

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

[SASB approval date: 08-Dec-2021]

[All votes unanimous unless noted otherwise.]

### Withdrawal Requests

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

##### P3007.1

Recommended Practice for the Operation and Management of Industrial and Commercial Power Systems

**Recommendation:** Approve PAR withdrawal

##### P3007.3

Recommended Practice for Electrical Safety in Industrial and Commercial Power Systems

**Recommendation:** Approve PAR withdrawal

#### IEEE Instrumentation and Measurement Society/TC4 - High Frequency Measurement

##### P287

Standard for Precision Coaxial Connectors (DC-110 GHz)

**Recommendation:** Approve PAR withdrawal

### Modified PARs

#### IEEE Computer Society/Functional Safety Standards Committee

##### P2851

Standard for Functional Safety Data Format for Interoperability within the Dependability Lifecycle

**Recommendation:** Approve modified PAR until December 31, 2023

#### IEEE Computer Society/Software & Systems Engineering Standards Committee

##### P29119-1

ISO/IEC/IEEE International Standard - Software and systems engineering --Software testing --Part 1:General concepts

**Recommendation:** Approve modified PAR until December 31, 2023

#### IEEE Engineering in Medicine and Biology Society/IEEE 11073 Standards Committee

##### P11073-10725

Health Informatics -- Device Interoperability -- Part 10725: Point-of-Care Medical Device Communication -- Device Specialization - Suction and Irrigation Pump

**Recommendation:** Approve modified PAR until December 31, 2023

#### IEEE Power and Energy Society/Insulated Conductors

##### P1202

Standard for Testing Flame-Propagation and Smoke Generation of Cables

**Recommendation:** Approve modified PAR until December 31, 2022

##### P2417

Guide for Early Detection, Mitigation, Preventative Measures, and Response to Smoke, Fire, and Explosions in Underground Electrical Structures

**Recommendation:** Approve modified PAR until December 31, 2022

#### IEEE Power and Energy Society/Power System Relaying and Control

##### PC37.249

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

**Recommendation:** Approve modified PAR until December 31, 2021

### Extension Requests

#### IEEE Aerospace and Electronic Systems Society/Gyro Accelerometer Panel

##### P1780

Standard for the Specification of Inertial Measurement Units (IMU)

**Recommendation:** Approve request for an extension until December 2022

#### IEEE Communications Society/Mobile Communication Networks Standards Committee

##### P1932.1

Standard for Licensed/Unlicensed Spectrum Interoperability in Wireless Mobile Networks

**Recommendation:** Approve request for an extension until December 2023

#### IEEE Communications Society/Virtualized and Software Defined Networks, and Services

## Standards Committee

### P2784

Guide for the Technology and Process Framework for Planning a Smart City  
**Recommendation:** Approve request for an extension until December 2024

## IEEE Computer Society/Cloud Computing Standards Committee

### P2302

Standard for Intercloud Interoperability and Federation (SIIF)  
**Recommendation:** Approve request for an extension until December 2022

## IEEE Computer Society/LAN/MAN Standards Committee

### P802.1ABcu

Standard for Local and Metropolitan Area Networks - Station and Media Access Control Connectivity Discovery  
Amendment: YANG Data Model  
**Recommendation:** Approve request for an extension until December 2022

### P802.1ACct

Standard for Local and Metropolitan Area Networks -- Media Access Control (MAC) Service Definition Amendment  
Support for IEEE Std 802.15.3  
**Recommendation:** Approve request for an extension until December 2022

## IEEE Computer Society/Standards Activities Board

### P3333.1.3

Standard for the Deep Learning-Based Assessment of Visual Experience Based on Human Factors  
**Recommendation:** Approve request for an extension until December 2022

### P7130

Standard for Quantum Technologies Definitions  
**Recommendation:** Approve request for an extension until December 2023

## IEEE Consumer Technology Society/Standards Committee

### P3141

Trial-Use Standard for 3D Body Processing  
**Recommendation:** Approve request for an extension until December 2024

## IEEE Electromagnetic Compatibility Society/Standards Development Committee

### P2717

Passive Intermodulation Test Methods for Wireless Systems in Low Noise Environments  
**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 2022

## IEEE Engineering in Medicine and Biology Society/Standards Committee

### P2650

Standard For Enabling Mobile Device Platforms To Be Used As Pre-Screening Audiometric Systems  
**Recommendation:** Approve request for an extension until December 2024

### P3333.2.5

Standard for Bio-CAD File Format for Medical Three-Dimensional (3D) Printing  
**Recommendation:** Disapprove request for an extension (4 approve, 3 disapprove [Mohla, Ulema, Weber], 5 abstain [Hiertz, Hong, Wang, Wei, Zhong])

## IEEE Industrial Electronics Society/Industrial Electronics Society Standards Committee

### P21451-002

Recommended Practice for Low-Power Smart Transducers Applications  
**Recommendation:** Approve request for an extension until December 2024

## 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 2022

## IEEE Power and Energy Society/Electric Machinery

### P62.2

Guide for Diagnostic Field Testing of Electric Power Apparatus - Electrical Machinery  
**Recommendation:** Approve request for an extension until December 2024

### P97

Diagnostic Test Methods for testing the Insulation of AC Electric Machinery Using Direct Voltage  
**Recommendation:** Approve request for an extension until December 2024

**P433**

Recommended Practice for Insulation Testing of AC Electric Machinery with High Voltage Rating up to 30 kV at Very Low Frequency

**Recommendation:** Approve request for an extension until December 2022

**P1553**

Standard for Voltage Endurance Testing of Form-Wound Coils and Bars for Hydrogenerators

**Recommendation:** Approve request for an extension until December 2022

**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 request for an extension until December 2023

**IEEE Power and Energy Society/Energy Development & Power Generation****P63198-2775**

Technical Guide for Smart Hydroelectric Power Plant

**Recommendation:** Approve request for an extension until December 2023

**IEEE Power and Energy Society/Energy Storage & Stationary Battery Committee****P1184**

Guide for Batteries for Uninterruptible Power Supply Systems

**Recommendation:** Approve request for an extension until December 2022

**P2685**

Recommended Practice for Energy Storage for Stationary Engine-Starting Systems

**Recommendation:** Approve request for an extension until December 2023

**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 2022

**P634**

Standard for Cable-Penetration Fire Stop Qualification Test

**Recommendation:** Approve request for an extension until December 2023

**P1614**

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

**Recommendation:** Approve request for an extension until December 2023

**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 2022

**IEEE Power and Energy Society/Power System Communications and Cybersecurity****P1595**

Standard for Testing and Performance for Optical Phase Conductor (OPPC) for Use on Electrical Utility Power Lines

**Recommendation:** Approve request for an extension until December 2022

**P1711.1**

Standard for a Cryptographic Protocol for Cyber Security of Substation Serial Links: Substation Serial Protection Protocol

**Recommendation:** Approve request for an extension until December 2023

**IEEE Power and Energy Society/Power System Relaying and Control****C37.235**

Guide for the Application of Rogowski Coils Used for Protective Relaying Purposes

**Recommendation:** Approve request for an extension until December 2022

**P1646**

Standard Communication Delivery Time Performance Requirements for Electric Power Substation Automation

**Recommendation:** Approve request for an extension until December 2023

**PC37.90.2**

Standard for Relays, Relay Systems, and Control Devices used for Protection and Control of Electric Power Apparatus – Radiated Electromagnetic Interference Withstand Capability Requirements and Tests

**Recommendation:** Approve request for an extension until December 2023

**PC37.110**

Guide for the Application of Current Transformers Used for Protective Relaying Purposes

**Recommendation:** Approve request for an extension until December 2023

**PC37.249**

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

**Recommendation:** Approve request for an extension until December 2022

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

#### **P80**

Guide for Safety in AC Substation Grounding

**Recommendation:** Approve request for an extension until December 2023

#### **P81**

Guide for Measuring Earth Resistivity, Ground Impedance, and Earth Surface Potentials of a Grounding System

**Recommendation:** Approve request for an extension until December 2023

#### **P980**

Guide for Containment and Control of Oil Spills in Substations

**Recommendation:** Approve request for an extension until December 2022

#### **P1127**

Guide for the Design, Construction, and Operation of Electric Power Substations for Community Acceptance and Environmental Compatibility

**Recommendation:** Approve request for an extension until December 2023

### **IEEE Power and Energy Society/Surge Protective Devices/High Voltage**

#### **PC62.82.2**

Guide for the Application of Insulation Coordination

**Recommendation:** Approve request for an extension until December 2022

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

#### **PC62.230**

Guide for Surge Protection of Electric Vehicle Infrastructure

**Recommendation:** Approve request for an extension until December 2022

### **IEEE Power and Energy Society/Transformers**

#### **P63253-5713-8**

Standard Requirements for Station Service Voltage Transformers

**Recommendation:** Approve request for an extension until December 2023

#### **PC57.12.80**

Standard Terminology for Power and Distribution Transformers

**Recommendation:** Approve request for an extension until December 2023

#### **PC57.13.2**

Standard for Conformance Test Procedure for Instrument Transformers

**Recommendation:** Approve request for an extension until December 2023

#### **PC57.124**

Recommended Practice for the Detection of Partial Discharge and the Measurement of Apparent Charge in Dry-Type Transformers

**Recommendation:** Approve request for an extension until December 2023

#### **PC57.150**

Guide for the Transportation of Transformers and Reactors Rated 10,000 kVA or Higher

**Recommendation:** Approve request for an extension until December 2023

#### **PC57.165**

Guide for Temperature Measurements for Liquid Immersed Transformers and Reactors

**Recommendation:** Approve request for an extension until December 2023

### **IEEE Power and Energy Society/Transmission and Distribution**

#### **P1368**

Guide for Aeolian Vibration Field Measurements of Overhead Conductors

**Recommendation:** Approve request for an extension until December 2023

#### **P1453**

Standard for Measurement and Limits of Voltage Fluctuations and Associated Light Flicker on AC Power Systems

**Recommendation:** Approve request for an extension until December 2022

### **IEEE Robotics and Automation Society/Standing Committee for Standards**

#### **P7008**

Standard for Ethically Driven Nudging for Robotic, Intelligent and Autonomous Systems

**Recommendation:** Approve request for an extension until December 2023

### **IEEE Society on Social Implications of Technology/Social Implications of Technology Standards Committee**

#### **P7011**

Standard for the Process of Identifying and Rating the Trustworthiness of News Sources

**Recommendation:** Approve request for an extension until December 2023

**IEEE-SASB Coordinating Committees/SCC31 - Automatic Meter Reading and Energy Management**

**P1704**

Standard for Utility Industry End Device Communications Module

**Recommendation:** Approve request for an extension until December 2022

**IEEE-SASB Coordinating Committees/SCC39 - International Committee on Electromagnetic Safety**

**P63195-1**

Measurement procedure for the assessment of power density of human exposure to radio frequency fields from wireless devices operating in close proximity to the head and body - Frequency range of 6 GHz to 300 GHz

**Recommendation:** Approve request for an extension until December 2022

**P63195-2**

The assessment of power density of human exposure to radio frequency fields from wireless devices in close proximity to the head and body, part 2: Computational procedure (frequency range of 6 GHz to 300 GHz)

**Recommendation:** Approve request for an extension until December 2022

**New PARs**

**IEEE Computer Society/Cybersecurity and Privacy Standards Committee**

**P3117**

Standard for Interworking Framework for Privacy-Preserving Computation

**Recommendation:** Approve new PAR until December 2025

**IEEE Computer Society/LAN/MAN Standards Committee**

**P802.3df**

Standard for Ethernet

Amendment: Media Access Control Parameters, 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 2025

**IEEE Computer Society/Software & Systems Engineering Standards Committee**

**P3131**

Recommended Practice for Data Engineering with Heterogeneous Ecosystems and Data Sources for Efficient Data Processing, Management, and Consumption

**Recommendation:** Approve new PAR until December 2025

**IEEE Computer Society/Standards Activities Board**

**P2888.5**

Standard for Virtual Training System Evaluation Methods

**Recommendation:** Approve new PAR until December 2025

**P2888.6**

Standard for Holographic Visualization for Interfacing Cyber and Physical Worlds

**Recommendation:** Approve new PAR until December 2025

**P3079.3**

Standard for a Framework for Evaluating the Quality of Digital Humans

**Recommendation:** Approve new PAR until December 2025

**IEEE Engineering in Medicine and Biology Society/Standards Committee**

**P3135**

Standard for Specifying Requirements for Neurofeedback Systems Design

**Recommendation:** Approve new PAR until December 2025

**IEEE Industrial Electronics Society/Industrial Electronics Society Standards Committee**

**P3137**

Standard for Automotive Electronics Product Inspection Equipment

**Recommendation:** Approve new PAR until December 2025

**P3138**

Standard for General Requirements of Chip Visual Inspection in Surface Mount Industry

**Recommendation:** Approve new PAR until December 2025

**IEEE Microwave Theory and Techniques Society/Standards Coordinating Committee**

**P3136**

Standard for a Universal Waveguide Interface for Frequencies of 60 GHz and Above

**Recommendation:** Approve new PAR until December 2025

**IEEE Photonics Society/Standards Committee**

**P3112**

Standard for Electronic Photonic Design Automation – Open Data Formats – Terminology and Definitions

**Recommendation:** Approve new PAR until December 2025

**IEEE Power and Energy Society/Substations**

**PC37.431.40**

Standard for Functional Specifications of Medium (1 kV to 69 kV) Voltage Series and Shunt Electronic Devices for Dynamic Voltage Compensation

**Recommendation:** Approve new PAR until December 2025

**IEEE Power and Energy Society/Switchgear**

**PC37.04a**

Standard for Ratings and Requirements for AC High-Voltage Circuit Breakers with Rated Maximum Voltage Above 1000 V

Amendment: Changes to construction requirements and clarification of certain related required capabilities

**Recommendation:** Approve new PAR until December 2025

**PC37.09a**

Standard Test Procedures for AC High-Voltage Circuit Breakers with Rated Maximum Voltage Above 1000 V

Amendment: Modifications to test procedures

**Recommendation:** Approve new PAR until December 2025

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

**P3139**

Guide for Power Quality Data Analytics

**Recommendation:** Approve new PAR until December 2025

**IEEE Society on Social Implications of Technology/Social Implications of Technology Standards Committee**

**P7030**

Recommended Practice for Ethical Assessment of Extended Reality (XR) Technologies

**Recommendation:** Approve new PAR until December 2025

**PARs for the Revision of Standards**

**IEEE Computer Society/Design Automation**

**P1076**

Standard for VHDL Language Reference Manual

**Recommendation:** Approve PAR for the revision of a standard until December 2025

**IEEE Computer Society/LAN/MAN Standards Committee**

**P802.15.3**

Standard for Wireless Multi-Media Networks

**Recommendation:** Approve PAR for the revision of a standard until December 2025

**IEEE Power and Energy Society/Power System Communications and Cybersecurity**

**P367**

Recommended Practice for Determining the Electric Power Station Ground Potential Rise and Induced Voltage from a Power Fault

**Recommendation:** Approve PAR for the revision of a standard until December 2025

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

**PC37.96**

Guide for AC Motor Protection

**Recommendation:** Approve PAR for the revision of a standard until December 2025

**PC37.232**

Standard for Common Format for Naming Time Sequence Data Files (COMNAME)

**Recommendation:** Approve PAR for the revision of a standard until December 2025

**PC37.243**

Guide for Application of Line Current Differential Protection Using Digital Communications

**Recommendation:** Approve PAR for the revision of a standard until December 2025

**IEEE Power and Energy Society/Switchgear**

**P62271-37-082**

High-voltage Switchgear and Controlgear - Part 37-082: Standard Practice for the Measurement of Sound Pressure Levels on Alternating Current Circuit-breakers

**Recommendation:** Approve PAR for the revision of a standard until December 2025 (11 approve, 0 disapprove, 1 abstain [Edwards])

**PC37.20.10**

Standard Definitions for AC (52 kV and below) and DC (3.2 kV and below) Switchgear Assemblies

**Recommendation:** Approve PAR for the revision of a standard until December 2025 (11 approve, 0 disapprove, 1 abstain [Edwards])

**PC37.010**

Application Guide for AC High-Voltage Circuit Breakers > 1000 Vac Rated on a Symmetrical Current Basis

**Recommendation:** Approve PAR for the revision of a standard until December 2025 (11 approve, 0 disapprove, 1 abstain [Edwards])

**PC37.016**

Standard for AC High Voltage Circuit Switchers Rated 15.5 kV through 245 kV

**Recommendation:** Approve PAR for the revision of a standard until December 2025 (11 approve, 0 disapprove, 1 abstain [Edwards])

**P2048.6** (CTSoc/VRARSC)

Standard for Virtual Reality and Augmented Reality: Immersive User Interface

(New PAR)

**P2048.7** (CTSoc/VRARSC)

Standard for Virtual Reality and Augmented Reality: Map for Virtual Objects in the Real World

(New PAR)

**P2048.8** (CTSoc/VRARSC)

Standard for Virtual Reality and Augmented Reality: Interoperability between Virtual Objects and the Real World

(New PAR)

**P2048.9** (CTSoc/VRARSC)

Standard for Virtual Reality and Augmented Reality: Immersive Audio Taxonomy and Quality Metrics

(New PAR)

**P2048.10** (CTSoc/VRARSC)

Standard for Virtual Reality and Augmented Reality: Immersive Audio File and Stream Formats

(New PAR)

**P2048.11** (CTSoc/VRARSC)

Standard for Virtual Reality and Augmented Reality: In-Vehicle Augmented Reality

(New PAR)

**P2048.12** (CTSoc/VRARSC)

Standard for Virtual Reality and Augmented Reality: Content Ratings and Descriptors

(New PAR)

**P3333.2.5** (EMB/Std Com)

Standard for Bio-CAD File Format for Medical Three-Dimensional (3D) Printing

(New PAR)

**P1814** (IAS/PCI)

Recommended Practice for Electrical System Design Techniques to Improve Electrical Safety

(New PAR)

**P1375** (PE/ESSB)

Guide for the Protection of Stationary Battery Systems

(Revision PAR)



**P2776** (PE/IC)

Guide for Specifying and Selecting Cables for Nuclear Facilities

(New PAR)

**P837-2014/Cor 1** (PE/SUB)

Standard for Qualifying Permanent Connections Used in Substation Grounding - Corrigendum 1:

Correct EMF Current Value for 5/8 Ground Rod

(New PAR)

**P947** (SASB/SCC14)

Guide for Identification of Alternative Metric Devices for Valves, Fittings, Threads, Flanges

(New PAR)

**P2510** (SEN/SC)

Standard for Establishing Quality of Data Sensor Parameters in the Internet of Things Environment

(New PAR)

**P1883** (VT/RTSC)

Recommended Practice for Electrical and Electro-Mechanical Bench Test Equipment (BTE) for Transit Rail Projects

(New PAR)

**P1884** (VT/RTSC)

Guide for Stray Current/Corrosion Mitigation for DC Rail Transit Systems

(New PAR)

## Standards Committee Changes

Current Standards Committee for the following PARs: C/SAB; New Standards Committee: C/OGSC

**P2946** 'Guide for Electronic Sports (Esports) Integrity'

**P2947** 'Guide for Broadcasting Electronic Sports (Esports) Events'

**P2948** 'Standard for Framework and Definitions for Cloud Gaming'

**P2949** 'Recommended Practice for the Evaluation of Cloud Gaming User Experiences'