

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

**Meeting Minutes**

4 September 2019

9:00 a.m. - 10:30 a.m. ET

Teleconference

Members Present:

Alan Berkema  
Ted Burse  
Stephen Dukes  
Grace Gu  
John Kulick  
Joseph Levy  
Kevin Lu  
Dorothy Stanley, Chair  
Mehmet Ulema  
Sha Wei  
Philip Winston  
Jingyi Zhou

Members Absent:

Feng Wu

Guests:

Gary Hoffman  
David Krohn  
Robby Robson

IEEE Staff:

Christy Bahn  
Adrien Barmaksiz  
Matt Ceglia  
Karen Evangelista  
Jonathan Goldberg  
Jodi Haasz  
Yvette Ho Sang  
Soo Kim  
Michael Kipness  
Vanessa Lalitte  
Ashley Moran  
Nikoi Nikoi  
Dave Ringle  
Pat Roder  
Jennifer Santulli  
Erin Spiewak  
Tom Thompson  
Lisa Weisser, Administrator  
Malia Zaman

**[Unless otherwise noted, all votes are unanimous]**

**1. CALL TO ORDER AND INTRODUCTIONS**

Chair Stanley called the meeting to order at 9:00 a.m. ET. There was a round of introductions by all present.

**2. REVIEW AND APPROVAL OF THE AGENDA**

The agenda was reviewed and Chair Stanley asked if there were any changes to be made. There were none.

**A motion was made to approve the 4 September 2019 NesCom meeting agenda, including all items on the consent agenda. In the absence of objection, the motion was approved.**

**2.1 Consent Agenda**

### 2.1.1 Approval of Minutes of the 12 June 2019 NesCom Meeting

### 2.1.2 Withdrawal Requests

#### IEEE Computer Society/Microprocessor Standards Committee

##### **P1394**

Standard for a High-Performance Serial Bus

**Recommendation: Approve PAR withdrawal**

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

##### **P1723.1**

Open Group Standard SOA Reference Architecture

**Recommendation: Approve PAR withdrawal**

##### **P1723.2**

The Reference Architecture Foundation for Service Oriented Architecture Version 1.0

**Recommendation: Approve PAR withdrawal**

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

##### **P11073-10424**

Health Informatics - Personal Health Device Communication - Part 10424: Device Specialization - Sleep Apnoea Breathing Therapy Equipment (SABTE)

**Recommendation: Approve PAR withdrawal**

### 2.1.3 Project Number Change Request for P2809 'Nuclear Power Plants - Instrumentation, Control and Electrical Power Systems Important to Safety - Common Cause Failure Systems Analysis and Diversity'

NB: The approval of this number change request was included in the approval of the agenda and consent agenda. The PAR number has been changed from P2809 to P63160.

### 2.1.4 Standards Committee Change Request for C37.105 'Standard for Qualifying Class 1E Protective Relays and Auxiliaries for Nuclear Power Generating Stations' and C37.98 'Standard for Seismic Qualification Testing of Protective Relays and Auxiliaries for Nuclear Facilities'

NB: The approval of this Standards Committee change request was included in the approval of the agenda and consent agenda. The Standards Committee for C37.105 and C37.98 has been changed from PE/PSRC to PE/NPE.

## 3 PARS FOR DISCUSSION

### 3.1 Modified PARs

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

##### **P21840**

Systems and software engineering - Guidelines for the utilization of ISO/IEC/IEEE 15288 in the context of system of systems (SOS)

**Recommendation: Approve modified PAR**

#### IEEE Communications Society/Dynamic Spectrum Access Networks Standards Committee

**P1900.5.2a**

Standard Method for Modeling Spectrum Consumption - Amendment: Adding JavaScript Object Notation (JSON) and XML Schema Definition (XSD) and Validation Rules

**Recommendation: Approve modified PAR**

IEEE Industry Applications Society/Petroleum & Chemical Industry

**P1349**

Guide for the Application of Electric Machines in Zone 2 and Class I, Division 2 Hazardous (Classified) Locations

**Recommendation: Approve modified PAR**

**3.2 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 2020**

IEEE Computer Society/LAN/MAN Standards Committee

**P802.1AS**

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

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

**P802.1Qcj**

Standard for Local and Metropolitan Area Networks - Bridges and Bridged Networks Amendment: Automatic Attachment to Provider Backbone Bridging (PBB) services

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

**P802.15.22.3**

Standard for Spectrum Characterization and Occupancy Sensing

**Recommendation: Approve request for an extension until December 2020**

**P802E**

Recommended Practice for Privacy Considerations for IEEE 802 Technologies

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

IEEE Communications Society/Dynamic Spectrum Access Networks Standards Committee

**P1900.5.1**

Standard Policy Language for Dynamic Spectrum Access Systems

**Recommendation: Defer request for an extension until 6 November 2019. The extension request is deferred to see if the ballot pool is formed and balloting is initiated before the next NesCom meeting. (10 approve, 1 abstain [Ulema])**

**P1900.6b**

Standard for Spectrum Sensing Interfaces and Data Structures for Dynamic Spectrum Access and other Advanced Radio Communication Systems. Spectrum Database Interfaces Amendment

**Recommendation: Approve request for an extension until December 2020**

**IEEE Engineering in Medicine and Biology Society/IEEE 11073 Standards Committee****P11073-10420**

Health Informatics - Personal Health Device Communication Part 10420: Device Specialization - Body Composition Analyzer

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

**P11073-10426**

Health Informatics - Personal Health Device Communication - Device Specialization - Home Healthcare Environment Ventilator

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

**IEEE Engineering in Medicine and Biology Society/Standards Committee****P3333.2.5**

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

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

**IEEE Industry Applications Society/Technical Books Coordinating Committee****P3005.4**

Recommended Practice for Design and Operational Considerations for Improving the Reliability of Emergency and Stand-By Power Systems

**Recommendation: Approve request for an extension until December 2020**

**IEEE Industrial Electronics Society/Industrial Electronics Society Standards Committee****P2660.1**

Recommended Practices on Industrial Agents: Integration of Software Agents and Low Level Automation Functions

**Recommendation: Approve request for an extension until December 2020**

**IEEE Instrumentation and Measurement Society/TC4 - High Frequency Measurement****P287.2**

Recommended Practice for Precision Coaxial Connectors at RF, Microwave and Millimeter-wave Frequencies - Part 2: Test Procedures

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

**P287.3**

Recommended Practice for Precision Coaxial Connectors at RF, Microwave and Millimeter-wave Frequencies - Part 3: Connector Effects, Uncertainty Specifications and Recommendations for Performance

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

**IEEE Microwave Theory and Techniques Society/Standards Coordinating Committee****P1770**

Recommended Practice for the Usage of Terms Commonly Employed In the Field of Large-Signal Vector Network Analysis

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

IEEE Power and Energy Society/Energy Development & Power Generation

**P125**

Recommended Practice for Preparation of Equipment Specifications for Speed-Governing of Hydraulic Turbines Intended to Drive Electric Generators

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

IEEE Power and Energy Society/Electric Machinery

**P1553**

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

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

IEEE Power and Energy Society/Insulated Conductors

**P1406**

Guide for the Use of Gas-in-Fluid Analysis for Paper and Laminated Paper-Polypropylene Insulated Cable Systems

**Recommendation: Approve request for an extension until December 2020**

IEEE Power and Energy Society/Power System Relaying and Control

**PC37.91**

Guide for Protecting Power Transformers

**Recommendation: Approve request for an extension until December 2020**

**PC37.108**

Guide for the Protection of Secondary Network Systems

**Recommendation: Approve request for an extension until December 2020**

**PC37.110**

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

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

**PC37.230**

Guide for Protective Relay Applications to Distribution Lines

**Recommendation: Approve request for an extension until December 2020**

**PC37.233**

Guide for Power System Protection Testing

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

**PC37.235**

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

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

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

**PC62.42.4**

Guide for the Application of Surge-Protective Components in Surge Protective Devices and Equipment Ports - Part 4 Thermally Activated Current Limiters

**Recommendation: Approve request for an extension until December 2020**

### 3.3 New PARs

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

##### **P2839**

Recommended Practice for Vital Computer for Rail Safety-related Application

**Recommendation: Approve new PAR until December 2023**

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

##### **P802.1ABdh**

Standard for Local and Metropolitan Area Networks - Station and Media Access Control Connectivity Discovery

Amendment: Support for Multiframe Protocol Data Units

**Recommendation: Approve new PAR until December 2023**

##### **P802.1Qdj**

Standard for Local and Metropolitan Area Networks - Bridges and Bridged Networks

Amendment: Configuration Enhancements for Time-Sensitive Networking

**Recommendation: Approve new PAR until December 2023**

##### **P802.3cv**

Standard for Ethernet

Amendment: Maintenance #15: Power over Ethernet

**Recommendation: Approve new PAR until December 2023**

#### IEEE Computer Society/Standards Activities Board

##### **P2807.1**

Standard for Technical Requirements and Evaluation of Knowledge Graphs

**Recommendation: Approve new PAR until December 2023**

##### **P2830**

Standard for Technical Framework and Requirements of Shared Machine Learning

**Recommendation: Approve new PAR until December 2023**

##### **P2840**

Standard for Responsible AI Licensing

**Recommendation: Approve new PAR until December 2023**

##### **P2841**

Framework and Process for Deep Learning Evaluation

**Recommendation: Approve new PAR until December 2023**

##### **P2842**

Recommended Practice for Secure Multi-party Computation

**Recommendation: Approve new PAR until December 2023**

##### **P2888.1**

Specification of Sensor Interface for Cyber and Physical World

**Recommendation: Approve new PAR until December 2023**

IEEE Consumer Electronics Society/Standards Committee

**P2823**

Standard for System Architecture and Technical Requirements for Smart Speakers

**Recommendation: Approve new PAR until December 2023**

**P2843**

Standard for Measuring Accessibility Experience and Compliance

**Recommendation: Approve new PAR until December 2023**

IEEE Education Society/Standards Committee

**P2834**

Standard for Secure and Trusted Learning Systems

**Recommendation: Approve new PAR until December 2023**

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

**P11073-40101**

Health informatics - Device interoperability - Part 40101: Cybersecurity - Processes for vulnerability assessment

**Recommendation: Conditionally approve new PAR until December 2023; contingent upon acronyms being spelled out in section 5.4.**

**NB: The condition has been met.**

**P11073-40102**

Health informatics - Device interoperability - Part 40102: Cybersecurity - Capabilities for Mitigation

**Recommendation: Conditionally approve new PAR until December 2023; contingent upon acronyms being spelled out at first use.**

**NB: The condition has been met.**

IEEE Industry Applications Society/Petroleum & Chemical Industry

**P61886.2**

Subsea Power Transformers

**Recommendation: Approve new PAR until December 2023**

IEEE Microwave Theory and Techniques Society/Standards Coordinating Committee

**P2822**

Recommended Practice for Microwave, Millimeter-wave and THz On-Wafer Calibrations, De-Embedding and Measurements

**Recommendation: Conditionally approve new PAR until December 2023; contingent upon Working Group Chair information displaying on the PAR. (9 approve, 1 disapprove [Burse], 1 abstain [Winston])**

**NB: The condition has been met.**

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

**P1679.4**

Guide for the characterization and evaluation of alkaline batteries in stationary applications

**Recommendation: Approve new PAR until December 2023**

**P2836**

Recommended Practice for Performance Testing of Electrical Energy Storage (EES) System in Electric Charging Stations in Combination with Photovoltaic (PV)

**Recommendation: Approve new PAR until December 2023**

IEEE Power and Energy Society/Substations

**P2825**

Guide for Static Synchronous Series Compensator (SSSC) General Requirements and Test Methods

**Recommendation: Approve new PAR until December 2023**

**P2829**

Guide for Handling Non-Sulphur Hexafluoride (SF6) Gas Mixtures for High Voltage Equipment

**Recommendation: Conditionally approve new PAR until December 2023; contingent upon the acronym for sulphur hexafluoride being spelled out in the PAR title.**

**NB: The condition has been met.**

IEEE Power and Energy Society/Transmission and Distribution

**P2824**

Guide for Testing Mechanical Acoustic Imaging of High Voltage Reactors

**Recommendation: Approve new PAR until December 2023**

**P2828**

Guide for Measuring Method of Overhead Power Transmission Line Galloping Based on Monocular Video

**Recommendation: Approve new PAR until December 2023**

**P2831**

Recommended Practice for Distributed Traveling Wave Fault Location Device for High Voltage Direct Current Transmission (HVDC) Transmission Lines

**Recommendation: Approve new PAR until December 2023**

**P2832**

Guide for Control and Protection System test of Hybrid Multi-terminal High Voltage Direct Current (HVDC) Systems

**Recommendation: Approve new PAR until December 2023**

**P2833**

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

**Recommendation: Approve new PAR until December 2023**

**P2837**

Guide for Technical Requirements for Hybrid High-Voltage Direct-Current Transmission Protection and Control Equipment

**Recommendation: Approve new PAR until December 2023**

IEEE Power and Energy Society/Transformers

**PC57.170**

Guide for the Condition Assessment of Liquid Immersed Transformers, Reactors and Their Components

**Recommendation: Approve new PAR until December 2023**

IEEE Photonics Society/Standards Committee



**P2067**

Fiber Optic Sensors - Fiber Bragg Grating Interrogator Standard - Terminology and Definitions

**Recommendation: Approve new PAR until December 2023**

IEEE-SASB Coordinating Committees/SCC21 - Fuel Cells, Photovoltaics, Dispersed Generation, and Energy Storage

**P1547a**

Standard for Interconnection and Interoperability of Distributed Energy Resources with Associated Electric Power Systems Interfaces

Amendment to IEEE Std 1547-2018 to provide more flexibility for adoption of abnormal operating performance Category III

**Recommendation: Approve new PAR until December 2023**

**3.4 PARs for the Revision of Standards**

IEEE Computer Society/LAN/MAN Standards Committee

**P802.15.9**

Standard for Transport of Key Management Protocol (KMP) Datagrams

**Recommendation: Approve PAR for the revision of a standard until December 2023**

IEEE Computer Society/Learning Technology

**P1484.11.2**

Standard for Learning Technology - ECMAScript Application Programming Interface for Content to Runtime Services Communication

**Recommendation: Approve PAR for the revision of a standard until December 2023**

**P1484.12.1**

Standard for Learning Object Metadata

**Recommendation: Approve PAR for the revision of a standard until December 2023**

IEEE Computer Society/Portable Applications

**P1003.1**

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

**Recommendation: Approve PAR for the revision of a standard until December 2023**

IEEE Computer Society/Software & Systems Engineering Standards Committee

**P14764**

Software Engineering - Software Life Cycle Processes - Maintenance

**Recommendation: Approve PAR for the revision of a standard until December 2023**

**P24774**

Guide - Adoption of ISO/IEC TR 24474:2010 Systems and Systems and software engineering - Life cycle management - Process description

**Recommendation: Approve PAR for the revision of a standard until December 2023**

IEEE Computer Society/Test Technology

**P1149.7**

Standard for Reduced-Pin and Enhanced-Functionality Test Access Port and Boundary-Scan Architecture

**Recommendation: Approve PAR for the revision of a standard until December 2023**

**P1500**

Standard Testability Method for Embedded Core-based Integrated Circuits

**Recommendation: Approve PAR for the revision of a standard until December 2023**

IEEE Power and Energy Society/Electric Machinery

**P286**

Recommended Practice for Measurement of Power Factor Tip-Up of Electric Machinery Stator Coil Insulation

**Recommendation: Approve PAR for the revision of a standard until December 2023**

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

**P535**

Standard for Qualification of Class 1E Vented Lead Acid Storage Batteries for Nuclear Power Generating Stations

**Recommendation: Approve PAR for the revision of a standard until December 2023**

IEEE Power and Energy Society/Nuclear Power Engineering

**P383**

Standard for Qualifying Electric Cables and Splices for Nuclear Facilities

**Recommendation: Approve PAR for the revision of a standard until December 2023**

**P387**

Standard for Criteria for Diesel Generator Units Applied as Standby Power Supplies for Nuclear Power Generating Stations

**Recommendation: Approve PAR for the revision of a standard until December 2023**

IEEE Power and Energy Society/Power System Relaying and Control

**PC37.99**

Guide for the Protection of Shunt Capacitor Banks

**Recommendation: Approve PAR for the revision of a standard until December 2023**

**PC37.109**

Guide for the Protection of Shunt Reactors

**Recommendation: Approve PAR for the revision of a standard until December 2023**

IEEE Power and Energy Society/Substations

**PC37.122.3**

Guide for Sulphur Hexafluoride (SF6) Gas Handling for High-Voltage (over 1000 Vac) Equipment

**Recommendation: Approve PAR for the revision of a standard until December 2023**

**PC37.123**

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

**Recommendation: Approve PAR for the revision of a standard until December 2023**

IEEE Power and Energy Society/Switchgear

**PC37.13**

Standard for Low-Voltage AC (1058 V and Below) Power Circuit Breakers Used in Enclosures

**Recommendation: Approve PAR for the revision of a standard until December 2023**

IEEE-SASB Coordinating Committees/SCC21 - Fuel Cells, Photovoltaics, Dispersed Generation, and Energy Storage

**P1547.3**

Guide for Cybersecurity of Distributed Energy Resources Interconnected with Electric Power Systems

**Recommendation: Approve PAR for the revision of a standard until December 2023**

**4 NEW BUSINESS**

Robby Robson reminded NesCom members that they will receive updated documentation on Open Source from the SASB and the BOG and that the deadline for comments is 15 September 2019. He noted that there will be changes to the PAR form and potential changes to the approval process.

**AI: Reminders will be sent with the documentation that needs to be reviewed by NesCom, including the potential PAR changes.**

***NB: The documentation was re-sent to NesCom for review.***

Chair Stanley also noted that Phil Winston requested agenda time to discuss the potential for a cutoff time for replies to NesCom comments and it was agreed that this would be discussed at the November NesCom meeting.

**5 DATE OF NEXT MEETING**

The next meeting of NesCom will take place on 6 November 2019 in Piscataway, New Jersey, USA.

**6 ADJOURNMENT**

Chair Stanley thanked everyone for all of the upfront work and diligent PAR reviews. After an earlier request by Chair Stanley to extend the call by 15 minutes, the meeting adjourned at 10:43 a.m. ET.