

IEEE SA Standards Board New Standards Committee (NesCom) Recommendations

[SASB approval date: 15-Feb-2024]

[All votes unanimous unless noted otherwise.]

Consent Agenda

Administrative Withdrawal Requests

IEEE Power and Energy Society/Insulated Conductors

P1614

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

Recommendation: Approve PAR withdrawal.

Withdrawal Requests

IEEE Computer Society/Cloud Computing Standards Committee

P2304

Standard for Cloud Computing Shared Function Model

Recommendation: Approve PAR withdrawal.

IEEE Computer Society/LAN/MAN Standards Committee

P802.3dh

Standard for Ethernet Amendment: Physical Layer Specifications and Management Parameters for multi-gigabit optical Ethernet using graded-index plastic optical fiber for application in the automotive environment

Recommendation: Approve PAR withdrawal.

Modified PARs

IEEE Communications Society/Unmanned Aerial Vehicles Communications Standards Committee

P1937.3

Standard for Flight Data Transmission of Civil Unmanned Aerial Vehicle Based on

Short Message Mechanisms

Recommendation: Approve modified PAR.

IEEE Computer Society/Blockchain and Distributed Ledgers

P3204

Standard for Blockchain Interoperability - Cross-Chain Transaction Consistency Protocol

Recommendation: Approve modified PAR.

IEEE Computer Society/Software & Systems Engineering Standards Committee

P32430

Software engineering - Software Non-Functional Sizing Measurement

Recommendation: Approve modified PAR.

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

PN42.59

Standard for Measuring the Imaging Performance of Active Millimeter-Wave Systems for Security Screening of Humans

Recommendation: Approve modified PAR.

IEEE Instrumentation and Measurement Society/TC9 - Sensor Technology

P3388

Standard for the Performance Assessment of Industrial Wireless Systems

Recommendation: Approve modified PAR.

IEEE Power and Energy Society/Transformers

PC57.156

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

Recommendation: Approve modified PAR.

IEEE Vehicular Technology Society/High Speed Train and Maglev Standards Committee

P3143

Standard for Electric Traction System for Short Primary Maglev Vehicle

Recommendation: Approve modified PAR.

Extension Requests

IEEE Computer Society/Standards Activities Board Standards Committee

P3079.1

Motion to Photon (MTP) Latency in Virtual Environments

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

IEEE Consumer Technology Society/Emerging Technology Standards Committee

P2811

Standard for Architectural Framework and Technical Requirements for Smart Lock

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

P2812

Guide for Minor Guardianship System for Online Mobile Gaming

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

IEEE Electromagnetic Compatibility Society/Standards Development Committee

P1128

Recommended Practice for Radio-Frequency (RF) Absorber Evaluation in the Range of 30 MHz to 40 GHz

Recommendation: Approve request for an extension until 31 December 2024.

P2838

Standard for Aircraft Component Lightning Strike Direct Effects Qualification

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

IEEE Power and Energy Society/Smart Buildings, Loads and Customer Systems

P2418.5

Guide for Blockchain in Power and Energy Systems

Recommendation: Approve request for an extension until 31 December 2024.

IEEE Power and Energy Society/Transmission and Distribution

P2798

Guide for Helicopter Operation Procedures for the Utility Industry

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

New PARs

IEEE Computer Society/Artificial Intelligence Standards Committee

P3447

System Architecture and General Requirements for Pre-trained Large Language Models (LLM) Applications in the Smart Home Industry

Recommendation: Approve new PAR until December 2028.

P3458

Standard for Domain-Specific Large Language Model Management Platforms

Recommendation: Approve new PAR until December 2028.

IEEE Computer Society/Blockchain and Distributed Ledgers

P3227.1

System Technical Requirements for Risk Assessment of On-chain Digital Content

Recommendation: Approve new PAR until December 2028.

P3233

Standard for Blockchain-Based Decentralized Storage Protocol Specification

Recommendation: Approve new PAR until December 2028.

IEEE Computer Society/Cybersecurity and Privacy Standards Committee

P3454

Standard for Cloud Computing - Operational Resilience - Framework

Recommendation: Approve new PAR until December 2028.

IEEE Computer Society/Knowledge Engineering Standards Committee

P2807.9

Guide for Application of Knowledge Graphs for Rail Transit

Recommendation: Approve new PAR until December 2028.

P2807.10

Guide for Knowledge Modeling for Carbon Verification-Oriented Knowledge Graph

Recommendation: Approve new PAR until December 2028.

P2807.11

Guide for Production Oriented Knowledge Graph in Petroleum and Chemical Industry

Recommendation: Defer New PAR until next NesCom meeting for the Working Group to collaborate with other societies as to the Scope and Purpose of the PAR. (Vote: 5=Yes; 4=No ; 2=Abstain)

P3460

Guide for Framework of Auxiliary Decision-Making Systems in Power Grid Operations

Recommendation: Defer New PAR until next NesCom meeting for the Working Group to collaborate with other societies as to the Scope and Purpose of the PAR. (1 Abstention)

IEEE Computer Society/LAN/MAN Standards Committee

P802.1ACea

IEEE Standard for Local and metropolitan area networks -- Media Access Control (MAC) Service Definition
Amendment: Support for IEEE Std 802.15.6

Recommendation: Approve new PAR until December 2028.

P802.1AXdz

IEEE Standard for Local and Metropolitan Area Networks--Link Aggregation Amendment: YANG for Link Aggregation

Recommendation: Approve new PAR until December 2028.

P802.1CB-2017/Cor 1

IEEE Standard for Local and metropolitan area networks--Frame Replication and Elimination for Reliability - Corrigendum 1

Recommendation: Approve new PAR until December 2028.

P802.3-2022/Cor 1

IEEE Standard for Ethernet - Corrigendum 1 - Multi-Gigabit Automotive Medium Dependent Interface (MDI) Return Loss

Recommendation: Approve new PAR until December 2028.

P802.19.3a

IEEE Recommended Practice for Local and Metropolitan Area Networks--Part 19: Coexistence Methods for IEEE 802.11 and IEEE 802.15.4 Based Systems Operating in the Sub-1 GHz Frequency Bands Amendment: Additional recommendations for improving coexistence

Recommendation: Approve new PAR until December 2028.

IEEE Computer Society/Software & Systems Engineering Standards Committee

P24748-7

Systems and software engineering--Life cycle management--Part 7: Application of systems engineering on defense programs

Recommendation: Approve new PAR until December 2028.

P24748-8

Systems and software engineering--Life cycle management--Part 8: Technical reviews and audits on defense programs

Recommendation: Approve new PAR until December 2028.

P42024

Standard for Enterprise, systems and software --- Architecture fundamentals

Recommendation: Approve new PAR until December 2028.

P42042

Standard for Enterprise, Systems and Software --- Reference architectures

Recommendation: Approve new PAR until December 2028.

IEEE Computer Society/Standards Activities Board Standards Committee

P3079.3.2

Standard for a Framework for Privacy Protection through Identifiability Management Arising from Avatar Interaction

Recommendation: Approve new PAR until December 2028.

IEEE Computer Society/Test Technology

P1838a

IEEE Standard for Test Access Architecture for Three-Dimensional Stacked Integrated Circuits Amendment 1: Testing of Interconnects External to Multi-Die Assemblies using Boundary-Scan Register (BSR) Segments

Recommendation: Approve new PAR until December 2028.

IEEE Consumer Technology Society/Blockchain Standards Committee

P2147.1

Standard for Requirements of Integrated Consortium Chain Station

Recommendation: Conditional approval with editorial corrections of comment #2.3 to be made; new PAR valid until December 2028.

IEEE Education Society/Standards Committee

P2834.1

Standard for Digital Forensics on Trusted Learning Systems

Recommendation: Approve new PAR until December 2028.

IEEE Engineering in Medicine and Biology Society/Standards Committee

P3337

Standard for the Requirements for Designing Accessible Intelligent Cyber-Physical Systems (AICS) for Well-Being

Recommendation: Defer New Par until next NesCom meeting to provide time for continued discussion and clarification on the PAR. (Vote: 8=Yes; 0= No; 1=Abstain)

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

P3457

Guide for Energy-saving Lightweight Transformation and Operating Maintenance of Electric Facilities in Existing

Buildings in Industrial and Commercial Installations

Recommendation: Approve new PAR until December 2028.

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

PN42.35

Standard for Evaluation Criteria and Performance Requirements of Radiation Detection Portal Monitors for Use in Homeland Security

Recommendation: Approve new PAR until December 2028.

IEEE Instrumentation and Measurement Society/TC9 - Sensor Technology

P3456.1

Standard for Testing Instruments for Deep foundations - Part 1: Low-strain Testing Instruments

Recommendation: Approve new PAR until December 2028.

P3456.2

Standard for Testing instruments for Deep Foundations - Part 2: High-strain Testing Instruments

Recommendation: Approve new PAR until December 2028.

IEEE Photonics Society/Standards Committee

P3461

Standard for Smart Infrastructure with Fiber Optic Sensors

Recommendation: Approve new PAR until December 2028.

IEEE Power and Energy Society/Power System Instrumentation and Measurements

P3453

Guide for Evaluation and Application of Overall Measurement Uncertainty of Electrical Energy Metering Devices

Recommendation: Approve new PAR until December 2028.

IEEE Power and Energy Society/Transformers

PC57.20

Guide for Power Transformers for Low-frequency (10 Hz to 30 Hz) Power Transmission

Recommendation: Approve new PAR until December 2028.

IEEE Robotics and Automation Society/Standing Committee for Standards

P3140.1

Standard for Semantic Maps for Autonomous Robots - Part 1: Use Cases and Requirements

Recommendation: Approve new PAR until December 2028.

P3140.2

Standard for Semantic Maps for Autonomous Robots - Part 2: Framework and Application Development Interface

Recommendation: Approve new PAR until December 2028.

IEEE SA Board of Governors/Entity Collaborative Activities Governance Board

P3328.1

Recommended Practice for Quality Assessment of Wheeled Robots for Substation Inspection

Recommendation: Approve new PAR until December 2028.

IEEE Systems, Man, and Cybernetics Society/Standards Committee

P3449

Recommended Practice for Active Safety Online Monitoring and Early Fire Warning of Lithium-ion Battery Energy Storage Power Station

Recommendation: Approve new PAR until December 2028.

IEEE Vehicular Technology Society/Intelligent Transportation Systems

P3452

Standard for Technical Requirements for Vehicle Networking Management System Based on 3 Access Point Name (3APN)

Recommendation: Approve new PAR until December 2028.

PARs for the Revision of Standards

IEEE Communications Society/Dynamic Spectrum Access Networks Standards Committee

P1900.5

Standard for Requirements and System Architectures for Dynamic Spectrum Access Systems

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

IEEE Computer Society/Cybersecurity and Privacy Standards Committee

P1619

Standard for Cryptographic Protection of Data on Block-Oriented Storage Devices

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

IEEE Computer Society/Data Compression Standards Committee

P1857.5

Standard for Advanced Mobile Speech and Audio

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

IEEE Industry Applications Society/Petroleum & Chemical Industry

P45.7

Recommended Practice for Electrical Installations on Shipboard -- AC Switchboards

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

P1810

Guide for the Installation of Circuit-Integrity Cables Evaluated for Hydrocarbon Pool Fires in Petroleum and Chemical Facilities

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

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

P1106

Recommended Practice for Installation, Maintenance, Testing, and Replacement of Vented Nickel-Cadmium Batteries for Stationary Applications

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

P1635

IEEE/ASHRAE Guide for the Ventilation and Thermal Management of Batteries for Stationary Applications

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

IEEE Power and Energy Society/Power System Communications and Cybersecurity

P487.2

Standard for the Electrical Protection of Communication Facilities Serving Electric Supply Locations through the Use of Optical Fiber Systems

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

IEEE Power and Energy Society/Switchgear

PC37.30.2

Guide for Wind-Loading Evaluation of High-Voltage (>1000 V) Air-Break Switches

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

IEEE Power and Energy Society/Transformers

P60076-57-129

IEC/IEEE International Standard - Power transformers--Part 57-129: Transformers for HVDC applications

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

PC57.12.23

Standard for Submersible Single-Phase Transformers:250 kVA and Smaller; High Voltage 34 500 GrdY/19 920 V and Below; Low Voltage 600 V and Below

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

PC57.12.37

Standard for the Electronic Reporting of Distribution Transformer Test Data

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

PC57.12.39

Standard for Requirements for Distribution Transformer Tank Pressure Coordination

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

PC57.15

IEEE/IEC International Standard- Power transformers - Part 21: Standard requirements, terminology, and test code for step-voltage regulators

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

PC57.127

Guide for the Detection, Location and Interpretation of Sources of Acoustic Emissions from Electrical Discharges in Transformers and Reactors.

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

PC57.159

Standard for Distributed Photo-Voltaic Transformers (DPVTs)

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