

IEEE SA Standards Board New Standards Committee (NesCom) Recommendations

[SASB approval date: 27-Mar-2025]

[All votes unanimous unless noted otherwise.]

Withdrawal Requests

IEEE Education Society/Standards Committee

P2834

Standard for Secure and Trusted Learning Systems

Recommendation: Approve PAR withdrawal.

Modified PARs

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 modified PAR. (Recuse: E. Au)

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/Transformers

PC57.93a

IEEE Guide for Installation and Maintenance of Liquid-Immersed Power Transformers

Amendment: Cold Start of Power Transformers Filled with Natural Ester Liquids

Recommendation: Approve modified PAR.

IEEE SA Board of Governors/Entity Collaborative Activities Governance Board

P2413.2

Standard for a Reference Architecture for Power Distribution Internet of Things (PDIoT)

Recommendation: Approve modified PAR. (Abstain: D. Sabin)

New PARs

IEEE Circuits and Systems Society/Integrated Circuit Design and Test for Emerging Circuits and Systems Standards Committee

P3583

Standard for Intelligent Diagnostic Function of Audio Integrated Circuits

Recommendation: Approve new PAR until December 2029.

IEEE Communications Society/Edge, Fog, Cloud Communications with IOT and Big Data Standards Committee

P1988

Standard for Data Space Architecture Framework with Integrated Privacy Technology

Recommendation: Approve new PAR until December 2029. (Recuse: H. Mano)

IEEE Communications Society/Mobile Communication Networks Standards Committee

P1932.2

Standard for Cybersecurity Management in Distributed Core Networks

Recommendation: Approve new PAR until December 2029.

IEEE Communications Society/Unmanned Aerial Vehicles Communications Standards Committee

P1936.16

Standard for the Inspection of Overhead Transmission Lines by Vertical Take-off and Landing Fixed-wing Unmanned Aircraft Systems (UAS)

Recommendation: Approve new PAR until December 2029.

P1936.17

Standard for Multi Unmanned Aircraft System (MUAS) Trajectory Planning for Collaborative Inspection of Overhead Power Lines

Recommendation: Approve new PAR until December 2029.

P1937.5

Standard for Technical Requirements for Airport Geofencing for Unmanned Aircraft System (UAS) Operation

Recommendation: Approve new PAR until December 2029.

P1937.10

Standard for Functional and Performance Requirements as well as Testing Methods for Unmanned Aerial Vehicles Remote Identification Ground Receiver Equipment

Recommendation: Approve new PAR until December 2029.

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

P1964

Standard for Collaborative Orbital Data Sharing

Recommendation: Approve new PAR until December 2029.

IEEE Computer Society/Artificial Intelligence Standards Committee

P3559

Standard for Technical Requirements for Multimodal Large Language Models in Smart Home Applications

Recommendation: Approve new PAR until December 2029.

P3579

Standard for Artificial Intelligence Applied to Time Series

Recommendation: Approve new PAR until December 2029.

IEEE Computer Society/Blockchain and Distributed Ledgers

P3240.07

Standard for Identity Management of Electricity Internet of Things (IoT) Devices Based on Distributed Ledger Technology (DLT)

Recommendation: Approve new PAR until December 2029.

P3250.04

Standard for Technical Specifications of Blockchain-Based Air Cargo Data Management

Recommendation: Approve new PAR until December 2029.

P3272.01

Standard for Blockchain Based Stablecoins Payment Service Requirements

Recommendation: Approve new PAR until December 2029.

IEEE Computer Society/Data Compression Standards Committee

P1857.14

Standard for Real-time Communication Speech Coding

Recommendation: Approve new PAR until December 2029.

P1857.15

Standard for Perceptual Lossless Compression

Recommendation: Approve new PAR until December 2029.

P1857.16

Standard for Audio Video Quality

Recommendation: Approve new PAR until December 2029.

P3404.2

Standard for Sharing Data and Model for Artificial Intelligence across Multiple Computing Centers—Requirements for Service Interface and Information Model of Resource Layer

Recommendation: Approve new PAR until December 2029.

P3483.1

Standard for Structured Point Sequence Compression

Recommendation: Approve new PAR until December 2029.

P3483.2

Standard for Semantic Segmentation Map Coding

Recommendation: Approve new PAR until December 2029.

IEEE Computer Society/Functional Safety Standards Committee

P2851.2

Standard for the Enablement of Functional Safety Interoperability with Cybersecurity

Recommendation: Approve new PAR until December 2029.

IEEE Computer Society/LAN/MAN Standards Committee

P802.3dp

IEEE Standard for Ethernet Amendment: Cabling Restrictions for Single Pair Power over Ethernet (SPoE)

Recommendation: Approve new PAR until December 2029. (Recuse: E. Au)

P802.11br

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

Communications

Recommendation: Approve new PAR until December 2029. (Recuse: E. Au, G. Hiertz)

P802.15.4-2024/Cor 1

Standard for Low-Rate Wireless Networks—Corrigendum 1

Recommendation: Approve new PAR until December 2029. (Recuse: E. Au)

IEEE Computer Society/Software & Systems Engineering Standards Committee

P82079-4

Preparation of information for use (instructions for use) of products, Part 4, Digital interactive fault diagnosis manual

Recommendation: Approve new PAR until December 2029. (Recuse: E. Au)

IEEE Computer Society/Standards Activities Board Standards Committee

P3154.1

Recommended Practice for a Framework When Applying Artificial Intelligence Agents for Talent Services

Recommendation: Approve new PAR until December 2029. (Recuse: E. Au)

IEEE Consumer Technology Society/Digital Finance and Economy Standards Committee

P3834

Standard for Energy Market Corpus Construction Framework for Large Language Models Training

Recommendation: Approve new PAR until December 2029. (Recuse: J. Lin)

P3835

Standard for Digital Twin Technology Framework for Integrated Energy Systems

Recommendation: Approve new PAR until December 2029. (Recuse: J. Lin)

IEEE Geoscience and Remote Sensing Society/Standards Committee

P4008

Standard for Corner Reflectors Specialized for Synthetic Aperture Radar

Recommendation: Approve new PAR until December 2029.

IEEE Industrial Electronics Society/Industrial Electronics Society Standards Committee

P3567

Guide for Operational Life Cycle Assessment of Fiber-reinforced Composite Electric Power Equipment

Recommendation: Approve new PAR until December 2029.

IEEE Instrumentation and Measurement Society/TC1 - Non-Destructive Evaluation and Industrial Inspection

P3581

Guide for Microwave Thermography for Nondestructive Testing and Evaluation

Recommendation: Approve new PAR until December 2029.

IEEE Instrumentation and Measurement Society/TC9 - Sensor Technology

P1588f

IEEE Standard for a Precision Clock Synchronization Protocol for Networked Measurement and Control Systems
Amendment: Enhancements for Latency and Asymmetry Calibration

Recommendation: Approve new PAR until December 2029.

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

P2689

Recommended Practice for Electrical Energy Storage Data Management

Recommendation: Approve new PAR until December 2029.

P3592

Standard for General Requirements and Test Procedures for Direct Current (DC) Connectors and Connecting Cables of Energy Storage Systems

Recommendation: Approve new PAR until December 2029.

P3593

Standard for Assessing and Reducing Risk When Working on Stationary Batteries

Recommendation: Approve new PAR until December 2029.

IEEE Power and Energy Society/Nuclear Power Engineering Committee

P2421

Guide for Designing and Developing Graphical User Interfaces for Monitoring and Control of Nuclear Power Generating Stations and Other Nuclear Facilities

Recommendation: Approve new PAR until December 2029.

IEEE Power and Energy Society/Power System Instrumentation and Measurements

P510

Guide for Electrical Safety in High-Voltage Testing

Recommendation: Approve new PAR until December 2029.

P3580

Standard for Medium Voltage Current and Voltage Sensors (1 kV to 72.5 kV)

Recommendation: NesCom recommended approval of the new PAR until December 2029. [Vote: 8=Yes; 4=No; 1=Abstain]. The SASB did not approve that recommendation. The SASB deferred P3580 to NesCom for reconsideration at the May 2025 NesCom meeting.

IEEE Power and Energy Society/Power System Relaying and Control

PC37.124

Guide for Protection of Harmonic Filter Banks

Recommendation: Approve new PAR until December 2029.

IEEE Power and Energy Society/Switchgear

PC37.10.2

Guide for X-ray Digital Imaging of Alternating Current (AC) High-Voltage Switchgear with Rated Maximum Voltage 72.5 kV and Above

Recommendation: Approve new PAR until December 2029.

IEEE Power and Energy Society/Transmission and Distribution

P738.1

Application Guide for IEEE Std 738-2023 (IEEE Standard for Calculating the Current Temperature Relationship of Bare Overhead Conductors)

Recommendation: Approve new PAR until December 2029. (Abstain: D. Sabin)

IEEE SA Board of Governors/Entity Collaborative Activities Governance Board

P3308

Adoption of Moving Picture, Audio and Data Coding by Artificial Intelligence (MPAI) Object and Scene Description (OSD) v1.2

Recommendation: Approve new PAR until December 2029.

P3309

Adoption of Moving Picture, Audio and Data Coding by Artificial Intelligence (MPAI) Technical Specification Neural Network Traceability (NNT) Version 1

Recommendation: Approve new PAR until December 2029.

P3310

Adoption of Moving Picture, Audio and Data Coding by Artificial Intelligence (MPAI) Technical Specification Human and Machine Communication (MMC) Version 2

Recommendation: Approve new PAR until December 2029.

P3585

Guide for Integrated Distributed Energy for Port Power Systems

Recommendation: Approve new PAR until December 2029.

IEEE Signal Processing Society/Synthetic Aperture Standards Committee

P3582

Recommended Practice for Calibration of Digital Phased Arrays

Recommendation: Approve new PAR until December 2029.

PARs for the Revision of Standards

IEEE Computer Society/Software & Systems Engineering Standards Committee

P26511

Systems and software engineering - Requirements for managers of information for users of systems, software, and services

Recommendation: Approve PAR for the revision of a standard until December 2029.

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

P11073-10422

Health informatics--Personal health device communication Part 10422: Device Specialization--Urine Analyzer

Recommendation: Approve PAR for the revision of a standard until December 2029.

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

P1657

Recommended Practice for a Personnel Training Program for Installation and Maintenance of Stationary Batteries

Recommendation: Approve PAR for the revision of a standard until December 2029.

IEEE Power and Energy Society/Insulated Conductors

P575

Guide for Application of Sheath-Bonding Methods for Single-Conductor Cables and the Calculation of Induced Voltages and Currents in Cable Sheaths

Recommendation: Approve PAR for the revision of a standard until December 2029.

IEEE Power and Energy Society/Nuclear Power Engineering Committee

P308

Standard Criteria for Class 1E Power Systems for Nuclear Power Generating Stations
Recommendation: Approve PAR for the revision of a standard until December 2029.

IEEE Power and Energy Society/Power System Relaying and Control

PC37.101

Guide for Generator Stator Ground Fault Protection

Recommendation: Approve PAR for the revision of a standard until December 2029.

IEEE Power and Energy Society/Substations Committee

P693

Recommended Practice for Seismic Design of Substations

Recommendation: Approve PAR for the revision of a standard until December 2029.

IEEE Power and Energy Society/Switchgear

PC37.45

Standard for Design Test Specifications for High Voltage (> 1000 V) Distribution Class Enclosed Single-Pole Air Switches

Recommendation: Approve PAR for the revision of a standard until December 2029.

PC37.48

Guide and Tutorial for the Application of High-Voltage (> 1000 V) Fuses and Accessories

Recommendation: Approve PAR for the revision of a standard until December 2029.

IEEE Power and Energy Society/Transformers

PC57.119

Recommended Practice for Determining the Thermal Parameters of Liquid Immersed Power Transformers

Recommendation: Approve PAR for the revision of a standard until December 2029.

IEEE Power and Energy Society/Transmission and Distribution

P1368

Guide for Aeolian Vibration Field Measurements of Overhead Cables

Recommendation: Approve PAR for the revision of a standard until December 2029. (Abstain: D. Sabin)

P2030.7

Standard for the Specification of Microgrid Controllers

Recommendation: Approve PAR for the revision of a standard until December 2029. (Abstain: D. Sabin)

IEEE SA Board of Governors/Entity Collaborative Activities Governance Board

P2780

Standard for Insulation - Piercing Connectors for Insulated Cables Rated up to 12 kV

Recommendation: Approve PAR for the revision of a standard until December 2029. (Abstain: D. Sabin)

IEEE Vehicular Technology Society/Communications Based Train Control and Signals

P1698

Guide for the Calculation of Braking Distances for Rail Transit Vehicles

Recommendation: Approve PAR for the revision of a standard until December 2029.

IEEE Vehicular Technology Society/Traction Power Systems Standards Committee

P1887

Guide for Wayside Energy Storage Systems for DC Traction Applications

Recommendation: Approve PAR for the revision of a standard until December 2029.