

IEEE SA Standards Board New Standards Committee (NesCom) Recommendations

[All votes unanimous unless noted otherwise.]

Withdrawal Requests

IEEE Computer Society/LAN/MAN Standards Committee

P802.3cw

Standard for Ethernet

Amendment: Physical Layers and Management Parameters for 400 Gb/s Operation over DWDM (Dense Wavelength Division Multiplexing) Systems

Recommendation: Approve PAR withdrawal.

IEEE Robotics and Automation Society/Standing Committee for Standards

P3140

Standard for Semantic Maps for Autonomous Robots

Recommendation: Approve PAR withdrawal.

Modified PARs

IEEE Computer Society/Blockchain and Distributed Ledgers

P3215

Standard for Consensus Framework for Blockchain System

Recommendation: Approve modified PAR.

IEEE Engineering in Medicine and Biology Society/Standards Committee

P2725.1

Standard for Microwave Structural, Vascular, or Functional Brain Imaging Device Safety

Recommendation: Approve modified PAR.

IEEE Industrial Electronics Society/Industrial Electronics Society Standards Committee

P1451.1.6

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

Recommendation: Approve modified PAR.

IEEE Power and Energy Society/Transmission and Distribution

P1829

Guide for Conducting Corona Tests on Hardware Assemblies for Overhead Transmission Lines and Substations

Recommendation: Approve modified PAR.

IEEE Vehicular Technology Society/Intelligent Transportation Systems

P3321

Recommended Practice for the Application of Assumptions on Reasonably Foreseeable Behavior of Other Road Users in Safety Related Models

Recommendation: Approve modified PAR.

Extension Requests

IEEE Computer Society/Artificial Intelligence Standards Committee

P2863

Recommended Practice for Organizational Governance of Artificial Intelligence

Recommendation: Approve request for an extension until 31 December 2025.

IEEE Computer Society/Test Technology

P1450.6.2

Standard for Memory Modeling in Core Test Language

Recommendation: Approve request for an extension until 31 December 2026.

IEEE Power and Energy Society/Insulated Conductors

P1120

Guide for the Planning, Design, Installation, and Repair of Submarine Power Cable Systems

Recommendation: Approve request for an extension until 31 December 2025. (Vote: 7=Yes; 5=No; 0=Abstain)

IEEE Power and Energy Society/Power System Communications and Cybersecurity

P1615

Recommended Practice for Network Communication for Electric Power Substation Monitoring and Control

Recommendation: Approve request for an extension until 31 December 2026.

IEEE Power and Energy Society/Transformers

PC57.146

Guide for Interpretation of Gases Generated in Silicone-Immersed Transformers

Recommendation: Approve request for an extension until 31 December 2026.

IEEE Power Electronics Society/Standards Committee

P393

Standard for Test Procedures for Magnetic Cores

Recommendation: Approve request for an extension until 31 December 2026.

IEEE SA Board of Governors/International Committee on Electromagnetic Safety

P62209-3

Measurement Procedure for the Assessment of Specific Absorption Rate of Human Exposure to Radio Frequency Fields from Hand-Held and Body-Mounted Wireless Communication Devices – Part 3: Vector Measurement-Based Systems (Frequency range of 300 MHz to 6 GHz)

Recommendation: Approve request for an extension until 31 December 2026.

New PARs

IEEE Communications Society/Unmanned Aerial Vehicles Communications Standards Committee

P1936.6

Standard for Unmanned Aircraft Systems Based Oblique Photogrammetry Used for Survey and Design of 110 kV and above Power Transmission and Transformation Projects

Recommendation: Approve new PAR until December 2028.

P1936.7

Standard for Mesh Deployment of Multi-Rotor Unmanned Aircraft Systems for Inspection of Electrical Power Facilities

Recommendation: Defer P1936.7 until next NesCom meeting. (1 abstention)

P1936.8

Standard for Photovoltaic Power Station Monitoring by Unmanned Aircraft System

Recommendation: Defer P1936.8 until next NesCom meeting. (Vote: 9 = Yes; 2 = No; 2 = Abstain)

P1936.9

Standard for Technical Requirements for Electric Unmanned Aircraft Systems for Power Grid Material Lifting

Recommendation: Approve new PAR until December 2028.

P1936.10

Recommended Practice for Use of Electric Unmanned Aircraft Systems for Power Grid Material Lifting

Recommendation: Approve new PAR until December 2028.

IEEE Computer Society/Artificial Intelligence Standards Committee

P3484

Recommended Practice for an Artificial Intelligence Imaging and Data Process Model for Sustainable Textile Value Chain Operations

Recommendation: Approve new PAR until December 2028. (Vote: 10=Yes; 3=No; 0=Abstain)

IEEE Computer Society/Data Compression Standards Committee

P3483

Standard for Deep Intermediate Feature Coding

Recommendation: Approve new PAR until December 2028.

IEEE Computer Society/LAN/MAN Standards Committee

P802.1ASeb

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

Amendment: Optional Use of Announce

Recommendation: Approve new PAR until December 2028.

IEEE Consumer Technology Society/Digital Finance and Economy Standards Committee

P3816.1

Standard for Certificates of Internet of Rights (IOR)

Recommendation: Approve new PAR until December 2028.

P3816.2

Standard for Entrusted Storage of Internet of Rights (IOR)

Recommendation: Approve new PAR until December 2028.

P3822

Standard for Framework of Computational Resource Trading Based on Blockchain

Recommendation: Approve new PAR until December 2028.

P3823

Guide for Privacy-Preserving Computation-Based Price Mechanism for the Data Element Market

Recommendation: Approve new PAR until December 2028. (1 abstention)

P3824

Standard for Reference Framework for Blockchain-Based Digital Content Management Platform

Recommendation: Approve new PAR until December 2028.

P3825

Standard for Technical Requirements for Blockchain-Based Electronic Transferable Records

Recommendation: Approve new PAR until December 2028.

IEEE Consumer Technology Society/Emerging Technology Standards Committee

P3475

Standard for General Requirements for the Docking Port of Intelligent Washing Machines and Cleaning All-in-One Robots

Recommendation: Approve new PAR until December 2028.

IEEE Instrumentation and Measurement Society/TC9 - Sensor Technology

P1451.99

Standard for Harmonization of Internet of Things (IoT) Systems Interactions

Recommendation: Approve new PAR until December 2028.

P1588.1

Standard for Client Server Precision Clock Synchronization Protocol

Recommendation: Approve new PAR until December 2028.

IEEE Intelligent Transportation Systems Society/Standards Committee

P3473

Standard for Technical Requirements for Large Scale Artificial Intelligence Models for Rail Transit

Recommendation: Approve new PAR until December 2028. (Vote: 9=Yes; 4=No; 0=Abstain)

IEEE Power and Energy Society/Analytic Methods for Power Systems

P2882

Guide for Validation of Software Models of Generators for Power System Studies

Recommendation: Approve new PAR until December 2028.

IEEE Power and Energy Society/Transformers

PC57.133

Guide for Evaluating Transformer Performance under Reverse Power Flow

Recommendation: Approve new PAR until December 2028.

IEEE Power and Energy Society/Transmission and Distribution

P3476

Standard for Unique IDs and Smart Tags for Supply Chain and Asset Traceability for the Electric Grid

Recommendation: Approve new PAR until December 2028.

IEEE Vehicular Technology Society/Automated Vehicles Standards Committee

P3472

Standard for Developing Parallel Autonomy Systems within Passenger Vehicles

Recommendation: Approve new PAR until December 2028.

P3474

Standard for Human Intentions and Artificial Intelligence Alignment in Autonomous Driving Agent

Recommendation: Approve new PAR until December 2028.

PARs for the Revision of Standards

IEEE Antennas and Propagation Society/Antennas and Propagation Standards Committee

P211

Standard for Definitions of Terms for Radio Wave Propagation

Recommendation: Approve PAR for the revision of a standard until December 2028. (Vote: 6=Yes; 4=No; 3=Abstain)

IEEE Computer Society/Software & Systems Engineering Standards Committee

P26513

Systems and Software Engineering - Testing and Reviewing Information for Users

Recommendation: Approve PAR for the revision of a standard until December 2028.

IEEE Power and Energy Society/Electric Machinery

P1129

Guide for Online Monitoring of Large Synchronous Generators (10 MVA and above)

Recommendation: Approve PAR for the revision of a standard until December 2028.

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 PAR for the revision of a standard until December 2028.

IEEE Power and Energy Society/Switchgear

PC37.30.3

Standard for Requirements for High-Voltage Interrupter Switches, Interrupters, or Interrupting Aids Used on or Attached to Switches Rated for Alternating Currents Above 1000 V

Recommendation: Approve PAR for the revision of a standard until December 2028.

PC37.30.4

Standard for Test Code for Switching and Fault Making Tests for High-Voltage Interrupter Switches, Interrupters, or Interrupting Aids Used on or Attached to Switches Rated for Alternating Currents above 1000 V

Recommendation: Approve PAR for the revision of a standard until December 2028.

IEEE Power and Energy Society/Transformers

PC57.12.58

Guide for Conducting a Transient Voltage Analysis of a Dry-Type Winding

Recommendation: Approve PAR for the revision of a standard until December 2028.

PC57.19.01

Standard for Performance Characteristics and Dimensions for Power Transformer and Reactor Bushings

Recommendation: Approve PAR for the revision of a standard until December 2028.

PC57.93

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

Recommendation: Approve PAR for the revision of a standard until December 2028.

PC57.104

Guide for the Interpretation of Gases Generated in Mineral Oil-Immersed Transformers

Recommendation: Approve PAR for the revision of a standard until December 2028.

PC57.161

Guide for Dielectric Frequency Response Test for Liquid-immersed Transformers and Reactors

Recommendation: Approve PAR for the revision of a standard until December 2028.