

09-Dec-2025 NesCom Agenda

Agenda Version: 5
Time: 8:30 a.m. ET
Location: Hybrid: Jersey City, NJ (USA) and Webex

1. CALL TO ORDER

2. INTRODUCTIONS

3. REVIEW OF AGENDA

3.1. CONSENT AGENDA

3.1.1. ADMINISTRATIVELY WITHDRAWN PARS

 PARS for Administrative Withdrawal 2025.pdf

4. APPROVAL OF MINUTES FROM THE 22 OCTOBER NESCOM MEETING

5. PARS FOR DISCUSSION

5.1. WITHDRAWAL REQUESTS

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

1. P2685

Recommended Practice for Energy Storage for Stationary Engine-Starting Systems

5.2. MODIFIED PARS

IEEE Computer Society/LAN/MAN Standards Committee

1. P802.11bi

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: Enhanced Service with Privacy Protection

IEEE Electromagnetic Compatibility Society/Standards Development Committee

2. P2838

Standard for Aerospace Component Lightning Strike Direct Effects Qualification

IEEE Industry Applications Society/Industrial Power Conversion Systems Department

3. P2943

Recommended Practice for Testing Energy Efficiency of Variable Speed Drive Systems

IEEE Microwave Theory and Technology Society/Standards Committee

4. P1765

Recommended Practice for Estimating the Uncertainty in Error Vector Magnitude of Measured Digitally Modulated Signals for Wireless Communications: Conducted and Over-the-Air Hardware Verification

IEEE Power and Energy Society/Energy Development & Power Generation

5. P63197

Standard Terms and Definitions for Hydraulic Turbine Governing Systems

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

6. P2688

Recommended Practice for Energy Storage Management Systems in Grid Applications

IEEE Power and Energy Society/Insulated Conductors

7. P3148

Guide for Field Detection of Metallic Sheath Current of Single-Conductor Shielded Cross-linked Polyethylene (XLPE) Insulated Alternating Current (AC) Cable

IEEE Power and Energy Society/Power System Relaying and Control

8. P2030.100.1

Monitoring and Diagnostics of IEC 61850 Generic Object Oriented System Event (GOOSE), Sampled Values (SV), and Supporting Systems

IEEE SA Board of Governors/Quantities, Units, and Symbols Standards Committee

9. P260.3

Standard for Mathematical Signs and Symbols for Use in Physical Sciences and Technology

5.3. EXTENSION REQUESTS

IEEE Antennas and Propagation Society/Antennas and Propagation Standards Committee

1. P2816

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

IEEE Communications Society/Unmanned Aerial Vehicles Communications Standards Committee

2. P1937.6

Standard for Unmanned Aerial Vehicle (UAV) Light Detection and Ranging (LiDAR) Remote Sensing Operation

IEEE Computer Society/Cybersecurity and Privacy Standards Committee

3. P2989

Standard for Authentication in a Multi-server Environment

IEEE Computer Society/Simulation Interoperability Std Organization/Std Activity Committee

4. P1278.1

Standard for Distributed Interactive Simulation--Application Protocols

IEEE Computer Society/Software & Systems Engineering Standards Committee

5. P828

Standard for Configuration Management in Systems and Software Engineering

6. P1228

Standard for Software Safety

7. P2998

Recommended Practice for Building Accessible Applications

IEEE Computer Society/Standards Activities Board Standards Committee

8. P7130

Standard for Quantum Technologies Definitions

IEEE Consumer Technology Society/Emerging Technology Standards Committee

9. P2812

Guide for Minor Guardianship System for Online Mobile Gaming

10. P3141

Standard for 3D Body Processing

IEEE Consumer Technology Society/Smart Devices Standards Committee

11. P2979

Standard for Edge Intelligent Terminal for Expressway Cooperative Transportation

IEEE Electromagnetic Compatibility Society/Standards Development Committee

12. P2838

Standard for Aircraft Component Lightning Strike Direct Effects Qualification

IEEE Engineering in Medicine and Biology Society/Standards Committee**13. P1752.2**

Standard for Mobile Health Data: Representation of Cardiovascular, Respiratory, and Metabolic Measures

14. P2794

Reporting Standards for in vivo Neural Interface Research

15. P2795

Standard for Shared Analytics Across Secure and Unsecured Networks

IEEE Industrial Electronics Society/Industrial Electronics Society Standards Committee**16. P1451.5.5**

Standard for a Smart Transducer Interface for Sensors and Actuator -- Wireless Communication Protocols and Transducer Electronic Data Sheet (TEDS) Formats – LoRa Protocol

17. P1451.5.6

Standard for a Smart Transducer Interface for Sensors and Actuator -- Wireless Communication Protocols and Transducer Electronic Data Sheet (TEDS) Formats – Sigfox Protocol

18. P1451.5.10

Standard for a Smart Transducer Interface for Sensors and Actuator -- Wireless Communication Protocols and Transducer Electronic Data Sheet (TEDS) Formats – NB-IoT Protocol

19. P2805.3

Cloud-Edge Collaboration Protocols for Machine Learning

IEEE Industry Applications Society/Petroleum & Chemical Industry**20. P61886.3**

Subsea Equipment – Part 3: Subsea Motors

IEEE Microwave Theory and Technology Society/Standards Committee**21. P3136**

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

IEEE Photonics Society/Standards Committee**22. P3112**

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

IEEE Power and Energy Society/Electric Machinery**23. P62.2**

Guide for Diagnostic Field Testing of Electric Power Apparatus - Electrical Machinery

24. P1434

Guide for the Measurement of Partial Discharges in AC Electric Machinery

25. P1719

Guide for Evaluating Stator Cores of AC Electric Machines Rated 1 MVA and Higher

IEEE Power and Energy Society/Energy Storage & Stationary Battery Committee**26. P1189**

Guide for Selection of Batteries for Standby Applications

IEEE Power and Energy Society/Insulated Conductors**27. P1300**

Guide for Cable Connections for Gas-Insulated Substations

28. P1428

Guide for Installation Methods for Fiber Optic Cables in Power Generating Stations and in Industrial

Facilities

29. P1511

Guide for Investigating and Analyzing Power Cable, Joint, and Termination Failures on Systems Rated 2.5 kV Through 46 kV

30. P1511.1

Guide for Investigating and Analyzing Shielded Power Cable Failures on Systems Rated 2.5 kV Through 46 kV

31. P1511.2

Guide for Investigating and Analyzing Failures of Joints on Extruded Shielded Power Cables on Systems Rated 5 kV Through 46 kV

IEEE Power and Energy Society/Power System Instrumentation and Measurements

32. P4.1

Guide for the Practical Implementation of IEEE Standard 4 on High-Voltage and High-Current Measurement Systems

IEEE Power and Energy Society/Power System Relaying and Control

33. PC37.239

Standard for Common Format for Event Data Exchange (COMFEDE) for Power Systems

IEEE Power and Energy Society/Substations Committee

34. P998

Guide for Direct Lightning Stroke Shielding of Substations

35. P1534

Recommended Practice for Specifying Thyristor-Controlled Series Capacitors

36. P1818

Recommended Practice for the Design of Low-Voltage Auxiliary Systems for Electric Power Substations

37. P2825

Guide for Static Synchronous Series Compensator General Requirements and Test Methods

38. PC37.122.10

Guide for Handling Non-Sulphur Hexafluoride (SF₆) Gases for High-Voltage Equipment Rated above 1000 Vac

39. PC37.430.10

Standard Definitions for Flexible Alternating Current Transmission Systems (FACTS) and High Voltage Direct Current (HVDC) Stations

40. PC37.431.20

Guide for Protecting Transmission Dynamic Reactive Power Compensators

41. PC37.431.40

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

IEEE Power and Energy Society/Surge Protective Devices Committee

42. PC62.21

Guide for the Application of Surge Voltage Protective Equipment on AC Rotating Machinery 1000 Volts and Greater

43. PC62.37

Standard for Test Methods and Preferred Values for Thyristor Surge Protective Components

44. PC62.42.5

Guide for the Application of Surge-Protective Components in Surge Protective Devices and Equipment Ports - Part 5: 2-Terminal Electronic Current Limiters

IEEE Power and Energy Society/Switchgear

45. PC37.10

Recommended Practice for Investigation, Analysis, and Reporting of Failures of AC High-Voltage Circuit Breakers and Circuit Switchers with Rated Maximum Voltage Above 1000 V

46. PC37.20.4

Standard for AC Switches Rated above 1 kV up to 52 kV for Use in Metal-Enclosed Switchgear

47. PC37.30.2

Guide for Wind-Loading Evaluation of High-Voltage (>1000 V) Air-Break Switches

48. PC37.010

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

49. PC37.016

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

IEEE Power and Energy Society/Transformers**50. PC57.13.9**

Standard for Power-Line Carrier Coupling Capacitors and Coupling Capacitor Voltage Transformers

51. PC57.96

Guide for Loading Dry-Type Distribution and Power Transformers

52. PC57.141

Guide for Detection, Monitoring, and Evaluation of Winding Deformation in Liquid-Immersed Power Transformers Rated above 66 kV

IEEE Power and Energy Society/Transmission and Distribution**53. P1036**

Guide for the Application of Shunt Power Capacitors

54. P1067

Guide for In-Service Use, Care, Maintenance, and Testing of Conductive Clothing Used for Live Work and Power Frequency AC Induction Protection

55. P1410

Guide for Improving the Lightning Performance of Electric Power Overhead Distribution Lines

56. P1564

Guide for Voltage Sag Indices

57. P1882

Guide for Establishing, Benchmarking and Maintaining a Work Program for Energized Transmission Lines

58. P2798

Guide for Helicopter Operation Procedures for the Utility Industry

59. P2844

Recommended Practice for Limiting Voltage Imbalance in Electric Power Systems

IEEE Reliability Society/IEEE Reliability Society Standards Committee**60. P1413**

Standard Framework for Reliability Prediction of Hardware

IEEE Robotics and Automation Society/Standing Committee for Standards**61. P7008**

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

IEEE Society on Social Implications of Technology/Social Implications of Technology Standards Committee**62. P2987**

Recommended Practice for Principles for Design and Operation Addressing Technology-Facilitated Interpersonal Control

IEEE Vehicular Technology Society/Intelligent Transportation Systems

63. P2982

Millimeter-Wave Channel Sounder Verification

5.4. NEW PARS

IEEE Communications Society/Edge, Fog, Cloud Communications with IOT and Big Data Standards Committee

1. P1966

Standard for Comprehensive Energy Data Collection and Perception Security

IEEE Communications Society/Power Line Communications

2. P2030.5.100

Standard Conformance Test Procedures for IEEE Std 2030.5

3. P3788

Recommended Practice for Smart Gateways for Interconnection and Control in Distributed Energy Systems

IEEE Communications Society/Unmanned Aerial Vehicles Communications Standards Committee

4. P1936.23

Standard for Communications Network Monitoring for Unmanned Aircraft Systems (UAS) in Power Grid Inspection Applications

5. P1936.24

Standard for Technical Requirements for Unmanned Aerial Systems (UAS) Based Monitoring of Soil and Water Surrounding Electrical Power Transmission and Transformer Deployments

6. P1937.19

Standard for Coding of Cargo Data of Uncrewed Aircraft (UA) Used for Beyond Visual Line of Sight (BVLOS) Logistics

7. P1937.20

Standard for Reference Architecture for Mesh Networking Communication of Unmanned Aircraft Systems (UAS) for Inspection of Overhead Transmission and Distribution Lines.

8. P1937.23

Standard for the Requirements of Multi-Rotor Unmanned Aircraft Systems (UAS) for Transportation under Hazard-Constrained Conditions

IEEE Computational Intelligence Society/Standards Committee

9. P3900

Guide for Federated Learning of Power User Electric Energy Data Acquisition and Analysis

10. P3901

Guide for Artificial Intelligence Computing-Power Network of Electric Power Sector

11. P3904

Standard for Inference Engine Adaptability of Large-Scale Deep Learning Models

12. P3905

Standard for Large Model Inference Systems for Intelligent Terminal Devices

IEEE Computer Society/Artificial Intelligence Standards Committee

13. P3777

Standard for Benchmarking and Performance Metrics of Artificial Intelligence (AI) Agents

14. P3796

Standard for Binary Compliance Requirements of Industrial Vision Inspection Systems in Smart Manufacturing of Household Appliances

IEEE Computer Society/Blockchain and Distributed Ledgers

15. P3225.03

16. P3240.17

Standard for Reference Framework for Distribution Network Power Supply Reliability Data Management Based on Blockchain

17. P3240.18

Standard for Blockchain-Based Green Data Center Electricity Consumption Traceability

18. P3240.19

Standard for Technical Specification of Blockchain-Based Intelligent Electronic Devices

19. P3240.20

Standard for Blockchain-Based Environmental Protection and Power Consumption Monitoring Platform

20. P3240.21

Standard for Blockchain-Based Trusted Access and Data Storage Technology for Generation-Side Distributed Resources in Virtual Power Plants

21. P3240.22

Standard for Performance Assessment for Resource Recycling of Energy Equipment with Blockchain Technology

22. P3241.07

Standard for Blockchain-Based Electricity Carbon Emission Monitoring

IEEE Computer Society/Cybersecurity and Privacy Standards Committee

23. P3922

Standard for Managed Architecture for Justified Identity and Device Trust for Things

IEEE Computer Society/Data Compression Standards Committee

24. P3911

Standard for Holographic Video Coding

IEEE Computer Society/Design Automation

25. P3733

Standard for Universal Foundry Process Design Kit (PDK)

IEEE Computer Society/Knowledge Engineering Standards Committee

26. P3918

Guide for Construction of Digital Model Libraries for Transmission Lines

IEEE Computer Society/LAN/MAN Standards Committee

27. P802.1AEef

IEEE Standard for Local and metropolitan area networks-Media Access Control (MAC) Security Amendment: Ascon Cipher Suite

28. P802.1AReg

IEEE Standard for Local and Metropolitan Area Networks - Secure Device Identity Amendment: Support for the Module-Lattice-Based Digital Signature Algorithm

29. P802.3ds

IEEE Standard for Ethernet Amendment: Physical Layer Specifications and Management Parameters for 200 Gb/s and greater Operation over Multimode Fiber using 200 Gb/s signaling

30. P802.3dt

IEEE Standard for Ethernet Amendment: Ethernet Metadata Services

IEEE Computer Society/Standards Activities Board Standards Committee

31. P3910

Recommended Practice for Evaluating the Artificial Intelligence (AI) Readiness of Scientific Datasets

32. P3912

Recommended Practice for the Application of Scientific Data Persistent Identifier in Open-Sharing

IEEE Consumer Technology Society/Digital Finance and Economy Standards Committee

33. P3849

Standard for Requirements of Blockchain-Based Trusted Data Circulation for the Industrial Internet of Things (IIoT)

34. P3850

Standard for Technical Requirements of Artificial Intelligence (AI) Agent Customer Service for Power Grids

35. P3851

Standard for General Technical Requirements of Coordinated Management of Electric Power and Computing Power in Data Centers

36. P3852

Standard for Framework and Requirements for Household and Commercial Appliances as a Service

37. P3853

Standards for Evaluation Methods for the Value and Applicability of Transmission Sensing Data of Power Equipment in Special Environments

38. P3854

Standard for Maturity Capability Requirements for Data Assets in the Energy Industry

39. P3855

Standard for Technical Requirements for Economical Computing and Energy Converged Management

IEEE Consumer Technology Society/Emerging Technology Standards Committee

40. P3907

Standard for Terminology in Low-Altitude (less than or equal to 1000 m□ Above Ground) Technology

41. P3915

Standard for Technical Specification for Wireless Screen Projection Performance of Smart Televisions

IEEE Geoscience and Remote Sensing Society/Standards Committee

42. P4011

Recommended Practice for the Utilization of Earth Observation Data and Services in Multi-Hazard Disaster Management and Early Warning

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

43. P3755

Recommended Practice for On-Site Assembly, Commissioning, Operation and Maintenance of Prefabricated Transformer Zone Modules (0.4 kV to 22 kV) in Industrial and Commercial Power Systems Facilities

IEEE Industry Applications Society/Petroleum & Chemical Industry

44. P841.2

Standard for Process Industry—Premium Efficiency, Severe-Duty, Totally Enclosed, Vertical, Squirrel Cage Induction Motors 0.75 kW to 370 kW (1-500 hp)

IEEE Instrumentation and Measurement Society/TC4 - High Frequency Measurement

45. P287.1a

IEEE Standard for Precision Coaxial Connectors at RF, Microwave, and Millimeter-Wave Frequencies-- Part 1: General Requirements, Definitions, and Detailed Specifications Amendment: Annex N—Detail specifications for Precision 0.6 mm Connectors. Annex O—Detail Specifications for Precision 0.5 mm Connectors

46. P3761

Recommended Practice for Signal Measurement of Electromagnetic Disturbance with Optical Fiber Technology—Generic Specification

IEEE Intelligent Transportation Systems Society/Standards Committee

47. P3797

Guide for Aggregated Control of Electric Vehicle Battery Swap Stations for Transportation Electrification

48. P3798

Guide for Coordinated Operation of Electric Vehicle Battery Swap Stations with Photovoltaic (PV) Enabling Sustainable Transportation Systems

49. P3908

Standard for Weather Early Warning for Low-Altitude (less than or equal to 1000 m Above Ground) Drone and Electric Vertical Takeoff and Landing (eVTOL) Flight Safety

50. P3909

Standard for Operational Safety Capability Assessment of Low-Altitude (less than or equal to 1000 m Above Ground) Air Routes

IEEE Power and Energy Society/Energy Development & Power Generation

51. P2800a

IEEE Standard for Interconnection and Interoperability of Inverter-Based Resources (IBRs) Interconnecting with Associated Transmission Electric Power Systems Amendment: Reduce Barriers for IBRs with Grid-Forming Equipment

52. P2800.1

Recommended Practice for Functional Capabilities and Performance of Grid Forming Equipment in Inverter-Based Resources (IBRs) / Converter-Based Resources (CBRs)

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

53. P1679.5

Guide for the Characterization and Evaluation of Long-Duration Energy Storage Technologies in Stationary Applications

54. P3731

Recommended Practice for Testing Household Hybrid Photovoltaic and Storage Converters

IEEE Power and Energy Society/Smart Buildings, Loads and Customer Systems

55. P3768

Guide for Resonance Risk Assessment Method for Charging Stations Connected to Power Grids

IEEE Power and Energy Society/Transmission and Distribution

56. P1409.1

Guide for Long-Term Assessment of Steady-State Power Quality Improvement Projects

57. P3586

Guide for Arrangement and Installation of Limited-Pole Anti-Wind-Deviation Insulating Rod

IEEE SA Board of Governors/Entity Collaborative Activities Governance Board

58. P3921

Guide for Dynamic Carbon Emission Responsibility Accounting Method for Electricity Consumers

IEEE Signal Processing Society/Synthetic Aperture Standards Committee

59. P3919

Standard for Synthetic Aperture Channel Sounding in Support of Non-Terrestrial Networks

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

60. P2089.4

Standard for Artificial Intelligence (AI) Systems Impacting Children

61. P3923

Standard for Assessing Organizational Readiness for Human-Artificial Intelligence (AI) Identity Resilience and Interaction Score

62. P3925

Standard for Evaluation of Wearable Fall Detection Devices

63. P7021

Recommended Practice for Implementing Ethical Artificial Intelligence (AI) in Long-Term Climate Projections Towards Sustainability

IEEE Vehicular Technology Society/Automated Vehicles Standards Committee

64. P3913

Guide for Evaluation Framework for Dispatchable Load Potential of Electric Vehicles

IEEE Vehicular Technology Society/Traction Power Systems Standards Committee

65. P3917

Recommended Practice for Relay Protection System for Direct Current (DC) Traction Power Substations (up to 1500V DC Nominal Output)

5.5. PARS FOR THE REVISION OF STANDARDS

IEEE Computer Society/Design Automation

1. P1735

Recommended Practice for Encryption and Management of Electronic Design Intellectual Property (IP)

IEEE Computer Society/LAN/MAN Standards Committee

2. P802.3

Standard for Ethernet

IEEE Computer Society/Simulation Interoperability Std Organization/Std Activity Committee

3. P1278.2

Standard for Distributed Interactive Simulation (DIS)—Communication Services and Profiles

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

4. P11073-10206

Standard for Health informatics - Device interoperability - Part 10206: Personal health device communication - Abstract Content Information Model

5. P11073-10424

Standard for Health Informatics - Device Interoperability - Personal health device communication - Device Specialization - Sleep Apnoea Breathing Therapy Equipment (SABTE)

IEEE Industry Applications Society/Petroleum & Chemical Industry

6. P841

Standard for Process Industry—Premium Efficiency and Premium Efficiency 4, Severe-Duty, Totally Enclosed, Squirrel Cage Induction Motors 0.75 kW - 370 kW (1-500 hp)

7. P1673

Standard for Requirements for Conduit and Cable Seals for Field Connected Wiring to Equipment in Petroleum and Chemical Industry Exposed to Pressures above Atmospheric (1.5 kPa, 0.22 psi)

IEEE Power and Energy Society/Energy Development & Power Generation

8. P2800

Standard for Interconnection and Interoperability of Inverter/Converter-Based Resources (IBRs/CBRs) Interconnecting with Transmission Electric Power Systems: Edition 2

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

9. P2686

Recommended Practice for Battery Management Systems in Stationary Energy Storage Applications

IEEE Power and Energy Society/Power System Relaying and Control

10. P2030.101

Guide for Designing Time Synchronization Systems for Electric Power Systems

11. PC37.112

Standard for Inverse-Time Characteristics Equations for Overcurrent Relays

IEEE Power and Energy Society/Switchgear

12. PC37.121

Guide for Switchgear--Unit Substation--Requirements

IEEE Power and Energy Society/Transmission and Distribution

13. P1835

Standard for Atmospheric (Above Grade) Corrosion Control of Existing Electric Transmission, Distribution, and Substation Structures by Coating Systems

14. P1839

Standard for Below-Grade Corrosion Control of Transmission, Distribution, and Substation Structures by Coating Repair Systems

15. P1895

Standard for Below-Grade Inspection and Assessment of Corrosion on Steel Transmission, Distribution, and Substation Structures

6. OLD BUSINESS

7. NEW BUSINESS

8. NEXT MEETING

The next meeting of NesCom will be a teleconference meeting and will take place on or around 28 January 2026.

9. ADJOURNMENT