

NesCom - 09 Dec 2024

Agenda Version: 5
Time: 8:30 a.m. ET (UTC-5)
Location: Hybrid Meeting: Bridgewater, NJ (USA) and Webex

1. CALL TO ORDER


2. REVIEW OF AGENDA

2.1. CONSENT AGENDA

2.1.1. ADMINISTRATIVELY WITHDRAWN PARS

 Revised list PARS FOR ADMINISTRATIVE WITHDRAWAL 2024 v4.pdf

3. APPROVAL OF MINUTES FROM THE 30 OCTOBER NESCOM MEETING

 DRAFT NesCom 103024 minutes-v2.pdf

4. PARS FOR DISCUSSION

4.1. WITHDRAWAL REQUESTS

IEEE Communications Society/Virtualized and Software Defined Networks, and Services Standards Committee

1. P1913

YANG Model for Software-Defined Quantum Communication

IEEE Computer Society/Standards Activities Board Standards Committee

2. P2418.3

Standard for the Framework of Distributed Ledger Technology (DLT) Use in Agriculture

IEEE Computer Society/Test Technology

3. P1450.6

Standard Test Interface Language (STIL) for Digital Test Vector Data-Core Test Language (CTL)

4. P1687.1

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

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

5. PC62.55

Guide for Surge Protection of DC Power Feeds to Remote Radio Heads

4.2. MODIFIED PARS

IEEE Computer Society/Smart Manufacturing Standards Committee

1. P2975.1

Standard for Industrial Artificial Intelligence Data Attributes

IEEE Power and Energy Society/Substations Committee

2. P2825

Guide for Static Synchronous Series Compensator General Requirements and Test Methods

IEEE SA Board of Governors/Entity Collaborative Activities Governance Board

3. P3308

Moving Picture, Audio and Data Coding by Artificial Intelligence—Object and Scene Description v1.0

4.3. EXTENSION REQUESTS

IEEE Aerospace and Electronic Systems Society/Gyro Accelerometer Panel

1. P1431

Standard for Specifying and Testing Coriolis Vibratory Gyros

IEEE Antennas and Propagation Society/Antennas and Propagation Standards Committee

2. P1720

Recommended Practice for Near Field Antenna Measurements

IEEE Communications Society/Green ICT Standards Committee

3. P1925.1

Standard for Energy Efficient Dynamic Line Rate Transmission System

4. P1926.1

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

5. P1927.1

Standard for Services Provided by the Energy-efficient Orchestration and Management of Virtualized Distributed Data Centers Interconnected by a Virtualized Network

6. P1928.1

Standard for a Mechanism for Energy Efficient Virtual Machine Placement

7. P1929.1

An Architectural Framework for Energy Efficient Content Distribution

IEEE Communications Society/Virtualized and Software Defined Networks, and Services Standards Committee

8. P1916.1

Standard for Software Defined Networking and Network Function Virtualization Performance

9. P1950.1

Standard for Communications Architectural Functional Framework for Smart Cities

10. P2784

Guide for the Technology and Process Framework for Planning a Smart City

IEEE Computer Society/Artificial Intelligence Standards Committee

11. P2961

Guide for an Architectural Framework and Application for Collaborative Edge Computing

IEEE Computer Society/Blockchain and Distributed Ledgers

12. P3220.01

Standard for Consensus Framework for Blockchain System

13. P3222.01

Standard for Blockchain-based Digital Identity System Framework

14. P3223.01

Standard for Blockchain-based Electronic Evidence Interface Specification

15. P3230.03

Standard for Blockchain Service Capability Evaluation

16. P3232.01

Standard for Blockchain System Governance Specification

17. P3270.01

Standard for Blockchain-based Digital Asset Exchange Model

18. P3270.02

Guide for the Application of Non-Fungible Token (NFT) Based Digital Asset

IEEE Computer Society/Design Automation

19. P2416

Standard for Power Modeling to Enable System-Level Analysis

IEEE Computer Society/Learning Technology

20. P2881

Standard for Learning Metadata Terms

IEEE Computer Society/Online Gaming Standards Committee

21. P2946

Guide for Electronic Sports (Esports) Integrity

22. P2947

Guide for Broadcasting Electronic Sports (Esports) Events

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

23. P1516

Standard for Modeling and Simulation (M&S) High Level Architecture (HLA)-- Framework and Rules

24. P1516.1

Standard for Modeling and Simulation (M&S) High Level Architecture (HLA)-- Federate Interface Specification

25. P1516.2

Standard for Modeling and Simulation (M&S) High Level Architecture (HLA)-- Object Model Template (OMT) Specification

IEEE Computer Society/Software & Systems Engineering Standards Committee

26. P7003

Algorithmic Bias Considerations

IEEE Computer Society/Standards Activities Board Standards Committee

27. P2957

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

IEEE Electromagnetic Compatibility Society/Standards Development Committee

28. P1128

Recommended Practice for Radio-Frequency (RF) Absorber Evaluation in the Range of 30 MHz to 40 GHz

IEEE Engineering in Medicine and Biology Society/Standards Committee

29. P1708

Standard for Wearable Cuffless Blood Pressure Measuring Devices

30. P2731

Standard for a Unified Terminology for Brain-Computer Interfaces

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

31. P3006.1

Recommended Practice for Reliability Planning and Design of Industrial and Commercial Power Systems

IEEE Industry Applications Society/Petroleum & Chemical Industry

32. P80005-3

Utility Connections in Port - Part 3: Low Voltage Shore Connection (LVSC) Systems - General Requirements

IEEE Power and Energy Society/Electric Machinery

33. P62.2

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

34. P1553

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

35. P1719

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

IEEE Power and Energy Society/Energy Development & Power Generation

36. P63197

Standard Terms and Definitions for Turbine Governing Systems

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

37. P1187

Recommended Practice for Installation Design and Installation of Valve-Regulated Lead-Acid Batteries for Stationary Applications

38. P1188

Recommended Practice for Maintenance, Testing, and Replacement of Valve-Regulated Lead-Acid (VRLA) Batteries for Stationary Applications

39. P2962

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

IEEE Power and Energy Society/Insulated Conductors

40. P495

Standard for Testing Faulted Circuit Indicators

41. P1142

Guide for the Selection, Testing, Application and Installation of 300 V to 500 kV Cables Having Radial-Moisture Barriers and/or Longitudinal Water Blocking

42. P1186

Recommended Practice for Applicability of Methods for the Evaluation of Low-Voltage and Medium-Voltage Installed Cable Systems in Nuclear Facilities

43. P1300

Guide for Cable Connections for Gas-Insulated Substations

44. P1511

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

45. P1511.1

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

IEEE Power and Energy Society/Nuclear Power Engineering Committee

46. P317

Standard for Electric Penetration Assemblies in Containment Structures for Nuclear Power Generating Stations

47. P833

Recommended Practice for the Protection of Electric Equipment in Nuclear Power Generating Stations from Water Hazards

48. P2421

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

IEEE Power and Energy Society/Power System Communications and Cybersecurity

49. P487a

Standard for the Electrical Protection of Communications Facilities Serving Electric Supply Locations -- General Considerations

Amendment: New Annex J- Guidance for Determining the Ground Potential Rise and Induced Voltages for the Design of Communications Installations at Electric Supply Locations

50. P1711.1

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

51. P2658

Guide for Cybersecurity Testing in Electric Power Systems

IEEE Power and Energy Society/Power System Relaying and Control**52. P2030.12**

Guide for the Design of Microgrid Protection Systems

53. PC37.1.2

Guide for Databases Used in Utility Automation Systems

54. PC37.90

Standard for Relays, Relay Systems, and Control Devices used for Protection and Control of Electric Power Apparatus – General Requirements and Tests

55. PC37.251

Standard for Common Protection and Control Settings or Configuration Data Format (COMSET)

56. PC37.300

Guide for Centralized Protection and Control (CPC) Systems within a Substation

IEEE Power and Energy Society/Smart Buildings, Loads and Customer Systems**57. P2418.5**

Guide for Blockchain in Power and Energy Systems

IEEE Power and Energy Society/Substations Committee**58. P81**

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

59. P525

Guide for the Design and Installation of Cable Systems in Substations

60. P979

Guide for Substation Fire Protection

61. P998

Guide for Direct Lightning Stroke Shielding of Substations

62. P1240

Guide for the Evaluation of the Reliability of HVDC Converter Stations

63. P1534

Recommended Practice for Specifying Thyristor-Controlled Series Capacitors

64. P1818

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

IEEE Power and Energy Society/Surge Protective Devices Committee**65. P2770**

60099-11 Surge Arresters - Part 11: Metal-Oxide Line Surge Arresters to Protect Power Line Insulation

66. PC62.21

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

IEEE Power and Energy Society/Surge Protective Devices/Low Voltage**67. PC62.220**

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

IEEE Power and Energy Society/Switchgear

68. 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

69. PC37.41

Standard for Design Tests and Specifications for High-Voltage (> 1000 V) Fuses and Accessories

70. PC37.100.1

Standard of Common Requirements for High Voltage Power Switchgear Rated Above 1000 V

IEEE Power and Energy Society/Transformers

71. PC57.13.9

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

72. PC57.16

Standard for Requirements, Terminology, and Test Code for Dry-Type Air-Core Series-Connected Reactors

73. PC57.93a

IEEE Approved Draft Guide for Installation and Maintenance of Liquid-Immersed Power Transformers

Amendment: Cold Start of Power Transformers filled with Natural Ester Fluids

74. PC57.98

Guide for Transformer Impulse Tests

75. PC57.162

Guide for the Interpretation of Moisture Related Parameters in Liquid Immersed Transformers and Reactors

76. PC57.166

Guide for Acceptance and Maintenance of Insulating Liquids in Transformers and Related Equipment

IEEE Power and Energy Society/Transmission and Distribution

77. P18

Standard for Shunt Power Capacitors

78. P751

Guide for Wood Structures Used for Overhead Electric Transmission Lines

79. P824

Standard for Series Capacitor Banks in Power Systems

80. P1409

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

81. P1410

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

82. P2856

Guide for the Definition of Resiliency and Measuring the Resiliency of the Electrical Distribution System

83. P2974

Guide for System Commissioning of Medium and Low (750 V to ± 50 kV) Voltage Direct Current Distribution Network

IEEE Robotics and Automation Society/Standing Committee for Standards

84. P2751

3D Map Data Representation for Robotics and Automation

85. P2940

Standard for Measuring Robot Agility

IEEE SA Board of Governors/Entity Collaborative Activities Governance Board

86. P2958

Standard for a Decentralized Identity and Access Management Framework for Internet of Things

87. P2973

Guide for Field Calibration System for Current Carrying Capacity of Overhead Transmission Lines

IEEE SA Board of Governors/International Committee on Electromagnetic Safety**88. 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

89. 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

90. P62704-3

Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body from Wireless Communications Devices, 30 MHz - 6 GHz Part 3: Specific Requirements for Using the Finite Difference Time Domain (FDTD) Method for SAR Calculations of Mobile Phones

91. P63184

Assessment Methods of the Human Exposure to Electric and Magnetic Fields from Wireless Power Transfer Systems - Models, Instrumentation, Measurement and Numerical Methods and Procedures□
(Frequency range of 1 kHz to 30 MHz)

92. PC95.1-2345

Standard for Military Workplaces -- Force Health Protection Regarding Personnel Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz

IEEE SA Board of Governors/Strategic and Emerging Standards Committee**93. P1**

Recommended Practice - General Principles for Temperature Limits in the Rating of Electrical Equipment and for the Evaluation of Electrical Insulation

4.4. NEW PARS**IEEE Communications Society/Edge, Fog, Cloud Communications with IOT and Big Data Standards Committee****1. P1961**

Recommended Practice for Framework of Integrated Energy Data Collection and Perception

IEEE Communications Society/Power Line Communications**2. P1901.3.1**

Standard Test Procedures for IEEE 1901.3 Standard for Medium Frequency (less than 12 MHz) Power Line Communications with a Hybrid Power Line Communications/Radio Frequency Physical Layer

3. P1957

Standard for an Electric Power Emergency Satellite Communication System

IEEE Communications Society/Unmanned Aerial Vehicles Communications Standards Committee**4. P1936.15**

Standard for a Transmission Protocol for Equipment Status and Control Data of Remote Sensing Networks that use Unmanned Aerial Systems

5. P1936.18

Standard for Unmanned Aerial System-Based Multi-Sensor Data Fusion for Power Line Anomaly Detection Applications

IEEE Computer Society/Artificial Intelligence Standards Committee**6. P3507**

Standard for Multimodal Large Language Models Platform for Automotive Services

7. P3511

Standard for Risk Management Guidelines for Generative Artificial Intelligence System

8. P3540

Standard for Technical Requirements of Artificial Intelligence Personal Computer

9. P3549

Standard for Inference Optimization Systems of Large Language Models

IEEE Computer Society/Blockchain and Distributed Ledgers

10. P3240.06

Standard for Blockchain-based Hourly Time-matching Green Power Trading

IEEE Computer Society/Design Automation

11. P3537

Standard for 3Dblox--Chiplet Connectivity and Physical Properties Description Language

IEEE Computer Society/LAN/MAN Standards Committee

12. P802.11bq

IEEE 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 Integrated Millimeter Wave Wireless LAN

IEEE Computer Society/Software & Systems Engineering Standards Committee

13. P2675.1

Standard for System Reliability Engineering—Building Automation to Support Continuous Operations

IEEE Computer Society/Standards Activities Board Standards Committee

14. P3552

Guide for Enterprise Data Assets Assessment Model

IEEE Consumer Technology Society/Digital Finance and Economy Standards Committee

15. P3831

Standard for Reference Architecture and Technical Requirements for Electricity Data Asset Management Platform

16. P3832

Standard for General Requirements of Distributed Banking Financial Core Business System

IEEE Consumer Technology Society/Emerging Technology Standards Committee

17. P2089.3

Standard for Online Parental Consent

18. P3539

Standard for General Requirements of Refueling Robots System

IEEE Engineering in Medicine and Biology Society/Standards Committee

19. P3553

Standard for Unique Electronic Health Record Identification System

IEEE Geoscience and Remote Sensing Society/Standards Committee

20. P4007

Standard for Synthetic Aperture Radar Monitoring of Public Structures Uplift on Permafrost Region

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

21. P3548

Recommended Practice for the Structural Design of Distribution Grid in Photovoltaic-Energy Storage-DC-Flexible Integrated Buildings

IEEE Industry Applications Society/Industrial Power Conversion Systems Department

22. P3542

Standard for Efficiency Classification of Fully Integrated Motor Drives

23. P3543

Standard for Power Quality requirements for Fully Integrated Motor Drives

24. P3544

Standard for Data Interconnect Requirements for Power Factor Correction of Distributed Variable Frequency Motor Drives

IEEE Intelligent Transportation Systems Society/Standards Committee

25. P3538

Guide for Metaverse Data on Road Accidents in Low-to-Middle Income Countries

IEEE Power and Energy Society/Power System Communications and Cybersecurity

26. P1591.1-2023/Cor 1

IEEE Standard for Testing and Performance of Hardware for Optical Ground Wire (OPGW) - Corrigendum 1

IEEE Power and Energy Society/Power System Instrumentation and Measurements

27. P3541

Guide for Harmonic Influence Test Equipment for Electricity Meters

IEEE Power and Energy Society/Substations Committee

28. P3546

Guide for Arc Flash Safety Program for Substations and Underground and Overhead Lines

IEEE Power and Energy Society/Transmission and Distribution

29. P3554

Guide for Detection Method of X-ray for Transmission Line Conductor Crimping

30. P3555

Standard for Test Method of Fiber Ropes Used in Construction of Overhead Transmission Lines

IEEE Vehicular Technology Society/High Speed Train and Maglev Standards Committee

31. P3545

Guide for Digital Twin Modeling and Analysis of High Voltage System of High-Speed Trains

32. P3547

Recommended Practice for Using Commercial-Off-The-Shelf Electrical System and Software for Rail Safety-Related Application

4.5. PARS FOR THE REVISION OF STANDARDS

IEEE Computer Society/Design Automation

1. P1801

Standard for Design and Verification of Low Power, Energy Aware Electronic Systems

IEEE Computer Society/Software & Systems Engineering Standards Committee

2. P15289

Systems and software engineering—Content of life-cycle information items (documentation)

3. P24765

Systems and software engineering--Vocabulary

4. P26512

Systems and software engineering - Requirements for acquirers and suppliers of information for users

IEEE Power and Energy Society/Energy Development & Power Generation

5. P125

Recommended Practice for the Specification of Hydraulic Turbine Governing Systems

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

6. PC62.36

Standard Test Methods for Surge Protectors and Protective Circuits Used in Information and Communications Technology (ICT) Circuits, and Smart Grid Data Circuits

7. PC62.41.1

Guide on the Surge Environment in Low-Voltage (1000 V and less) AC Power Circuits

8. PC62.45

Recommended Practice on Surge Testing for Equipment Connected to Low-Voltage (1000 V and less) AC Power Circuits

IEEE Power and Energy Society/Switchgear

9. P316

Standard Requirements for Direct Current Instrument Shunts

10. PC37.09

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

IEEE Power and Energy Society/Transmission and Distribution

11. P951

Guide for the Assembly and Erection of Metal Transmission Structures

IEEE SA Board of Governors/Entity Collaborative Activities Governance Board

12. P2857

Standard for Wireless Smart Utility Network Field Area Network (FAN)

IEEE Vehicular Technology Society/Traction Power Systems Standards Committee

13. P1653.6

Recommended Practice for Grounding of DC Equipment Enclosures in Traction Power Distribution Facilities

5. OLD BUSINESS

6. NEW BUSINESS

7. NEXT MEETING

The next meeting of NesCom will be a teleconference and will take place on 29 January 2025.

8. ADJOURNMENT