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| --- | --- |
| Project | **Human Factor for Immersive Content Working Group**<<http://sites.ieee.org/sagroups-3079/> **>** |
| Title | **21-Sep\_2020 IEEE-SA NesCom Recommendations** |
| DCN | **3079-20-0046-00-0000** |
| Date Submitted | **October 12, 2020** |
| Source(s) | **Jeong, Sangkwon Peter** ceo@joyfun.kr **(JoyFun Inc.,)****Seo, Dong Il Dillon** mailto::dillon.seo@dtcp.capital **(DTCP)** |
| Re: |  |
| Abstract | This document is the summary of the NesCom meeting held on Septmeber 21, 2020. It contains the list of projects submitted to NesCom for PAR approval and the recommendations from IEEE-SASB. Among the list, IEEE 3079.1 and 3079.2 PAR approvals are included |
| Purpose | The purpose of this document is to review the new PARs submitted to NesCom and the feedback provided by the committee so IEEE 3079 WG participating members gain the insight on how to approach to NesCom for future new projects |
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| Patent Policy | The contributor is familiar with IEEE patent policy, as stated in [Section 6 of the IEEE-SA Standards Board bylaws](http://standards.ieee.org/guides/opman/sect6.html#6.3) <[http://standards.ieee.org/guides/bylaws/sect6-7.html#6](http://127.0.0.1:4664/cache?event_id=757737&schema_id=1&s=5X0vID10lu_E6yrIkWkNd4Wz2H8&q=hancock)> and in *Understanding Patent Issues During IEEE Standards Development* <http://standards.ieee.org/board/pat/faq.pdf> |

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

**Recommendations**

[SASB approval date: 24-Sep-2020]

[All votes unanimous unless noted otherwise.]

**Withdrawal Requests**

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

**P802.19.2**

Recommended Practice for Local and Metropolitan Area Networks - Part 19: Coexistence of Unlicensed Wireless Systems in a Vehicular Environment

**Recommendation:** Approve PAR withdrawal

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

**P11073-10316**

Trial-Use Health Informatics -- Device Interoperability -- Part 10316: Point-of-Care Medical Device

Communication -- Device Specialization -- Dialysis Device

**Recommendation:** Approve PAR withdrawal

**IEEE Instrumentation and Measurement Society/TC9 - Sensor Technology**

**P1451.1**

Standard for Smart Transducer Interface for Sensors and Actuators - Common Network Services

**Recommendation:** Approve PAR withdrawal

**P1451.2**

ISO/IEC/IEEE Standard for Information Technology -- Smart Transducer Interface for Sensors and Actuators --Part 2: Serial Point-to-Point Interface

**Recommendation:** Approve PAR withdrawal

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

**Safety**

**PC95.4**

Recommended Practice for Determining Safe Distances From Radio Frequency Transmitting Antennas When Using Electric Blasting Caps During Explosive Operations

**Recommendation:** Approve PAR withdrawal

**Modified PARs**

**IEEE Communications Society/Access and Core Networks Standards Committee**

**P1910.1**

Standard for Meshed Tree Bridging with Loop Free Forwarding

**Recommendation:** Approve modified PAR

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

**P1920.1**

Aerial Communications and Networking Standards

**Recommendation:** Approve modified PAR

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

**P12207-2**

Systems and Software Engineering -- Software Life Cycle Processes -- Part 2: Relation and Mapping Between ISO/IEC/IEEE 12207:2017 and ISO/IEC/IEEE 12207:2008

**Recommendation:** Approve modified PAR

**IEEE Industry Applications Society/Petroleum & Chemical Industry**

**P1017.1**

Recommended Practice for Field Testing Electric Submersible Pump Cable

**Recommendation:** Approve modified PAR

**IEEE Instrumentation and Measurement Society/TC9 - Sensor Technology**

**P1451.99**

Standard for Harmonization of Internet of Things (IoT) Devices and Systems

**Recommendation:** Approve modified PAR

**IEEE Power and Energy Society/Nuclear Power Engineering**

**P387**

Nuclear Facilities – Electrical Power Systems – Part 387: Diesel Generator Units Applied as Standby Power Sources

**Recommendation:** Approve modified PAR

**P2411**

Human Factors Engineering Guide for the Validation of System Designs and Integrated Systems Operations at Nuclear Facilities

**Recommendation:** Approve modified PAR

**IEEE Power and Energy Society/Switchgear**

**PC37.04-2018/Cor 1**

Standard for Ratings and Requirements for AC High-Voltage Circuit Breakers with Rated Maximum Voltage Above 1000 V - Corrigendum 1

**Recommendation:** Approve modified PAR

**IEEE SA Board of Governors/Corporate Advisory Group**

**P2777**

Recommended Practice for Operation of 300 MW to 600 MW Pulverized Coal Fired Boiler

**Recommendation:** Approve modified PAR

**IEEE Vehicular Technology Society/Intelligent Transportation Systems**

**P1609.3**

Standard for Wireless Access in Vehicular Environments (WAVE) -- Networking Services

**Recommendation:** Approve modified PAR

**P2846**

Assumptions for Models in Safety-Related Automated Vehicle Behavior

**Recommendation:** Approve modified PAR

**Extension Requests**

**IEEE Antennas and Propagation Society/Antennas and Propagation Standards Committee**

**P149**

Recommended Practice for Antenna Measurements

**Recommendation:** Approve request for an extension until December 2021

**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 2022

**P1923.1**

Standard for Computation of Energy Efficiency Upper Bound for Apparatus Processing Communication Signal Waveforms

**Recommendation:** Approve request for an extension until December 2021

**P1924.1**

Recommended Practice for Developing Energy Efficient Power-Proportional Digital Architectures

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

**P1925.1**

Standard for Energy Efficient Dynamic Line Rate Transmission System

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

**P1926.1**

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

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

**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 2022

**P1928.1**

Standard for a Mechanism for Energy Efficient Virtual Machine Placement

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

**P1929.1**

An Architectural Framework for Energy Efficient Content Distribution

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

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

**P1918.1**

Tactile Internet: Application Scenarios, Definitions and Terminology, Architecture, Functions, and Technical Assumptions

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

**P1918.1.1**

Haptic Codecs for the Tactile Internet

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

**P1920.1**

Aerial Communications and Networking Standards

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

**P1931.1**

Standard for an Architectural Framework for Real-time Onsite Operations Facilitation (ROOF) for the Internet of Things

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

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

**P802.11ax**

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 Enhancements for High Efficiency WLAN

**Recommendation:** Approve request for an extension until December 2021

**P802.11ba**

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: Wake-up Radio Operation

**Recommendation:** Approve request for an extension until December 2021

**P802.15.22.3**

Standard for Spectrum Characterization and Occupancy Sensing

**Recommendation:** Defer request for an extension until the next NesCom meeting; based on whether

RevCom and the SASB do not approve the standard.

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

**P7002**

Data Privacy Process

**Recommendation:** Approve request for an extension until December 2021

**P42010**

Standard for Systems and Software Engineering -- Architecture Description

**Recommendation:** Approve request for an extension until December 2021

**IEEE Computer Society/Test Technology**

**P1687.1**

Standard for the Application of Interfaces and Controllers to Access 1687 IJTAG Networks Embedded Within Semiconductor Devices

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

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

**P11073-10406**

Health Informatics -- Device Interoperability -- Part 10406: Personal Health Device Communication – Device Specialization--Basic Electrocardiograph (ECG) (1- to 3-lead ECG)

**Recommendation:** Approve request for an extension until December 2022 (9 approve, 0 disapprove, 1

recuse [Zhong])

**P11073-10471**

Health Informatics -- Device Interoperability -- Part 10471: Personal Health Device Communication – Device Specialization--Independent Living Activity Hub

**Recommendation:** Approve request for an extension until December 2022 (9 approve, 0 disapprove, 1

recuse [Zhong])

**IEEE Industry Applications Society/Industrial & Commercial Power Systems Standards**

**Development Committee**

**P3001.9**

Recommended Practice for the Design of Power Systems Supplying Lighting Systems in Commercial and Industrial Facilities

**Recommendation:** Approve request for an extension until December 2022 (5 approve, 2 disapprove [Fathy, Wei], 3 abstain [Kulick, Wang, Winston])

**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 2022

**IEEE Power and Energy Society/Electric Machinery**

**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 2021

**P1812**

Guide for Testing Permanent Magnet Machines

**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 2022

**P1010**

Guide for Control of Hydroelectric Power Plants

**Recommendation:** Approve request for an extension until December 2021

**P1147**

Guide for the Rehabilitation of Hydroelectric Power Plants

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

**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 2022

**P2405**

Standard for the Design of Battery Chargers Used in Stationary Applications

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

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

**P1407**

Guide for Accelerated Aging Tests for 5 kV to 46 kV Extruded Electric Power Cables Using Water-Filled Tanks

**Recommendation:** Approve request for an extension until December 2021

**P2417**

Guide to Smoke, Fire and Explosions in Underground Electrical Structures

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

**P2740**

Guide for the Selection and Installation of Electrical Cables and Cable Systems in Hazardous (Classified)

Locations on Oil & Gas Land Drilling Rigs

**Recommendation:** Approve request for an extension until December 2021

**IEEE Power and Energy Society/Nuclear Power Engineering**

**P2411**

Human Factors Engineering Guide for the Validation of System Designs and Integrated Systems Operations at Nuclear Facilities

**Recommendation:** Approve request for an extension until December 2021

**P2421**

Guide for Designing and Developing Computer-Based Displays for Monitoring and Control of Nuclear Facilities

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

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

**P1122**

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

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

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

**P1613**

Standard for Environmental and Testing Requirements for Intelligent Electronic Devices (IEDs) Installed in Transmission and Distribution Facilities

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

**PC37.2**

Standard Electrical Power System Device Function Numbers, Acronyms, and Contact Designations

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

**PC37.242**

Guide for Synchronization, Calibration, Testing, and Installation of Phasor Measurement Units (PMUs) for Power System Protection and Control

**Recommendation:** Approve request for an extension until December 2021

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

**PC62.22**

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

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

**PC62.82.2**

Guide for the Application of Insulation Coordination

**Recommendation:** Approve request for an extension until December 2021

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

**PC62.42.2**

Guide for the Application of Surge-Protective Components in Surge Protective Devices and Equipment Ports - Part 2 Metal-Oxide Varistors (MOVs)

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

**PC62.220**

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

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

**IEEE Power and Energy Society/Switchgear**

**P62271-37-013**

IEEE/IEC International Standard for High-Voltage Switchgear and Controlgear -- Part 37-013: Alternating- Current Generator Circuit-Breakers

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

**IEEE Power and Energy Society/Transformers**

**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 2022

**PC57.164**

Guide for Establishing Short Circuit Withstand Capabilities of Liquid Immersed Power Transformers, Regulators, and Reactors

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

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

**P516**

Guide for Maintenance Methods on Energized Power Lines

**Recommendation:** Approve request for an extension until December 2021

**P1806**

Guide for Reliability Based Placement of Overhead and Underground Switching and Overcurrent Protection Equipment Up to and Including 38 kV

**Recommendation:** Approve request for an extension until December 2021

**P1885**

Guide for Assessing, Measuring and Verifying Volt-Var Control Optimization on Distribution Systems

**Recommendation:** Approve request for an extension until December 2021 (8 approve, 0 disapprove, 1

abstain [Hiertz])

**IEEE-SASB Coordinating Committees/SCC14 - Quantities, Units, and Letter Symbols**

**P1541**

Standard for Prefixes for Binary Multiples

**Recommendation:** Approve request for an extension until December 2021

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

**P1641**

Standard for Signal and Test Definition

**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 2021

**New PARs**

**IEEE Communications Society/Power Line Communications**

**P1901b**

Standard for Broadband over Power Line Networks: Medium Access Control and Physical Layer Specifications Amendment: Enhancements for Authentication and Authorization

**Recommendation:** Approve new PAR until December 2024

**IEEE Computer Society/Data Compression Standards Committee**

**P2941**

Standard for Artificial Intelligence (AI) Model Representation, Compression, Distribution and Management

**Recommendation:** Approve new PAR until December 2024 (6 approve, 0 disapprove, 4 abstain [Fathy,

Hiertz, Lu, Niu])

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

**P802.1ASdn**

Standard for Local and Metropolitan Area Networks - Timing and Synchronization for Time-Sensitive

Applications Amendment: YANG Data Model

**Recommendation:** Approve new PAR until December 2024

**P802.11bf**

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: Enhancements for Wireless Local Area Network (WLAN) Sensing

**Recommendation:** Approve new PAR until December 2024

**P802.15.4-2020/Cor 2**

Standard for Low-Rate Wireless Networks - Corrigendum 2:Correction of errors preventing backward

compatibility

**Recommendation:** Approve new PAR until December 2024

**P802.15.7a**

Standard for Local and Metropolitan Area Networks - Part 15.7: Short-Range Optical Wireless Communication

Amendment: Higher Speed, Longer Range Optical Camera Communication (OCC)

**Recommendation:** Approve new PAR until December 2024

**IEEE Computer Society/Learning Technology**

**P2247.4**

Recommended Practice for Ethically Aligned Design of Artificial Intelligence (AI) in Adaptive Instructional Systems

**Recommendation:** Approve new PAR until December 2024

**P2961**

Guide for an Architectural Framework and Application for Collaborative Edge Computing

**Recommendation:** Approve new PAR until December 2024

**IEEE Computer Society/Smart Manufacturing Standards Committee**

**P2806.1**

Standard for Connectivity Requirements of Digital Representation for Physical Objects in Factory Environments

**Recommendation:** Approve new PAR until December 2024

**P2934**

Standard for Logistics Operation Process in a Smart Factory

**Recommendation:** Approve new PAR until December 2024

**P2959**

Standard for Technical Requirements of Standard-Oriented Knowledge Graphs

**Recommendation:** Approve new PAR until December 2024

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

**P24748-6**

Systems and Software Engineering — Life Cycle Management — Part 6: Systems and Software Integration

**Recommendation:** Approve new PAR until December 2024

**IEEE Computer Society/Standards Activities Board**

**P2807.3**

Guide for Electric-Power-Oriented Knowledge Graph

**Recommendation:** Approve new PAR until December 2024

**P2874**

Standard for Spatial Web Protocol, Architecture and Governance

**Recommendation:** Approve new PAR until December 2024

**P2937**

Standard for Performance Benchmarking for AI Server Systems

**Recommendation:** Approve new PAR until December 2024 (9 approve, 0 disapprove, 1 abstain [Lu])

**P2946**

Guide for Electronic Sports (Esports) Integrity

**Recommendation:** Approve new PAR until December 2024

**P2947**

Guide for Broadcasting Electronic Sports (Esports) Events

**Recommendation:** Approve new PAR until December 2024

**P2948**

Standard for Framework and Definitions for Cloud Gaming

**Recommendation:** Approve new PAR until December 2024

**P2949**

Recommended Practice for the Evaluation of Cloud Gaming User Experiences

**Recommendation:** Approve new PAR until December 2024

**P2957**

Standard for a Reference Architecture for Big Data Governance and Metadata Management

**Recommendation:** Approve new PAR until December 2024

**P2963**

Data Formats for Smart Legal Contracts

**Recommendation:** Approve new PAR until December 2024

**P3079.1**

Motion to Photon (MTP) Latency in Virtual Environments

**Recommendation:** Approve new PAR until December 2024

**P3079.2**

Mixed Reality (MR) Standard Framework for Motion Learning

**Recommendation:** Approve new PAR until December 2024

**IEEE Computer Society/Test Technology**

**P2929**

Standard for System-level State Extraction for Functional Validation and Debug

**Recommendation:** Approve new PAR until December 2024

**IEEE Consumer Electronics Society/Smart Devices Standards Committee**

**P2951**

Technical Requirements and Evaluation Methods for Intelligent Levels of Smart Home Devices

**Recommendation:** Approve new PAR until December 2024

**P2953**

Standard for Technical Requirements for Industrial Smart Terminal Devices

**Recommendation:** Defer new PAR until the next NesCom meeting to provide time for comments to be

resolved. (6 approve, 0 disapprove, 4 abstain [Lu, Wang, Wei, Zhong])

**IEEE Consumer Electronics Society/Standards Committee**

**P2861.2**

Standard for Mobile Gaming Systems Integration Framework

**Recommendation:** Approve new PAR until December 2024

**P2861.3**

Standard for Haptic Interface Enhancement for Mobile Gaming

**Recommendation:** Approve new PAR until December 2024

**P2952**

Standard for Secure Computing Based on Trusted Execution Environment

**Recommendation:** Approve new PAR until December 2024

**IEEE Consumer Electronics Society/Virtual Reality and Augmented Reality Standards Committee**

**P2048.101**

Standard for Augmented Reality on Mobile Devices: General Requirements for Software Framework,

Components, and Integration

**Recommendation:** Approve new PAR until December 2024 (9 approve, 0 disapprove, 1 abstain [Hiertz])

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

**P11073-20601a**

Health Informatics -- Personal Health Device Communication - Part 20601: Application Profile – Optimized Exchange Protocol Amendment

**Recommendation:** Approve new PAR until December 2024 (9 approve, 0 disapprove, 1 recuse [Zhong])

**IEEE Industry Applications Society/Industrial Power Conversion Systems Department**

**P2943**

Energy Efficiency Test Methods for Three-Phase Variable Frequency Drive Systems

**Recommendation:** Approve new PAR until December 2024

**P2964**

Standard for Datasheet Parameters and Tests for Integrated Gate Drivers

**Recommendation:** Approve new PAR until December 2024

**IEEE Industry Applications Society/Petroleum & Chemical Industry**

**P80005-1a**

Utility Connections in Port -- Part 1: High Voltage Shore Connection (HVSC) Systems -- General Requirements

Amendment 1 to IEC/IEEE 80005-1 ED2

**Recommendation:** Approve new PAR until December 2024

**IEEE Instrumentation and Measurement Society/TC9 - Sensor Technology**

**P1588a**

Standard for a Precision Clock Synchronization Protocol for Networked Measurement and Control Systems

Amendment: Enhancements for Best Master Clock Algorithm (BMCA) Mechanisms

**Recommendation:** Approve new PAR until December 2024

**P1588b**

Standard for a Precision Clock Synchronization Protocol for Networked Measurement and Control Systems

Amendment: Addition of Precision Time Protocol (PTP) mapping for transport over Optical Transport Network

(OTN)

**Recommendation:** Approve new PAR until December 2024

**P1588c**

Standard for a Precision Clock Synchronization Protocol for Networked Measurement and Control Systems

Amendment: Clarification of Terminology

**Recommendation:** Approve new PAR until December 2024

**P1588d**

Standard for a Precision Clock Synchronization Protocol for Networked Measurement and Control Systems

Amendment: Guidelines for selecting and operating a Key Management System

**Recommendation:** Approve new PAR until December 2024

**P1588e**

Standard for a Precision Clock Synchronization Protocol for Networked Measurement and Control Systems

Amendment: MIB and YANG Data Models

**Recommendation:** Approve new PAR until December 2024

**P1588f**

Standard for a Precision Clock Synchronization Protocol for Networked Measurement and Control Systems

Amendment: Enhancements for latency and/or asymmetry calibration

**Recommendation:** Approve new PAR until December 2024

**IEEE Power and Energy Society/Analytic Methods for Power Systems**

**P2882**

Guide for Validation of Software Models of Renewable and Conventional Generators for Power System Studies

**Recommendation:** Approve new PAR until December 2024

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

**P2962**

Recommended Practice for the Installation, Operation, Maintenance, Testing, and Replacement of Li-ion Batteries in Stationary Applications

**Recommendation:** Approve new PAR until December 2024

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

**P2960**

Guide for Testing Equipment for Direct Current Electrical Energy Meters

**Recommendation:** Approve new PAR until December 2024

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

**PC62.43.1a**

Guide for Surge Protectors and Surge Protective Circuits Used in Information and Communication Technology Circuits (ICT), Including Smart Grid--Part 1 Applications

Amendment: PC62.43.1™ Draft Guide for Surge Protectors and Surge Protective Circuits Used in Information and Communication Technology Circuits (ICT), Including Smart Grid—Part 1 Applications

**Recommendation:** Approve new PAR until December 2024

**IEEE Power and Energy Society/Switchgear**

**PC37.20.7-2017/Cor 1**

Guide for Testing Switchgear Rated Up to 52 kV for Internal Arcing Faults - Corrigendum 1: IEEE Guide for Testing Switchgear Rated Up to 52 kV for Internal Arcing Faults - Corrigendum 1

**Recommendation:** Approve new PAR until December 2024

**PC37.30.7**

Standard Requirements for High-Voltage Air Switches Rated Above 1000 Vdc

**Recommendation:** Approve new PAR until December 2024

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

**P2030.13**

Guide for Electric Transportation Fast Charging Station Management System Functional Specification

**Recommendation:** Approve new PAR until December 2024

**P2938**

Guide for Economic Loss Evaluation of Sensitive Industrial Customers Caused by Voltage Sags

**Recommendation:** Approve new PAR until December 2024

**P2939**

Guide for the Joint Use of Electric Power Transmission & Distribution (T&D) Facilities and Equipment

**Recommendation:** Approve new PAR until December 2024

**P2954**

Recommended Practice for Overhead Transmission Line Design

**Recommendation:** Approve new PAR until December 2024

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

**P2940**

Standard for Measuring Robot Agility

**Recommendation:** Approve new PAR until December 2024

**IEEE SA Board of Governors/Corporate Advisory Group**

**P2950**

Electric Traction System for High Speed Electric Multiple Units (EMUs)

**Recommendation:** Approve new PAR until December 2024

**P2956**

Test Method for Surface Transfer Impedance of Shielded Power Cables and Connectors for Rail Vehicles

**Recommendation:** Approve new PAR until December 2024

**IEEE Sensors Council/Standards Committee**

**P2520.1**

Standard for Baseline Performance for Odor Analysis Devices and Systems

**Recommendation:** Approve new PAR until December 2024

**P2520.2.1**

Standard for Machine Olfaction Devices and Systems Used for General Outdoor Odor Monitoring

**Recommendation:** Approve new PAR until December 2024

**P2520.2.2**

Standard for Landfill Odor Monitoring Devices and Systems

**Recommendation:** Approve new PAR until December 2024

**P2520.3.1**

Standard for Machine Olfaction Devices and Systems Used in General Indoor Air Quality Monitoring

**Recommendation:** Approve new PAR until December 2024

**P2520.4.1**

Standard for Performance of Machine Olfaction Devices and Systems for Chemical Manufacture

**Recommendation:** Approve new PAR until December 2024

**IEEE Vehicular Technology Society/Automated Vehicles Standards Committee**

**P2936**

Standard for Test Methods of Automotive Lidar Performance

**Recommendation:** Approve new PAR until December 2024

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

**Safety**

**P62704-2a**

Standard for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body from Wireless Communications Devices, 30 MHz to 6 GHz -- Part 2: Specific Requirements for Finite Difference Time Domain (FDTD) Modelling of Exposure from Vehicle Mounted Antennas

Amendment 1

**Recommendation:** Approve new PAR until December 2024

**PARs for the Revision of Standards**

**IEEE Communications Society/Standards Development Board**

**P269**

Standard for Evaluating Electroacoustic Performance of Communication Devices

**Recommendation:** Approve PAR for the revision of a standard until December 2024

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

**P802.3**

Standard for Ethernet

**Recommendation:** Approve PAR for the revision of a standard until December 2024

**IEEE Computer Society/Microprocessor Standards Committee**

**P1394**

Standard for a High-Performance Serial Bus

**Recommendation:** Approve PAR for the revision of a standard until December 2024 (8 approve, 0

disapprove, 2 abstain [Fathy, Hiertz])

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

**P15288**

Systems and Software engineering -- System Life Cycle Processes

**Recommendation:** Approve PAR for the revision of a standard until December 2024

**P23026**

Systems and Software Engineering -- Engineering and Management of Websites for Systems, Software, and Services Information

**Recommendation:** Approve PAR for the revision of a standard until December 2024

**P26531**

Systems and Software Engineering -- Content Management for Product Life Cycle, User, and Service

Management Documentation

**Recommendation:** Approve PAR for the revision of a standard until December 2024

**IEEE Computer Society/Test Technology**

**P1149.4**

Standard for a Mixed-Signal Test Bus

**Recommendation:** Approve PAR for the revision of a standard until December 2024

**P1581**

Standard for Static Component Interconnection Test Protocol and Architecture

**Recommendation:** Approve PAR for the revision of a standard until December 2024

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

**P1300**

Guide for Cable Connections for Gas-Insulated Substations

**Recommendation:** Approve PAR for the revision of a standard until December 2024

**P1493**

Guide for the Evaluation of Solvents Used for Cleaning Electrical Cables and Accessories

**Recommendation:** Approve PAR for the revision of a standard until December 2024

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

**PC37.90.1**

Standard for Relays, Relay Systems, and Control Devices used for Protection and Control of Electric Power Apparatus-Surge Withstand Capability (SWC) and Electrical Fast Transient (EFT) Requirements and Tests

**Recommendation:** Approve PAR for the revision of a standard until December 2024

**PC37.90.3**

Standard Electrostatic Discharge Tests for Protective Relays

**Recommendation:** Approve PAR for the revision of a standard until December 2024

**PC37.95**

Guide for Protective Relaying of Utility-Consumer Interconnections

**Recommendation:** Defer PAR for the revision of a standard until the next NesCom meeting based on lack

of replies by the Chair.

**PC37.113**

Guide for Protective Relay Applications to Transmission Lines

**Recommendation:** Approve PAR for the revision of a standard until December 2024

**PC37.114**

Guide for Determining Fault Location on AC Transmission and Distribution Lines

**Recommendation:** Approve PAR for the revision of a standard until December 2024

**IEEE Power and Energy Society/Switchgear**

**PC37.20.7**

Guide for Testing Switchgear Rated Up to 52 kV for Internal Arcing Faults

**Recommendation:** Approve PAR for the revision of a standard until December 2024

**PC37.23**

Standard for Metal-Enclosed Bus

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

**P1159.3**

Recommended Practice for Power Quality Data Interchange Format (PQDIF)

**Recommendation:** Approve PAR for the revision of a standard until December 2024

**P1283**

Guide for Determining the Effects of Elevated Temperature Operation on Conductors, Connectors, and Accessories

**Recommendation:** Approve PAR for the revision of a standard until December 2024

**P1409**

Guide for Technology Methods for Power Quality Improvement in Electric Power Systems

**Recommendation:** Approve PAR for the revision of a standard until December 2024

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

**Safety**

**P62704-1**

Standard for Determining the Peak Spatial Average Specific Absorption Rate (SAR) in the Human Body from Wireless Communications Devices, 30 MHz to 6 GHz. Part 1: General Requirements for using the Finite

Difference Time Domain (FDTD) Method for SAR Calculations

**Recommendation:** Approve PAR for the revision of a standard until December 2024