

IEEE SA Standards Board New Standards Committee (NesCom) Recommendations

[SASB approval date: 03-Dec-2022]

[All votes unanimous unless noted otherwise.]

Withdrawal Requests

IEEE Consumer Technology Society/Blockchain Standards Committee

P2140.3

Standard for User Identification and Anti-Money Laundering on Cryptocurrency Exchanges

Recommendation: Approve PAR withdrawal

P2143.2

Standard for Cryptocurrency Payment Performance Metrics

Recommendation: Approve PAR withdrawal

P2143.3

Standard for Risk Control Requirements for Cryptocurrency Payment

Recommendation: Approve PAR withdrawal

IEEE Power and Energy Society/Surge Protective Devices Committee

PC62.22

Guide for the Application of Metal-Oxide Surge Arresters for Alternating-Current Systems

Recommendation: Approve PAR withdrawal

IEEE Power and Energy Society/Transmission and Distribution

P519.1

Guide for Applying Harmonic Limits on Power Systems

Recommendation: Approve PAR withdrawal

Modified PARs

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

P1913

YANG Model for Software-Defined Quantum Communication

Recommendation: Approve modified PAR

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

P802.3df

Standard for Ethernet

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

Recommendation: Approve modified PAR

IEEE Engineering in Medicine and Biology Society/Standards Committee

P2418.6

Standard for a Framework for Web3 in Decentralized Trusted Work Flows in Healthcare and Life Sciences

Recommendation: Defer modified PAR until the next NesCom meeting to give the Working Group time to add clarity to the PAR

P2794

Reporting Standards for in vivo Neural Interface Research

Recommendation: Approve modified PAR

IEEE Power and Energy Society/Switchgear

PC37.68

Standard Design, Test, and Application Requirements for Microprocessor-Based Controls of Distribution Padmount, Dry Vault, Wet Vault, and Polemount Switchgear Rated Above 1 kV and Up to and Including 38 kV

Recommendation: Approve modified PAR

Extension Requests

IEEE Communications Society/Green ICT Standards Committee

P1922.1

Standard for a Method for Calculating Anticipated Emissions Caused by Virtual Machine Migration and Placement

Recommendation: Approve request for an extension until December 2024

P1925.1

Standard for Energy Efficient Dynamic Line Rate Transmission System

Recommendation: Approve request for an extension until December 2024

P1926.1

Standard for a Functional Architecture of Distributed Energy Efficient Big Data Processing

Recommendation: Approve request for an extension until December 2024

P1927.1

Standard for Services Provided by the Energy-efficient Orchestration and Management of Virtualized Distributed Data Centers Interconnected by a Virtualized Network

Recommendation: Approve request for an extension until December 2024

P1928.1

Standard for a Mechanism for Energy Efficient Virtual Machine Placement

Recommendation: Approve request for an extension until December 2024

P1929.1

An Architectural Framework for Energy Efficient Content Distribution

Recommendation: Approve request for an extension until December 2024

IEEE Communications Society/Virtualized and Software Defined Networks, and Services Standards Committee**P1913**

Software-Defined Quantum Communication

Recommendation: Approve request for an extension until December 2024

IEEE Computer Society/Simulation Interoperability Stds Organization/Stds Activity Committee**P1730.2**

Recommended Practice for Verification, Validation and Accreditation of a Distributed Simulation - an Overlay to the Distributed Simulation Engineering and Execution Process

Recommendation: Approve request for an extension until December 2023

IEEE Consumer Technology Society/Emerging Technology Standards Committee**P2785**

Standard for Architectural Framework and General Requirements for Smart Home Systems

Recommendation: Approve request for an extension until December 2023

P2786

Standard for General Requirements and Interoperability for Internet of Clothing

Recommendation: Approve request for an extension until December 2023

IEEE Electromagnetic Compatibility Society/Standards Development Committee**P473**

Recommended Practice for an Electromagnetic Site Survey (10 kHz to 40 GHz)

Recommendation: Approve request for an extension until December 2023

P1897

Recommended Practice for the Resolution of Power-Line Gap-Noise Reports

Recommendation: Approve request for an extension until December 2024

P2715

Guide for the Characterization of the Shielding Effectiveness of Planar Materials

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 2023

IEEE Engineering in Medicine and Biology Society/Standards Committee**P2418.6**

Standard for the Framework of Distributed Ledger Technology (DLT) Use in Healthcare and the Life and Social Sciences

Recommendation: Approve request for an extension until December 2025

P2673

Standard for Patient Digital Biomedical Data Files with 3D Topological Mapping of Macroanatomy and Microanatomy for Use in Big Data and Augmented Intelligence Systems

Recommendation: Approve request for an extension until December 2024

P2727

Standard for General Vocabulary for Conformity Assessment of Medical Devices with Measuring Function

Recommendation: Approve request for an extension until December 2024 (13 approve, 0 disapprove, 1 abstain)

P2727.1

Standard for Conformity Assessment Testing of Cardiac Defibrillators for Legal Metrology Purposes

Recommendation: Approve request for an extension until December 2024 (13 approve, 0 disapprove, 1 abstain)

P2792

Therapeutic Electrical Stimulation Waveforms

Recommendation: Approve request for an extension until December 2024

P2794

Standard for Reporting of In Vivo Neural Interface Research

Recommendation: Approve request for an extension until December 2025

P2802

Standard for the Performance and Safety Evaluation of Artificial Intelligence Based Medical Device: Terminology

Recommendation: Approve request for an extension until December 2023

IEEE Industry Applications Society/Petroleum & Chemical Industry

P841.1

Standard for Process Industry - International Energy Efficient Class 3 (IE3) (Premium-Efficiency), Severe-Duty, Totally Enclosed Frame Surface Cooled Squirrel Cage Induction Motors - 0.75 kW to 370 kW (1 hp to 500 hp)

Recommendation: Approve request for an extension until December 2024

IEEE Instrumentation and Measurement Society/TC10 - Waveform Generation Measurement and Analysis

P1241

Standard for Terminology and Test Methods for Analog-to-Digital Converters

Recommendation: Approve request for an extension until December 2023

P1658

Standard for Terminology and Test Methods of Digital-to-Analog Converter Devices

Recommendation: Approve request for an extension until December 2023

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 2024

IEEE Power and Energy Society/Analytic Methods for Power Systems

P762

Standard Definitions for Use in Reporting Electric Generating Unit Reliability, Availability, and Productivity

Recommendation: Approve request for an extension until December 2023

IEEE Power and Energy Society/Energy Development & Power Generation

P666

Design Guide for Electric Power Service Systems for Generating Stations

Recommendation: Approve request for an extension until December 2024

P2800.1

Guide for Test and Verification Procedures for Inverter-Based Resources Interconnecting with Associated Transmission Electric Power Systems

Recommendation: Approve request for an extension until December 2024

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

P1188

Recommended Practice for Maintenance, Testing, and Replacement of Valve-Regulated Lead-Acid (VRLA) Batteries for Stationary Applications

Recommendation: Approve request for an extension until December 2023

P1679.3

Guide for the Characterization and Evaluation of Flow Batteries in Stationary Applications

Recommendation: Approve request for an extension until December 2024

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 2023

P1120

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

Recommendation: Approve request for an extension until December 2024

P1210

Standard Tests for Determining Compatibility of Cable-Pulling Lubricants With Wire and Cable

Recommendation: Approve request for an extension until December 2024

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 2023

P2412

Standard Test for Determining Circuit Integrity Performance of Fire Resistive Cable Systems in Passenger Rail and Road Tunnels

Recommendation: Approve request for an extension until December 2024

IEEE Power and Energy Society/Nuclear Power Engineering

P845

Guide for the Evaluation of Human-System Performance in Nuclear Power Generating Stations and Other Nuclear Facilities

Recommendation: Approve request for an extension until December 2023

P62582-1

Nuclear power plants - Instrumentation and control important to safety - Electrical equipment condition monitoring methods - Part 1: General

Recommendation: Approve request for an extension until December 2023

IEEE Power and Energy Society/Power System Instrumentation and Measurements

P510

Guide for Electrical Safety in High-Voltage Testing

Recommendation: Approve request for an extension until December 2024

P1122

Standard for Digital Recorders for Measurements in High-Voltage and High-Current Impulse Tests

Recommendation: Approve request for an extension until December 2023

IEEE Power and Energy Society/Power System Relaying and Control

P1613

Standard for Environmental and Testing Requirements for Devices with Communications Functions used with Electric Power Apparatus

Recommendation: Approve request for an extension until December 2023

PC37.90

Standard for Relays, Relay Systems, and Control Devices used for Protection and Control of Electric Power Apparatus – General Requirements and Tests

Recommendation: Approve request for an extension until December 2024

PC37.92

Standard for Low-Energy Analog Interfaces between Protective Relays and Power System Signal Sources

Recommendation: Approve request for an extension until December 2023

PC37.102

Guide for AC Generator Protection

Recommendation: Approve request for an extension until December 2024

PC37.249

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

Recommendation: Approve request for an extension until December 2023

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

P2418.5

Standard for Blockchain in Energy

Recommendation: Approve request for an extension until December 2023

P2783

Guide for the Application of Quick Response Systems of Customer-Side Loads in Modern Power Grids

Recommendation: Approve request for an extension until December 2023

IEEE Power and Energy Society/Substations

P525

Guide for the Design and Installation of Cable Systems in Substations

Recommendation: Approve request for an extension until December 2024

P605

Guide for Bus Design in Air Insulated Substations

Recommendation: Approve request for an extension until December 2023

P837

Standard for Qualifying Permanent Connections Used in Substation Grounding

Recommendation: Approve request for an extension until December 2024

P1534

Recommended Practice for Specifying Thyristor-Controlled Series Capacitors

Recommendation: Approve request for an extension until December 2024

IEEE Power and Energy Society/Surge Protective Devices Committee

PC62.21

Guide for the Application of Surge Voltage Protective Equipment on AC Rotating Machinery 1000 Volts and Greater

Recommendation: Approve request for an extension until December 2024

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

PC62.220

Guide for the Application of Surge Protective Devices for the Smart Grid

Recommendation: Approve request for an extension until December 2024

IEEE Power and Energy Society/Switchgear

PC37.20.3

Standard for Metal-Enclosed Interrupter Switchgear Rated Above 1 kV ac up to and Including 48.3 kV ac

Recommendation: Approve request for an extension until December 2023

PC37.100.7

Guide for the Evaluation of Performance Characteristics of Non-Sulfur Hexafluoride Insulation and Arc Quenching Media for Switchgear Rated Above 1000 V

Recommendation: Approve request for an extension until December 2024

IEEE Power and Energy Society/Transformers

PC57.16

Standard for Requirements, Terminology, and Test Code for Dry-Type Air-Core Series-Connected Reactors

Recommendation: Approve request for an extension until December 2024

PC57.19.00

Standard General Requirements and Test Procedure for Power Apparatus Bushings

Recommendation: Approve request for an extension until December 2023

PC57.19.02

Standard for the Design and Performance Requirements of Bushings Applied to Liquid Immersed Distribution Transformers

Recommendation: Approve request for an extension until December 2024

PC57.32.10

Guide for the Selection of Neutral-Grounding Devices for High Voltage Direct Current (HVDC) Converter Transformers

Recommendation: Approve request for an extension until December 2024

PC57.98

Guide for Transformer Impulse Tests

Recommendation: Approve request for an extension until December 2024

PC57.160

Guide for the Electrical Measurement of Partial Discharges in High Voltage Bushings and Instrument Transformers

Recommendation: Approve request for an extension until December 2023

PC57.162

Guide for the Interpretation of Moisture Related Parameters in Liquid Immersed Transformers and Reactors

Recommendation: Approve request for an extension until December 2023

PC57.166

Guide for Acceptance and Maintenance of Insulating Liquids in Transformers and Related Equipment

Recommendation: Approve request for an extension until December 2024

PC57.167

Guide for Monitoring Distribution Transformers

Recommendation: Approve request for an extension until December 2023

IEEE Power and Energy Society/Transmission and Distribution

P18

Standard for Shunt Power Capacitors

Recommendation: Approve request for an extension until December 2023

P957

Guide for Monitoring, Managing and Cleaning of Contaminated Insulators

Recommendation: Approve request for an extension until December 2023

IEEE SA Board of Governors/Corporate Advisory Group

P1858

Standard for Camera Phone Image Quality (CPIQ)

Recommendation: Approve request for an extension until December 2023

IEEE Vehicular Technology Society/Intelligent Transportation Systems

P2020

Standard for Automotive System Image Quality

Recommendation: Approve request for an extension until December 2024

New PARs

IEEE Computer Society/Artificial Intelligence Standards Committee

P3338

Guide for Framework for Data Contribution Evaluation in Federated Machine Learning

Recommendation: Approve new PAR until December 2026

IEEE Computer Society/Blockchain and Distributed Ledgers

P3227

Standard for a Reference Framework of Data Security Circulation System Based on Blockchain and Federated Computation

Recommendation: Approve new PAR until December 2026

P3229

Guide for Industrial Software Application Based on Blockchain

Recommendation: Approve new PAR until December 2026

P3230

Standard for Blockchain based Power System Demand Response Technical Specification

Recommendation: Approve new PAR until December 2026

IEEE Computer Society/Functional Safety Standards Committee

P3332

Standard for Control-oriented System Safety Analysis

Recommendation: Approve new PAR until December 2026

IEEE Computer Society/LAN/MAN Standards Committee

P802.3dj

Standard for Ethernet

Amendment: Media Access Control Parameters for 1.6 Tb/s and 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 2026

P802.3dk

Standard for Ethernet

Amendment: Greater than 50 Gb/s Bidirectional Optical Access PHYs

Recommendation: Approve new PAR until December 2026

P802.11bk

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: 320MHz Positioning

Recommendation: Approve new PAR until December 2026

IEEE Computer Society/Microprocessor Standards Committee

P3120.1

Standard for Quantum Simulator Architecture

Recommendation: Approve new PAR until December 2026

IEEE Computer Society/Standards Activities Board

P3330

Standard for Shape Expression Schemas

Recommendation: Approve new PAR until December 2026

IEEE Consumer Technology Society/Digital Finance and Economy Standards Committee

P3809

Standard for Technical Specification of Blockchain-based Electronic Bidding

Recommendation: Approve new PAR until December 2026

P3810

Standard for Framework of Energy Market Simulation

Recommendation: Approve new PAR until December 2026

P3812.1

Standard for General Requirements for Identity Framework for Metaverse

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

P3812.2

Standard for Data Access Management for Identity Relationships

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

P3813

Standard for General Framework and Technical Requirements for an Industrial Digital Asset Trading Platform

Recommendation: Approve new PAR until December 2026

P3814

Standard for Carbon Asset Trading Mechanism and Technical Requirements

Recommendation: Approve new PAR until December 2026

IEEE Engineering in Medicine and Biology Society/Standards Committee

P3337

Standard for Intelligent Power, Security, Connectivity (IPSC) for Wellness

Recommendation: Defer new PAR until the next NesCom meeting to provide time to update the PAR

IEEE Industry Applications Society/Petroleum & Chemical Industry

P1580a

Recommended Practice for Marine Cable for Use on Shipboard and Fixed or Floating Facilities Amendment: Offshore Wind Electrical Substation Cables

Recommendation: Approve new PAR until December 2026

P1814

Guide for Electrical System Design Techniques to Enhance Electrical Safety – System Planning, Equipment, Protection

Recommendation: Approve new PAR until December 2026

IEEE Instrumentation and Measurement Society/TC9 - Sensor Technology

P3335

Standard for Architecture and Interfaces for Time Card

Recommendation: Approve new PAR until December 2026

IEEE Photonics Society/Standards Committee

P3324

Guide for Blue-green Laser Communication System for Industrial Underwater Operations - Generic Specification

Recommendation: Approve new PAR until December 2026

P3325

Guide for General Requirement for Industrial UV Detection Equipment

Recommendation: Approve new PAR until December 2026

IEEE Power and Energy Society/Switchgear

PC37.100.8

Guide For Methodologies to Demonstrate the Expected Life of Lubricants Used in Switching Devices

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

IEEE Power and Energy Society/Transmission and Distribution

P1806-2021/Cor 1

Guide for Reliability-Based Placement of Overhead and Underground Switching and Overcurrent Protection Equipment up to and Including 38 kV - Corrigendum 1

Recommendation: Approve new PAR until December 2026

P3336

Guide for Vibration Tests for Aircraft Warning Marker Balls on Overhead Transmission Lines

Recommendation: Approve new PAR until December 2026

IEEE Robotics and Automation Society/Standing Committee for Standards

P7017

Recommended Practice for Design-Centered Human-Robot Interaction (HRI) and Governance

Recommendation: Approve new PAR until December 2026

IEEE SA Board of Governors/Corporate Advisory Group

P3303

Adoption of Moving Picture, Audio and Data Coding by Artificial Intelligence (MPAI) Technical Specification Compression and Understanding of Industrial Data (CUI)

Recommendation: Approve new PAR until December 2026

P3326

Recommended Practice for Use of Infrared Online System for Substation Inspection

Recommendation: Approve new PAR until December 2026

P3327

Recommended Practice for Use of an Unmanned Aerial Vehicle for Substation Inspection

Recommendation: Approve new PAR until December 2026

P3328

Recommended Practice for Use of Wheeled Robots for Substation Inspection

Recommendation: Approve new PAR until December 2026

IEEE Systems, Man, and Cybernetics Society/Standards Committee

P3334

Recommended Practice for Market-based Electric Vehicle Grid Integration

Recommendation: Approve new PAR until December 2026

IEEE Vehicular Technology Society/Intelligent Transportation Systems

P1609.2.1-2022/Cor 1

Standard for Wireless Access in Vehicular Environments (WAVE) - Certificate Management Interfaces for End Entities - Corrigendum 1

Recommendation: Approve new PAR until December 2026

PARs for the Revision of Standards

IEEE Computer Society/Simulation Interoperability Stds Organization/Stds Activity Committee

P1730.1

Recommended Practice for Distributed Simulation Engineering and Execution Process Multi-Architecture Overlay (DMAO)

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

IEEE Industry Applications Society/Petroleum & Chemical Industry

P1068

Standard for the Repair and Rewinding of AC Electric Motors in the Petroleum, Chemical, and Process Industries

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

P1683

Guide for Motor Control Centers Rated up to and including 600 V AC or 1000 V DC with Recommendations Intended to Help Reduce Electrical Hazards

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

IEEE Power and Energy Society/Nuclear Power Engineering

P1786

Recommended Practice for Human Factors Applications of Computerized Operating Procedure Systems at Nuclear Power Generating Stations and Other Nuclear Facilities

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

P1819

Standard for Risk-Informed Categorization and Treatment of Electrical and Electronic Systems and Components at Nuclear Power Generating Stations and Other Nuclear Facilities

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

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 [Edwards])

IEEE Power and Energy Society/Transmission and Distribution

P1726

Guide for the Functional Specification of Fixed-Series Capacitor Banks for Transmission System Applications

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

P2247.1 (C/LT)

Standard for the Classification of Adaptive Instructional Systems

(New PAR)

P7919.1 (C/LT)

Requirements for eReaders to Support Learning Applications

(New PAR)

P1934.1 (COM/EdgeCloud-SC)

Nomenclature and Taxonomy for Distributing Computing, Communications and Networking along the Things-to-Cloud Continuum

(New PAR)

P3333.2.2 (EMB/Std Com)

Standard for Three-Dimensional (3D) Medical Visualization

(New PAR)

P3333.2.3 (EMB/Std Com)

Standard for Three-Dimensional (3D) Medical Data Management

(New PAR)

P3333.2.4 (EMB/Std Com)

Standard for Three-Dimensional (3D) Medical Simulation

(New PAR)

P3333.2.5.1 (EMB/Std Com)

Standard for Soft Tissue Modeling for Medical 3D Printing

(New PAR)

P3333.2.5.2 (EMB/Std Com)

Standard for Hard Tissue Modeling for 3D Printing

(New PAR)

P3333.2.5.3 (EMB/Std Com)

Standard for Surgical Guide Design Modeling for Medical 3D Printing

(New PAR)

P3333.2.5.4 (EMB/Std Com)

Standard for Artificial Joint Implant Design Modeling for Medical 3D Printing

(New PAR)

P3333.2.5.5 (EMB/Std Com)

Standard for In Vivo Evaluation of 3D Printed Polymeric Scaffolds in Bone Defects

(New PAR)

P1451.7 (IM/ST)

Smart transducer interface for sensors and actuators - Transducers to radio frequency identification (RFID) systems communication protocols and Transducer Electronic Data Sheets (TEDS) for Internet of Things

(Revision PAR)

P649 (PE/NPE)

Standard for Qualifying Class 1E Motor Control Centers for Nuclear Facilities

(Revision PAR)

P692 (PE/NPE)

Standard Criteria for Security Systems for Nuclear Power Generating Stations

(Revision PAR)

P61226 (PE/NPE)

Nuclear power plants - Instrumentation and control systems important to safety - Classification of instrumentation and control functions

(New PAR)

P1711 (PE/PSCC)

Standard for a Cryptographic Protocol for Electric Power System (EPS) Communications Links

(Revision PAR)

P2418.4 (VT/ITS)

Standard for the Framework of Distributed Ledger Technology (DLT) Use in Connected and Autonomous Vehicles (CAVs)

(New PAR)

P2406 (VT/RTSC)

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

(New PAR)