

IEEE SA Standards Board New Standards Committee (NesCom) Recommendations

[SASB Approval Date: 08 November 2023]

[All votes unanimous unless noted otherwise.]

Withdrawal Requests

IEEE Computer Society/Learning Technology

P7004.1

Recommended Practices for Virtual Classroom Security, Privacy and Data Governance

Recommendation: Approve PAR withdrawal.

IEEE Computer Society/Standards Activities Board

P2858

Recommended Practice for Mini-program Interoperability

Recommendation: Approve PAR withdrawal.

P3190

Recommended Practice for Open Source Software Project Governance

Recommendation: Approve PAR withdrawal.

Modified PARs

IEEE Power and Energy Society/Substations

PC37.431.20

Guide for Protecting Transmission Dynamic Reactive Power Compensators

Recommendation: Approve modified PAR.

IEEE Power and Energy Society/Transformers

PC57.19.100

Guide for Application of Power Apparatus Bushings

Recommendation: Approve modified PAR.

Extension Requests

IEEE Antennas and Propagation Society/Antennas and Propagation Standards Committee

P145

Standard for Definitions of Terms for Antennas

Recommendation: Approve request for an extension until December 2025.

P1720

Recommended Practice for Near Field Antenna Measurements

Recommendation: Approve request for an extension until December 2024.

P2816

Recommended Practice for Computational Electromagnetics Applied to Modeling and Simulation of Antennas

Recommendation: Approve request for an extension until December 2025.

IEEE Computer Society/Microprocessor Standards Committee

P1003.1

Standard for Information Technology--Portable Operating System Interface (POSIX(R)) Base Specifications, Issue 8

Recommendation: Approve request for an extension until December 2024.

IEEE Computer Society/Smart Manufacturing Standards Committee

P2806

System Architecture of Digital Representation for Physical Objects in Factory Environments

Recommendation: Approve request for an extension until December 2025.

IEEE Electromagnetic Compatibility Society/Standards Development Committee

P2717

Recommended Practice for Passive Intermodulation Test Methods for Wireless Systems in Low Noise Environments

Recommendation: Approve request for an extension until December 2024.

IEEE Geoscience and Remote Sensing Society/Standards Committee

P4001

Standard for Characterization and Calibration of Ultraviolet through Shortwave Infrared (250 nm to 2500 nm) Hyperspectral Imaging Devices

Recommendation: Approve request for an extension until December 2024.

**IEEE Industry Applications Society/Petroleum & Chemical Industry
P80005-3**

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

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 2024.

**IEEE Power and Energy Society/Insulated Conductors
P2810**

Guide for Field Dielectric Enhancement of Polyethylene and Cross-linked Polyethylene Power Cables

Recommendation: Approve request for an extension until December 2025.

**IEEE Power and Energy Society/Power System Instrumentation and Measurements
P1459**

Standard Definitions for the Measurement of Electric Power Quantities Under Sinusoidal, Nonsinusoidal, Balanced, or Unbalanced Conditions

Recommendation: Approve request for an extension until December 2025.

**IEEE Power and Energy Society/Power System Relaying and Control
P1646**

Standard Communication Delivery Time Performance Requirements for Electric Power Substation Automation

Recommendation: Approve request for an extension until December 2025.

PC37.1.3

Recommended Practice for Human Machine Interfaces (HMIs) used with Electric Utility Automation Systems

Recommendation: Approve request for an extension until December 2025.

**IEEE Power and Energy Society/Substations
P605**

Guide for Bus Design in Air Insulated Substations

Recommendation: Approve request for an extension until December 2024.

PC37.123

Guide for Specifications for High-Voltage Gas-Insulated Substations Rated Above 52 kV

Recommendation: Approve request for an extension until December 2024.

PC37.431.20

Guide for Protecting Transmission Static Shunt Compensators

Recommendation: Approve request for an extension until December 2025.

IEEE Power and Energy Society/Transformers

PC57.12.35

Standard for Information Coding for Distribution Transformers and Step-Voltage Regulators

Recommendation: Approve request for an extension until December 2025.

PC57.12.80

Standard Terminology for Power and Distribution Transformers

Recommendation: Approve request for an extension until December 2025.

PC57.19.100

Guide for Application of Power Apparatus Bushings

Recommendation: Approve request for an extension until December 2025.

PC57.91

Guide for Loading Mineral-Oil-Immersed Transformers and Step-Voltage Regulators

Recommendation: Approve request for an extension until December 2025.

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 2024.

PC57.165

Guide for Temperature Measurements for Liquid Immersed Transformers and Reactors

Recommendation: Approve request for an extension until December 2024.

**IEEE Power and Energy Society/Transmission and Distribution
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 2025.

P2824

Guide for Testing Mechanical Acoustic Imaging of High Voltage Reactors

Recommendation: Approve request for an extension until December 2025.

P2833

Guide for Overhead Transmission Lines with Composite-Insulated-Crossarm Supports

Recommendation: Approve request for an extension until December 2025.

PC135.90

Standard for Pole Line Hardware for Overhead Line Construction

Recommendation: Approve request for an extension until December 2025.

IEEE Power Electronics Society/Standards Committee

P2004

Hardware-in-the-Loop (HIL) Simulation Based Testing of Electric Power Apparatus and Controls

Recommendation: Approve request for an extension until December 2025.

IEEE SA Board of Governors/Distributed Generation, Energy Storage and Interoperability Standards Committee

P2815

Guide for the Technical Specification of Smart Distribution Transformer Terminal

Recommendation: Approve request for an extension until December 2025.

IEEE-SASB Coordinating Committees/International Committee on Electromagnetic Safety

PC95.1-2345

Standard for Military Workplaces -- Force Health Protection Regarding Personnel Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz

Recommendation: Approve request for an extension until December 2024.

IEEE-SASB Coordinating Committees/SCC20 - Test and Diagnosis for Electronic Systems

P2848

Standard for Prognostics and Health Management in Automatic Test Systems

Recommendation: Approve request for an extension until December 2025.

New PARs

IEEE Communications Society/Power Line Communications

P2893-2023/Cor 1

IEEE Standard for Flexible Optical Service Unit (OSUFlex) of Optical Transport Network (OTN) in Power Systems - Corrigendum 1 Technical correction

Recommendation: Approve new PAR until December 2027.

IEEE Computer Society/Artificial Intelligence Standards Committee

P3423

Standard for End-to-end Framework Design for Autonomous Driving

Recommendation: Approve new PAR until December 2027.

IEEE Computer Society/Data Compression Standards Committee

P3161.5

Standard for Algorithm and Model Repository of Digital Retina Systems

Recommendation: Approve new PAR until December 2027.

P3161.6

Standard for Storage System of Digital Retina Systems

Recommendation: Approve new PAR until December 2027.

P3161.7

Standard for End-edge-cloud Collaboration of Digital Retina Systems

Recommendation: Approve new PAR until December 2027.

IEEE Computer Society/Software & Systems Engineering Standards Committee

P23612

Software and systems engineering -- Incident management

Recommendation: Approve new PAR until December 2027.

IEEE Computer Society/Standards Activities Board

P3401

Standard for the Visual Quality Assessment of Auto-Stereoscopic Displays

Recommendation: Approve new PAR until December 2027.

IEEE Industrial Electronics Society/Industrial Electronics Society Standards Committee

P2805.5

Recommended Practice for Low-Code Development in Industrial Edge Computing

Recommendation: Approve new PAR until December 2027.

P2805.6

Recommended Practice for Cloud-Edge Collaborative Industrial Automation System Architecture

Recommendation: Approve new PAR until December 2027.

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

P3005.7

Recommended Practice for Application of Metering for Energy Management of Industrial and Commercial Power Systems

Recommendation: Approve new PAR until December 2027.

IEEE Intelligent Transportation Systems Society/Standards Committee

P3432

Standard for Technical Requirements for Loss Reduction of Bulk Grain in Port

Recommendation: Approve new PAR until December 2027.

IEEE Vehicular Technology Society/Overhead Contact Systems

P3425

Standard for Overhead Contact System (OCS) Testing and Commissioning

Recommendation: Approve new PAR until December 2027.

IEEE Vehicular Technology Society/Traction Power Systems Standards Committee

P3433

Recommended Practice for Smart Traction Power Substations and Management Systems

Recommendation: Approve new PAR until December 2027.

PARs for the Revision of Standards

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

P493

Recommended Practice for the Design of Reliable Industrial and Commercial Power Systems

Recommendation: Approve PAR for the revision of a standard until December 2027.

IEEE Instrumentation and Measurement Society/TC9 - Sensor Technology

P21451-7

Standard for Smart Transducer Interface for Sensors and Actuators-Transducers to Radio Frequency Identification (RFID) Systems Communication Protocols and Transducer Electronic Data Sheet (TEDS) Formats

Recommendation: Approve PAR for the revision of a standard until December 2027.

IEEE Power and Energy Society/Energy Development & Power Generation

P421.4

Guide for the Preparation of Excitation System Specifications

Recommendation: Approve PAR for the revision of a standard until December 2027.

IEEE Power and Energy Society/Nuclear Power Engineering

P628

Standard Criteria for the Design, Installation, and Qualification of Raceway Systems for Class 1E Circuits for Nuclear Power Generating Stations

Recommendation: Approve PAR for the revision of a standard until December 2027.

IEEE Power and Energy Society/Surge Protective Devices Committee

PC62.22

Guide for the Application of Metal-Oxide Surge Arresters for Alternating-Current Systems Over 1000 Volts

Recommendation: Approve PAR for the revision of a standard until December 2027.

IEEE Power and Energy Society/Switchgear

P1860

Recommended Practice for Voltage Regulation and Reactive Power Compensation at 1 MV Alternating Current (ac) and Above

Recommendation: Approve PAR for the revision of a standard until December 2027. Abstain: Edwards

P1861

Recommended Practice for On-Site Acceptance Tests of Electrical Equipment and System Commissioning of 1 MV Alternating Current (ac) and Above

Recommendation: Approve PAR for the revision of a standard until December 2027. Abstain: Edwards

P1862

Recommended Practice for Overvoltage and Insulation Coordination of Transmission Systems at 1 MV Alternating Current (ac) and Above

Recommendation: Approve PAR for the revision of a standard until December 2027. Abstain: Edwards

PC37.12.1

Recommended Practice for Contents of Instruction Manual for Circuit Breakers Above 1000 V AC

Recommendation: Approve PAR for the revision of a standard until December 2027. Abstain: Edwards

IEEE Power and Energy Society/Transformers

PC57.153

Guide for Paralleling Regulating Transformers

Recommendation: Approve PAR for the revision of a standard until December 2027.

IEEE SA Board of Governors/Corporate Advisory Group

P1899
Guide for Basic Requirements for Line Commutated Converter High Voltage (800 kV and below) Direct Current Transmission Protection and Control Equipment

Recommendation: Approve PAR for the revision of a standard until December 2027.

Standards Committee Transfers

NesCom approved the following Standards and PARs to be transferred from Computer Society/Standards Activities Board Standards Committee (C/SAB) to Computer Society/Knowledge Engineering Standards Committee (C/KESC):

Standards:

2807-2022 Framework of Knowledge Graphs
2807.3-2022 Guide for Electric-Power-Oriented Knowledge Graph

PARs:

P2807.1 Standard for Technical Requirements and Evaluation of Knowledge Graphs
P2807.4 Guide for Scientific Knowledge Graphs
P2807.5 Guide for Medical Clinical Diagnosis and Treatment Oriented Knowledge Graphs
P2807.6 Guide for K-12 Educational Knowledge Graphs
P2807.7 Guide for Open Domain Knowledge Graph Publishing and Crowdsourcing Service
P2807.8 Standard for Knowledge Exchange Protocol with Knowledge Fusion Among Knowledge Graphs

NesCom approved the transfer of P7017 from Robotics and Automation Society/Standing Committee for Standards (RAS/SC) to Society on Social Implications of Technology/Social Implications of Technology Standards Committee (SSIT/SC)

NesCom approved the transfer of 1044-2009 from Computer Society/Software & Systems Engineering Standards Committee (CS/S2ESC) to Reliability Society Standards Committee (RS/SC)