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

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**IEEE SA Standards Board New Standards Committee (NesCom) Recommendations**

[SASB Approval Date: 08 November 2023]

[All votes unanimous unless noted otherwise.]
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 (HMI)s 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.
Guide for Testing Mechanical Acoustic Imaging of High Voltage Reactors  
**Recommendation:** Approve request for an extension until December 2025.  

Guide for Overhead Transmission Lines with Composite-Insulated-Crossarm Supports  
**Recommendation:** Approve request for an extension until December 2025.  

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.  

**IEEE Computer Society/Software & Systems Engineering Standards Committee**  
P3161.6  
Standard for Storage System of Digital Retina Systems  
**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**

**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)