aerial Vehicles Communications Standards Committee

P1936.3

Standard for Unmanned Aircraft Systems (UAS) using Light Detection and Ranging (LiDAR) for above 110 kV Overhead Transmission Line Survey and Design

Recommendation: Approve new PAR until December 2026

P1936.4

Standard for Technical Requirements for the Maintenance of Multi-rotor Unmanned Aircraft Systems Used for Power Grid Inspection

Recommendation: Approve new PAR until December 2026

P1936.5

Standard for Technical Requirements for Intelligent Hangar Housing Unmanned Aircraft Systems Used for Power Grid Inspection

Recommendation: Approve new PAR until December 2026

P1937.11

Standard for Technical Requirements of Polar Coordinate Photogrammetry Based on Unmanned Aircraft System

Recommendation: Approve new PAR until December 2026

P1937.12

Standard for Technical Requirements for Emergency Cellular Communication System Based on Fixed-Wing Unmanned Aircraft System

Recommendation: Approve new PAR until December 2026

IEEE Computer Society/Artificial Intelligence Standards Committee

P3193

Recommended Practice on Large-scale Pre-trained Deep Learning Model Application Framework

Recommendation: Approve new PAR until December 2026

IEEE Computer Society/Cybersecurity and Privacy Standards Committee

P2883.1

Recommended Practice for Use of Storage Sanitization Methods

Recommendation: Approve new PAR until December 2026

IEEE Computer Society/Data Compression Standards Committee

P3161.9

Standard for Protocols and Interfaces of Digital Retina Systems

Recommendation: Approve new PAR until December 2026

IEEE Computer Society/LAN/MAN Standards Committee

P802.1CS-2020/Cor 1

Standard for Local and Metropolitan Area Networks--Link-local Registration Protocol - Corrigendum 1 Corrections to YANG Data Model

Recommendation: Approve new PAR until December 2026

P802.1Qdv

Standard for Local and Metropolitan Area Networks--Bridges and Bridged Networks Amendment: Enhancements to Cyclic Queuing and Forwarding

Recommendation: Approve new PAR until December 2026

P802.1Qdw

Standard for Local and Metropolitan Area Networks--Bridges and Bridged Networks Amendment: Source Flow Control

Recommendation: Approve new PAR until December 2026

IEEE Computer Society/Standards Activities Board

P3079.2.2

Standard for UI (User Interface)/UX (User Experience) Framework for Motion Training

Recommendation: Approve new PAR until December 2026

P3079.3.1

Standard for Service Application Programming Interfaces (APIs) for Digital Human Authoring and Visualization

Recommendation: Approve new PAR until December 2026

P3185

Standard for Hybrid Quantum-Classical Computing

Recommendation: Approve new PAR until December 2026

P3188

Standard for Virtual E-card Platform

Recommendation: Approve new PAR until December 2026

P3190

Recommended Practice for Open Source Software Project Governance

Recommendation: Approve new PAR until December 2026

P3195

Standard for Requirements for a Mid-Level Ontology and Extensions

Recommendation: Approve new PAR until December 2026

P3195.1

Standard for Common Core Ontology (CCO)

Recommendation: Approve new PAR until December 2026

P3195.1.1

Standard for Cyber Ontology

Recommendation: Approve new PAR until December 2026

IEEE Electromagnetic Compatibility Society/Standards Development Committee

P2710

Recommended Practice for Techniques to Evaluate the Performance of Enclosures and Other Methods for Electromagnetically Shielding Portable Electronic Devices

Recommendation: Approve new PAR until December 2026

IEEE Engineering in Medicine and Biology Society/Standards Committee

P3183

Recommended Practice for the Usability Assessment of Digital Therapeutics Software for Psychological Behavioral Therapy

Recommendation: Approve new PAR until December 2026

P3191

Recommended Practice for Performance Monitoring of Machine Learning-enabled Medical Device in Clinical Use

Recommendation: Approve new PAR until December 2026

IEEE Industry Applications Society/Petroleum & Chemical Industry**P1584.2**

Guide and Checklists for the Data Collection for Performing an Arc-Flash Hazard Calculation Study in Accordance with IEEE Std. 1584™ and IEEE Std.1584.1™ for Systems Operating at Three-Phase 50/60 Hz Alternating Current (AC) 1000 V and below

Recommendation: Approve new PAR until December 2026

IEEE Instrumentation and Measurement Society/TC45 - Radiation and Nuclear Instrumentation and Systems**PN42.49.1**

Performance Criteria for Non-alarming Personal Emergency Radiation Detectors (PERDs) for Exposure Control

Recommendation: Approve new PAR until December 2026

PN42.55

Standard for the Performance of Portable Transmission X-Ray Systems for Use in Improvised Explosive Device and Hazardous Device Identification

Recommendation: Approve new PAR until December 2026

IEEE Power and Energy Society/Energy Storage & Stationary Battery Committee**P3189**

Recommended Practice for the Design and Construction of Prefabricated and Modular Outdoor Battery Enclosures

Recommendation: Approve new PAR until December 2026

IEEE Power and Energy Society/Surge Protective Devices/Low Voltage**PC62.42.7**

Guide for the Application of Thyristor Surge Protective Components

Recommendation: Approve new PAR until December 2026

IEEE Power and Energy Society/Transmission and Distribution**P3192**

Guide for Corrosion Inspection and Evaluation of High Voltage Direct Current (HVDC) Grounding Electrodes (± 400 kV to ± 1100 kV)

Recommendation: Approve new PAR until December 2026

P3194

Standard for Insulating Scissor-Type Platform for Live-Line Working

Recommendation: Approve new PAR until December 2026

IEEE Robotics and Automation Society/Standing Committee for Standards

P1872.3

Standard for Ontology Reasoning on Multiple Robots

Recommendation: Approve new PAR until December 2026 (13 approve, 0 disapprove, 1 abstain)

IEEE Society on Social Implications of Technology/Social Implications of Technology Standards Committee**P7700**

Recommended Practice for the Responsible Design and Development of Neurotechnologies

Recommendation: Approve new PAR until December 2026

P7800

Recommended Practice for Addressing Sustainability, Environmental Stewardship and Climate Change Challenges in Professional Practice

Recommendation: Approve new PAR until December 2026

IEEE-SASB Coordinating Committees/SCC31 - Automatic Meter Reading and Energy Management**P3197**

Guide for Data Transmission Interface of Smart Meters

Recommendation: Approve new PAR until December 2026

4.4 PARs for the Revision of Standards**IEEE Computer Society/LAN/MAN Standards Committee****P802.15.4**

Standard for Low-Rate Wireless Networks

Recommendation: Approve PAR for the revision of a standard until December 2026

IEEE Computer Society/Software & Systems Engineering Standards Committee**P29119-5**

Software and systems engineering -- Software testing -- Part 5: Keyword-Driven Testing

Recommendation: Approve PAR for the revision of a standard until December 2026

IEEE Industry Applications Society/Industrial & Commercial Power Systems Standards Development Committee**P3004.5**

Recommended Practice for the Application of Low-Voltage Circuit Breakers in Industrial and Commercial Power Systems

Recommendation: Approve PAR for the revision of a standard until December 2026

IEEE Industry Applications Society/Petroleum & Chemical Industry**P45.8**

Recommended Practice for Electrical Installations on Shipboard--Cable Systems

Recommendation: Approve PAR for the revision of a standard until December 2026

IEEE Power and Energy Society/Electric Machinery

P43

Recommended Practice for Testing Insulation Resistance of Electric Machinery

Recommendation: Approve PAR for the revision of a standard until December 2026

IEEE Power and Energy Society/Energy Development & Power Generation**P422**

Guide for the Design of Cable Raceway Systems for Electric Generating Facilities

Recommendation: Approve PAR for the revision of a standard until December 2026

IEEE Power and Energy Society/Energy Storage & Stationary Battery Committee**P946**

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

Recommendation: Approve PAR for the revision of a standard until December 2026

P1679.1

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

Recommendation: Approve PAR for the revision of a standard until December 2026

IEEE Power and Energy Society/Insulated Conductors**P400.2**

Guide for Field Testing of Shielded Power Cable Systems Using Very Low Frequency (VLF) (less than 1 Hz)

Recommendation: Approve PAR for the revision of a standard until December 2026

P1143

Guide on Shielding Practice for Low Voltage Cables

Recommendation: Approve PAR for the revision of a standard until December 2026

IEEE Power and Energy Society/Nuclear Power Engineering**P497**

Standard Criteria for Accident Monitoring Instrumentation for Nuclear Power Generating Stations

Recommendation: Approve PAR for the revision of a standard until December 2026

IEEE Power and Energy Society/Power System Relaying and Control**PC37.111**

International Standard - Measuring relays and protection equipment – Part 24: Common format for transient data exchange (COMTRADE) for power systems

Recommendation: Approve PAR for the revision of a standard until December 2026

IEEE Power and Energy Society/Substations**P1246**

Guide for Temporary Protective Grounding Systems Used in Substations

Recommendation: Approve PAR for the revision of a standard until December 2026

PC37.122.1

Guide for Gas-Insulated Substations Rated Above 52 kV

Recommendation: Approve PAR for the revision of a standard until December 2026 (13 approve, 0 disapprove, 1 abstain)

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

PC62.55

Guide for Surge Protection of DC Power Feeds to Remote Radio Heads

Recommendation: Approve PAR for the revision of a standard until December 2026 (7 approve, 5 disapprove, 3 abstain)

IEEE Power and Energy Society/Switchgear

PC37.27

Guide for Low-Voltage AC (635 V and below) Power Circuit Breakers Applied with Separately-Mounted Current-Limiting Fuses

Recommendation: Approve PAR for the revision of a standard until December 2026 (13 approve, 0 disapprove, 1 abstain)

IEEE Power and Energy Society/Transmission and Distribution

P977

Guide to Installation of Foundations for Transmission Line Structures

Recommendation: Approve PAR for the revision of a standard until December 2026

P1724

Guide for the Preparation of a Transmission Line Design Criteria Document

Recommendation: Approve PAR for the revision of a standard until December 2026

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

P1561

Guide for Optimizing the Utilization of Resources in Hybrid Power Systems

Recommendation: Approve PAR for the revision of a standard until December 2026

5 OLD BUSINESS

Greg Marchini provided a myProject update, highlighting accomplishments from recent releases and upcoming plans. Full release notes can be found on the [IEEE SA Support Portal](#). NesCom members provided feedback about functionality, including a request for the ability for the NesCom members to be able to update their preliminary votes after the comment period closes. The NesCom Administrator can update the preliminary votes for the members, but this is not ideal for high volume meetings. The issue of system speed was brought up again, and Greg mentioned that the new UI might also help improve the speed.

6 NEW BUSINESS

There was no new business.

7 DATE OF NEXT MEETING

The next meeting of NesCom took place on 25 October 2022 by teleconference.

8 ADJOURNMENT

Chair Stanley thanked everyone and especially the NesCom members, who reviewed the PARs over the six weeks prior to the meeting. She acknowledged that this work helped the PARs get approved. There being no further business, the meeting was adjourned at 9:30 a.m. ET (UTC-4).