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# Project Initiation Notification System (PINS)

Section 2.5.1 of the *ANSI Essential Requirements* ([www.ansi.org/essentialrequirements](http://www.ansi.org/essentialrequirements)) describes the Project Initiation Notification System (PINS) and includes requirements associated with a PINS Deliberation. Following is a list of PINS notices submitted for publication in this issue of ANSI Standards Action by ANSI-Accredited Standards Developers (ASDs). Please also review the section in Standards Action entitled "American National Standards Maintained Under Continuous Maintenance" for information about American National Standards (ANS) maintained under the continuous maintenance option, as a PINS to initiate a revision of such standards is not required. Use this [Public Document Library link](#) to access PDF & EXCEL reports of approved & proposed ANS: List of Approved and Proposed ANS. Directly and materially interested parties wishing to receive more information or to submit comments are to contact the sponsoring ANSI-Accredited Standards Developer directly **within 30 calendar days** of the publication of this PINS announcement.

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## **AAMI (Association for the Advancement of Medical Instrumentation)**

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### ***New Standard***

BSR/AAMI/ADA Standard No. ST113-202x, Comprehensive guide to steam sterilization and sterility assurance in dental facilities (new standard)

Stakeholders: Medical device manufacturers, regulatory agencies, dental practices and facilities, dental professionals, sterile processing professionals

Project Need: Currently, there is no US standard on sterility assurance in dental practices and dental facilities.

Interest Categories: User, Industry, Government, General Interest

This standard provides requirements and guidance for performing steam sterilization and promoting sterility assurance in dental practices and dental facilities. This standard is based on AAMI ST79:2017, Comprehensive guide to steam sterilization and sterility assurance in health care facilities, but with revisions appropriate to the specific practices, resources and equipment in dental facilities.

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### ***National Adoption***

BSR/AAMI/ISO 15883-1-2024-202x, Washer-disinfectors — Part 1: General requirements, terms and definitions and tests (identical national adoption of ISO 15883-1:2024)

Stakeholders: Medical device manufacturers, testing laboratories, regulatory agencies, healthcare facilities

Project Need: This will update the existing standard for this topic.

Interest Categories: Producer, User, General Interest, and Government

This document specifies general performance requirements for washer-disinfectors (WD) and washer-disinfectors accessories that are intended to be used for cleaning and disinfection of reusable medical devices. It specifies performance requirements for cleaning and disinfection as well as for the accessories that can be required to achieve the necessary performance. The methods and instrumentation required for validation, routine control, and monitoring and requalification, periodically and after essential repairs, are also specified.

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**National Adoption**

BSR/AAMI/ISO 15883-2-2024-202x, Washer-disinfectors — Part 2: Requirements and tests for washer-disinfectors employing thermal disinfection for critical and semi-critical medical devices (identical national adoption of ISO 15883-2:2024)

Stakeholders: Medical device manufacturers, testing laboratories, regulatory agencies, healthcare facilities

Project Need: This will update the existing standard for this topic.

Interest Categories: Producer, User, General Interest, and Government

This document specifies requirements for washer-disinfectors (WD) that are intended for use for the cleaning and thermal disinfection, in a single operating cycle, of reusable critical and semi-critical medical devices, such as surgical instruments, anaesthetic equipment, and any non-critical devices used in conjunction with critical and semi-critical medical devices, such as bowls, dishes and receivers, utensils and glassware.

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**National Adoption**

BSR/AAMI/ISO 15883-3-2024-202x, Washer-disinfectors — Part 3: Requirements and tests for washer-disinfectors employing thermal disinfection for human waste containers (identical national adoption of ISO 15883-3:2024)

Stakeholders: Medical device manufacturers, testing laboratories, regulatory agencies, healthcare facilities

Project Need: This will update the existing standard for this topic.

Interest Categories: Producer, User, General Interest, and Government

This document specifies requirements for washer-disinfectors (WD) that are intended to be used for emptying, flushing, washing and thermal disinfection of non-critical devices in the form of human waste containers by one operating cycle. This document is intended to be used in conjunction with the general requirements specified in ISO 15883-1:2024, except for those specified in 4.1.1, and with the requirements of ISO 15883-5:2021, except for those specified in 4.1.2.

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**National Adoption**

BSR/AAMI/ISO 15883-7-2025-202x, Washer-disinfectors — Part 7: Requirements and tests for washer-disinfectors employing chemical disinfection for non-critical thermolabile medical devices and health care equipment (identical national adoption of ISO 15883-7:2025)

Stakeholders: Medical device manufacturers, testing laboratories, regulatory agencies, healthcare facilities

Project Need: There is no existing standard for this topic.

Interest Categories: Producer, User, General Interest, and Government

This document specifies the requirements for washer-disinfectors (WD) intended to be used for the cleaning and chemical disinfection, in a single operating cycle, of reusable items such as: (a) bed frames; (b) bedside tables; (c) transport carts; (d) containers; (e) surgical tables; (f) sterilization containers; (g) surgical clogs; (h) wheelchairs; and (i) aids for persons with disabilities.

**APTech (ASC CGATS) (Association for Print Technologies )**

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***New Standard***

BSR CGATS-21-3-202x, Graphic technology — Printing from digital data across multiple technologies — Part 3: Reference characterization data-2020 (new standard)

Stakeholders: Color characterization data equipment and software manufacturers and the users of this equipment

Project Need: CGATS-21-3 defines a set of CRPCs associated with expanded gamut printing. It is the intent of CGATS that if changes in, or additions to, these data sets are needed in the future they will be documented in added parts of CGATS-21 so that changes in the datasets are possible without losing traceability to earlier datasets. In addition, where specific printing processes have unique limitations that impact their use with universal CRPCs, these limitations and recommendations will be covered in additional parts of CGATS-21.

Interest Categories: Manufacturers and users of printing equipment and supplies

This part of CGATS specifies a limited number of characterized reference printing conditions that span the expected range of color gamuts used for the production of printed material from digital data, regardless of printing process used.

**ASC X9 (Accredited Standards Committee X9, Incorporated)**

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**Revision**

BSR X9.112 Part 1 and Part 2-202x, Wireless Management and Security: Part 1: General Requirements, Part 2: ATM and POS Requirements, and Wireless Equipment (revision, redesignation and consolidation of ANSI X9.112-1-2016) Stakeholders: Equipment manufacturers can use this combined standard as guidance for adding wireless security features to their products. Service providers can use this combined standard as guidance for implementing wireless security controls to their operational environments. Developers can use this combined standard as guidance for adding wireless security features to their solutions. Managers can use this combined standard as guidance for checking compliance to wireless security policy and practices. Accessors (or auditors) can use this combined standard as guidance for checking compliance to wireless security industry standards.

Project Need: There are no financial industry standards for “wired” networks or “wired” devices, but wireless technology increases the risk to networks, devices, and operational environments, so a wireless financial industry standard is applicable. With the two parts as separate documents, readers have to review both Part 1: General Requirements and Part 2: ATM and POS for an overall comprehensive understanding of requirements and recommendations. The language between the two parts was constantly drifting, partially because they were reviewed at different times by different participants, and because changes in the wireless industry affects the requirements and recommendations. Synchronizing the two parts and publishing at the same time is the same effort as merging the two parts into a more cohesive standard. When any organization enables a wireless network, and connects wireless devices (e.g., ATM, POS, scanner, scale, etc.), it presents an attack opportunity that does not need close proximity, such that the “wired” network and systems are intentionally or inadvertently exposed to the wireless environment.

Interest Categories: Consumer, General Interest, Producer

ANSI X9.112-1, Wireless Management and Security – Part 1: General Requirements, originally published in 2009 and revised in 2016, provided an overview of wireless radio frequency (RF) technologies and general requirements applicable to all wireless implementations for the financial services industry. Subsequent parts of this Standard will address specific applications to wireless technology and associated risks, as well as technologies, methods, and controls that mitigate those risks. ANSI X9.112-2, Wireless Management and Security – Part 2: ATM and POS, originally published in 2014 and revised in 2020, provided specific requirements for wireless ATM and POS with the caveat that there are no industry standards for “wired” ATM or POS, based on the X9.112-1 standard. This work is to merge Part 1 and Part 2 into a single, more cohesive standard, aligning the language, requirements and recommendations between the two parts, thereby eliminating redundancies and improving the overall structure. Note that Part 3: Mobile is sufficiently different such that it will remain a separate document, consequently this merged version will retain the names Part 1 and Part 2 in its title.

**ASQ (American Society for Quality)**

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**Revision**

BSR ASQ G1-202x, Quality management maturity standard for government organizations (revision of ANSI/ASQ G1-2021)

Stakeholders: Industry, academia, government and general interest

Project Need: The fundamental customer need satisfied through adoption of this standard will be to develop a natural and ongoing incentive for development, maintenance and improvement of quality practices throughout government. This in turn will support sustainability of quality practices. Those involved in quality in government over multiple decades have observed that the abandonment of quality practices caused by a lack of constancy of purpose and the mobility of management (and political leadership) have been pervasive.

Interest Categories: General interest, user, producer

This document provides process and systems models that can be used for objective performance review and evaluation of government services, which will provide a relative ranking of the effectiveness and maturity of those processes and systems. These models will facilitate establishment and maintenance of quality management systems in government and encourage continual improvement. Also included are guidelines for qualification for evaluators of government services, using this standard.

**CSA (CSA America Standards Inc.)**

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**National Adoption**

BSR/CSA ISO 27914/CSA Z741-202x, Carbon dioxide capture, transportation and geological storage — Geological storage (identical national adoption of ISO 27914:2026)

Stakeholders: Oil and gas producers, regulatory and government agencies, environmental organizations, consumer and communities research, and academic institutions.

Project Need: The Project Need is to adopt ISO 27914 as a U.S. standard is to ensure safe and effective geological storage of carbon dioxide. This standard provides clear requirements for site selection, risk assessment, monitoring, and long-term containment. It helps:

- Prevent leakage and protect groundwater and ecosystems;
- Ensure public safety and build confidence in carbon storage projects;
- Support climate goals by enabling reliable CO<sub>2</sub> storage; and
- Align U.S. practices with international standards for consistency and regulatory compliance.

Interest Categories: GI-General Interest; GR-Government and/or Regulatory Authority; OP-Owner/Operator/Producer; SC-Supplier/Contractor/Consultant Interest

This document establishes requirements for the geological storage of CO<sub>2</sub> streams in a way that minimizes risk of CO<sub>2</sub> losses; applies to both onshore and offshore geological storage within permeable and porous geological strata, including hydrocarbon reservoirs where a CO<sub>2</sub> stream is not being injected to enhance hydrocarbon production; includes activities associated with site screening, feasibility investigation, characterization, design, development, operation of storage projects, and preparation for project termination; recognizes that the geological characteristics, physical boundaries, management, intrinsic technical risk and uncertainties, of each site are likely to be unique for each project and that intrinsic technical risk and uncertainty will be addressed on a site-specific basis; provides requirements for integrated project management, including elements of risk management unique to geological storage of CO<sub>2</sub> streams; and establishes a methodology for quantifying the net mass of CO<sub>2</sub> that geological storage projects store in storage unit(s). If commercial quantities of hydrocarbon are produced from the storage unit(s), the storage project is outside of this document's scope and ISO 27916 applies. A CO<sub>2</sub>-EOR project that has stored CO<sub>2</sub> in association with CO<sub>2</sub>-EOR can transition to operate under this document after all production of hydrocarbons from the storage unit(s) has ceased.

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**Revision**

BSR/EIA 364-04C-202x, Normal Force Test Procedure for Electrical Connectors (revision and redesignation of ANSI/EIA 364-04B-2015 (R2020))

Stakeholders: Electronics, electrical and telecommunications industries

Project Need: Revise and redesignate current American National Standard

Interest Categories: User, Producer, General Interest

This procedure establishes two methods to determine the magnitude of normal force, at the point of the electrical connection, generated by a contact system at a given deflection within its normal operating levels. This data and its relationship to contact pressure allow the electrical integrity and stability of the contact interface to be evaluated in proper perspective when integrated with other monitored attributes.

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**Revision**

BSR/EIA 364-08D-202x, Crimp Tensile Strength Test Procedure for Electrical Connectors (revision and redesignation of ANSI/EIA 364-08C-2015 (R2020))

Stakeholders: Electronics, electrical and telecommunications industries

Project Need: Revise and redesignate current American National Standard

Interest Categories: User, Producer, General Interest

This standard establishes a test method to determine the tensile strength of a crimped contact to conductor joint. The values obtained give an indication of the relative strength of the joints. Unless otherwise specified in the referencing document, this is a destructive test.

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**Revision**

BSR/EIA 364-69B-202x, Inductance Measurement Test Procedure for Electrical Connectors and Sockets (10 nH 100 nH) (revision and redesignation of ANSI/EIA 364-69A-2002 (R2020))

Stakeholders: Electronics, electrical and telecommunications industries

Project Need: Revise and redesignate current American National Standard

Interest Categories: User, Producer, General Interest

This procedure applies to electrical connectors and sockets with values in the range of 10 nanohenrys to 100 nanohenrys.

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**Revision**

BSR/EIA 364-79A-202x, Insert Bond Strength Test Procedure for Electrical Connectors (revision and redesignation of ANSI/EIA 364-79-2014 (R2020))

Stakeholders: Electronics, electrical and telecommunications industries

Project Need: Revise and redesignate current American National Standard

Interest Categories: User, Producer, General Interest

Application of this insert bond evaluation procedure is limited to qualification or periodic inspection testing and generally is a test group of its own. This standard provides a technique for evaluating the strength of a bond between one or more components; example - a grommet seal bonded to a connector insert. As defined in EIA-622, an electrical connector insert is the insulating element of a connector that supports and positions the contact(s).

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**Revision**

BSR/EIA 364-80B-202x, Low Frequency Shielding Effectiveness Test Procedure for Electrical Connectors and Sockets (revision and redesignation of ANSI/EIA 364-80A-2020)

Stakeholders: Electronics, electrical and telecommunications industries

Project Need: Revise and redesignate current American National Standard

Interest Categories: User, Producer, General Interest

This test procedure describes two methods to measure the shielding transfer impedance of mated cable connectors in the frequency range 10 kHz to 100 MHz, (method A), and a connector located between a bulkhead panel and a shielded cable from 30 MHz to 500 MHz, (method B).

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**Revision**

BSR/EIA 364-84A-202x, Residual Magnetism Test Procedure for Electrical Connectors Used in Space Applications (revision and redesignation of ANSI/EIA 364-84-2015 (R2020))

Stakeholders: Electronics, electrical and telecommunications industries

Project Need: Revise and redesignate current American National Standard

Interest Categories: User, Producer, General Interest

This standard establishes a test procedure to determine the residual magnetism of a connector during controlled laboratory tests designed to simulate conditions likely to be encountered in unusual atmospheres, high-altitude, and space flight environments.

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**Revision**

BSR/EIA 364-93A-202x, Repeated Wire Connection and Disconnection Test Procedure for Insulation Displacement Contacts (IDC) for Electrical Connectors (revision and redesignation of ANSI/EIA 364-93-2009 (R2020))

Stakeholders: Electronics, electrical and telecommunications industries

Project Need: Revise and redesignate current American National Standard

Interest Categories: User, Producer, General Interest

The object of this test procedure is to assess the ability of a reusable insulation displacement termination to withstand a specified number of connections and disconnections.

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**Revision**

BSR/EIA 364-94A-202x, Transverse Extraction Force Test Procedure for Insulation Displacement Contacts (IDC) for Electrical Connectors (revision and redesignation of ANSI/EIA 364-94-2009 (R2020))

Stakeholders: Electronics, electrical and telecommunications industries

Project Need: Revise and redesignate current American National Standard

Interest Categories: User, Producer, General Interest

The object of this test procedure is to determine the force necessary to remove the wire within the connection slot of an accessible insulation displacement termination along the longitudinal axis of the termination.

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**Revision**

BSR/EIA 364-97A-202x, Housing Panel Retention Test Procedure for Electrical Connectors (revision and redesignation of ANSI/EIA 364-97-1997 (R2020))

Stakeholders: Electronics, electrical and telecommunications industries

Project Need: Revise and redesignate current American National Standard

Interest Categories: User, Producer, General Interest

This specification covers the test procedure for determining the mechanical retention of the panel locking feature housings when installed in panels.

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**Revision**

BSR/EIA 364-98A-202x, Housing Locking Mechanism Strength Test Procedure for Electrical Connectors (revision and redesignation of ANSI/EIA 364-98-2009 (R2020))

Stakeholders: Electronics, electrical and telecommunications industries

Project Need: Revise and redesignate current American National Standard

Interest Categories: User, Producer, General Interest

This specification describes a test procedure for determining the mechanical retention strength of the locking retention features of mated plastic connector housings.

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**Revision**

BSR/EIA 364-104C-202x, Flammability Test Procedure for Electrical Connectors (revision and redesignation of ANSI/EIA 364-104B-2015 (R2020))

Stakeholders: Electronics, electrical and telecommunications industries

Project Need: Revise and redesignate current American National Standard

Interest Categories: User, Producer, General Interest

This standard establishes a test method to determine the connector's resistance to burning when exposed to a flame. Burning resistance is defined as the ability to not support or propagate combustion after an ignition source is removed. This test evaluates the time it takes for the flame of a burning connector to extinguish after removal of the applied flame, and the possibility of the spread of burning, as caused by burning droplets and afterglow. This test does not simulate any actual service application. It is intended to test a connector by itself in a condition that can readily be duplicated in any test laboratory.

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**Revision**

BSR/EIA 364-116A-202x, Pin Contact Stability Test Procedure for Electrical Connectors (revision and redesignation of ANSI/EIA 364-116-2015 (R2020))

Stakeholders: Electronics, electrical and telecommunications industries

Project Need: Revise and redesignate current American National Standard

Interest Categories: User, Producer, General Interest

This test standard establishes a test method to determine the relative rigidity a connector insert provides a pin contact, by inserting a gauge pin into a contact cavity, and then measuring the total displacement of a reference point on the tip of the gauge pin when that gauge pin experiences a moment perpendicular to the mating axis.

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**Revision**

BSR/EIA 364-121A-202x, Coupling Thread Strength Test Procedure for Electrical Connector Accessories (revision and redesignation of ANSI/EIA 364-121-2020)

Stakeholders: Electronics, electrical and telecommunications industries

Project Need: Revise and redesignate current American National Standard

Interest Categories: User, Producer, General Interest

This test procedure establishes a test method to evaluate the coupling thread strength of circular electrical connector accessories, which are intended to mate with the accessory threads of circular electrical connectors. When tested as specified, the coupling thread of the accessory shall withstand the torque specified in table 1 without damage.

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**Reaffirmation**

BSR/EIA 364-03D-2015 (R202x), Altitude Immersion Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-03D-2015 (R2020))

Stakeholders: Electronics, electrical and telecommunications industries

Project Need: Revise current American National Standard

Interest Categories: User, Producer, General Interest

This standard establishes a test method to determine the ability of the connector-to-wire and interface area seals of a mated connector assembly to perform satisfactorily during and subsequent to simulated rapid descents from high altitude with attendant moisture condensation.

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**Reaffirmation**

BSR/EIA 364-38E-2020 (R202x), Cable Pull-Out Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-38E-2020)

Stakeholders: Electronics, electrical and telecommunications industries

Project Need: Reaffirm current American National Standard

Interest Categories: User, Producer, General Interest

This standard establishes a test method to determine the ability of a connector cable assembly to withstand axial tensile loading.

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**Reaffirmation**

BSR/EIA 364-47A-2008 (R202x), Conductor Unwrap (Solderless Wrapped Connection) Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-47A-2008 (R2020))

Stakeholders: Electronics, electrical and telecommunications industries

Project Need: Reaffirm current American National Standard

Interest Categories: User, Producer, General Interest

This standard established test methods to determine if excessive damage or deformation of the conductor in a solderless wrapped connection has occurred as a result of the wrapping process.

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**Reaffirmation**

BSR/EIA 364-55B-2020 (R202x), Current Cycling Test Procedure for Electrical Contacts, Connectors and Sockets (reaffirmation of ANSI/EIA 364-55B-2020)

Stakeholders: Electronics, electrical and telecommunications industries

Project Need: Reaffirm current American National Standard

Interest Categories: User, Producer, General Interest

This standard establishes test methods to determine the current cycling characteristics of mated electrical contacts, connectors and sockets using, but not limited to, crimp, press-fit contacts, insulation displacement contact (IDC) terminations, soldered or mechanically attached termination techniques.

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**Reaffirmation**

BSR/EIA 364-68A-2008 (R202x), Actuating Mechanism Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-68A-2008 (R2020))

Stakeholders: Electronics, electrical and telecommunications industries

Project Need: Reaffirm current American National Standard

Interest Categories: User, Producer, General Interest

This standard establishes a test method to determine the strength of the actuating mechanism of a connector release mechanism. The actuating mechanism test may be conducted as one of the tests in a sequential test plan, as a base line and after exposure to an environment.

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**Reaffirmation**

BSR/EIA 364-75B-2020 (R202x), Lightning Strike Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-75B-2020)

Stakeholders: Electronics, electrical and telecommunications industries

Project Need: Reaffirm current American National Standard

Interest Categories: User, Producer, General Interest

This standard establishes a test method to determine the capability of a connector pair to conduct the electrical current induced by a lightning strike. The results derived may be used to determine whether the contacts within the inserts will be adequately protected from flashover and whether the connector shells will adequately conduct lightning currents.

**ECIA (Electronic Components Industry Association)**

Laura Donohoe <[ldonohoe@ecianow.org](mailto:ldonohoe@ecianow.org)> | 13873 Park Center Road, Suite 315 | Herndon, VA 20171 [www.ecianow.org](http://www.ecianow.org)

**Reaffirmation**

BSR/EIA 364-85-2014 (R202x), General Test Procedure for Assessing Wear and Mechanical Damage Testing of Contact Finishes for Electrical Connectors (reaffirmation of ANSI/EIA 364-85-2014 (R2020))

Stakeholders: Electronics, electrical and telecommunications industries

Project Need: Reaffirm current American National Standard

Interest Categories: User, Producer, General Interest

The purpose of this procedure is to determine the presence of mechanical damage, wear through, and other gross defects in the contact finish.

**ECIA (Electronic Components Industry Association)**

Laura Donohoe <[ldonohoe@ecianow.org](mailto:ldonohoe@ecianow.org)> | 13873 Park Center Road, Suite 315 | Herndon, VA 20171 [www.ecianow.org](http://www.ecianow.org)

**Reaffirmation**

BSR/EIA 364-111A-2015 (R202x), Determining the Total Ionic Contamination Test Procedure for Electrical Connectors, Socket Assemblies, or Components (reaffirmation of ANSI/EIA 364-111A-2015 (R2020))

Stakeholders: Electronics, electrical and telecommunications industries

Project Need: Reaffirm current American National Standard

Interest Categories: User, Producer, General Interest

This standard establishes two methods for determining the total amount of extractable ionic contamination on the surface of an electrical connector or socket assembly or component.

**ECIA (Electronic Components Industry Association)**

Laura Donohoe <[ldonohoe@ecianow.org](mailto:ldonohoe@ecianow.org)> | 13873 Park Center Road, Suite 315 | Herndon, VA 20171 [www.ecianow.org](http://www.ecianow.org)

**Reaffirmation**

BSR/EIA 364-1002A-2015 (R202x), Test Methodology for Assessing the Performance of Compliant Contact Terminations Used as Free Standing Contacts or in Electrical Connectors and Sockets (reaffirmation of ANSI/EIA 364-1002A-2015 (R2020))

Stakeholders: Electronics, electrical and telecommunications industries

Project Need: Reaffirm current American National Standard

Interest Categories: User, Producer, General Interest

This standard establishes the test procedures and test sequences for evaluating compliant contact terminations. The test sequences defined herein shall be considered generic. Unless otherwise specified in the referencing document, this standard applies to the following types of contacts with compliant contact terminations.

**NEMA (ASC C12) (National Electrical Manufacturers Association)**

Paul Orr <[Pau\\_orr@nema.org](mailto:Pau_orr@nema.org)> | 1300 North 17th Street, Suite 900 | Rosslyn, VA 22209 [www.nema.org](http://www.nema.org)

***New Standard***

BSR C12.31-202x, Standard for the Measurement of Voltage, Current, Power, Energy, and Power Factor (new standard)  
Stakeholders: Meter Manufacturers, Electric Utilities, AHJ's, Testing agencies

Project Need: ANSI C12 standards have only defined the value for VA when the waveforms for current and voltage were sinusoidal. Since in the modern world this is seldom the case outside of the laboratory, this standard brings definitions and testing more in line with the contemporary load environment.

Interest Categories: Users, Producers, and General Interest members

This document establishes standard definitions for the measurement of AC, DC, and AC+DC voltage; current; electrical power (active, reactive, and apparent); AC electrical energy (active, reactive, and apparent); and power factor in terms of sampled voltage and current measurements. The definitions are provided to facilitate uniform comparison of the voltage, current, power, energy, and power factor measurement values reported by electricity meters in comparison to equipment used as reference standards that implement these definitions for the determination of meter accuracy in the time domain and frequency domain. In the limit of "perfect implementation," the answers given by the time domain and frequency domain formulas should give the same answers within the claimed uncertainty limits.

**NEMA (ASC C8) (National Electrical Manufacturers Association)**

Khaled Masri <[Khaled.Masri@nema.org](mailto:Khaled.Masri@nema.org)> | 1300 North 17th Street, Suite 900 | Arlington, VA 22209 [www.nema.org](http://www.nema.org)

***Revision***

BSR ICEA T-24-380-202x, Partial Discharge Test Procedure (revision of ANSI ICEA T-24-380-2025)

Stakeholders: Manufacturers, users and testing laboratories of cables

Project Need: Update existing standard

Interest Categories: Producers, Users and General Interests

This Factory Test Procedure applies to the detection and measurement of partial discharges occurring in the following types of solid dielectric cables:

- 1.1 Single Conductor Cables. Single conductor shielded cables and assemblies thereof.
- 1.2 Multiple Conductor Cables. Multiple conductor cables with individually shielded conductors within an outer covering.

**OPEI (Outdoor Power Equipment Institute)**

Daniel Mustico <[dmustico@opei.org](mailto:dmustico@opei.org)> | 1605 King Street | Alexandria, VA 22314 [www.opei.org](http://www.opei.org)

**National Adoption**

BSR/OPEI 8437-1-202x, Snow throwers - Safety requirements and test procedures - Part 1: Terminology and common tests (identical national adoption of ISO 8437-1, First edition 2019-07)

Stakeholders: Manufacturers, suppliers, consumers, government

Project Need: To maintain current and state-of-the-art voluntary safety standards for use in North America and harmonized with international requirements.

Interest Categories: OEM Producer, Supplier Producer, Consumer User, Retailer, Testing Organization, Government Agency, General Interest

This document defines terms and definitions and common test methods applicable to combustion-engine-powered, pedestrian-controlled, ride-on snow throwers. It is intended to be used with OPEI 8437-2, OPEI 8437-3, and OPEI 8437-4 to achieve the full requirements and means of verification for pedestrian-controlled and ride-on snow throwers. The OPEI 8437 series deals with significant hazards, hazardous situations and events relevant to snow throwers used as intended and under the conditions reasonably foreseeable by the manufacturer.

**OPEI (Outdoor Power Equipment Institute)**

Daniel Mustico <[dmustico@opei.org](mailto:dmustico@opei.org)> | 1605 King Street | Alexandria, VA 22314 [www.opei.org](http://www.opei.org)

**National Adoption**

BSR/OPEI 8437-2-202x, Snow throwers - Safety requirements and test procedures - Part 2: Pedestrian-controlled snow throwers (identical national adoption of ISO 8437-2, First edition 2019-07)

Stakeholders: Manufacturers, suppliers, consumers, government

Project Need: To maintain current and state-of-the-art voluntary safety standards for use in North America and harmonized with international requirements.

Interest Categories: OEM Producer, Supplier Producer, Consumer User, Retailer, Testing Organization, Government Agency, General Interest

This document specifies safety requirements applicable to combustion-engine-powered, pedestrian-controlled snow throwers. It is intended to be used with OPEI 8437-1 and OPEI 8437-4 to achieve the full requirements and means of verification for pedestrian-controlled snow throwers. The OPEI 8437 series deals with significant hazards, hazardous situations, and events relevant to snow throwers used as intended and under the conditions reasonably foreseeable by the manufacturer.

**OPEI (Outdoor Power Equipment Institute)**

Daniel Mustico <[dmustico@opei.org](mailto:dmustico@opei.org)> | 1605 King Street | Alexandria, VA 22314 [www.opei.org](http://www.opei.org)

**National Adoption**

BSR/OPEI 8437-3-202x, Snow throwers - Safety requirements and test procedures - Part 3: Ride-on snow throwers (identical national adoption of ISO 8437-3, First edition 2019-07)

Stakeholders: Manufacturers, suppliers, consumers, government

Project Need: To maintain current and state-of-the-art voluntary safety standards for use in North America and harmonized with international requirements.

Interest Categories: OEM Producer, Supplier Producer, Consumer User, Retailer, Testing Organization, Government Agency, General Interest

This document specifies safety requirements applicable to combustion-engine-powered ride-on snow throwers. It is intended to be used with OPEI 8437-1 and OPEI 8437-4 to achieve the full requirements and means for ride-on snow throwers. The OPEI 8437 series deals with significant hazards, hazardous situations and events relevant to snow throwers used as intended and under the conditions reasonably foreseeable by the manufacturer.

**OPEI (Outdoor Power Equipment Institute)**

Daniel Mustico <[dmustico@opei.org](mailto:dmustico@opei.org)> | 1605 King Street | Alexandria, VA 22314 [www.opei.org](http://www.opei.org)

**National Adoption**

BSR/OPEI 8437-4-202x, Snow throwers - Safety requirements and test procedures - Part 4: Additional national and regional requirements (national adoption with modifications of ISO 8437-4, First edition 2019-07)

Stakeholders: Manufacturers, suppliers, consumers, government

Project Need: To maintain current and state-of-the-art voluntary safety standards for use in North America. This part of the OPEI 8437 series, different from the internationally harmonized requirements in OPEI 5395-1, OPEI 5395-2, and OPEI 5395-3, includes modifications to specify additional/unique requirements applicable to the U.S./North America.

Interest Categories: OEM Producer, Supplier Producer, Consumer User, Retailer, Testing Organization, Government Agency, General Interest

This document provides additional national and regional requirements applicable to combustion-engine-powered, pedestrian-controlled, ride-on snow throwers. It is intended to be used with OPEI 8437-1, OPEI 8437-2, and OPEI 8437-3 to achieve the full requirements and means for pedestrian-controlled and ride-on snow throwers. The OPEI 8437 series deals with significant hazards, hazardous situations and events relevant to snow throwers used as intended and under the conditions reasonably foreseeable by the manufacturer.

**OPEI (Outdoor Power Equipment Institute)**

Greg Knott <[gknott@opei.org](mailto:gknott@opei.org)> | 1605 King Street | Alexandria, VA 22314 [www.opei.org](http://www.opei.org)

**Revision**

BSR/OPEI B175.3-202x, [Standard] for Outdoor Power Equipment – Internal Combustion Engine–Powered Hand-Held Grass Trimmers and Brushcutters – Safety and Environmental Requirements (revision of ANSI/OPEI B175.3-2019)

Stakeholders: Internal combustion engine–powered grass trimmer and brushcutter stakeholders including OEM producers & component suppliers, consumer users, retailers, testing organizations, government agencies and general interests.

Project Need: Revision of ANSI/OPEI B175.3-2019.

Interest Categories: OEM Producers, Supplier Producers, Consumer Users, Retailers, Testing Organizations, Government Agencies and General Interests

The purpose of this standard is to establish safety and environmental requirements for internal combustion engine–powered, hand-held, grass trimmers and brushcutters. The requirements of this Standard apply to internal combustion engine–powered, hand-held, grass trimmers intended for use with flexible nonmetallic line, or other types of nonmetallic cutting attachments, and internal combustion engine–powered, hand-held, brushcutters intended for use with cutting blades and other cutting attachments.

**TIA (Telecommunications Industry Association)**

Teesha Jenkins <[tjenkins@tiaonline.org](mailto:tjenkins@tiaonline.org)> | 1320 North Courthouse Road, Suite 200 | Arlington, VA 22201-2598 [www.tiaonline.org](http://www.tiaonline.org)

**Revision**

BSR/TIA 455-86-B-202x, FOTP-86 Optical Fiber Cable Jacket Shrinkage (revision and redesignation of ANSI/TIA 455-86-A-2014 (R2024))

Stakeholders: Test laboratories, cable manufacturers, TIA TR-42.11, TIA TR-42.13, IEC SC86A, IEC SC86B.

Project Need: Revise current American National Standard.

Interest Categories: User, Producer, and General Interest

Revise ANSI/TIA-455-86-A, FOTP-86 Optical fiber cable jacket shrinkage. Change oven to maintain +/- 3 Å°C, sample can move freely on horizontal surface and shrinkage to a positive value.

## **ULSE (UL Standards and Engagement)**

Vanessa Johanneson <[Vanessa.Johanneson@ul.org](mailto:Vanessa.Johanneson@ul.org)> | 1603 Orrington Avenue | Evanston, IL 60201 <https://ulse.org/>

### ***New Standard***

BSR/UL 2140-202x, Prefabricated Power Distribution Assemblies (new standard)

Stakeholders: Power Distribution manufacturers, AHJ, Engineers, Electricians and installers

Project Need: There is a need to develop power distribution systems that integrate power distribution equipment, using NFPA 70 (NEC) installation requirements.

Interest Categories: Authorities Having Jurisdiction (AHJ), Commercial/Industrial User, General, Government, Producer, Supply Chain, and Testing Standards

This Standard specifies requirements for prefabricated power distribution assemblies rated up to 1000 Vac or 1500 Vdc, which include pre-installed electrical distribution systems with equipment, raceways, and conductors that may become concealed after installation. These assemblies are intended for fixed indoor or outdoor use within an overall enclosure but exclude requirements for the enclosure itself, fire protection systems, structural components like frames or platforms, external access spaces, and spacing of energy storage systems (ESS) not integral to the assembly.

## **ULSE (UL Standards and Engagement)**

Doreen Stocker <[Doreen.Stocker@ul.org](mailto:Doreen.Stocker@ul.org)> | 12 Laboratory Drive | Research Triangle Park, NC 27709-3995 <https://ulse.org/>

### ***New Standard***

BSR/UL 62841-4-1001-202x, Standard for Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 4-1001: Particular requirements for Electric Battery-Powered Pruning Saws (new standard)

Stakeholders: Consumers, supply chain, testing & standards organizations, commercial/industrial users and manufacturers of electric battery-powered pruning saws which have similar construction to a miniature chain saw.

Project Need: UL 62841-4-1 Annex 101.DVB, Additional Requirements For Battery-Operated Pruning Saws, provides requirements for a specific type of pruning saw which has a similar construction to a miniature chain saw. Alternative battery-operated pruning saw product designs have been developed that require a different set of specific safety requirements which should be contained in a separate particular safety standard to be used in conjunction with the standard UL 62841-1 ; CAN/CSA-C22.2 No. 62841-1-15 Safety Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery – Safety – Part 1: General Requirements - First Edition

Interest Categories: AHJ, Commercial/Industrial Users, Consumers, General, Government, International Delegate, Producers, Supply Chain and Testing & Standards Organizations.

This International Standard provides safety requirements for Electric Battery-Powered Pruning Saws.

# Call for Comment on Standards Proposals

## American National Standards

This section solicits public comments on proposed draft new American National Standards, including the national adoption of ISO and IEC standards as American National Standards, and on proposals to revise, reaffirm or withdraw approval of existing American National Standards. A draft standard is listed in this section under the ANSI-accredited standards developer (ASD) that sponsors it and from whom a copy may be obtained. Comments in connection with a draft American National Standard must be submitted in writing to the ASD no later than the last day of the comment period specified herein. Such comments shall be specific to the section (s) of the standard under review and include sufficient detail so as to enable the reader to understand the commenter's position, concerns and suggested alternative language, if appropriate. Please note that the ANSI Executive Standards Council (ExSC) has determined that an ASD has the right to require that interested parties submit public review comments electronically, in accordance with the developer's procedures.

### Ordering Instructions for "Call-for-Comment" Listings

1. Order from the organization indicated for the specific proposal.
2. Use the full identification in your order, including the BSR prefix; for example, Electric Fuses BSR/SAE J554.
3. Include remittance with all orders.
4. BSR proposals will not be available after the deadline of call for comment.

Comments should be addressed to the organization indicated, with a copy to the Board of Standards Review, American National Standards Institute, 25 West 43rd Street, New York, NY 10036. e-mail: [psa@ansi.org](mailto:psa@ansi.org)

\* Standard for consumer products

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## Comment Deadline: January 18, 2026

### ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.)

180 Technology Parkway, Peachtree Corners, GA 20092 | [ksosa@ashrae.org](mailto:ksosa@ashrae.org), [www.ashrae.org](http://www.ashrae.org)

#### Addenda

ASHRAE Addendum i to ANSI/ASHRAE Standard 15-2024, Safety Standard for Refrigeration Systems (addenda to ANSI/ASHRAE Standard 15-2024)

Updates made to the language in section 5.2.2 to show the mark up based on the 2024 edition and reorder the examples of low probability systems. In addition, it clarifies that the secondary coolant pressure requirement applies to indirect and double indirect open spray systems.

[Click here to view these changes in full](#)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Online Comment Database at <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

### ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.)

180 Technology Parkway, Peachtree Corners, GA 20092 | [ksosa@ashrae.org](mailto:ksosa@ashrae.org), [www.ashrae.org](http://www.ashrae.org)

#### Addenda

ASHRAE Addendum m to ANSI/ASHRAE Standard 15-2024, Safety Standard for Refrigeration Systems (addenda to ANSI/ASHRAE Standard 15-2024)

This addendum addresses the use of the terms "pipe", "piping", "tube", and "tubing" by cleaning up the use of each.

[Click here to view these changes in full](#)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Online Comment Database at <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

## Comment Deadline: January 18, 2026

### **ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.)**

180 Technology Parkway, Peachtree Corners, GA 20092 | [ksosa@ashrae.org](mailto:ksosa@ashrae.org), [www.ashrae.org](http://www.ashrae.org)

#### **Addenda**

ASHRAE Addendum s to ANSI/ASHRAE Standard 15-2024, Safety Standard for Refrigeration Systems (addenda to ANSI/ASHRAE Standard 15-2024)

This Addendum clarifies requirements for application of joints for copper linesets, and expands welded joints to copper tube.

[Click here to view these changes in full](#)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Online Comment Database at <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

### **ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.)**

180 Technology Parkway, Peachtree Corners, GA 30092 | [etoto@ashrae.org](mailto:etoto@ashrae.org), [www.ashrae.org](http://www.ashrae.org)

#### **Addenda**

BSR/ASHRAE/IES Addendum d to ANSI/ASHRAE/IES Standard 90.2-2024, High-Performance Energy Design of Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.2-2024)

This addendum modifies the envelope backstop tables, removing Table 6.3 and making U-Factors and SHGC values more stringent in Table 7.1, which is intended to create alignment with current minimum national model code requirements.

[Click here to view these changes in full](#)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Online Comment Database at <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

### **EOS/ESD (ESD Association, Inc.)**

218 W. Court Street, Rome, NY 13440 | [cearl@esda.org](mailto:cearl@esda.org), <https://www.esda.org>

#### **Revision**

BSR/EOS ESD STM4.1-202x, ESD Association Standard Test Method for the Protection of Electrostatic Discharge Susceptible Items - Worksurfaces - Resistance Measurements (revision of ANSI/ESD STM4.1-2018)

This document establishes methods for resistance measurements of worksurfaces, shelving, and mobile equipment used as workstations with a resistance point to point and a resistance point to groundable point of  $1.0 \times 10^9$  ohms. The use of this document or the procedures defined herein may not apply to facilities where ordnance, flammables, or explosives are stored or handled. NOTE: Measurements may be limited in accuracy below  $1.0 \times 10^3$  ohms. The lowest measurement value will be limited to the value obtained in Annex A.2. NOTE: Other properties may be important in the selection of a worksurface, shelving, and mobile equipment. See Annex B.

[Click here to view these changes in full](#)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Christina Earl <[cearl@esda.org](mailto:cearl@esda.org)>

## Comment Deadline: January 18, 2026

### IAPMO (ASSE Chapter) (ASSE International Chapter of IAPMO)

18927 Hickory Creek Drive, Suite 220, Mokena, IL 60448 | [standards@iapmostandards.org](mailto:standards@iapmostandards.org), [www.asse-plumbing.org](http://www.asse-plumbing.org)

#### Revision

BSR/ASSE 1013-202x, Reduced pressure principle (RP) backflow prevention assemblies (revision of ANSI/ASSE 1013-2021)

The purpose of Reduced Pressure Principle Backflow Prevention Assemblies (RP) is to keep contaminated water from flowing back into a potable water distribution system when some abnormality in the system causes the pressure to be temporarily higher in the contaminated part of the system than in the potable water supply piping.

[Click here to view these changes in full](#)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Terry Burger <[standards@iapmostandards.org](mailto:standards@iapmostandards.org)>

### NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105 | [mmilla@nsf.org](mailto:mmilla@nsf.org), [www.nsf.org](http://www.nsf.org)

#### Revision

BSR/NSF 42-202x (i136r1), Drinking Water Treatment Units - Aesthetic Effects (revision of ANSI/NSF 42-2023)

The point-of-use (POU) and point-of-entry (POE) systems addressed by this standard are designed to be used for the reduction of specific substances that may be present in drinking water (public or private) considered to be microbiologically safe and of known quality. Systems covered under this standard are intended to address one or more of the following: reduce substances affecting the aesthetic quality of the water, add chemicals for scale control, or limit microbial growth in the system (bacteriostatic).

[Click here to view these changes in full](#)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Monica Milla <[mmilla@nsf.org](mailto:mmilla@nsf.org)>

### NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105 | [mmilla@nsf.org](mailto:mmilla@nsf.org), [www.nsf.org](http://www.nsf.org)

#### Revision

BSR/NSF 53-202x (i169r1), Drinking Water Treatment Units - Health Effects (revision of ANSI/NSF 53-2024)

The POU and POE systems addressed by this standard are designed to be used for the reduction of specific substances that may be present in drinking water (public or private) considered to be microbiologically safe and of known quality. Systems covered under this standard are intended to reduce substances that are considered established or potential health hazards.

[Click here to view these changes in full](#)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Monica Milla <[mmilla@nsf.org](mailto:mmilla@nsf.org)>

### NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105 | [mmilla@nsf.org](mailto:mmilla@nsf.org), [www.nsf.org](http://www.nsf.org)

#### Revision

BSR/NSF 55-202x (i68r1), Ultraviolet Microbiological Water Treatment Systems (revision of ANSI/NSF 55-2024)

This standard covers UV microbiological water treatment systems and components for point-of-use (POU) and point-of-entry (POE) applications. This standard covers systems which use UV radiation within the range of 240 nm to 300 nm inclusive.

[Click here to view these changes in full](#)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Monica Milla <[mmilla@nsf.org](mailto:mmilla@nsf.org)>

## Comment Deadline: January 18, 2026

### NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | [rbrooker@nsf.org](mailto:rbrooker@nsf.org), [www.nsf.org](http://www.nsf.org)

#### Revision

BSR/NSF 455-1-202x (i3r1), Terminology for the NSF 455 Portfolio of Standards (revision of ANSI/NSF 455-1-2023)

Definitions covered by this standard consist of terminology related the NSF/ANSI 455 portfolio of standards, including terms describing for dietary supplements, cosmetics / personal care products, and over-the-counter drugs. This standard includes common definitions of terms used throughout the NSF/ANSI 455 portfolio of standards.

[Click here to view these changes in full](#)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Rachel Brooker <[rbrooker@nsf.org](mailto:rbrooker@nsf.org)>

### NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | [rbrooker@nsf.org](mailto:rbrooker@nsf.org), [www.nsf.org](http://www.nsf.org)

#### Revision

BSR/NSF 455-1-202x (i8r1), Terminology for the NSF 455 Portfolio of Standards (revision of ANSI/NSF 455-1-2023)

Definitions covered by this standard consist of terminology related the NSF/ANSI 455 portfolio of standards, including terms describing for dietary supplements, cosmetics / personal care products, and over-the-counter drugs. This standard includes common definitions of terms used throughout the NSF/ANSI 455 portfolio of standards.

[Click here to view these changes in full](#)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Rachel Brooker <[rbrooker@nsf.org](mailto:rbrooker@nsf.org)>

### ULSE (UL Standards and Engagement)

47173 Benicia Street, Fremont, CA 94538 | [Linda.L.Phinney@ul.org](mailto:Linda.L.Phinney@ul.org), <https://ulse.org/>

#### Revision

BSR/UL 758-202X, Standard for Safety for Appliance Wiring Material (revision of ANSI/UL 758-2024)  
Annealed Copper Wire, Revised Table 5.3 and Conductor Strand Size, Revised Table 5.3

[Click here to view these changes in full](#)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: <https://csds.ul.com/ProposalAvailable>

### ULSE (UL Standards and Engagement)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | [Doreen.Stocker@ul.org](mailto:Doreen.Stocker@ul.org), <https://ulse.org/>

#### Revision

BSR/UL 62841-2-10-202x, Standard for Safety Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 2-10: Particular Requirements for Hand-Held Mixers (revision of ANSI/UL 62841-2-10-2017 (R2022))

Proposed Adoption of IEC 62841-2-10:2017/AMD1:2024

[Click here to view these changes in full](#)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: <https://csds.ul.com/Home/ProposalsDefault.aspx>

## Comment Deadline: February 2, 2026

### **A3 (Association for Advancing Automation)**

900 Victors Way, Suite 140, Ann Arbor, MI 48108-5210 | [cfranklin@automate.org](mailto:cfranklin@automate.org), [www.automate.org/robotics](http://www.automate.org/robotics)

#### ***New Standard***

BSR/A3 R15.08-3-202x, Industrial Mobile Robots - Safety Requirements - Part 3: Use of IMR Applications (new standard)

This document, Part 3 of the R15.08 series, provides safety requirements for users of industrial mobile robot (IMR) applications, including their operating environments, over the entire lifecycle of the machinery. The other parts of R15.08 are Part 1 (providing safety requirements for IMRs) and Part 2 (providing safety requirements for the integration of IMR systems and IMR applications). The use of IMR applications requires that the user reduce risks related to: maintenance of the IMR application; maintenance of the current operating environment (COE); and complexities of an industrial environment that might contain a mix of autonomous or automatic mobile machines, human-driven machines (e.g., forklifts, scissor lifts), affected personnel (pedestrians moving through the area), racks and storage, and fixed-in-place machinery. The user is responsible for the continued safe operation of IMR applications including the reduction of risk. Among other risk reduction measures (RRMs) described in this document (Part 3), training or retraining of affected persons is an important part of risk reduction.

Single copy price: Draft Standard is available free of charge \$0.00

Obtain an electronic copy from: [standards@automate.org](mailto:standards@automate.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: [cfranklin@automate.org](mailto:cfranklin@automate.org)

### **APTech (ASC CGATS) (Association for Print Technologies)**

450 Rev Kelly Smith Way, Nashville, TN 37203 | [jshaffer@aptech.org](mailto:jshaffer@aptech.org), [www.printtechnologies.org](http://www.printtechnologies.org) □

#### ***Reaffirmation***

BSR CGATS/ISO 12642-1 (R202x), Graphic technology - Input data for characterization of four-colour process printing - Part 1: Initial data set (reaffirm a national adoption ANSI CGATS 12642-1 (IT8.7/3)-2015 (R2020))

This part of ISO 12642 defines an input data file, a measurement procedure and an output data format for use in characterizing any four-colour printing process.

Single copy price: \$80.00

Obtain an electronic copy from: [jshaffer@aptech.org](mailto:jshaffer@aptech.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Same

### **APTech (ASC CGATS) (Association for Print Technologies)**

450 Rev Kelly Smith Way, Nashville, TN 37203 | [jshaffer@aptech.org](mailto:jshaffer@aptech.org), [www.printtechnologies.org](http://www.printtechnologies.org) □

#### ***Reaffirmation***

BSR CGATS/ISO 12642-2 (R202x), Graphic technology – Input data for characterization of four-colour process printing - Part 2: Expanded data set (reaffirm a national adoption ANSI CGATS 12642-2 (IT8.7/4)-2015 (R2020))

This part of ISO 12642 defines a dataset of ink value combinations that are intended to be used to characterize 4-colour process printing. This dataset is not optimized for any printing process or application area but is robust enough for all general applications. The needs of publication, commercial, and package printing with offset, gravure, flexography, and other printing processes have been considered. While it is primarily aimed at process colour printing with CMYK inks, it can also be used with any combination of three chromatic coloured inks and a dark ink. It is an alternate to the ISO 12642-1 dataset where more robust data is required.

Single copy price: \$115.00

Obtain an electronic copy from: [standards@aptech.org](mailto:standards@aptech.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Same

## Comment Deadline: February 2, 2026

### **APTech (ASC CGATS) (Association for Print Technologies)**

450 Rev Kelly Smith Way, Nashville, TN 37203 | [jshaffer@aptech.org](mailto:jshaffer@aptech.org), [www.printtechnologies.org](http://www.printtechnologies.org)□

#### **Reaffirmation**

BSR CGATS.9-2019 (R202x), Graphic technology - Graphic arts transmission densitometry measurements - Terminology, equations, image elements and procedures (reaffirmation of ANSI CGATS.9-2019)

This standard defines terminology, equations, process control elements, and procedures for measurement and communication of transmission densitometry data for graphic arts halftone images. "Graphic arts" includes, but is not limited to, the preparation of material for, and volume production by, production printing processes which include offset lithography, letterpress, flexography, gravure, and screen printing. Although this standard addresses halftone applications, there are situations where non-traditional halftones and/or continuous tone materials are used for which these computations are also appropriate.

Single copy price: \$16.00

Obtain an electronic copy from: [standards@aptech.org](mailto:standards@aptech.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Same

### **ASABE (American Society of Agricultural and Biological Engineers)**

2950 Niles Road, Saint Joseph, MI 49085 | [walsh@asabe.org](mailto:walsh@asabe.org), <https://www.asabe.org/>

#### **New Standard**

BSR/ASABE S652 MONYEAR-202x, Wind Loads on Circular Grain Bins (new standard)

This standard presents methods to estimate loads produced by wind pressures on walls and roofs of individual corrugated metal grain bins.

Single copy price: Free

Obtain an electronic copy from: [walsh@asabe.org](mailto:walsh@asabe.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Same

### **ASABE (American Society of Agricultural and Biological Engineers)**

2590 Niles Road, Saint Joseph, MI 49085 | [stell@asabe.org](mailto:stell@asabe.org), <https://www.asabe.org/>

#### **Withdrawal**

ANSI/ASABE/ISO 3463-2006 SEP2017 (R2020), Tractors for agriculture and forestry - Roll-over protective structures (ROPS) - Dynamic test method and acceptance conditions (withdrawal of ANSI/ASABE/ISO 3463-2006 SEP2017 (R2020))

This standard specifies a dynamic test method and the acceptance conditions for rollover protective structures (cab or frame) of wheeled tractors for agriculture and forestry. It is applicable to tractors having at least two axles for wheels mounted with pneumatic tyres, or having tracks instead of wheels, with an unballasted tractor mass of not less than 600 kg, but generally less than 6000 kg, and with a minimum track width of the rear wheels greater than 1150 mm.

Single copy price: Free

Obtain an electronic copy from: [stell@asabe.org](mailto:stell@asabe.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: [stell@asabe.org](mailto:stell@asabe.org)

## Comment Deadline: February 2, 2026

### **ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.)**

180 Technology Parkway, Peachtree Corners, GA 30092 | [tloxley@ashrae.org](mailto:tloxley@ashrae.org), [www.ashrae.org](http://www.ashrae.org)

#### **Addenda**

BSR/ASHRAE/ICC/IES/USGBC Addendum w to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2023, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2023)

This addendum provides definitions extracted from their source standards. These definitions are currently adopted automatically through reference by Standard 189.1. Putting these definitions directly in Standard 189.1 will be more helpful for users of the standard, obviating the need for multiple standards for the terminology used by Standard 189.1. Additionally, having the content of its definitions in Standard 189.1 will avoid cases where referenced definitions are changed by a different project committee without consideration or publication for review by the Standard 189.1 project committee. Several sections of Standard 189.1 are changed where it was determined that a definition was not needed. There should be minimal cost implications. The addendum is not intended to change technical requirements beyond clarifying application of the standard.

Single copy price: Free

Obtain an electronic copy from: Free download at <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Same

### **ASME (American Society of Mechanical Engineers)**

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 | [ansibox@asme.org](mailto:ansibox@asme.org), [www.asme.org](http://www.asme.org)

#### **Reaffirmation**

BSR/ASME BPVC Section IX-2025 (R202x), Welding, Brazing, and Fusing Qualifications (reaffirmation of ANSI/ASME BPVC Section IX-2025)

Section IX of the ASME Boiler and Pressure Vessel Code relates to the qualification of welders, welding operators, brazers, brazing operators, and fusing operators, and the procedures employed in welding, brazing, or plastic fusing in accordance with the ASME Boiler and Pressure Vessel Code and the ASME B31 Code for Pressure Piping.

Single copy price: Free

Obtain an electronic copy from: <https://cstools.asme.org/csconnect/PublicReviewPage.cfm>

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Ray Rahaman

### **ASME (American Society of Mechanical Engineers)**

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 | [ansibox@asme.org](mailto:ansibox@asme.org), [www.asme.org](http://www.asme.org)

#### **Revision**

BSR/ASME BPVC Section XIII-202x, Rules for Overpressure Protection (revision of ANSI/ASME BPVC Section XIII-2025)

The rules of this section provide the requirements for the overpressure protection of pressurized equipment such as boilers, pressure vessels, and piping systems. Overpressure protection methods include: (1) releasing excess pressure by use of pressure relief devices, (2) applying controls to prevent an increase in pressure (overpressure protection by system design), and (3) using a combination of (1) and (2).

Single copy price: Free

Obtain an electronic copy from: <https://cstools.asme.org/csconnect/PublicReviewPage.cfm>

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Colleen Rodrigues

## Comment Deadline: February 2, 2026

### ASME (American Society of Mechanical Engineers)

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 | [ansibox@asme.org](mailto:ansibox@asme.org), [www.asme.org](http://www.asme.org)

#### Revision

BSR/ASME PCC-2-202x, Repair of Pressure Equipment and Piping (revision of ANSI/ASME PCC-2-2022)

This Standard provides methods for repair of equipment, piping, pipelines, and associated ancillary equipment within the scope of ASME Pressure Technology Codes and Standards after they have been placed in service.

These repair methods include relevant design, fabrication, examination, and testing practices and may be temporary or permanent, depending on the circumstances. The methods provided in this Standard address the repair of components when repair is deemed necessary based on appropriate inspection and flaw assessment. These inspection and flaw evaluation methods are not covered in this Standard, but are covered in other post-construction codes and standards. This Standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this Standard to establish appropriate safety and health practices, and determine the applicability of regulatory limitations prior to use. Only technical procedures and information are provided; administrative or policy requirements are outside of the scope of this Standard.

Single copy price: Free

Obtain an electronic copy from: <https://cstools.asme.org/csconnect/PublicReviewPage.cfm>

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Steven Rossi

### ASSP (ASC A10) (American Society of Safety Professionals)

520 N. Northwest Hwy., Park Ridge, IL 60068 | [LBauerschmidt@assp.org](mailto:LBauerschmidt@assp.org), [www.assp.org](http://www.assp.org)

#### Revision

BSR/ASSP A10.26-202X, Emergency Procedures for Construction and Demolition Sites (revision and redesignation of ANSI/ASSE A10.26-2011 (R2016))

This standard applies to those emergency procedures involving: (1) Fires, collapses, hazardous spills, and other emergencies that could endanger workers; (2) Emergency rescue of injured or ill workers or other persons, or of uninjured workers unable to rescue themselves; (3) Onsite provision of first-aid and emergency medical care; (4) Evacuation and transportation of injured or ill workers to appropriate emergency medical facilities; (5) Pre-planning and coordination of emergency plan with emergency medical facilities; and (6) Training on emergency procedures/plans for workers and other groups.

Single copy price: \$125.00

Obtain an electronic copy from: [LBauerschmidt@assp.org](mailto:LBauerschmidt@assp.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Same

### AWS (American Welding Society)

8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 | [bboddiger@aws.org](mailto:bboddiger@aws.org), [www.aws.org](http://www.aws.org)

#### New Standard

BSR/AWS B5.31-202x, Specification for the Qualification of B31 Owners Inspectors (new standard)

This standard describes the requirements for qualification as an Owner's Inspector as described in the ASME B31 Codes. The requirements include education, experience, and written examinations. This standard also covers the job functions a qualified Owner's Inspector should be able to perform.

Single copy price: \$Member 30/Non-Member 40

Obtain an electronic copy from: [bboddiger@aws.org](mailto:bboddiger@aws.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Brenda Boddiger <[bboddiger@aws.org](mailto:bboddiger@aws.org)>

## Comment Deadline: February 2, 2026

### **EOS/ESD (ESD Association, Inc.)**

218 W. Court Street, Rome, NY 13440 | [cearl@esda.org](mailto:cearl@esda.org), <https://www.esda.org>

#### **Revision**

BSR/EOS ESD SP17.1-202x, ESD Association Standard Practice for the Protection of Electrostatic Discharge - Susceptible Items - Process Assessment Techniques (revision of ANSI/ESD SP17.1-2020)

This document applies to activities that manufacture, process, assemble, install, package, label, service, test, inspect, transport, or otherwise handle electrical or electronic parts, assemblies, and equipment susceptible to damage by electrostatic discharges. This document does not apply to electrically initiated explosive items, flammable gases and liquids, or powders. The document does not address program management, compliance verification, or program manager/coordinator certification. Risks due to electromagnetic sources that produce AC fields are not considered.

Single copy price: \$165 List/135 Member

Obtain an electronic copy from: [cearl@esda.org](mailto:cearl@esda.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Christina Earl <[cearl@esda.org](mailto:cearl@esda.org)>

### **ESTA (Entertainment Services and Technology Association)**

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | [standards@esta.org](mailto:standards@esta.org), [www.esta.org](http://www.esta.org)

#### **Revision**

BSR/ES1.9-202x, Crowd Management (revision of ANSI ES1.9-2020)

This standard distinguishes “crowd management” from “crowd control”, provides an overview of crowd management theory and vocabulary, and demonstrates how to apply these terms to certain reasonably foreseeable risks that arise during live events. The standard is intended both to identify minimum requirements and provide questions and suggestions that help event organizers make reasonable choices under the circumstances of their event. This revision adds a new section 4.1.1.1 describing “Zone-Ex” - the external zone outside of an event perimeter. No other changes have been made to published document’s text.

Single copy price: Free

Obtain an electronic copy from: [https://tsp.esta.org/tsp/documents/public\\_review\\_docs.php](https://tsp.esta.org/tsp/documents/public_review_docs.php)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: [standards@esta.org](mailto:standards@esta.org)

### **HI (Hydraulic Institute)**

300 Interpace Parkway, Building A, 3rd Floor, #280, Parsippany, NJ 07054 | [achatterjee@pumps.org](mailto:achatterjee@pumps.org), [www.pumps.org](http://www.pumps.org)

#### **Revision**

BSR/HI 9.6.7-202x, Rotodynamic Pumps - Guideline for Effects of Liquid Viscosity on Performance (revision of ANSI/HI 9.6.7-2021)

This edition of ANSI/HI 9.6.7, Rotodynamic pumps – Guideline for Effects of Liquid Viscosity on Performance, includes a reformatting of the general document to improve the readability and usability of the guideline by following a more prescriptive approach. Additionally, updates regarding further clarification on the uncertainty and application of affinity rules. All examples have been moved to appendixes to improve readability and clarification.

Single copy price: \$50.00

Obtain an electronic copy from: [achatterjee@pumps.org](mailto:achatterjee@pumps.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Same

## Comment Deadline: February 2, 2026

### IAPMO (Z) (International Association of Plumbing and Mechanical Officials)

4755 East Philadelphia Street, Ontario, CA 91761 | [standards@iapmostandards.org](mailto:standards@iapmostandards.org), <https://www.iapmostandards.org>

#### ***New Standard***

BSR/IAPMO Z1404-202x, Combined Hand Washing Systems (new standard)

This standard covers combined hand-washing systems comprised of electronically actuated soap dispensers, faucets, and hand air-dryers, hot-water on-demand or automatic-activated hot-water pumping systems, and specifies requirements for materials, physical characteristics, performance testing, and markings.

Single copy price: Free

Obtain an electronic copy from: [standards@iapmostandards.org](mailto:standards@iapmostandards.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Same

### IAPMO (Z) (International Association of Plumbing and Mechanical Officials)

4755 East Philadelphia Street, Ontario, CA 91761 | [standards@iapmostandards.org](mailto:standards@iapmostandards.org), <https://www.iapmostandards.org>

#### ***New Standard***

BSR/IAPMO Z1405-202x, Elastomeric Test Caps, Cleanout Caps, and Combination Test Caps/Shielded Couplings (new standard)

This Standard covers elastomeric test caps, cleanout caps, and combination test caps/shielded couplings, and specifies requirements for materials, physical characteristics, performance testing, and markings.

Single copy price: Free

Obtain an electronic copy from: [standards@iapmostandards.org](mailto:standards@iapmostandards.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Same

### ISEA (International Safety Equipment Association)

1101 Wilson Blvd, Suite 1425, Arlington, VA 22209 | [ajjarrell@safetysafetyequipment.org](mailto:ajjarrell@safetysafetyequipment.org), [www.safetysafetyequipment.org](http://www.safetysafetyequipment.org)

#### ***Revision***

BSR/ISEA Z89.1-202x, Industrial Head Protection (revision of ANSI/ISEA Z89.1-2014 (R2019))

This standard establishes minimum performance and labeling requirements for protective helmets used in industrial and occupational settings under normal temperature conditions and optionally at high and low temperatures and when worn in the reversed position. It also includes requirements for high-visibility helmets and specifies test methods for evaluating all requirements.

Single copy price: Draft Standard is available free of charge \$0.00

Obtain an electronic copy from: [ajjarrell@safetysafetyequipment.org](mailto:ajjarrell@safetysafetyequipment.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: [ajjarrell@safetysafetyequipment.org](mailto:ajjarrell@safetysafetyequipment.org)

### ISEA (International Safety Equipment Association)

1101 Wilson Blvd, Suite 1425, Arlington, VA 22209 | [ajjarrell@safetysafetyequipment.org](mailto:ajjarrell@safetysafetyequipment.org), [www.safetysafetyequipment.org](http://www.safetysafetyequipment.org)

#### ***Revision***

BSR/ISEA Z308.1-202x, Minimum Requirements for Workplace First Aid Kits and Supplies (revision of ANSI/ISEA Z308.1-2021)

This standard establishes minimum performance requirements for first aid kits and their supplies that are intended for use in various work environments. Classification of first-aid kits, designating the assortment of items and quantity of each item is based the complexity of the work environment and level of hazards. First-aid kit containers are classified by portability, ability to be mounted, resistance to water and corrosion, and impact resistance.

Single copy price: Draft Standard is available free of charge \$0.00

Obtain an electronic copy from: [ajjarrell@safetysafetyequipment.org](mailto:ajjarrell@safetysafetyequipment.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: [ajjarrell@safetysafetyequipment.org](mailto:ajjarrell@safetysafetyequipment.org)

## Comment Deadline: February 2, 2026

### **NIST/ITL (National Institute of Standards and Technology/Information Technology Laboratory)**

100 Bureau Drive MS 8940, Gaithersburg, MD 20899-8900 | [biometrics-editor@nist.gov](mailto:biometrics-editor@nist.gov), [www.nist.gov](http://www.nist.gov)

#### **Revision**

BSR/NIST-ITL 1-202x, Data Format for the Interchange of Fingerprint, Face & Other Biometric Information (revision of ANSI/NIST-ITL 1-2011 Update:2015)

The ANSI/NIST-ITL Standard is used to ensure interoperability between biometric systems, and consistency in file formats for biometric data exchange.

Single copy price: Free

Obtain an electronic copy from: <https://www.nist.gov/programs-projects/ansinist-itl-standard>

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Jennifer Stathakis <[biometrics-editor@nist.gov](mailto:biometrics-editor@nist.gov)>

### **TIA (Telecommunications Industry Association)**

1320 North Courthouse Road, Suite 200, Arlington, VA 22201-2598 | [tjenkins@tiaonline.org](mailto:tjenkins@tiaonline.org), [www.tiaonline.org](http://www.tiaonline.org)

#### **New Standard**

BSR/TIA 604-20-202x, FOCIS 20 Fiber Optic Connector Intermateability Standard Type AIM Connector (new standard)

Create a new FOCIS document to specify AIM (Alignment Independent Multifiber) connector/adapter interfaces and intermateability. Entire document is open for comment.

Single copy price: \$93.00

Obtain an electronic copy from: [standards-process@tiaonline.org](mailto:standards-process@tiaonline.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Same

### **ULSE (UL Standards and Engagement)**

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | [Tony.Partridge@ul.org](mailto:Tony.Partridge@ul.org), <https://ulse.org/>

#### **National Adoption**

BSR/UL 61810-1-202x, Electromechanical Elementary Relays - Part 1: General Requirements (national adoption of IEC 61810-1 with modifications and revision of ANSI/UL 61810-1-2020)

Propose New Bi-national Standard Adoption of IEC No. 61810-1.

Single copy price: Free

Obtain an electronic copy from: <https://csds.ul.com/Home/ProposalsDefault.aspx>

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: <https://csds.ul.com/Home/ProposalsDefault.aspx>

### **ULSE (UL Standards and Engagement)**

12 Laboratory Dr, Research Triangle, NC 27709 | [anastasia.letaw@ul.org](mailto:anastasia.letaw@ul.org), <https://ulse.org/>

#### **Reaffirmation**

BSR/UL 60079-33-2021 (R202x), Standard for Safety for Explosive Atmospheres - Part 33: Equipment Protection by Special Protection s (reaffirm a national adoption ANSI/UL 60079-33-2021)

Reaffirmation and continuance of the First Edition of the Standard for Safety for Explosive Atmospheres – Part 33: Equipment Protection by Special Protection “s”, UL 60079-33, as an American National Standard.

Single copy price: Free

Obtain an electronic copy from: <https://csds.ul.com/ProposalAvailable>

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: <https://csds.ul.com/ProposalAvailable>

## Comment Deadline: February 2, 2026

### ULSE (UL Standards and Engagement)

47173 Benicia Street, Fremont, CA 94538 | [Linda.L.Phinney@ul.org](mailto:Linda.L.Phinney@ul.org), <https://ulse.org/>

#### Revision

BSR/UL 4703-202X, Standard for Safety for Photovoltaic Wire (revision of ANSI/UL 4703-2014 (R2020))

Marking for Other Than Class B, C or SIW, New 11.2 (I)

Single copy price: Free

Obtain an electronic copy from: <https://csds.ul.com/ProposalAvailable>

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: <https://csds.ul.com/ProposalAvailable>

### ULSE (UL Standards and Engagement)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | [Tony.Partridge@ul.org](mailto:Tony.Partridge@ul.org), <https://ulse.org/>

#### Revision

BSR/UL 61010-2-201-202x, Standard for Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-201: Particular Requirements for Control Equipment (revision of ANSI/UL 61010-2-201-2018 (R2022))

(1) Adoption of the Third Edition of IEC 61010-2-201: 2024.

Single copy price: Free

Obtain an electronic copy from: <https://csds.ul.com/Home/ProposalsDefault.aspx>

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: <https://csds.ul.com/Home/ProposalsDefault.aspx>

### ULSE (UL Standards and Engagement)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | [Doreen.Stocker@ul.org](mailto:Doreen.Stocker@ul.org), <https://ulse.org/>

#### Revision

BSR/UL 62841-2-3-202x, Standard for Safety for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 2-3: Particular Requirements for Hand-Held Grinders, Disc-Type Polishers and Disc-Type Sanders (revision of ANSI/UL 62841-2-3-2022)

Proposed adoption of Amendment 1 and Corrigendum 1 of the First Edition of IEC 62841-2-3:2020, Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 2-3:

Particular requirement for hand-held grinders, disc-type polishers and disc-type sanders, as a revision of the First Edition of UL 62841-2-3.

Single copy price: Free

Obtain an electronic copy from: <https://csds.ul.com/Home/ProposalsDefault.aspx>

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: <https://csds.ul.com/Home/ProposalsDefault.aspx>

## Comment Deadline: February 17, 2026

### **ABMA (American Brush Manufacturers Association)**

1432 Riverwalk Ct., P.O. Box 102, Waterville, OH 43566 | [dfrendt@abma.org](mailto:dfrendt@abma.org), [www.abma.org](http://www.abma.org)

#### **Revision**

BSR/ABMA B165.1 R2026-202x, Power-Driven Brushing Tools - Safety Requirements for Design, Care, and Use (revision of ANSI B165.1-2019)

The standard establishes the rules and specifications for safety that apply in the design, use and care of power-driven brushing tools, which are specifically defined and covered under the scope of the standard. It includes specifications for shanks, adapters, flanges, collets, chucks and safety guards and the rules for proper storage, handling, mounting and use of brushes.

Single copy price: Free

Order from: [https://abma.org/wp-content/uploads/2025/09/B165.1\\_R2025\\_CompleteBallotPackage.pdf](https://abma.org/wp-content/uploads/2025/09/B165.1_R2025_CompleteBallotPackage.pdf)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Donna Frendt <[dfrendt@abma.org](mailto:dfrendt@abma.org)>

### **ASME (American Society of Mechanical Engineers)**

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 | [ansibox@asme.org](mailto:ansibox@asme.org), [www.asme.org](http://www.asme.org)

#### **New Standard**

BSR/ASME EA-10-202x, Decarbonization Assessment for Facilities (new standard)

This Standard defines requirements for preparing, conducting, and reporting facility-wide decarbonization assessments to reduce Scope 1 and 2 GHG emissions, aligned with ISO 50001 EnMS, decarbonization strategy, and GHG inventory. It applies to industrial and large facilities, covering energy use analysis, improvement opportunities (efficiency, electrification, onsite generation, fuel switching, carbon capture), and fugitive/process GHG sources.

Single copy price: Free

Order from: <https://cstools.asme.org/csconnect/PublicReviewPage.cfm>

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Shaimaa Khalifa

### **ASME (American Society of Mechanical Engineers)**

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 | [ansibox@asme.org](mailto:ansibox@asme.org), [www.asme.org](http://www.asme.org)

#### **Reaffirmation**

BSR/ASME PTC 6A-2000 (R202x), Appendix A to PTC 6, The Test Code for Steam Turbines (reaffirmation of ANSI/ASME PTC 6A-2000 (R2016))

This Appendix helps facilitate the calculation and correction of turbine test results by furnishing numerical examples of the procedures outlined in PTC 6.

Single copy price: \$157.00

Order from: <https://cstools.asme.org/csconnect/PublicReviewPage.cfm>

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Donnie Alonzo

## Comment Deadline: February 17, 2026

### ASME (American Society of Mechanical Engineers)

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#### Reaffirmation

BSR/ASME PTC 47.2-2019 (R202x), Gasification Block of an Integrated Gasification Combined Cycle Power Plant (reaffirmation of ANSI/ASME PTC 47.2-2019)

The object of this Code is to provide uniform test methods for determining the performance and effective syngas production of an integrated gasification combined cycle (IGCC) gasification block.

Single copy price: \$169.00

Order from: <https://cstools.asme.org/csconnect/PublicReviewPage.cfm>

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#### Reaffirmation

BSR/ASME PTC 47.4-2015 (R202x), Power Block of an Integrated Gasification Combined Cycle Power Plant (reaffirmation of ANSI/ASME PTC 47.4-2015 (R2020))

The object of this Code is to provide uniform test methods and procedures for the determination of the thermal performance and electrical output of an integrated gasification combined cycle (IGCC) power block.

Single copy price: \$165.00

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#### Reaffirmation

BSR/ASME PTC 52-2020 (R202x), Concentrating Solar Power Plants (reaffirmation of ANSI/ASME PTC 52-2020)

This Code provides procedures, methods, and definitions for performance testing the solar-to-thermal conversion systems (i.e., solar thermal systems) associated with concentrating solar power (CSP) plants of parabolic trough, linear Fresnel, and power tower designs.

Single copy price: \$130.00

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#### Reaffirmation

BSR/ASME PTC 70-2009 (R202x), Ramp Rates (reaffirmation of ANSI/ASME PTC 70-2009 (R2019))

This Code provides the procedures, direction, and guidance for the accurate determination, via testing, of the maximum repeatable load change rate of a power plant. This Code is applicable to all electrical generating facilities, independent of fuel source or prime movers.

Single copy price: \$50.00

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#### Revision

BSR/ASME BPVC Section XI-202x, Section XI Rules for Inservice Inspection of Nuclear Reactor Facility Components (revision of ANSI/ASME BPVC Section XI-2025a)  
Section XI, Division 1, Rules for Inservice Inspection of Nuclear Power Plant Components, of the ASME Boiler and Pressure Vessel Code provides requirements for examination, testing, and inspection of components and systems, and repair/replacement activities in a nuclear power plant. Application of Division 1 begins when the requirements of the Construction Code have been satisfied. Section XI, Division 2, Requirements for Reliability and Integrity Management (RIM) Programs for Nuclear Reactor Facilities, is a technology-neutral standard of the ASME Boiler and Pressure Vessel Code. It provides requirements for protecting pressure or structural integrity of structures, systems, and components (SSCs) that affect reliability. Application of Division 2 begins when the requirements of the Construction Code have been satisfied. It is applicable regardless of the Construction Code classification used for an SSC if the SSC is designated as important to the safety and reliability of an operating facility. Division 2 is also intended to be used during the design phase of a nuclear facility structure, system, or component and enhances coordination between the design organization and the RIM program developers. These provisions are intended to ensure access to the applicable SSCs and to ensure the existence of the proper conditions to conduct monitoring and nondestructive examination (MANDE) to support achieving SSC Reliability Targets.

Single copy price: Free

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#### Reaffirmation

INCITS 284-2011 [R202x], Information Technology - Identification Cards - Health Care Identification Cards (reaffirmation of INCITS 284-2011 [R2021])

Describes the parameters for identification cards for health care applications in the United States.

Single copy price: \$70.00

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incits2842011r2021>

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#### Reaffirmation

INCITS 381-2009/AM 1:2011 [R202x], Information technology - Finger Image Based Data Interchange Format - Amendment 1 (reaffirmation of INCITS 381-2009/AM 1:2011 [R2021])

Amendment 1 to INCITS 381:2009.

Single copy price: \$60.00

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incits3812009am2011r2021>

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#### **Reaffirmation**

INCITS 409.4-2006 [R202x], Information technology - Biometric Performance Testing and Reporting - Part 4: Operational Testing Methodologies (reaffirmation of INCITS 409.4-2006 [R2021])

This standard is Part 4 (Operational Testing Methodologies) of standard for Information Technology Biometric Performance Testing and Reporting, INCITS 409. The objective of this standard is to establish requirements for operational-performance-based biometric testing and reporting.

Single copy price: \$60.00

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incits4092006r2021>

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#### **Reaffirmation**

INCITS 409.5-2011 [R202x], Information Technology - Biometric Performance Testing and Reporting - Part 5: Framework for Testing and Evaluation of Biometric System(s) for Access Control (reaffirmation of INCITS 409.5-2011 [R2021])

This standard is concerned solely with the scientific “technical performance testing” of biometric system(s) and subsystem(s) to be used for access control.

Single copy price: \$60.00

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incits4092011r2021>

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#### **Reaffirmation**

INCITS 458-2011 [R202x], Information technology - SCSI Object-Based Storage Device Commands-2 (OSD-2) (reaffirmation of INCITS 458-2011 [R2021])

Defines the command set extensions to control operation of Object-Based Storage devices. The clause(s) of this standard pertaining to the SCSI Object-Based Storage Device class, implemented in conjunction with the applicable clauses of ISO/IEC 14776-453, SCSI Primary Commands-4 (SPC-4), specify the standard command set for SCSI Object-Based Storage devices.

Single copy price: \$60.00

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incits4582011r2021>

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#### **Reaffirmation**

INCITS 459-2011 [R202x], Information Technology - Requirements for the Implementation and Interoperability of Role Based Access Control (reaffirmation of INCITS 459-2011 [R2021])

Specifies the implementation of RBAC systems. It describes the packaging of features through the selection of functional components and feature options within a component, beginning with a core set of RBAC features that shall be included in all packages.

Single copy price: \$70.00

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#### **Reaffirmation**

INCITS 467-2011 [R202x], Information technology - SCSI Stream Commands - 3 (SSC-3) (reaffirmation of INCITS 467-2011 [R2021])

Defines the command set extensions to facilitate operation of the sequential-access device type. This standard, implemented in conjunction with the requirements of the SCSI Architecture Model - 4 standard and the applicable clauses of the SCSI Primary Commands - 4 standard, fully specifies the standard command set for the sequential-access device type.

Single copy price: \$60.00

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incits4672011r2021>

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#### **Reaffirmation**

INCITS 472-2011 [R202x], Information Technology Automation/Drive Interface - Transport Protocol - 2 (ADT-2) (reaffirmation of INCITS 472-2011 [R2021])

Defines the protocol requirements of the Automation/Drive Interface - Transport Protocol to allow conforming ADI SCSI devices to inter-operate.

Single copy price: \$60.00

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incits4722011r2021>

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#### Reaffirmation

INCITS 473-2011 [R202x], Information Technology - Conformance Testing Methodology Standard for Patron Formats Conforming to INCITS 398 2008 Information Technology - Common Biometric Exchange Formats Framework (CBEFF) (reaffirmation of INCITS 473-2011 [R2021])

Specifies the concepts test types and a conformance testing methodology to test conformance of CBEFF Biometric Information Records BIR claiming to be conformant to patron formats A the BioAPI BIR or the NIST ITL Type 99 data record specified in the INCITS 398-2008 annexes as well as in the LDS patron format for applications other than MRTD and other ICAO applications.

Single copy price: \$60.00

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incits4732011r2021>

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#### Reaffirmation

INCITS 474-2011 [R202x], Information Technology - Biometric Application Programming Interface Java (BioAPI Java) (reaffirmation of INCITS 474-2011 [R2021])

Specifies an interface of a BioAPI Java framework and BioAPI Java BSP and BioAPI BFP that will mirror the corresponding components specified in ISO/IEC 19784-1.

Single copy price: \$60.00

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incits4742011r2021>

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#### Reaffirmation

INCITS 478-2011 [R202x], Information technology - Serial Attached SCSI - 2.1 (SAS-2.1) (reaffirmation of INCITS 478-2011 [R2021])

The SCSI family of standards provides for many different transport protocols that define the rules for exchanging information between different SCSI devices. This standard specifies the functional requirements for the Serial Attached SCSI (SAS) physical interconnect, which is compatible with the Serial ATA physical interconnect. The SAS Protocol Layer (SPL) standard documents the SAS protocol layer corresponding to the Serial Attached SCSI - 2.1 (SAS-2.1) and beyond, defining the rules for exchanging information between SCSI devices using a serial interconnect.

Single copy price: \$60.00

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#### **Reaffirmation**

INCITS 479-2011/AM 1-2016 [R202x], Information Technology - Fibre Channel - Physical Interface - 5/Amendment 1 (FC-PI-5/AM1) (reaffirmation of INCITS 479-2011/AM 1-2016 [R2021])

This amendment updates INCITS 479-2011, FC-PI-5, to allow for forward error correction on 16GFC EL variants.

Single copy price: \$70.00

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incits4792011am2016r2021>

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#### **Reaffirmation**

INCITS 481-2011 [R202x], Information technology - Fibre Channel Protocol for SCSI - 4 (FCP-4) (reaffirmation of INCITS 481-2011 [R2021])

FCP-4 defines the fourth-generation Fibre Channel Protocol to be used to transport SCSI commands over the T11 Fibre Channel interface.

Single copy price: \$60.00

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incits4812011r2021>

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#### **Reaffirmation**

INCITS 488-2016 [R202x], Information Technology - Fibre Channel - Framing and Signaling - 4 (FC-FS-4) (reaffirmation of INCITS 488-2016 [R2021])

This standard describes the framing and signaling interface of a high-performance serial link for support of FC-4s associated with upper-level protocols (e.g., SCSI, IP, SBCCS, VI).

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Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incits4882016r2021>

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#### **Reaffirmation**

INCITS 501-2016 [R202x], Information technology - Security Features for SCSI Commands (SFSC) (reaffirmation of INCITS 501-2016 [R2021])

Defines security features for use by all SCSI devices. This standard defines the security model that is basic to every device model and the parameter data that may apply to any device model.

Single copy price: \$60.00

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#### **Reaffirmation**

INCITS 504-3-2016 [R202x], Information Technology - Generic Identity Command Set - Part 3: GICS Platform Testing Requirements (reaffirmation of INCITS 504-3-2016 [R2021])

Testing in Part 3 is limited to definition for what testing is required and does not provide technical guidelines on the methodology to be used during the testing and validation of applicable components. Focuses on platform conformance testing of Part 1 and Part 2, and focuses on what needs to be tested to enforce full functionality and interoperability. In particular, instances of brute force, exhaustive, or open-ended negative testing are not specified in the requirements herein. There are no test requirements for negative testing to determine abnormal behavior with the exception of interrogating access control rules and elicitation of error codes where possible and appropriate.

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#### **Reaffirmation**

INCITS 504-1-2013/AM 1-2016 [R202x], Information technology - Generic Identity Command Set - Part 1: Card Application Command Set - Amendment 1 (reaffirmation of INCITS 504-1-2013/AM1-2016 [R2021])

This amendment aligns Part 1 of INCITS 504-1 to the newly released ISO/IEC 7816-4 standard; simplifies the Opacity protocols and fixes bugs; modifies SCP03 protocol to describe creation of share secret Z; makes editorial changes; adds clarifications; and fixes errors.

Single copy price: \$70.00

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incits5042013am12016r2021>

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#### **Reaffirmation**

INCITS 504-2-2013/AM 1-2016 [R202x], Information Technology - Generic Identity Command Set - Part 2: Card Administrative Command Set - Amendment 1 (reaffirmation of INCITS 504-2-2013/AM 1-2016 [R2021])

This amendment to INCITS 504-1 adds On Card Comparison capability (OCC); adds Over The Air (OTA) capability; makes editorial changes; adds clarifications, and fixes errors.

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#### **Reaffirmation**

INCITS 506-2021 [R202x], Information technology - SBC-4 (SCSI Block Commands - 4) (reaffirmation of INCITS 506-2021)

SCSI Block Commands-4 is the next generation of the SCSI Block Commands. It follows SBC-3, SBC-2, and SBC. The following items should be considered for inclusion in SCSI Block Commands-4: (a) enhancements to block commands; (b) enhancements to the application of the definitions for read, write, and other operations; (c) corrections and clarifications; and (d) other capabilities that may fit within the scope of this project.

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#### **Reaffirmation**

INCITS 507-2016 [R202x], Information technology - PCIe® architecture Queuing Interface - 2 (PQI-2) (reaffirmation of INCITS 507-2016 [R2021])

The SCSI family of standards provides for different transport protocols that define the methods for exchanging information between SCSI devices. This standard defines the transport methods for exchanging information between SCSI devices using a PCI Express interconnect. This standard defines a queuing layer, used by SOP. Other SCSI transport protocol standards define the methods for exchanging information between SCSI devices using other interconnects.

Single copy price: \$60.00

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#### **Reaffirmation**

INCITS 511-2016 [R202x], Information Technology - Fibre Channel - Switch Fabric - 6 (FC-SW-6) (reaffirmation of INCITS 511-2016 [R2021])

FC-SW-6 describes the operation and interaction of Fibre Channel Switches.

Single copy price: \$70.00

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#### **Reaffirmation**

INCITS 515-2016 [R202x], Information technology - SCSI Architecture Model - 5 (SAM-5) (reaffirmation of INCITS 515-2016 [R2021])

The set of Small Computer System Interface (SCSI) standards consists of this standard and the SCSI implementation standards described in 4.2. This standard defines a reference model that specifies common behaviors for SCSI devices, and an abstract structure that is generic to all SCSI I/O system implementations.

Single copy price: \$60.00

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#### **Reaffirmation**

INCITS 524-2016 [R202x], Information Technology - AT Attachment 8 - ATA/ATAPI Parallel Transport (ATA8-APT) (reaffirmation of INCITS 524-2016 [R2021])

Specifies the mandatory and optional operating features of a parallel bus transport for ATA commands described in the AT Attachment 8 - Command Set (ATA8-ACS) standard. It provides a common attachment interface for systems manufacturers, system integrators, software suppliers, and suppliers of intelligent storage devices. This document specifies the connectors, cables, electrical, and logic parameters for the interconnect between a device and the host, and the transport protocols for transporting commands, data, status, and other relevant communications across a parallel bus interface.

Single copy price: \$70.00

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#### **Reaffirmation**

INCITS 533-2016 [R202x], Information Technology - Fibre Channel - Physical Interface - 6P (FC-PI-6P) (reaffirmation of INCITS 533-2016 [R2021])

Describes the physical interface portions of high-performance electrical and optical link variants that support the higher level Fibre Channel protocols including FC-FS-4 (reference [22]). FC-PI-6P includes the parallel four-lane variants 128GFC-SW4 and 128GFC-PSM4 and the CWDM four-wavelength variant 128GFC-CWMD4.

Single copy price: \$70.00

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#### **Reaffirmation**

INCITS 536-2016 [R202x], Information technology - Zoned Block Commands (ZBC) (reaffirmation of INCITS 536-2016 [R2021])

Defines the model and command set extensions to facilitate operation of zoned block devices.

Single copy price: \$60.00

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incits5362016r2021>

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#### **Reaffirmation**

INCITS 537-2016 [R202x], Information technology - Zoned Device ATA Command Set (ZAC) (reaffirmation of INCITS 537-2016 [R2021])

The set of AT Attachment standards consists of this standard and the ATA implementation standards described in AT Attachment - 8 ATA/ATAPI Architecture Model (ATA8-AAM). This standard specifies the command set that host systems use to access storage devices that implement the Host Aware Zones feature set (see 4.3) or the Host Managed Zones feature set (see 4.4). This standard provides a common command set for systems manufacturers, system integrators, software suppliers, and suppliers of storage devices that provide one of the zones feature sets.

Single copy price: \$70.00

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#### **Reaffirmation**

INCITS 539-2016 [R202x], Information Technology - Management of Security Credentials (reaffirmation of INCITS 539-2016 [R2021])

The Simple Identity Management Profile (see clause 5) is a component profile that provides the ability to manage local accounts on a system and to represent the local system's view of a principal that is authenticated through a third-party authentication service. The Simple Identity Management Profile does not specify CIM-based mechanisms for performing the authentication of credentials.

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#### **Reaffirmation**

INCITS 546-2021 [R202x], Information technology - SCSI Architecture Model - 6 (SAM-6) (reaffirmation of INCITS 546-2021)

SCSI Architecture Model - 6 will be based on the SCSI Architecture Model - 5 standard that defines an abstract-layered model specifying those common characteristics of a SCSI domain that is exhibited by all SCSI transport protocols, SCSI command sets, and implementations to ensure compatibility with device drivers and applications regardless of underlying interconnect technology.

Single copy price: \$60.00

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#### **Reaffirmation**

INCITS 558-2021 [R202x], Information technology - ATA Command Set - 5 (ACS-5) (reaffirmation of INCITS 558-2021)

ACS-5 is the next generation of the ATA Command Set standards. It follows ATA8-ACS, ACS-2, ACS-3, and ACS-4. ACS-5 would document the command set implemented by devices that support the ATA architecture; address new features that were not sufficiently developed for ACS-4; address any other proposals or modifications to the command set suggested or proposed by a T13 committee member; and other capabilities that may fit within the scope of this project.

Single copy price: \$70.00

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#### **Reaffirmation**

INCITS 572-2021 [R202x], Information technology - USB Attached SCSI 3 (UAS-3) (reaffirmation of INCITS 572-2021)

USB Attached SCSI-3 is the next generation of USB Attached SCSI Standards. This standard should support the following features in support of the USB-2 and USB-3 specifications: (1) allow the device to switch data transfers from one command to another before the current command is complete; and (2) other capabilities that may fit within the scope of this project.

Single copy price: \$60.00

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#### **Reaffirmation**

INCITS/ISO 19133:2005 [R202x], Geographic Information - Location Based Services - Tracking And Navigation (reaffirm a national adoption INCITS/ISO 19133:2005 [R2021])

Describes the data types, and operations associated with those types, for the implementation of tracking and navigation services. It is designed to specify web services that can be made available to wireless devices through web-resident proxy applications, but is not restricted to that environment.

Single copy price: \$229.00

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#### **Reaffirmation**

INCITS/ISO 19142:2010 [R202x], Geographic Information - Web Feature Service (reaffirm a national adoption INCITS/ISO 19142:2010 [R2021])

Specifies the behaviour of a web feature service that provides transactions on and access to geographic features in a manner independent of the underlying data store. It specifies discovery operations, query operations, locking operations, transaction operations and operations to manage stored parameterized query expressions.

Single copy price: \$229.60

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsiso191422010r2021>

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#### **Reaffirmation**

INCITS/ISO 19143:2010 [R202x], Geographic Information - Filter Encoding (reaffirm a national adoption INCITS/ISO 19143:2010 [R2021])

Describes an XML and KVP encoding of a system neutral syntax for expressing projections, selection and sorting clauses collectively called "a query expression."

Single copy price: \$229.60

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsiso191432010r2021>

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#### Reaffirmation

INCITS/ISO 9542:1988/AM 1:1999 [R202x], Information processing systems - Telecommunications and information exchange between systems - End System to Intermediate System Routeing Exchange Protocol for Use in Conjunction with the Protocol for Providing the Connectionless-Mode Network Service - Amendment 1: Addition of group composition information (reaffirm a national adoption INCITS/ISO 9542:1988/AM 1:1999 [R2021]) Specifies (a) procedures for transmission of multicast announcement, multicast address mapping and group composition information between Network entities residing in End Systems and Network entities residing in Intermediate Systems; (b) the encoding of the protocol data units used for multicast announcement, multicast address mapping and group composition information.

Single copy price: \$13.80

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsiso95421988am1999r2021>

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#### Reaffirmation

INCITS/ISO/IEC 7811-8:2014 [R202x], Identification cards - Recording technique - Part 8: Magnetic stripe - Coercivity of 51,7 kA/m (650 Oe) (reaffirm a national adoption INCITS/ISO/IEC 7811-8:2014 [R2021]) Defines the characteristics for identification cards as defined in Clause 4 of this part of ISO/IEC 7811, and the use of such cards for international interchange. This part of ISO/IEC 7811 specifies requirements for a 51,7 kA/m (650 Oe) magnetic stripe (including any protective overlay) on an identification card. The encoding technique and coded character sets are not defined, however, the specifications of ISO/IEC 7811-2 may be used. It takes into consideration both human and machine aspects and states minimum requirements.

Single copy price: \$67.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec78112014r2021>

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#### Reaffirmation

INCITS/ISO/IEC 7811-9:2015 [R202x], Identification cards - Recording technique - Part 9: Tactile identifier mark (reaffirm a national adoption INCITS/ISO/IEC 7811-9:2015 [R2021]) Specifies the physical characteristics of a tactile identifier mark used by visually impaired card holders to distinguish their cards. It defines the area on the card for the tactile identifier mark (TIM) and the layout of Braille-style embossed dots arranged in patterns to enable easy tactile recognition.

Single copy price: \$44.80

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec78112015r2021>

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#### Reaffirmation

INCITS/ISO/IEC 7812-1:2017 [R202x], Identification Cards - Identification of Issuers - Part 1: Numbering System (reaffirm a national adoption INCITS/ISO/IEC 7812-1:2017 [2021])

Specifies a numbering system for the identification of the card issuers, the format of the issuer identification number (IIN) and the primary account number (PAN).

Single copy price: \$67.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec781220172021>

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#### Reaffirmation

INCITS/ISO/IEC 7816-4:2020 [R202x], Identification Cards - Integrated Circuit Cards - Part 4: Organization, Security and Commands for Interchange (reaffirm a national adoption INCITS/ISO/IEC 7816-4:2020 [2021])

This standard is intended to be used in any sector of activity. It specifies: (a) contents of command-response pairs exchanged at the interface, (b) means of retrieval of data elements and data objects in the card, (c) structures and contents of historical bytes to describe operating characteristics of the card, (d) structures for applications and data in the card, as seen at the interface when processing commands, (e) access methods to files and data in the card, (f) a security architecture defining access rights to files and data in the card, (g) means and mechanisms for identifying and addressing applications in the card, (h) methods for secure messaging, and (i) access methods to the algorithms processed by the card. It does not describe these algorithms.

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#### Reaffirmation

INCITS/ISO/IEC 8824-1:2021 [R202x], Information technology - Abstract Syntax Notation One (ASN.1) - Part 1: Specification of basic notation (reaffirm a national adoption INCITS/ISO/IEC 8824-1:2021 [2021])

This document provides a standard notation called Abstract Syntax Notation One (ASN.1) that is used for the definition of data types, values, and constraints on data types. This document:

- defines a number of simple types, with their tags, and specifies a notation for referencing these types and for specifying values of these types;
- defines mechanisms for constructing new types from more basic types, and specifies a notation for defining such types and assigning them tags, etc.

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#### ***Reaffirmation***

INCITS/ISO/IEC 8824-2:2021 [R202x], Information technology - Abstract Syntax Notation One (ASN.1) - Part 2: Information object specification (reaffirm a national adoption INCITS/ISO/IEC 8824-2:2021 [2021])

This document is part of Abstract Syntax Notation One (ASN.1) and provides notation for specifying information object classes, information objects, and information object sets.

Single copy price: \$120.60

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#### ***Reaffirmation***

INCITS/ISO/IEC 8824-3:2021 [R202x], Information technology - Abstract Syntax Notation One (ASN.1) - Part 3: Constraint specification (reaffirm a national adoption INCITS/ISO/IEC 8824-3:2021 [2021])

This document is part of Abstract Syntax Notation One (ASN.1) and provides notation for specifying user-defined constraints, table constraints, and contents constraints.

Single copy price: \$50.40

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#### ***Reaffirmation***

INCITS/ISO/IEC 8824-4:2021 [R202x], Information technology - Abstract Syntax Notation One (ASN.1) - Part 4: Parameterization of ASN.1 specifications (reaffirm a national adoption INCITS/ISO/IEC 8824-4:2021 [2021])

This document is part of Abstract Syntax Notation One (ASN.1) and defines notation for parameterization of ASN.1 specifications.

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#### Reaffirmation

INCITS/ISO/IEC 8825-1:2021 [R202x], Information technology - ASN.1 encoding rules - Part 1: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER) (reaffirm a national adoption INCITS/ISO/IEC 8825-1:2021 [2021])

Document specifies a set of basic encoding rules that may be used to derive the specification of a transfer syntax for values of types defined using the notation specified in Rec. ITU-T X.680 | ISO/IEC 8824-1, Rec. ITU-T X.681 | ISO/IEC 8824-2, Rec. ITU-T X.682 | ISO/IEC 8824-3, and Rec. ITU-T X.683 | ISO/IEC 8824-4, collectively referred to as Abstract Syntax Notation One or ASN.1. These basic encoding rules are also to be applied for decoding such a transfer syntax in order to identify the ...

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#### Reaffirmation

INCITS/ISO/IEC 8825-2:2021 [R202x], Information technology - ASN.1 encoding rules - Part 2: Specification of Packed Encoding Rules (PER) (reaffirm a national adoption INCITS/ISO/IEC 8825-2:2021 [2021])

Specifies a set of Packed Encoding Rules that may be used to derive a transfer syntax for values of types defined in Rec. ITU-T X.680 | ISO/IEC 8824-1. These Packed Encoding Rules are also to be applied for decoding such a transfer syntax in order to identify the data values being transferred.

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#### Reaffirmation

INCITS/ISO/IEC 8825-3:2021 [R202x], Information technology - ASN.1 encoding rules - Part 3: Specification of Encoding Control Notation (ECN) (reaffirm a national adoption INCITS/ISO/IEC 8825-3:2021 [2021])

Defines a notation for specifying encodings of ASN.1 types or of parts of types. It provides several mechanisms for such specification, including:

- direct specification of the encoding using standardized notation;
- specification of the encoding by reference to standardized encoding rules;
- specification of the encoding of an ASN.1 type by reference to an encoding structure; and
- specification of the encoding using non-ECN notation.

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#### Reaffirmation

INCITS/ISO/IEC 8825-4:2021 [R202x], Information technology - ASN.1 encoding rules - Part 4: XML Encoding Rules (XER) (reaffirm a national adoption INCITS/ISO/IEC 8825-4:2021 [2021])

Specifies a set of basic XML Encoding Rules (BASIC-XER) that may be used to derive a transfer syntax for values of types defined in Rec. ITU-T X.680 | ISO/IEC 8824-1 and Rec. ITU-T X.681 | ISO/IEC 8824-2. This document also specifies a set of Canonical XML Encoding Rules (CXER) which provides constraints on the basic XML Encoding Rules and produces a unique encoding for any given ASN.1 value. This document further specifies a set of extended XML Encoding Rules (EXTENDED-XER) which adds ...

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#### Reaffirmation

INCITS/ISO/IEC 8825-5:2021 [R202x], Information technology - ASN.1 encoding rules - Part 5: Mapping W3C XML schema definitions into ASN.1 (reaffirm a national adoption INCITS/ISO/IEC 8825-5:2021 [2021])

Document specifies two versions of a mapping from any XSD Schema into an Abstract Syntax Notation One (ASN.1) schema. The ASN.1 schema for both versions support the same semantics and validate the same set of XML documents. This document specifies the final XER encoding instructions that are to be applied as part of the defined mapping to ASN.1 types, but does not specify which syntactic form is to be used for the specification of those final XER encoding instructions, or the order ...

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#### Reaffirmation

INCITS/ISO/IEC 8825-6:2021 [R202x], Information technology - ASN.1 encoding rules - Part 6: Registration and application of PER encoding instructions (reaffirm a national adoption INCITS/ISO/IEC 8825-6:2021 [2021])

This document: (a) specifies the information needed and the format to be used for specifying PER encoding instructions; (b) specifies the mechanisms for approving new PER encoding instructions from time to time and the operation of the Registration Authority for PER encoding instructions; and (c) specifies the means of associating a PER encoding instruction with an ASN.1 type using both type prefixes and an encoding control section.

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#### Reaffirmation

INCITS/ISO/IEC 8825-7:2021 [R202x], Information technology - ASN.1 encoding rules - Part 7: Specification of Octet Encoding Rules (OER) (reaffirm a national adoption INCITS/ISO/IEC 8825-7:2021 [2021])  
Specifies a set of Basic Octet Encoding Rules (BASIC-OER) that may be used to derive a transfer syntax for values of the types defined in Rec. ITU-T X.680 | ISO/IEC 8824-1, Rec. ITU-T X.681 | ISO/IEC 8824-2, Rec. ITU-T X.682 | ISO/IEC 8824-3, Rec. ITU-T X.683 | ISO/IEC 8824-4. This document also specifies a set of Canonical Octet Encoding Rules (CANONICAL-OER) which provides constraints on the Basic Octet Encoding Rules and produces a unique encoding for any given ASN.1 value.

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#### Reaffirmation

INCITS/ISO/IEC 8825-8:2021 [R202x], Information technology - ASN.1 encoding rules - Part 8: Specification of JavaScript Object Notation Encoding Rules (JER) (reaffirm a national adoption INCITS/ISO/IEC 8825-8:2021 [2021])

Specifies a set of JavaScript Object Notation Encoding Rules (JER) that may be used to derive a transfer syntax for values of types defined in Rec. ITU-T X.680 | ISO/IEC 8824-1, Rec. ITU-T X.681 | ISO/IEC 8824-2, Rec. ITU-T X.682 | ISO/IEC 8824-3 and Rec. ITU-T X.683 | ISO/IEC 8824-4. It is implicit in the specification of these encoding rules that they are also to be used for decoding. The encoding rules specified in this document are used at the time of communication; ...

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#### Reaffirmation

INCITS/ISO/IEC 10118-2:2010 [R202x], Information technology - Security techniques - Hash-functions - Part 2: Hash-functions using an n-bit block cipher (reaffirm a national adoption INCITS/ISO/IEC 10118-2:2010 [R2021])  
Specifies hash-functions which make use of an n-bit block cipher algorithm. They are therefore suitable for an environment in which such an algorithm is already implemented.

Single copy price: \$160.80

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#### **Reaffirmation**

INCITS/ISO/IEC 10373-2:2015 [R202x], Identification cards - Test methods - Part 2: Cards with magnetic stripes (reaffirm a national adoption INCITS/ISO/IEC 10373-2:2015 [R2021])

Defines test methods for characteristics of identification cards according to the definition given in ISO/IEC 7810. Each test method is cross-referenced to one or more base standards; for example, ISO/IEC 7810 or one or more of the supplementary standards that define the information storage technologies employed in identification card applications. Defines test methods which are specific to magnetic stripe technology.

Single copy price: \$160.80

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#### **Reaffirmation**

INCITS/ISO/IEC 11179-5:2015 [R202x], Information technology - Metadata registries (MDR) - Part 5: Naming principles (reaffirm a national adoption INCITS/ISO/IEC 11179-5:2015 [R2021])

Provides instruction for naming of the following items, as defined in ISO/IEC 11179-3: concept, data element concept, conceptual domain, data element, and value domain. Describes naming in a metadata registries (MDR); includes principles and rules by which naming conventions can be developed; and provides examples of naming conventions.

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#### **Reaffirmation**

INCITS/ISO/IEC 11693-2:2009 [R202x], Identification cards - Optical memory cards - Part 2: Co-existence of optical memory with other machine readable technologies (reaffirm a national adoption INCITS/ISO/IEC 11693-2:2009 [2021])

Defines the conditions under which optical memory can coexist with other machine-readable card technologies.

Single copy price: \$44.80

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec1169320092021>

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#### **Reaffirmation**

INCITS/ISO/IEC 11693-3:2015 [R202x], Identification cards - Optical memory cards - Part 3: Authentication techniques (reaffirm a national adoption INCITS/ISO/IEC 11693-3:2015 [2021])

Defines the authentication techniques.

Single copy price: \$67.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec1169320152021>

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#### **Reaffirmation**

INCITS/ISO/IEC 11694-3:2015 [R202x], Identification cards - Optical memory cards - Linear recording method - Part 3: Optical properties and characteristics (reaffirm a national adoption INCITS/ISO/IEC 11694-3:2015 [R2021])

Specifies the optical properties and characteristics of optical memory cards using the linear recording method.

Single copy price: \$44.80

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec116942015r2021>

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#### **Reaffirmation**

INCITS/ISO/IEC 11694-4:2008 [R202x], Identification cards - Optical memory cards - Linear recording method - Part 4: Logical data structures (reaffirm a national adoption INCITS/ISO/IEC 11694-4:2008 [R2021])

Defines the logical data structures for optical memory cards necessary to allow compatibility and interchange between systems using the linear recording method.

Single copy price: \$137.60

Obtain an electronic copy from: <https://webstore.ansi.org/search/find?in=1&st=11694-4%3A2008%5BR2021%5D>

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#### **Reaffirmation**

INCITS/ISO/IEC 11694-5:2014 [R202x], Identification cards - Optical memory cards - Linear recording method - Part 5: Data format for information interchange for applications using ISO/IEC 11694-4 (reaffirm a national adoption INCITS/ISO/IEC 11694-5:2014 [R2021])

Defines the data format for optical memory cards necessary to allow compatibility and interchange between systems using the linear recording method.

Single copy price: \$101.60

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#### **Reaffirmation**

INCITS/ISO/IEC 11694-6:2014 [R202x], Identification cards - Optical memory cards - Linear recording method - Part 6: Use of biometrics on an optical memory card (reaffirm a national adoption INCITS/ISO/IEC 11694-6:2014 [R2021])

Describes the use of biometric data on optical memory cards using the logical data structure described in ISO/IEC 11694-5.

Single copy price: \$44.80

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#### **Reaffirmation**

INCITS/ISO/IEC 11695-1:2015 [R202x], Identification cards - Optical memory cards - Holographic recording method - Part 1: Physical characteristics (reaffirm a national adoption INCITS/ISO/IEC 11695-1:2015 [R2021])

Defines the physical characteristics of optical memory cards using the holographic recording method.

Single copy price: \$67.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec116952015r2021>

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#### **Reaffirmation**

INCITS/ISO/IEC 11695-2:2015 [R202x], Identification cards - Optical memory cards - Holographic recording method - Part 2: Dimensions and location of accessible optical area (reaffirm a national adoption INCITS/ISO/IEC 11695-2:2015 [R2021])

Defines the dimensions and location of the accessible optical area of optical memory cards using the holographic recording method.

Single copy price: \$44.80

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec116952015r2021-2451418>

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#### **Reaffirmation**

INCITS/ISO/IEC 11695-3:2017 [R202x], Identification Cards - Optical Memory Cards - Holographic Recording Method - Part 3: Optical Properties and Characteristics (reaffirm a national adoption INCITS/ISO/IEC 11695-3:2017 [2021])

Specifies the optical properties and characteristics of optical memory cards using the holographic recording method.

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#### **Reaffirmation**

INCITS/ISO/IEC 13818-4:2004/AM3:2009 [R202x], Information technology - Generic coding of moving pictures and associated audio information - Part 4: Conformance testing - Amendment 3: Level for 108050p/60p conformance testing (reaffirm a national adoption INCITS/ISO/IEC 13818-4:2004/AM 3:2009 [R2021])  
Amendment 3 to ISO/IEC 13818-4:2004.

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#### Reaffirmation

INCITS/ISO/IEC 13818-6:1998/AM1:2000 [R202x], Information technology - Generic coding of moving pictures & associated audio info - Part 6: Extensions for DSM-CC - Amendment 1: Additions to support data broadcasting (reaffirm a national adoption INCITS/ISO/IEC 13818-6:1998/AM 1:2000 [R2021])

Amendment 1 to ISO/IEC 13818-6:1998.

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#### Reaffirmation

INCITS/ISO/IEC 14165-147:2021 [R202x], Information technology - Fibre Channel - Part 147: Physical Interfaces - 7 (FC-PI-7) (reaffirm a national adoption INCITS/ISO/IEC 14165-147:2021 [2021])

Describes the physical interface portions of high performance optical link variants that support the higher level Fibre Channel protocols including FC-FS-4 and FC-FS-5. FC-PI-7 specifies 64GFC, 32GFC and 128GFC are described in FC-PI-6 and FC-PI- 6P, respectively. 16GFC, 8GFC and 4GFC are described in FC-PI-5.

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#### Reaffirmation

INCITS/ISO/IEC 14443-2:2020 [R202x], Cards and security devices for personal identification - Contactless proximity objects - Part 2: Radio frequency power and signal interface (reaffirm a national adoption INCITS/ISO/IEC 14443-2:2020 [2021])

Specifies the characteristics of the fields to be provided for power and bi-directional communication between proximity coupling devices (PCDs) and proximity cards or objects (PICCs). This document does not specify the means of generating coupling fields, nor the means of compliance with electromagnetic radiation and human exposure regulations, which can vary depending on the country.

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#### **Reaffirmation**

INCITS/ISO/IEC 14443-3:2018/AM2:2020 [R202x], Cards and security devices for personal identification - Contactless proximity objects - Part 3: Initialization and anticollision - Amendment 2: Enhancements for harmonization (reaffirm a national adoption INCITS/ISO/IEC 14443-3:2018/AM2:2020 [2021])  
Amendment 2 to ISO/IEC 14443-3:2018.

Single copy price: \$18.40

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#### **Reaffirmation**

INCITS/ISO/IEC 14443-4:2018/AM2:2020 [R202x], Cards and security devices for personal identification - Contactless proximity objects - Part 4: Transmission protocol - Amendment 2: Enhancements for harmonization (reaffirm a national adoption INCITS/ISO/IEC 14443-4:2018/AM2:2020 [2021])  
Amendment 2 to ISO/IEC 14443-4:2018.

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#### **Reaffirmation**

INCITS/ISO/IEC 14495-1:1999 [R202x], Information technology - Lossless and near-lossless compression of continuous-tone still images: Baseline (reaffirm a national adoption INCITS/ISO/IEC 14495-1:1999 [R2021])  
Defines a set of lossless (bit-preserving) and nearly lossless (where the error for each reconstructed sample is bounded by a pre-defined value) compression methods for coding continuous-tone, gray-scale, or color digital still images. This standard specifies a process for converting source image data to compressed image data; specifies processes for converting compressed image data to reconstructed image data and specifies coded representations for compressed image data.

Single copy price: \$155.40

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#### **Reaffirmation**

INCITS/ISO/IEC 14496-3:2019 [R202x], Information technology - Coding of audio-visual objects - Part 3: Audio (reaffirm a national adoption INCITS/ISO/IEC 14496-3:2019 [2021])

Integrates many different types of audio coding: natural sound with synthetic sound, low-bitrate delivery with high-quality delivery, speech with music, complex soundtracks with simple ones, and traditional content with interactive and virtual-reality content. This document standardizes individually sophisticated coding tools to provide a novel, flexible framework for audio synchronization, mixing, and downloaded post-production.

Single copy price: \$172.20

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#### **Reaffirmation**

INCITS/ISO/IEC 14496-4:2004 [R202x], Information technology - Coding of audio-visual objects - Part 4: Conformance testing (reaffirm a national adoption INCITS/ISO/IEC 14496-4:2004 [R2021])

Specifies how tests can be designed to verify whether bistreams and decoders meet requirements specified in parts 1, 2, and 3 of ISO/IEC 14496 and, for part 6 of ISO/IEC 14496, it specifies how tests can be designed for bitstream delivery over various delivery technologies in an interoperable transparent manner to parts 1, 2, and 3. In this part of ISO/IEC 14496, encoders are not addressed specifically.

Single copy price: \$172.20

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#### **Reaffirmation**

INCITS/ISO/IEC 14496-6:2000 [R202x], Information technology - Coding of audio-visual objects - Part 6: Delivery Multimedia Integration Framework (DMIF) (reaffirm a national adoption INCITS/ISO/IEC 14496-6:2000 [R2021])

Specifies the Delivery Layer of ISO/IEC 14496, which allows applications to transparently access and view multimedia streams whether the source of the streams is located on an interactive remote end-system, the streams are available on broadcast media or they are on storage media.

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#### **Reaffirmation**

INCITS/ISO/IEC 14496-14:2020 [R202x], Information technology - Coding of audio-visual objects - Part 14: MP4 file format (reaffirm a national adoption INCITS/ISO/IEC 14496-14:2020 [2021])

This document defines the MP4 file format, as derived from the ISO Base Media File format.

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#### **Reaffirmation**

INCITS/ISO/IEC 14496-30:2018 [R202x], Information technology - Coding of audio-visual objects - Part 30: Timed text and other visual overlays in ISO base media file format (reaffirm a national adoption INCITS/ISO/IEC 14496-30:2018 [2021])

Describes the carriage of some forms of timed text and subtitle streams in files based on ISO/IEC 14496-12 (the ISO base media file format). The documentation of these forms does not preclude other definition of carriage of timed text or subtitles; see, for example, 3GPP Timed Text (3GPP TS 26.245), or the carriage of captioning information embedded in a media stream of another type (see Annex A).

Single copy price: \$76.20

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#### **Reaffirmation**

INCITS/ISO/IEC 14496-33:2019 [R202x], Information technology - Coding of audio-visual objects - Part 33: Internet video coding (reaffirm a national adoption INCITS/ISO/IEC 14496-33:2019 [2021])

Specifies MPEG-4 Internet video coding.

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#### **Reaffirmation**

INCITS/ISO/IEC 14496-16:2011/AM4:2017 [R202x], Information technology - Coding of audio-visual objects - Part 16: Animation Framework eXtension (AFX) - Amendment 4: Pattern-based 3D mesh coding (PB3DMC) (reaffirm a national adoption INCITS/ISO/IEC 14496-16:2011/AM4:2017 [2021])

Amendment 4 to ISO/IEC 14496-16:2011.

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#### **Reaffirmation**

INCITS/ISO/IEC 14496-20:2008/AM1:2009 [R202x], Information technology - Coding of audio-visual objects - Part 20: Lightweight Application Scene Representation (LAsER) and Simple Aggregation Format (SAF) - Amendment 1: Extensions to support SVGT1.2 (reaffirm a national adoption INCITS/ISO/IEC 14496-20:2008/AM1:2009 [R2021])

Amendment 1 to ISO/IEC 14496-20:2008.

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#### **Reaffirmation**

INCITS/ISO/IEC 14496-22:2019/AM1:2020 [R202x], Information technology - Coding of audio-visual objects - Part 22: Open Font Format - Amendment 1: Color font technology and other updates (reaffirm a national adoption INCITS/ISO/IEC 14496-22:2019/AM1:2020 [2021])

Amendment 1 to ISO/IEC 14496-22:2019.

Single copy price: \$103.20

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#### **Reaffirmation**

INCITS/ISO/IEC 14496-4:2004/AM30:2009 [R202x], Information technology - Coding of audio-visual objects - Part 4: Conformance testing - Amendment 30: Conformance testing for new profiles for professional applications (reaffirm a national adoption INCITS/ISO/IEC 14496-4:2004/AM 30:2009 [R2021])

Amendment 30 to ISO/IEC 14496-4:2004.

Single copy price: \$13.80

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#### **Reaffirmation**

INCITS/ISO/IEC 14496-4:2004/AM31:2009 [R202x], Information technology - Coding of audio-visual objects - Part 4: Conformance testing - Amendment 31: Conformance testing for SVC profiles (reaffirm a national adoption INCITS/ISO/IEC 14496-4:2004/AM 31:2009 [R2021])

Amendment 31 to ISO/IEC 14496-4:2004.

Single copy price: \$138.00

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#### **Reaffirmation**

INCITS/ISO/IEC 14496-4:2004/AM35:2009 [R202x], Information technology - Coding of audio-visual objects - Part 4: Conformance testing - Amendment 35: Simple studio profile levels 5 and 6 conformance testing (reaffirm a national adoption INCITS/ISO/IEC 14496-4:2004/AM 35:2009 [R2021])

Amendment 35 to ISO/IEC 14496-4:2004.

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#### ***Reaffirmation***

INCITS/ISO/IEC 14496-4:2004/AM46:2019 [R202x], Information technology - Coding of audio-visual objects - Part 4: Conformance testing - Amendment 46: Conformance testing for internet video coding (reaffirm a national adoption INCITS/ISO/IEC 14496-4:2004/AM46:2019 [2021])

Amendment 46 to ISO/IEC 14496-4:2004.

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#### ***Reaffirmation***

INCITS/ISO/IEC 14496-5:2001/AM14:2009 [R202x], Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 14: Open Font Format reference software (reaffirm a national adoption INCITS/ISO/IEC 14496-5:2001/AM 14:2009 [R2021])

Amendment 14 to ISO/IEC 14496-5:2001.

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#### ***Reaffirmation***

INCITS/ISO/IEC 14496-5:2001/AM19:2009 [R202x], Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 19: Reference software for Scalable Video Coding (reaffirm a national adoption INCITS/ISO/IEC 14496-5:2001/AM 19:2009 [R2021])

Amendment 19 to ISO/IEC 14496-5:2001.

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#### **Reaffirmation**

INCITS/ISO/IEC 14496-5:2001/AM20:2009 [R202x], Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 20: MPEG-1 and -2 on MPEG-4 reference software and BSAC Extensions (reaffirm a national adoption INCITS/ISO/IEC 14496-5:2001/AM 20:2009 [R2021])

Amendment 20 to ISO/IEC 14496-5:2001.

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#### **Reaffirmation**

INCITS/ISO/IEC 14496-5:2001/AM21:2009 [R202x], Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 21: Frame-based Animated Mesh Compression reference software (reaffirm a national adoption INCITS/ISO/IEC 14496-5:2001/AM 21:2009 [R2021])

Amendment 21 to ISO/IEC 14496-5:2001.

Single copy price: \$13.80

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#### **Reaffirmation**

INCITS/ISO/IEC 14496-5:2001/AM24:2009 [R202x], Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 24: Reference software for AAC-ELD (reaffirm a national adoption INCITS/ISO/IEC 14496-5:2001/AM24:2009 [2021])

Amendment 24 to ISO/IEC 14496-5:2001.

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#### ***Reaffirmation***

INCITS/ISO/IEC 14496-5:2001/AM40:2019 [R202x], Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 40: Printing material and 3D graphics coding for browsers reference software (reaffirm a national adoption INCITS/ISO/IEC 14496-5:2001/AM40:2019 [2021])

Amendment 40 to ISO/IEC 14496-5:2001.

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#### ***Reaffirmation***

INCITS/ISO/IEC 14496-5:2001/AM41:2019 [R202x], Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 41: Reference software for internet video coding (reaffirm a national adoption INCITS/ISO/IEC 14496-5:2001/AM41:2019 [2021])

Amendment 41 to ISO/IEC 14496-5:2001.

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#### ***Reaffirmation***

INCITS/ISO/IEC 14496-5:2001/AM42:2017 [R202x], Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 42: Reference software for the alternative depth information SEI message extension of AVC (reaffirm a national adoption INCITS/ISO/IEC 14496-5:2001/AM42:2017 [2021])

Amendment 42 to ISO/IEC 14496-5:2001.

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#### ***Reaffirmation***

INCITS/ISO/IEC 14496-5:2001/AM43:2018 [R202x], Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 43: New levels of ALS simple profile, SBR enhancements (reaffirm a national adoption INCITS/ISO/IEC 14496-5:2001/AM43:2018 [2021])

Amendment 43 to ISO/IEC 14496-5:2001.

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#### Reaffirmation

INCITS/ISO/IEC 14496-5:2001/AM24:2009/COR3:2017 [R202x], Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 24: Reference software for AAC-ELD - Technical Corrigendum 3 (reaffirm a national adoption INCITS/ISO/IEC 14496-5:2001/AM24:2009/COR3:2017 [2021]) Technical Corrigendum 3 to ISO/IEC 14496-5:2001/AM24:2009.

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#### Reaffirmation

INCITS/ISO/IEC 15444-15:2019 [R202x], Information technology - JPEG 2000 image coding system - Part 15: High-Throughput JPEG 2000 (reaffirm a national adoption INCITS/ISO/IEC 15444-15:2019 [2021]) Specifies an alternate block-coding algorithm that can be used in place of the block-coding algorithm specified in Rec. ITU-T T.800 | ISO/IEC 15444-1. This alternate block-coding algorithm offers a significant increase in throughput at the expense of slightly reduced coding efficiency, while allowing mathematically lossless transcoding to and from codestreams that use the block-coding algorithm specified in Rec. T T.800 | ISO/IEC 15444-1.

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#### Reaffirmation

INCITS/ISO/IEC 15457-1:2008 [R202x], Identification cards -Thin flexible cards - Part 1: Physical characteristics (reaffirm a national adoption INCITS/ISO/IEC 15457-1:2008 [R2021])

Thin flexible cards (TFC), the subject of ISO/IEC 15457, are used to automate the controls for access to goods or services such as mass transit, highway toll systems, car parks, vouchers, stored value, etc. For these applications, data can be written and/or read by machines using various recording techniques such as magnetic stripe, optical character recognition (OCR), bar code, contactless, etc. This standard specifies the physical characteristics of thin flexible cards at two points in the card life cycle: at the point of loading into the card issuing equipment; at the point of issue to the public.

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#### Reaffirmation

INCITS/ISO/IEC 15457-3:2008 [R202x], Identification cards - Thin flexible cards - Part 3: Test methods (reaffirm a national adoption INCITS/ISO/IEC 15457-3:2008 [R2021])

Thin flexible cards are used to automate the controls for access to goods or services such as mass transit, highway toll systems, car parks, vouchers, stored value, etc. For these applications, data can be written and/or read by machines using various recording techniques such as magnetic stripe, optical character recognition (OCR), bar code, etc. Specifies the test methods and procedures required to carry out measurements of the magnetic stripe and encoding characteristics of thin flexible cards.

Single copy price: \$184.00

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#### Reaffirmation

INCITS/ISO/IEC 15938-6:2020 [R202x], Information technology - Multimedia content description interface - Part 6: Reference software (reaffirm a national adoption INCITS/ISO/IEC 15938-6:2020 [2021])

Operates on and generates conformant bitstreams. This document provides a specific implementation that behaves in a conformant manner.

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#### Reaffirmation

INCITS/ISO/IEC 15938-14:2018 [R202x], Information technology - Multimedia content description interface - Part 14: Reference software, conformance and usage guidelines for compact descriptors for visual search (reaffirm a national adoption INCITS/ISO/IEC 15938-14:2018 [2021])

Provides the reference software, specifies the conformance testing, and gives usage guidelines for ISO/IEC 15938-13.

Single copy price: \$76.20

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#### **Reaffirmation**

INCITS/ISO/IEC 15938-15:2019 [R202x], Information technology - Multimedia content description interface - Part 15: Compact descriptors for video analysis (reaffirm a national adoption INCITS/ISO/IEC 15938-15:2019 [2021])  
Addresses descriptor technology for search and retrieval applications, i.e., for visual content matching in video. Visual content matching includes matching of views of large and small objects and scenes, with robustness to partial occlusions as well as changes in vantage point, camera parameters and lighting conditions. The objects of interest comprise planar or non-planar, rigid or partially rigid, textured or partially textured objects, but exclude the identification of people and faces.

Single copy price: \$120.60

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#### **Reaffirmation**

INCITS/ISO/IEC 15938-3:2002/AM3:2009 [R202x], Information technology - Multimedia content description interface - Part 3: Visual - Amendment 3: Image Signature Tools (reaffirm a national adoption INCITS/ISO/IEC 15938-3:2002/AM 3:2009 [R2021])

Amendment 3 to ISO/IEC 15938-3:2002.

Single copy price: \$13.80

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec159382002am2009-2451462>

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#### **Reaffirmation**

INCITS/ISO/IEC 17839-1:2014 [R202x], Information technology - Biometric System-on-Card - Part 1: Core requirements (reaffirm a national adoption INCITS/ISO/IEC 17839-1:2014 [2021])  
Establishes functional architecture of a Biometric System-on-Card, definition of type S1 (fully ISO/IEC 7810 compliant) and type S2 implementation of a Biometric System-on-Card, sensor types in a Biometric System-on-Card, minimum requirements to a Biometric System-on-Card with respect to: discriminative power (i.e., biometric accuracy criteria), interfaces, power supply options.

Single copy price: \$44.80

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec1783920142021>

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#### Reaffirmation

INCITS/ISO/IEC 17839-3:2016 [R202x], Information technology - Identification cards - Biometric System-on-Card - Part 3: Logical information interchange mechanism (reaffirm a national adoption INCITS/ISO/IEC 17839-3:2016 [2021])

ISO/IEC 17839-3:2016: logical data structures for a BSoC, enrollment procedures, and usage of commands and data structures defined in other ISO standards for BSoC. ISO/IEC 17839-3:2016 does not define requirements for commands and data structures that apply to devices external to a BSoC, and commands and data structures that apply to logical interfaces inside a BSoC.

Single copy price: \$101.60

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec1783920162021>

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#### Reaffirmation

INCITS/ISO/IEC 18013-2:2020 [R202x], Personal identification - ISO-compliant driving licence - Part 2: Machine-readable technologies (reaffirm a national adoption INCITS/ISO/IEC 18013-2:2020 [2021])

The purpose of storing IDL data on machine-readable media on the IDL is to: increase productivity (of data and IDL use), facilitate electronic data exchange, and assist in authenticity and integrity validation. This document thus specifies the following: mandatory and optional machine-readable data; the logical data structure; encoding rules for the machine-readable technologies currently supported.

Single copy price: \$259.00

Obtain an electronic copy from: <https://webstore.ansi.org/standards/iso/isoiec180132020>

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#### Reaffirmation

INCITS/ISO/IEC 18328-1:2015 [R202x], Identification cards - ICC-managed devices - Part 1: General framework (reaffirm a national adoption INCITS/ISO/IEC 18328-1:2015 [2021])

Describes the general architecture of an ICC with ICC-managed devices. ISO/IEC 18328-1:2015 is one of a series of International Standards which outlines the content and the boundaries covered and standardised by the other parts of ISO/IEC 18328. The general principle of this part of ISO/IEC 18328 is that all activities regarding the ICC-managed devices are controlled by the card-IC. This principle also applies when ICC-managed devices are outside the card. ISO/IEC 18328-1:2015 is applicable for all kind of cards independent from interface technology for communication.

Single copy price: \$101.60

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec1832820152021>

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#### Reaffirmation

INCITS/ISO/IEC 18328-3:2016 [R202x], Identification cards - ICC-managed devices - Part 3: Organization, security and commands for interchange (reaffirm a national adoption INCITS/ISO/IEC 18328-3:2016 [2021])  
Specifies the logical interface of an application supporting the necessary security features in a card-IC which communicates with the external world by a physical interface supporting APDUs. This application supports the usage of electronic devices.

Single copy price: \$184.00

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec1832820162021>

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#### Reaffirmation

INCITS/ISO/IEC 18328-4:2018 [R202x], Identification cards - ICC-managed devices - Part 4: Test methods for logical characteristics (reaffirm a national adoption INCITS/ISO/IEC 18328-4:2018 [2021])  
Specifies the test methods used for conformity testing, to determine whether an ICC with at least one ICC-managed device is considered to conform with the specifications of ISO/IEC 18328-3, e.g. device management and device handling.

Single copy price: \$160.80

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec1832820182021>

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#### Reaffirmation

INCITS/ISO/IEC 18477-2:2016 [R202x], Information technology - Scalable compression and coding of continuous-tone still images - Part 2: Coding of high dynamic range images (reaffirm a national adoption INCITS/ISO/IEC 18477-2:2016 [2021])  
Specifies a coding format, referred to as JPEG XT, which is designed primarily for continuous-tone photographic content.

Single copy price: \$76.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec1847720162021>

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#### Reaffirmation

INCITS/ISO/IEC 18477-4:2017 [R202x], Information technology - Scalable compression and coding of continuous-tone still images - Part 4: Conformance testing (reaffirm a national adoption INCITS/ISO/IEC 18477-4:2017 [2021])

Specifies the framework, concepts, methodology for testing, and criteria to be achieved to claim conformance to one or multiple parts of ISO/IEC 18477 as listed below. It provides a framework for specifying abstract test suites and for defining the procedures to be followed during conformance testing.

Single copy price: \$120.60

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec1847720172021>

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#### Reaffirmation

INCITS/ISO/IEC 18477-5:2018 [R202x], Information technology - Scalable compression and coding of continuous-tone still images - Part 5: Reference software (reaffirm a national adoption INCITS/ISO/IEC 18477-5:2018 [2021])

Provides reference implementations of multiple parts of the ISO/IEC 18477 series, also known under the name "JPEG XT". JPEG XT is designed primarily for compression of continuous-tone photographic content.

Single copy price: \$76.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec1847720182021>

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#### Reaffirmation

INCITS/ISO/IEC 18477-6:2016 [R202x], Information technology - Scalable compression and coding of continuous-tone still images - Part 6: IDR Integer Coding (reaffirm a national adoption INCITS/ISO/IEC 18477-6:2016 [2021])

Specifies a coding format, referred to as JPEG XT, which is designed primarily for continuous-tone photographic content.

Single copy price: \$120.60

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec1847720162021-2462381>

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#### Reaffirmation

INCITS/ISO/IEC 18477-7:2017 [R202x], Information technology - Scalable compression and coding of continuous-tone still images - Part 7: HDR Floating-Point Coding (reaffirm a national adoption INCITS/ISO/IEC 18477-7:2017 [2021])

Specifies a coding format, referred to as JPEG XT, which is designed primarily for continuous-tone photographic content.

Single copy price: \$138.00

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec1847720172021-2451469>

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#### Reaffirmation

INCITS/ISO/IEC 18477-8:2020 [R202x], Information technology - Scalable compression and coding of continuous-tone still images - Part 8: Lossless and near-lossless coding (reaffirm a national adoption INCITS/ISO/IEC 18477-8:2020 [2021])

Specifies a coding format, referred to as JPEG XT, which is designed primarily for continuous-tone photographic content. This document defines extensions that allow lossless coding of such content while staying compatible with the core coding system specified in ISO/IEC 18477-1.

Single copy price: \$155.40

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec1847720202021-2451470>

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#### Reaffirmation

INCITS/ISO/IEC 18477-9:2016 [R202x], Information technology - Scalable compression and coding of continuous-tone still images - Part 9: Alpha channel coding (reaffirm a national adoption INCITS/ISO/IEC 18477-9:2016 [2021])

Specifies a coding format, referred to as JPEG XT, which is designed primarily for continuous-tone photographic content.

Single copy price: \$103.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec1847720162021-2462382>

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#### Reaffirmation

INCITS/ISO/IEC 18745-1:2018 [R202x], Test methods for machine readable travel documents (MRTD) and associated devices - Part 1: Physical test methods for passport books (durability) (reaffirm a national adoption INCITS/ISO/IEC 18745-1:2018 [2021])

Provides a set of instructions for evaluation of MRPs which may incorporate contactless integrated circuits. This evaluation is an instrument to establish the ability in principle of a specific type of document to fulfill the requirements of use. It supplies a structured approach to evaluate MRPs by: defining reproducible stress methods to submit the document(s) under evaluation to specific stress or environmental conditions; defining reproducible evaluation methods to measure numerical values for specific document properties; defining test sequences that specify the order in which stress methods and evaluation methods are to be performed; defining test plans to link specific user requirements to test sequences and related parameters.

Single copy price: \$184.00

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec1874520182021>

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#### Reaffirmation

INCITS/ISO/IEC 19086-2:2018 [R202x], Cloud computing - Service level agreement (SLA) framework - Part 2: Metric model (reaffirm a national adoption INCITS/ISO/IEC 19086-2:2018 [2021])

Establishes common terminology, defines a model for specifying metrics for cloud SLAs, and includes applications of the model with examples. This document establishes a common terminology and approach for specifying metrics. Is for the benefit of and use for both cloud service providers (CSPs) and cloud service customers (CSCs). This document is intended to complement ISO/IEC 19086-1, ISO/IEC 19086-3 and ISO/IEC 19086-4. This document does not mandate the use of a specific set of metrics for cloud SLAs.

Single copy price: \$138.00

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec1908620182021>

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#### Reaffirmation

INCITS/ISO/IEC 19566-4:2020 [R202x], Information technologies - JPEG systems - Part 4: Privacy and security (reaffirm a national adoption INCITS/ISO/IEC 19566-4:2020 [2021])

Specifies privacy and security features which contribute to a system layer for JPEG standards. It defines generic structures that can be applied in all JPEG box-based file formats. In particular, this document specifies a signaling syntax supporting privacy and security features. The framework in this document is backwards-compatible with existing JPEG standards.

Single copy price: \$120.60

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec1956620202021>

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#### **Reaffirmation**

INCITS/ISO/IEC 19566-6:2019 [R202x], Information technologies - JPEG systems - Part 6: JPEG 360 (reaffirm a national adoption INCITS/ISO/IEC 19566-6:2019 [2021])

This document specifies omnidirectional/360-degree image and motion contents using Rec. ITU-T T.81 | ISO/IEC 10918-1, Rec. ITU-T T.800 (11/2015) | ISO/IEC 15444-1, and ISO/IEC 18477-3.

Single copy price: \$103.20

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#### **Reaffirmation**

INCITS/ISO/IEC 19763-3:2020 [R202x], Information Technology - Metamodel Framework for Interoperability (MFI) - Part 3: Metamodel for Ontology Registration (reaffirm a national adoption INCITS/ISO/IEC 19763-3:2020 [2021])

Specifies the metamodel that provides a facility to register administrative and evolution information related to ontologies. The metamodel is intended to promote interoperability among application systems, by providing administrative and evolution information related to ontologies, accompanied with standardized ontology repositories that register ontologies themselves in specific languages. This document does not specify the metamodels of ontologies expressed in specific languages.

Single copy price: \$138.00

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec1976320202021>

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#### **Reaffirmation**

INCITS/ISO/IEC 19775-2:2015 [R202x], Information Technology - Computer Graphics, Image Processing and Environmental Data Representation - Extensible 3D (X3D) - Part 2: Scene Access Interface (SAI) (reaffirm a national adoption INCITS/ISO/IEC 19775-2:2015 [R2021])

Specifies a standard set of services that are made available by a browser so that an author can access the scene graph while it is running. Such access is designed to support inspection and modification of the scene graph.

Single copy price: \$44.80

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec197752015r2021>

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#### **Reaffirmation**

INCITS/ISO/IEC 19784-4:2011 [R202x], Information technology - Biometric application programming interface - Part 4: Biometric sensor function provider interface (reaffirm a national adoption INCITS/ISO/IEC 19784-4:2011 [R2021])

Specifies a biometric sensor interface for a Biometric Service Provider (BSP, see ISO/IEC 19784-1). The interface supports a BSP wishing to provide the BioAPI Service Provider Interface (SPI) functions, whilst removing device handling activity from the BSP. Provides an interface that can be used by all types of biometric sensor, including inter alia image streaming sensors (infrared, face, iris, finger, etc.), voice streaming sensors, and digital tablets providing dynamic signature data.

Single copy price: \$138.00

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec197842011r2021>

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#### **Reaffirmation**

INCITS/ISO/IEC 19785-1:2020 [R202x], Information technology - Common Biometric Exchange Formats Framework - Part 1: Data element specification (reaffirm a national adoption INCITS/ISO/IEC 19785-1:2020 [2021])

Defines:

- structures and data elements for biometric information records (BIRs);
- the concept of a domain of use to establish the applicability of a standard or specification that conforms with CBEFF requirements;
- the concept of a CBEFF patron format, which is a published BIR format specification that complies with CBEFF requirements, specified by a CBEFF patron;
- the abstract values and associated semantics of a set of CBEFF data elements to be used in the definition of CBEFF patron formats.

Single copy price: \$138.00

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#### **Reaffirmation**

INCITS/ISO/IEC 19794-13:2018 [R202x], Information Technology - Biometric Data Interchange Formats - Part 13: Voice Data (reaffirm a national adoption INCITS/ISO/IEC 19794-13:2018 [2021])

Specifies a data interchange format that can be used for storing, recording, and transmitting digitized acoustic human voice data (speech) assumed to be from a single speaker recorded in a single session. This format is designed specifically to support a wide variety of Speaker Identification and Verification (SIV) applications, both text-dependent and text-independent, with minimal assumptions made regarding the voice data capture conditions or the collection environment.

Single copy price: \$103.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec197941320182021>

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#### **Reaffirmation**

INCITS/ISO/IEC 19795-5:2011 [R202x], Information technology - Biometric performance testing and reporting - Part 5: Access control scenario and grading scheme (reaffirm a national adoption INCITS/ISO/IEC 19795-5:2011 [R2021])

Specifies a framework for testing and a grading scheme for reporting the performance of a biometric system suitable for use in access control applications. It also allows for specifying application performance requirements in terms of the required performance of the biometric component of the access control system. It specifies the environment in which and the means by which testing will be performed and how the results will be reported.

Single copy price: \$138.00

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec197952011r2021>

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#### **Reaffirmation**

INCITS/ISO/IEC 19795-7:2011 [R202x], Information technology - Biometric performance testing and reporting - Part 7: Testing of on-card biometric comparison algorithms (reaffirm a national adoption INCITS/ISO/IEC 19795-7:2011 [R2021])

Establishes a mechanism for measuring the core algorithmic capabilities of biometric comparison algorithms running on ISO/IEC 7816 integrated circuit cards. Specifically, the standard instantiates a mechanism for on-card biometric comparison testing; standardizes procedures for the measurement of the accuracy of on-card biometric comparison implementations running on object-based, test-specific sample cards; and standardizes procedures for the measurement of durations of the various operations.

Single copy price: \$103.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec197952011r2021-2451477>

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#### **Reaffirmation**

INCITS/ISO/IEC 19944-1:2020 [R202x], Cloud computing and distributed platforms - Data flow, data categories and data use - Part 1: Fundamentals (reaffirm a national adoption INCITS/ISO/IEC 19944-1:2020 [2021]) Document extends the existing cloud computing vocabulary and reference architecture in ISO/IEC 17788 and ISO/IEC 17789 to describe an ecosystem involving devices using cloud services; to describe the various types of data flowing within the devices and cloud computing ecosystem; to describe the impact of connected devices on the data that flow within the cloud computing ecosystem; to describe flows of data between cloud services, cloud service customers and cloud service users, to provide foundational concepts, including a data taxonomy; and to identify the categories of data that flow across the cloud service customer devices and cloud services.

Single copy price: \$155.40

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec1994420202021>

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#### **Reaffirmation**

INCITS/ISO/IEC 21000-19:2010 [R202x], Information technology - Multimedia framework (MPEG-21) - Part 19: Media Value Chain Ontology (reaffirm a national adoption INCITS/ISO/IEC 21000-19:2010 [2021]) Describes MPEG-21 Media Value Chain Ontology (MVCO). The MVCO may be used to capture knowledge about media value chains and to represent it in a computer-readable way, concepts in the domain and the relationships between those concepts.

Single copy price: \$155.40

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec210001920102021>

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#### **Reaffirmation**

INCITS/ISO/IEC 21000-21:2017 [R202x], Information technology - Multimedia framework (MPEG-21) - Part 21: Media contract ontology (reaffirm a national adoption INCITS/ISO/IEC 21000-21:2017 [2021]) Specifies an ontology for representing contracts in the Multimedia Framework formed for the transaction of MPEG-21 Digital Items or services related to the MPEG-21 Framework.

Single copy price: \$172.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec210002120172021>

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#### **Reaffirmation**

INCITS/ISO/IEC 21000-8:2008/AM1:2009 [R202x], Information technology - Multimedia framework (MPEG-21) - Part 8: Reference software - Amendment 1: Extract reference software (reaffirm a national adoption

INCITS/ISO/IEC 21000-8:2008/AM 1:2009 [R2021])

Amendment 1 to ISO/IEC 21000-8:2008.

Single copy price: \$13.80

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec210002008am2009-2468828>

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#### **Reaffirmation**

INCITS/ISO/IEC 21000-8:2008/AM4:2018 [R202x], Information technology - Multimedia framework (MPEG-21) - Part 8: Reference software - Amendment 4: Media value chain ontology extensions on time-segments and multi-track audio (reaffirm a national adoption INCITS/ISO/IEC 21000-8:2008/AM4:2018 [2021])

Amendment 4 to ISO/IEC 21000-8:2008.

Single copy price: \$13.80

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec210002008am42018>

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#### **Reaffirmation**

INCITS/ISO/IEC 21000-19:2010/AM1:2018 [R202x], Information technology - Multimedia framework (MPEG-21) - Part 19: Media Value Chain Ontology - Amendment 1: Extensions on time-segments and multi-track audio (reaffirm a national adoption INCITS/ISO/IEC 21000-19:2010/AM1:2018 [2021])

Amendment 1 to ISO/IEC 21000-19:2010.

Single copy price: \$103.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec21000192010am12018>

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#### Reaffirmation

INCITS/ISO/IEC 21794-1:2020 [R202x], Information technology - Plenoptic image coding system (JPEG Pleno) - Part 1: Framework (reaffirm a national adoption INCITS/ISO/IEC 21794-1:2020 [2021])

Specifies the plenoptic image coding system framework architecture and its instantiation via a generic file format for storage of plenoptic modalities as well as associated metadata descriptors.

Single copy price: \$103.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2179420202021>

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#### Reaffirmation

INCITS/ISO/IEC 21823-1:2019 [R202x], Internet of things (IoT) - Interoperability for IoT systems - Part 1: Framework (reaffirm a national adoption INCITS/ISO/IEC 21823-1:2019 [2021])

Provides an overview of interoperability as it applies to IoT systems and a framework for interoperability for IoT systems. This document enables IoT systems to be built in such a way that the entities of the IoT system are able to exchange information and mutually use the information in an efficient way. This document enables peer-to-peer interoperability between separate IoT systems. This document provides a common understanding of interoperability as it applies to IoT systems.

Single copy price: \$103.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2182320192021>

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#### Reaffirmation

INCITS/ISO/IEC 21823-2:2020 [R202x], Internet of things (IoT) - Interoperability for IoT systems - Part 2: Transport interoperability (reaffirm a national adoption INCITS/ISO/IEC 21823-2:2020 [2021])

Specifies a framework and requirements for transport interoperability, in order to enable the construction of IoT systems with information exchange, peer-to-peer connectivity and seamless communication both between different IoT systems and also among entities within an IoT system. This document specifies: transport interoperability interfaces and requirements between IoT systems; transport interoperability interfaces and requirements within an IoT system.

Single copy price: \$76.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2182320202021>

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#### Reaffirmation

INCITS/ISO/IEC 23000-4:2009 [R202x], Information technology - Multimedia application format (MPEG-A) - Part 4: Musical slide show application format (reaffirm a national adoption INCITS/ISO/IEC 23000-4:2009 [R2021]) Specifies signaling of content governance and protection of musical slide show application format based on MPEG-21 Part 4: Intellectual Property Management and Protection (IPMP) Components Base Profile and MPEG-21.

Single copy price: \$155.40

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec230002009r2021>

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#### Reaffirmation

INCITS/ISO/IEC 23000-6:2012 [R202x], Information technology - Multimedia application format (MPEG-A) - Part 6: Professional archival application format (reaffirm a national adoption INCITS/ISO/IEC 23000-6:2012 [2021]) The purpose of the PA-AF is to provide a standardized packaging format for digital files. This packaging format can also serve as an implementation of the information package specified by the Reference Model of Open Archival Information System (OAIS). The OAIS Reference Model is a framework for understanding and applying concepts necessary for long-term digital information preservation (where "long-term" is long enough to be concerned about changing technologies).

Single copy price: \$172.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2300020122021>

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#### Reaffirmation

INCITS/ISO/IEC 23000-10:2012 [R202x], Information technology - Multimedia application format (MPEG-A) - Part 10: Surveillance application format (reaffirm a national adoption INCITS/ISO/IEC 23000-10:2012 [2021]) Specifies a file format designed to store data in and exchange data between surveillance systems. The file format provides an overall structure for media content and associated metadata. Media data coverage includes image, video, and audio data. Specific features to support application of the format in surveillance systems include dedicated time information in a separate track as well as segmentation and segment linking provisions for media data.

Single copy price: \$76.20

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#### **Reaffirmation**

INCITS/ISO/IEC 23000-13:2017 [R202x], Information technology - Multimedia application format (MPEG-A) - Part 13: Augmented reality application format (reaffirm a national adoption INCITS/ISO/IEC 23000-13:2017 [2021]) Specifies the following: scene description elements for representing AR content; mechanisms to connect to local and remote sensors and actuators; mechanisms to integrated compressed media (image, audio, video, graphics); mechanisms to connect to remote resources such as maps and compressed media.

Single copy price: \$172.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec230001320172021>

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#### **Reaffirmation**

INCITS/ISO/IEC 23000-15:2016 [R202x], Information technology - Multimedia application format (MPEG-A) - Part 15: Multimedia preservation application format (reaffirm a national adoption INCITS/ISO/IEC 23000-15:2016 [2021])

Specifies the standard representation of the multimedia description information (MPDI) generated and used by an organization in the process of preserving a multimedia asset for the purpose of facilitating the exchange of multimedia content between archives or other stakeholders (e.g., publishers, broadcasters, service providers, and the like), as well as subsequent preservation and use.

Single copy price: \$155.40

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec230001520162021>

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#### **Reaffirmation**

INCITS/ISO/IEC 23000-16:2018 [R202x], Information technology - Multimedia application format (MPEG-A) - Part 16: Publish/Subscribe Application Format (reaffirm a national adoption INCITS/ISO/IEC 23000-16:2018 [2021]) Specifies four formats that are used by parties communicating using the Publish/Subscribe (PubSub) communication model for their multimedia communication purposes.

Single copy price: \$120.60

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec230001620182021>

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#### **Reaffirmation**

INCITS/ISO/IEC 23000-17:2018 [R202x], Information technology - Multimedia application format (MPEG-A) - Part 17: Multiple sensorial media application format (reaffirm a national adoption INCITS/ISO/IEC 23000-17:2018 [2021])

Specifies a file format which is capable of storage, interchange, management, editing, and presentation of multiple sensorial media contents based on the ISO base media file format. The file format provides the overall structure for storing multiple sensorial media contents.

Single copy price: \$103.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec230001720182021>

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#### **Reaffirmation**

INCITS/ISO/IEC 23000-18:2018 [R202x], Information technology - Multimedia application formats (MPEG-A) - Part 18: Media linking application format (reaffirm a national adoption INCITS/ISO/IEC 23000-18:2018 [2021])

Specifies a data structure called "bridget". A bridget is a link between a "source" content and a "destination" content. The bridget contains information on the source content and on the destination content, on the link between the two and on how the information contained in the bridget is to be presented to users consuming the source content in order to enable them to make considerate decisions about whether to consume the destination content.

Single copy price: \$155.40

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#### **Reaffirmation**

INCITS/ISO/IEC 23000-21:2019 [R202x], Information technology - Multimedia application format (MPEG-A) - Part 21: Visual identity management application format (reaffirm a national adoption INCITS/ISO/IEC 23000-21:2019 [2021])

Specifies the standard representation of the set of signalling and data used in the process of preserving privacy for storage sharing image/video.

Single copy price: \$138.00

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#### **Reaffirmation**

INCITS/ISO/IEC 23000-3:2007/AM1:2009 [R202x], Information technology - Multimedia application format (MPEG-A) - Part 3: MPEG photo player application format - Amendment 1: Reference software for photo player MAF (reaffirm a national adoption INCITS/ISO/IEC 23000-3:2007/AM 1:2009 [R2021])

Amendment 1 to ISO/IEC 23000-3:2007.

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#### **Reaffirmation**

INCITS/ISO/IEC 23000-4:2009/AM1:2009 [R202x], Information technology - Multimedia application format (MPEG-A) - Part 4: Musical slide show application format - Amendment 1: Conformance and reference software for musical slide show application format (reaffirm a national adoption INCITS/ISO/IEC 23000-4:2009/AM 1:2009 [R2021])

Amendment 1 to ISO/IEC 23000-4:2009.

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#### **Reaffirmation**

INCITS/ISO/IEC 23000-7:2008/AM1:2009 [R202x], Information technology - Multimedia application format (MPEG-A) - Part 7: Open access application format - Amendment 1: Conformance and reference software for open access application format (reaffirm a national adoption INCITS/ISO/IEC 23000-7:2008/AM 1:2009 [R2021])

Amendment 1 to ISO/IEC 23000-7:2008.

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#### **Reaffirmation**

INCITS/ISO/IEC 23000-15:2016/AM1:2017 [R202x], Information technology - Multimedia application format (MPEG-A) - Part 15: Multimedia preservation application format - Amendment 1: Implementation guidelines for MP-AF (reaffirm a national adoption INCITS/ISO/IEC 23000-15:2016/AM1:2017 [2021])

Amendment 1 to ISO/IEC 23000-15:2016.

Single copy price: \$138.00

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#### **Reaffirmation**

INCITS/ISO/IEC 23001-4:2017 [R202x], Information technology - MPEG systems technologies - Part 4: Codec configuration representation (reaffirm a national adoption INCITS/ISO/IEC 23001-4:2017 [2021])

Defines the methods and general principles capable of describing codec configurations in the reconfigurable video coding (RVC) framework. It primarily addresses reconfigurable video aspects and will only focus on the description of representation for video codec configurations within the RVC framework.

Single copy price: \$172.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2300120172021>

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#### **Reaffirmation**

INCITS/ISO/IEC 23001-10:2020 [R202x], Information technology - MPEG systems technologies - Part 10: Carriage of timed metadata metrics of media in ISO base media file format (reaffirm a national adoption INCITS/ISO/IEC 23001-10:2020 [2021])

Defines a storage format for timed metadata. The timed metadata can be associated with other tracks in the ISO base media file format. Timed metadata such as quality and power consumption information and their metrics are defined in this part for carriage in files based on the ISO base media file format (ISO/IEC 14496-12). The timed metadata can be used for multiple purposes including supporting dynamic adaptive streaming.

Single copy price: \$103.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec230011020202021>

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#### **Reaffirmation**

INCITS/ISO/IEC 23001-12:2018 [R202x], Information technology - MPEG systems technologies - Part 12: Sample variants (reaffirm a national adoption INCITS/ISO/IEC 23001-12:2018 [2021])

Defines sample variants and their carriage in the ISO base media file format (ISO/IEC 14496-12) and MPEG-2 transport stream (ISO/IEC 13818-1).

Single copy price: \$120.60

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#### **Reaffirmation**

INCITS/ISO/IEC 23001-13:2019 [R202x], Information technology - MPEG systems technologies - Part 13: Media orchestration (reaffirm a national adoption INCITS/ISO/IEC 23001-13:2019 [2021])

Specifies an architecture for media orchestration, as well as associated messaging and control, timed metadata, the carriage of that timed metadata, and orchestration data.

Single copy price: \$155.40

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec230011320192021>

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#### **Reaffirmation**

INCITS/ISO/IEC 23001-14:2019 [R202x], Information technology - MPEG systems technologies - Part 14: Partial file format (reaffirm a national adoption INCITS/ISO/IEC 23001-14:2019 [2021])

Specifies the partial file format, which is a generic format for describing file partially received over lossy communication channels. This format contains the correctly received data, missing block identification, and repair information such as location of the file or high-level original indexing information. This format can be used with any file formats, and provides additional helper tools for formats deriving from ISO/IEC 14496-12.

Single copy price: \$103.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec230011420192021>

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#### Reaffirmation

INCITS/ISO/IEC 23002-4:2018 [R202x], Information technology - MPEG video technologies - Part 4: Video tool library (reaffirm a national adoption INCITS/ISO/IEC 23002-4:2018 [2021])

Defines the description of the MPEG video tool library (VTL) based on the decoder description specified in ISO/IEC 23001-4. This tool library defines the specification of FUs, which are sufficient to build complete decoding solutions according to the following coding standards: ISO/IEC 14496-2 (MPEG-4 Simple Profile), ISO/IEC 14496-10 (MPEG-4 AVC Constrained Baseline Profile and Progressive High Profile), ISO/IEC 14496-16 (MPEG-4 SC3DMC), and ISO/IEC 23008-2 (HEVC Main Profile).

Single copy price: \$172.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2300220182021>

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#### Reaffirmation

INCITS/ISO/IEC 23002-5:2017 [R202x], Information technology - MPEG video technologies - Part 5:

Reconfigurable media coding conformance and reference software (reaffirm a national adoption INCITS/ISO/IEC 23002-5:2017 [2021])

Describes: what is meant by conformance of what is specified in ISO/IEC 23002-4, the structure of the reference software related to what is specified in ISO/IEC 23002-4. Currently the following profiles are included in ISO/IEC 23002-4 and in this document as reference software: ISO/IEC 14496-2 Simple Profile, ISO/IEC 14496-10 Constrained Baseline Profile, ISO/IEC 14496-10 Progressive High Profile, ISO/IEC 14496-16 SC3DMC, and ISO/IEC 23008-2 Main Profile.

Single copy price: \$76.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2300220172021>

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#### Reaffirmation

INCITS/ISO/IEC 23003-2:2018 [R202x], Information technology - MPEG audio technologies - Part 2: Spatial Audio Object Coding (SAOC) (reaffirm a national adoption INCITS/ISO/IEC 23003-2:2018 [2021])

Specifies the reference model of the spatial audio object coding (SAOC) technology that is capable of recreating, modifying and rendering a number of audio objects based on a smaller number of transmitted channels and additional parametric data.

Single copy price: \$172.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2300320182021>

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#### **Reaffirmation**

INCITS/ISO/IEC 23003-3:2020 [R202x], Information technology - MPEG audio technologies - Part 3: Unified speech and audio coding (reaffirm a national adoption INCITS/ISO/IEC 23003-3:2020 [2021])

Specifies a unified speech and audio codec which is capable of coding signals having an arbitrary mix of speech and audio content. The codec has a performance comparable to, or better than, the best known coding technology that might be tailored specifically to coding of either speech or general audio content. The codec supports single and multi-channel coding at high bitrates and provides perceptually transparent quality.

Single copy price: \$172.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2300320202021>

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#### **Reaffirmation**

INCITS/ISO/IEC 23003-5:2020 [R202x], Information technology - MPEG audio technologies - Part 5:

Uncompressed audio in MPEG-4 file format (reaffirm a national adoption INCITS/ISO/IEC 23003-5:2020 [2021])

Defines how uncompressed audio is carried in files in the family of standards based on the ISO base media file format. This includes mono, stereo and multi-channel audio in Linear Pulse Code Modulation (LPCM) format with various word lengths and sampling rates, and also floating point format. Such representations also occur in other container formats, such as RIFF WAV or AIFF.

Single copy price: \$33.60

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2300320202021-2451508>

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#### **Reaffirmation**

INCITS/ISO/IEC 23003-1:2007/AM4:2017 [R202x], Information technology - MPEG audio technologies - Part 1:

MPEG Surround - Amendment 4: Reference software for MPEG surround extension for 3D audio (reaffirm a national adoption INCITS/ISO/IEC 23003-1:2017/AM4:2017 [2021])

Amendment 4 to ISO/IEC 23003-1:2007.

Single copy price: \$13.80

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec230032007am42017>

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#### Reaffirmation

INCITS/ISO/IEC 23004-8:2009 [R202x], Information technology - Multimedia Middleware - Part 8: Reference software (reaffirm a national adoption INCITS/ISO/IEC 23004-8:2009 [R2021])

This standard explains the organization of the reference software for ISO/IEC 23004, Parts 1 to 7 (Multimedia Middleware). The electronic attachment to ISO/IEC 23004-8:2009 provides the source code of the actual software.

Single copy price: \$120.60

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec230042009r2021>

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#### Reaffirmation

INCITS/ISO/IEC 23005-1:2020 [R202x], Information technology - Media context and control - Part 1: Architecture (reaffirm a national adoption INCITS/ISO/IEC 23005-1:2020 [2021])

Specifies the architecture of MPEG-V (media context and control) and its three types of associated use cases: information adaptation from virtual world to real world; information adaptation from real world to virtual world; information exchange between virtual worlds.

Single copy price: \$138.00

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2300520202021>

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#### Reaffirmation

INCITS/ISO/IEC 23005-2:2018 [R202x], Information technology - Media context and control - Part 2: Control information (reaffirm a national adoption INCITS/ISO/IEC 23005-2:2018 [2021])

The technologies of this document specified are: description languages and vocabularies to characterize devices and users; control information to fine tune the sensed information and the actuator command for the control of virtual/real worlds, i.e., user's actuation preference information, user's sensor preference information, actuator capability description, and sensor capability description. The adaptation engine is not within the scope of this document.

Single copy price: \$172.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2300520182021>

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#### **Reaffirmation**

INCITS/ISO/IEC 23005-3:2019 [R202x], Information technology - Media context and control - Part 3: Sensory information (reaffirm a national adoption INCITS/ISO/IEC 23005-3:2019 [2021])

Specified in this document are description languages and vocabularies which describe sensorial effects. The adaptation engine is not within the scope of this document (or the ISO/IEC 23005 series). This document specifies syntax and semantics of the tools describing sensory information to enrich audio-visual contents: Sensory Effect Description Language (SEDL) as an XML schema-based language which enables one to describe a basic structure of sensory information; Sensory Effect Vocabulary (SEV).

Single copy price: \$172.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2300520192021>

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#### **Reaffirmation**

INCITS/ISO/IEC 23005-4:2018 [R202x], Information technology - Media context and control - Part 4: Virtual world object characteristics (reaffirm a national adoption INCITS/ISO/IEC 23005-4:2018 [2021])

The technologies of this document specified are description languages and vocabularies to describe virtual world objects. The adaptation engine is not within the scope of this document. This document specifies syntax and semantics of the tools used to characterize a virtual world object related metadata: Virtual World Object Characteristics (VWOC) as an XML Schema-based language which enables one to describe a basic structure of avatars and virtual world objects in virtual environments.

Single copy price: \$172.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2300520182021-2451512>

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#### **Reaffirmation**

INCITS/ISO/IEC 23005-5:2019 [R202x], Information technology - Media context and control - Part 5: Data formats for interaction devices (reaffirm a national adoption INCITS/ISO/IEC 23005-5:2019 [2021])

Specifies syntax and semantics of the data formats for interaction devices by providing a standardized format for interfacing actuators and sensors by defining XML schema-based language named Interaction Information Description Language (IIDL). IIDL provides a basic structure with common information for communication with various actuators and sensors in consistency.

Single copy price: \$172.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2300520192021-2451513>

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#### **Reaffirmation**

INCITS/ISO/IEC 23005-6:2019 [R202x], Information technology - Media context and control - Part 6: Common types and tools (reaffirm a national adoption INCITS/ISO/IEC 23005-6:2019 [2021])

Provides definitions of data types and tools, which are used in other parts of the ISO/IEC 23005 series, but are not specific to a single part. This document specifies syntax and semantics of the data types and tools common to the tools defined in the other parts of the ISO/IEC 23005 series, such as basic data types which are used as basic building blocks in more than one of the tools in the ISO/IEC 23005 series.

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#### **Reaffirmation**

INCITS/ISO/IEC 23005-7:2019 [R202x], Information technology - Media context and control - Part 7:

Conformance and reference software (reaffirm a national adoption INCITS/ISO/IEC 23005-7:2019 [2021])

Specifies the conformance and reference software implementing the normative clauses of all parts of the ISO/IEC 23005 series. The information provided is applicable for determining the reference software modules available for the parts of the ISO/IEC 23005 series, understanding the functionality of the available reference software modules, and utilizing the available reference software modules.

Single copy price: \$138.00

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2300520192021-2451515>

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#### **Reaffirmation**

INCITS/ISO/IEC 23006-1:2018 [R202x], Information technology - Multimedia service platform technologies - Part 1: Architecture (reaffirm a national adoption INCITS/ISO/IEC 23006-1:2018 [2021])

Specifies the MPEG-M architecture that is made accessible through the set of MPEG-M high level APIs, MPEG extensible middleware API, elementary services and service aggregation specified in ISO/IEC 23006-2, ISO/IEC 23006-4, and ISO/IEC 23006-5, and as a software implementation in ISO/IEC 23006-3, respectively.

Single copy price: \$103.20

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#### **Reaffirmation**

INCITS/ISO/IEC 23008-4:2020 [R202x], Information technology - High efficiency coding and media delivery in heterogeneous environments - Part 4: MMT reference software (reaffirm a national adoption INCITS/ISO/IEC 23008-4:2020 [2021])

This document provides the reference software for MMT and its description.

Single copy price: \$50.40

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2300820202021-2451528>

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#### **Reaffirmation**

INCITS/ISO/IEC 23008-5:2017 [R202x], Information technology - High efficiency coding and media delivery in heterogeneous environments - Part 5: Reference software for high efficiency video coding (reaffirm a national adoption INCITS/ISO/IEC 23008-5:2017 [2021])

Provides accompanying reference software for Rec. ITU-T H.265 | ISO/IEC 23008-2 as an electronic attachment.

The software is an integral part of this document.

Single copy price: \$33.60

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2300820172021-2462397>

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#### **Reaffirmation**

INCITS/ISO/IEC 23008-8:2018 [R202x], Information technology - High efficiency coding and media delivery in heterogeneous environments - Part 8: Conformance specification for HEVC (reaffirm a national adoption INCITS/ISO/IEC 23008-8:2018 [2021])

Specifies a set of tests and procedures designed to indicate whether encoders or decoders meet the normative requirements specified in Rec. ITU-T H.265 | ISO/IEC 23008-2.

Single copy price: \$172.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2300820182021>

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#### **Reaffirmation**

INCITS/ISO/IEC 23008-11:2015 [R202x], Information technology - High efficiency coding and media delivery in heterogeneous environments - Part 11: MPEG media transport composition information (reaffirm a national adoption INCITS/ISO/IEC 23008-11:2015 [2021])

Specifies MPEG Composition Information (CI), a method describing composition information of media for delivery of multimedia services over packet-based heterogeneous networks. The technologies for composition function specify the method associating content delivered in the format defined in this part of ISO/IEC 23008 to the presentation and the method representing synchronization between timed and non-timed content.

Single copy price: \$120.60

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#### **Reaffirmation**

INCITS/ISO/IEC 23008-5:2017/AM1:2017 [R202x], Information technology - High efficiency coding and media delivery in heterogeneous environments - Part 5: Reference software for high efficiency video coding - Amendment 1: Reference software for screen content coding extensions (reaffirm a national adoption INCITS/ISO/IEC 23008-5:2017/AM1:2017 [2021])

Amendment 1 to ISO/IEC 23008-5:2017.

Single copy price: \$13.80

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#### **Reaffirmation**

INCITS/ISO/IEC 23008-8:2018/AM1:2019 [R202x], Information technology - High efficiency coding and media delivery in heterogeneous environments - Part 8: Conformance specification for HEVC - Amendment 1: Conformance testing for HEVC screen content coding (SCC) extensions and non-intra high throughput profiles (reaffirm a national adoption INCITS/ISO/IEC 23008-8:2018/AM1:2019 [2021])

Amendment 1 to ISO/IEC 23008-8:2018.

Single copy price: \$13.80

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec230082018am12019>

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#### **Reaffirmation**

INCITS/ISO/IEC 23008-11:2015/COR1:2017 [R202x], Information technology - High efficiency coding and media delivery in heterogeneous environments - Part 11: MPEG media transport composition information - Technical Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 23008-11:2017/COR1:2017 [2021])

Technical Corrigendum 1 to ISO/IEC 23008-11:2015

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#### **Reaffirmation**

INCITS/ISO/IEC 23009-2:2020 [R202x], Information technology - Dynamic adaptive streaming over HTTP (DASH) - Part 2: Conformance and reference software (reaffirm a national adoption INCITS/ISO/IEC 23009-2:2020 [2021])

Specifies the conformance and reference software implementing the test vectors comprising media presentation descriptions, segments and combinations thereof in ISO/IEC 23009-1, and the corresponding software modules.

Single copy price: \$172.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2300920202021>

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#### **Reaffirmation**

INCITS/ISO/IEC 23009-4:2018 [R202x], Information technology - Dynamic adaptive streaming over HTTP (DASH) - Part 4: Segment encryption and authentication (reaffirm a national adoption INCITS/ISO/IEC 23009-4:2018 [2021])

This document specifies: Format-independent segment encryption and signalling mechanisms for use with any media segment format used in DASH (ISO/IEC 23009-1); Mechanisms to ensure segment integrity and authenticity for use with any segment used in DASH (ISO/IEC 23009-1).

Single copy price: \$120.60

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2300920182021>

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#### **Reaffirmation**

INCITS/ISO/IEC 23009-5:2017 [R202x], Information technology - Dynamic adaptive streaming over HTTP (DASH) - Part 5: Server and network assisted DASH (SAND) (reaffirm a national adoption INCITS/ISO/IEC 23009-5:2017 [2021])

Defines the following: the functional SAND architecture which identifies the SAND network elements and the nature of SAND messages exchanged among them; the semantics of SAND messages exchanged between the network elements present in the SAND architecture; an encoding scheme for the SAND messages; the SAND message delivery protocol.

Single copy price: \$138.00

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2300920172021>

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#### **Reaffirmation**

INCITS/ISO/IEC 23009-6:2017 [R202x], Information technology - Dynamic adaptive streaming over HTTP (DASH) - Part 6: DASH with server push and WebSockets (reaffirm a national adoption INCITS/ISO/IEC 23009-6:2017 [2021])

Specifies carriage of MPEG-DASH media presentations over full duplex HTTP-compatible protocols, particularly HTTP/2 and WebSocket. This carriage takes advantage of the features these protocols support over HTTP/1.1 to improve delivery performance, while still maintaining backwards compatibility, particularly for the delivery of low latency live video.

Single copy price: \$120.60

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2300920172021-2451538>

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#### **Reaffirmation**

INCITS/ISO/IEC 23009-5:2017/AM1:2020 [R202x], Information technology - Dynamic adaptive streaming over HTTP (DASH) - Part 5: Server and network assisted DASH (SAND) - Amendment 1: Improvements on SAND messages (reaffirm a national adoption INCITS/ISO/IEC 23009-5:2017/AM1:2020 [2021])

Amendment 1 to ISO/IEC 23009-5:2017.

Single copy price: \$13.80

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec230092017am12020>

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#### **Reaffirmation**

INCITS/ISO/IEC 23091-1:2018 [R202x], Information technology - Coding-independent code points - Part 1: Systems (reaffirm a national adoption INCITS/ISO/IEC 23091-1:2018 [2021])  
Series defines various systems code points and fields that establish properties of a multimedia stream that are independent of the compression encoding and bit rate. These properties could describe the appropriate interpretation of decoded multimedia data or could, similarly, describe the characteristics of such signals before the signal is compressed by an encoder that is suitable for compressing such an input signal.

Single copy price: \$33.60

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2309120182021>

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#### **Reaffirmation**

INCITS/ISO/IEC 23091-3:2018 [R202x], Information technology - Coding-independent code points - Part 3: Audio (reaffirm a national adoption INCITS/ISO/IEC 23091-3:2018 [2021])

Defines various code points and fields that establish properties of an audio stream that are independent of the compression encoding and bit rate. These properties could describe the appropriate interpretation of decoded audio data or could, similarly, describe the characteristics of such signals before the signal is compressed by an encoder that is suitable for compressing such an input signal.

Single copy price: \$103.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2309120182021-2451541>

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#### **Reaffirmation**

INCITS/ISO/IEC 23092-4:2020 [R202x], Information technology - Genomic information representation - Part 4: Reference software (reaffirm a national adoption INCITS/ISO/IEC 23092-4:2020 [2021])  
Specifies genomic information representation reference software, referred to as the genomic model (GM). This decoding software is provided to assess conformance to the requirements of ISO/IEC 23092-1 and ISO/IEC 23092-2.

Single copy price: \$33.60

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2309220202021-2451545>

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#### Reaffirmation

INCITS/ISO/IEC 23092-5:2020 [R202x], Information technology - Genomic information representation - Part 5:

Conformance (reaffirm a national adoption INCITS/ISO/IEC 23092-5:2020 [2021])

Specifies a set of test procedures designed to verify whether bitstreams and decoders meet requirements specified in ISO/IEC 23092-1 and ISO/IEC 23092-2.

Single copy price: \$103.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2309220202021-2451546>

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#### Reaffirmation

INCITS/ISO/IEC 23094-1:2020 [R202x], Information technology - General video coding - Part 1: Essential video

coding (reaffirm a national adoption INCITS/ISO/IEC 23094-1:2020 [2021])

Specifies a video coding technology known as essential video coding (EVC), which contains syntax format, semantics and an associated decoding process. The decoding process is designed to guarantee that all EVC decoders conform to a specified combination of capabilities known as the profile, level, and toolset. Any decoding process that produces identical cropped decoded output pictures to those produced by the described process is considered to be in conformance.

Single copy price: \$172.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2309420202021>

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#### Reaffirmation

INCITS/ISO/IEC 23264-1:2021 [R202x], Information Security - Redaction of authentic data - Part 1: General

(reaffirm a national adoption INCITS/ISO/IEC 23264-1:2021 [2021])

Specifies properties of cryptographic mechanisms to redact authentic data. In particular, it defines the processes involved in those mechanisms, the participating parties, and the cryptographic properties.

Single copy price: \$50.40

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec232642021>

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#### **Reaffirmation**

INCITS/ISO/IEC 24709-3:2011 [R202x], Information technology - Conformance testing for the biometric application programming interface (BioAPI) - Part 3: Test assertions for BioAPI frameworks (reaffirm a national adoption INCITS/ISO/IEC 24709-3:2011 [R2021])

Defines test assertions written in the assertion language specified in ISO/IEC 24709-1:2007. Specifies all the test assertions that are to be executed for conformance testing of BioAPI frameworks claiming conformance to ISO/IEC 19784-1 (BioAPI 2.0). Test assertions specified in this part of ISO/IEC 24709 are not claimed to be exhaustive (see also ISO/IEC 24709-1:2007, Clause 6).

Single copy price: \$172.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec247092011r2021>

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#### **Reaffirmation**

INCITS/ISO/IEC 24779-4:2017 [R202x], Information technology - Cross-jurisdictional and societal aspects of implementation of biometric technologies - Pictograms, icons and symbols for use with biometric systems - Part 4: Fingerprint applications (reaffirm a national adoption INCITS/ISO/IEC 24779-4:2017 [2021])

Contains a set of symbols, icons, and pictograms to help the general public understand the concepts and procedures for using electronic systems that collect and/or process fingerprints. This set of symbols, icons and pictograms is designed to be used to:

- identify the type of biometric device;
- provide static instructions related to a fingerprint device;
- display dynamic real-time information related to the fingerprint device; and
- indicate the status of the fingerprint device.

Single copy price: \$138.00

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2477920172021>

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#### Reaffirmation

INCITS/ISO/IEC 24779-5:2020 [R202x], Information technology - Cross-jurisdictional and societal aspects of implementation of biometric technologies - Pictograms, icons and symbols for use with biometric systems - Part 5: Face applications (reaffirm a national adoption INCITS/ISO/IEC 24779-5:2020 [2021])

Contains a set of pictograms, icons, and symbols to help the general public understand the concepts and procedures for using electronic systems that collect and/or evaluate facial images. Operators can use this document, with the possibility of using additional symbols and information. This set of pictograms, icons and symbols is designed to be used to: identify the type of biometric sensor; and provide supporting instructions related to facial image collection.

Single copy price: \$50.40

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2477920202021>

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#### Reaffirmation

INCITS/ISO/IEC 29109-10:2010 [R202x], Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 10: Hand geometry silhouette data (reaffirm a national adoption INCITS/ISO/IEC 29109-10:2010 [R2021])

Specifies elements of conformance testing methodology, test assertions, and test procedures as applicable to ISO/IEC 19794-10. This part of the standard establishes test assertions of the structure of the hand geometry silhouette data format; test assertions of internal consistency by checking the types of values that may be contained within each field; and informative guidance for testing the consistency of selected encoded data fields with the input biometric data.

Single copy price: \$50.40

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#### Reaffirmation

INCITS/ISO/IEC 29159-1:2010 [R202x], Information technology - Biometric calibration, augmentation, and fusion data - Part 1: Fusion information format (reaffirm a national adoption INCITS/ISO/IEC 29159-1:2010 [R2021])

Specifies a biometric fusion information format that establishes machine readable data formats to describe the statistics of comparison score inputs to a fusion process. Does not standardize comparison-score normalization processes, nor standardize or define fusion processes.

Single copy price: \$103.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec291592010r2021>

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#### Reaffirmation

INCITS/ISO/IEC 29170-2:2015 [R202x], Information technology - Advanced image coding and evaluation - Part 2: Evaluation procedure for nearly lossless coding (reaffirm a national adoption INCITS/ISO/IEC 29170-2:2015 [2021])

Normalizes evaluation and grading of a light coding system used for displays and display systems, but is independent of the display technology. This procedure measures whether an observer can distinguish between an uncompressed reference and the reconstructed image to a pre-determined, statistically meaningful level. Single copy price: \$103.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2917020152021>

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#### Reaffirmation

INCITS/ISO/IEC 29170-2:2015/AM1:2020 [R202x], Information technology - Advanced image coding and evaluation - Part 2: Evaluation procedure for nearly lossless coding - Amendment 1: Evaluation procedure parameters for nearly lossless coding of high dynamic range media and image sequences (reaffirm a national adoption INCITS/ISO/IEC 29170-2:2015/AM1:2020 [2021])

Amendment 1 to ISO/IEC 29170-2:2015.

Single copy price: \$13.80

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec291702015am12020>

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#### Reaffirmation

INCITS/ISO/IEC 29182-7:2015 [R202x], Information technology - Sensor networks: Sensor Network Reference Architecture (SNRA) - Part 7: Interoperability guidelines (reaffirm a national adoption INCITS/ISO/IEC 29182-7:2015 [2021])

Provides a general overview and guidelines for achieving interoperability between sensor network services and related entities in a heterogeneous sensor network.

Single copy price: \$50.40

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2918220152021>

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#### Reaffirmation

INCITS/ISO/IEC 29199-2:2020 [R202x], Information technology - JPEG XR image coding system - Part 2: Image coding specification (reaffirm a national adoption INCITS/ISO/IEC 29199-2:2020 [2021])

This document specifies a coding format, referred to as JPEG XR, which is designed primarily for continuous-tone photographic content.

Single copy price: \$172.20

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#### Reaffirmation

INCITS/ISO/IEC 30106-1:2016 [R202x], Information technology - Object oriented BioAPI - Part 1: Architecture (reaffirm a national adoption INCITS/ISO/IEC 30106-1:2016 [2021])

Specifies an architecture for a set of interfaces which define the OO BioAPI. Components defined in this part of ISO/IEC 30106 include a framework, Biometric Service Providers (BSPs), Biometric Function Providers (BFPs), and a component registry.

NOTE: Each of these components have an equivalent component specified in ISO/IEC 19784-1 as the OO BioAPI is intended to be an OO interpretation of this part of ISO/IEC 30106.

Single copy price: \$120.60

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec3010620162021>

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#### Reaffirmation

INCITS/ISO/IEC 30106-2:2020 [R202x], Information technology - Object oriented BioAPI - Part 2: Java implementation (reaffirm a national adoption INCITS/ISO/IEC 30106-2:2020 [2021])

Specifies an interface of a BioAPI Java framework and BioAPI Java BSP, which will mirror the corresponding components, specified in ISO/IEC 30106-1. The semantic equivalent of ISO/IEC 30106-1 is maintained in this document.

Single copy price: \$155.40

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#### **Reaffirmation**

INCITS/ISO/IEC 30106-3:2020 [R202x], Information technology - Object oriented BioAPI - Part 3: C implementation (reaffirm a national adoption INCITS/ISO/IEC 30106-3:2020 [2021])  
Specifies an interface of a BioAPI C# framework and BioAPI C# BSP which mirror the corresponding components specified in ISO/IEC 30106-1. The semantic equivalence of this document will be maintained with ISO/IEC 30106-2 (Java implementation). In spite of the differences in actual parameters passed between functions, the names and interface structure are the same.

Single copy price: \$155.40

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#### **Reaffirmation**

INCITS/ISO/IEC 30106-4:2019 [R202x], Information technology - Object oriented BioAPI - Part 4: C++ implementation (reaffirm a national adoption INCITS/ISO/IEC 30106-4:2019 [2021])  
Specifies an interface of a BioAPI C++ framework and BioAPI C++ BSP which will mirror the corresponding components specified in ISO/IEC 30106-1. The semantic equivalence of this document will be maintained with ISO/IEC 30106-2 (Java implementation) and ISO/IEC 30106-3 (C# implementation). In spite of the differences in actual parameters passed between functions, the names and interface structure are the same.

Single copy price: \$155.40

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#### **Reaffirmation**

INCITS/ISO/IEC 30106-1:2016/AM1:2019 [R202x], Information technology - Object oriented BioAPI - Part 1: Architecture - Amendment 1: Additional specifications and conformance statements (reaffirm a national adoption INCITS/ISO/IEC 30106-1:2016/AM1:2019 [2021])

Amendment 1 to ISO/IEC 30106-1:2016.

Single copy price: \$13.80

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec301062016am12019>

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#### **Reaffirmation**

INCITS/ISO/IEC 30107-2:2017 [R202x], Information technology - Biometric presentation attack detection - Part 2: Data formats (reaffirm a national adoption INCITS/ISO/IEC 30107-2:2017 [2021])

Defines data formats for conveying the mechanism used in biometric presentation attack detection and for conveying the results of presentation attack detection methods. The attacks considered in the ISO/IEC 30107 series take place at the sensor during the presentation and collection of the biometric characteristics. Any other attacks are outside the scope of this document.

Single copy price: \$76.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec3010720172021>

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#### **Reaffirmation**

INCITS/ISO/IEC 30140-1:2018 [R202x], Information technology - Underwater acoustic sensor network (UWASN) - Part 1: Overview and requirements (reaffirm a national adoption INCITS/ISO/IEC 30140-1:2018 [2021])

Provides a general overview of underwater acoustic sensor networks (UWASN). It describes their main characteristics in terms of the effects of propagation variability and analyses the main differences with respect to terrestrial networks. It further identifies the specificities of UWASN and derives some specific and general requirements for these networks.

Single copy price: \$138.00

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#### **Reaffirmation**

INCITS/ISO/IEC 30140-3:2018 [R202x], Information technology - Underwater acoustic sensor network (UWASN) - Part 3: Entities and interface (reaffirm a national adoption INCITS/ISO/IEC 30140-3:2018 [2021])

The 30140 series provides general requirements, reference architecture and high-level interface guidelines supporting interoperability among underwater acoustic sensor networks (UWASNs). Part 3 provides descriptions for the entities and interfaces of the UWASN reference architecture.

Single copy price: \$103.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec3014020182021-2453688>

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#### Reaffirmation

INCITS/ISO/IEC 30140-4:2018 [R202x], Information technology - Underwater acoustic sensor network (UWASN) - Part 4: Interoperability (reaffirm a national adoption INCITS/ISO/IEC 30140-4:2018 [2021])

The ISO/IEC 30140 series provides general requirements, reference architecture, and high-level interface guidelines supporting interoperability among underwater acoustic sensor networks (UWASNs). Part 4 provides information on interoperability requirements among entities within a UWASN and among various UWASNs.

Single copy price: \$76.20

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#### Reaffirmation

INCITS/ISO/IEC 39794-1:2019 [R202x], Information technology - Extensible biometric data interchange formats - Part 1: Framework (reaffirm a national adoption INCITS/ISO/IEC 39794-1:2019 [2021])

Specifies rules and guidelines for defining extensible biometric data interchange formats that are extensible without invalidating previous data structures; the meaning of common data elements for use in extensible biometric data interchange formats; common data structures for tagged binary data formats based on an extensible specification in ASN.1; common data structures for textual data formats based on an XML schema definition; and conformance testing concepts and methodologies for ...

Single copy price: \$155.40

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#### Reaffirmation

INCITS/ISO/IEC 39794-4:2019 [R202x], Information technology - Extensible biometric data interchange formats - Part 4: Finger image data (reaffirm a national adoption INCITS/ISO/IEC 39794-4:2019 [2021])

Specifies generic extensible data interchange formats for the representation of friction ridge image data: a tagged binary data format based on an extensible specification in ASN.1 and a textual data format based on an XML schema definition that are both capable of holding the same information; examples of data record contents; application specific requirements, recommendations, and best practices in data acquisition; and conformance test assertions and conformance test procedures.

Single copy price: \$172.20

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#### Reaffirmation

INCITS/ISO/IEC 39794-5:2019 [R202x], Information technology - Extensible biometric data interchange formats - Part 5: Face image data (reaffirm a national adoption INCITS/ISO/IEC 39794-5:2019 [2021])

Specifies generic extensible data interchange formats for the representation of face image data: A tagged binary data format based on an extensible specification in ASN.1 and a textual data format based on an XML schema definition that are both capable of holding the same information; examples of data record contents; application specific requirements, recommendations, and best practices in data acquisition; and conformance test assertions and conformance test procedures.

Single copy price: \$172.20

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#### Reaffirmation

INCITS/ISO/IEC 39794-6:2021 [R202x], Information technology - Extensible biometric data interchange formats - Part 6: Iris image data (reaffirm a national adoption INCITS/ISO/IEC 39794-6:2021 [2021])

Specifies generic extensible data interchange formats for the representation of iris image data: a tagged binary data format based on an extensible specification in ASN.1 and a textual data format based on an XML schema definition that are both capable of holding the same information, examples of data record contents, application specific requirements, recommendations, and best practices in data acquisition, and conformance test assertions and conformance test procedures.

Single copy price: \$138.00

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#### Reaffirmation

INCITS/ISO/IEC 4909:2006 [R202x], Identification cards - Financial transaction cards - Magnetic stripe data content for track 3 (reaffirm a national adoption INCITS/ISO/IEC 4909:2006 [R2021])

Establishes specifications for financial transaction cards using track 3 and is intended to permit interchange based on the use of magnetic stripe encoded information. It specifies the data content and physical location of read/write information on track 3 and is to be used in conjunction with the relevant parts of ISO/IEC 7811 and ISO/IEC 7812.

Single copy price: \$101.60

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#### **Reaffirmation**

INCITS/ISO/IEC 14750:1999 [R202x], Information Technology - Open Distributed Processing - Interface Definition Language (reaffirm a national adoption INCITS/ISO/IEC 14750:1999 [R2021])

Provides the ODP Reference Model (see ITU-T Rec. X.902 | ISO/IEC 10746-2 and ITU-T Rec. X.903 | ISO/IEC 10746-3) with a language and environment neutral notation to describe computational operation interface signatures. Use of this notation does not imply use of specific supporting mechanisms and protocols.

Single copy price: \$120.60

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#### **Reaffirmation**

INCITS/ISO/IEC 14752:2000 [R202x], Information Technology - Open Distributed Processing - Protocol Support for Computational Interactions (reaffirm a national adoption INCITS/ISO/IEC 14752:2000 [R2021])

Defines how interactions between computational objects in a computational specification of a system relate to protocol support for those interactions in an engineering specification of that system.

Single copy price: \$120.60

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec147522000r2021>

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#### **Reaffirmation**

INCITS/ISO/IEC 14753:1999 [R202x], Information Technology - Open Distributed Processing - Interface References and Binding (reaffirm a national adoption INCITS/ISO/IEC 14753:1999 [R2021])

Interface references are crucial to interworking between ODP systems and federation of groups of ODP systems. An interface reference embodies the information needed to establish bindings, including binding to objects at nodes that support several different communication protocols and binding to objects in different management domains.

Single copy price: \$120.60

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec147531999r2021>

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#### **Reaffirmation**

INCITS/ISO/IEC 14769:2001 [R202x], Information Technology - Open Distributed Processing - Type Repository Function (reaffirm a national adoption INCITS/ISO/IEC 14769:2001 [R2021])

Defines a framework for describing types of interest in ODP systems by determining what entities need to be typed and what needs to be said about the identified types.

Single copy price: \$120.60

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec147692001r2011>

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#### **Reaffirmation**

INCITS/ISO/IEC 14771:1999 [R202x], Information Technology - Open Distributed Processing - Naming Framework (reaffirm a national adoption INCITS/ISO/IEC 14771:1999 [R2021])

Defines a general framework for context-relative naming, refining and elaborating on the naming concepts defined in Part 2 of the ODP-RM; Identifies and characterizes functions necessary to handle names in the context of a federation of different naming systems; and clarifies the relationship between the concepts of name management (i.e., federation and naming) in distributed computing systems.

Single copy price: \$103.20

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#### **Reaffirmation**

INCITS/ISO/IEC 16485:2000 [R202x], Information technology - Mixed Raster Content (MRC) (reaffirm a national adoption INCITS/ISO/IEC 16485:2000 [R2021])

Defines a means to efficiently represent raster-oriented pages that contain a mixture of multi-level and bi-level images. Any of the many ITU-T recommended encoding schemes, such as T.81 (JPEG) for the encoding of multi-level images and T.6 (MMR) for the encoding of bi-level images, may be combined within the context of this Recommendation.

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#### Reaffirmation

INCITS/ISO/IEC 20027:2018 [R202x], Information technology - Guidelines for slap tenprint fingerprintture (reaffirm a national adoption INCITS/ISO/IEC 20027:2018 [2021])

Provides guidelines to follow during the acquisition process of slap tenprints in order to obtain fingerprints of the best quality possible within acceptable time constraints.

Single copy price: \$76.20

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2002720182021>

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#### Reaffirmation

INCITS/ISO/IEC 21836:2020 [R202x], Information technology - Data centres - Server energy effectiveness metric (reaffirm a national adoption INCITS/ISO/IEC 21836:2020 [2021])

Specifies a measurement method to assess and report the energy effectiveness of a computer server. This document does not set any pass/fail criteria for servers.

Single copy price: \$155.40

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2183620202021>

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#### Reaffirmation

INCITS/ISO/IEC 22624:2020 [R202x], Information Technology - Cloud Computing - Taxonomy Based Data Handling for Cloud Services (reaffirm a national adoption INCITS/ISO/IEC 22624:2020 [2021])

Describes a framework for the structured expression of data-related policies and practices in the cloud computing environment, based on the data taxonomy in ISO/IEC 19944; provides guidelines on application of the taxonomy for handling of data based on data subcategory and classification; covers expression of data-related policies and practices including, but not limited to data geolocation, cross-border flow of data, data access and data portability, data use, data management, and data governance; describes how the framework can be used in codes of conduct for practices regarding data at rest and in transit, including cross border data transfer, as well as remote access to data; provides use cases for data handling challenges, i.e., control, access and location of data according to ISO/IEC 19944 data categories. This document is applicable primarily to cloud service providers, cloud service customers (CSCs), and cloud service users, but also to any person or organization involved in legal, policy, technical or other implications of taxonomy-based data management in cloud services.

Single copy price: \$138.00

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec2262420202021>

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#### Reaffirmation

INCITS/ISO/IEC 29183:2021 [R202x], Information technology - Office equipment - Method for measuring digital copying productivity for a single one-sided original (reaffirm a national adoption INCITS/ISO/IEC 29183:2021 [2021])

Specifies a method for measuring productivity of digital copying devices and multifunctional devices with various copying modes and a single one-sided original. The document is applicable to digital copying devices and multifunctional devices. The document is intended to be used for black and white (B&W) as well as colour digital copying devices and multifunctional devices of any underlying marking technology. This document includes instructions for the creation of test charts, test setup procedure, test procedure, and the reporting requirements for the digital copying productivity measurements.

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#### Reaffirmation

INCITS/ISO/IEC 29197:2015 [R202x], Information technology - Evaluation methodology for environmental influence in biometric system performance (reaffirm a national adoption INCITS/ISO/IEC 29197:2015 [R2021])

Addresses fundamental requirements for planning and execution of environmental performance evaluations for biometric systems based on scenario and operational test methodologies, specifications to define, establish, and measure specific conditions to assess, including requirements for equipment, requirements for establishing a baseline performance in order to compare the influence of environmental parameters.

Single copy price: \$103.20

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#### Reaffirmation

INCITS/ISO/IEC 30101:2014 [R202x], Information technology - Sensor networks: Sensor network and its interfaces for smart grid system (reaffirm a national adoption INCITS/ISO/IEC 30101:2014 [2021])

For sensor networks in order to support smart-grid technologies for power generation, distribution, networks, energy storage, load efficiency, control and communications, and associated environmental challenges.

Characterizes the requirements for sensor networks to support the aforementioned applications and challenges. Data from sensors in smart grid systems is collected, transmitted, published, and acted upon to ensure efficient coordination of the various systems and subsystems.

Single copy price: \$172.20

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#### Reaffirmation

INCITS/ISO/IEC 30128:2014 [R202x], Information technology - Sensor networks - Generic Sensor Network Application Interface (reaffirm a national adoption INCITS/ISO/IEC 30128:2014 [2021])  
Specifies the interfaces between the application layers of service providers and sensor network gateways, which is Protocol A in interface 3, defined in ISO/IEC 29182-5.

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#### Reaffirmation

INCITS/ISO/IEC 30136:2018 [R202x], Information technology - Performance testing of biometric template protection schemes (reaffirm a national adoption INCITS/ISO/IEC 30136:2018 [2021])  
Supports evaluation of the accuracy, secrecy, and privacy of biometric template protection schemes. It establishes definitions, terminology, and metrics for stating the performance of such schemes. Particularly, this document establishes requirements for the measurement and reporting of theoretical and empirical accuracy of biometric template protection schemes, theoretical and empirical probability of a successful attack on biometric template protection schemes (single or multiple), etc.

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#### Reaffirmation

INCITS/ISO/IEC 30142:2020 [R202x], Information technology - Underwater acoustic sensor network (UWASN) - Network management system overview and requirements (reaffirm a national adoption INCITS/ISO/IEC 30142:2020 [2021])

Provides the overview and requirements of a network management system in underwater acoustic sensor network (UWASN) environment. It specifies the following: functions which support underwater network management system; entities required for underwater network management system; data about the communication between elements in underwater network management system; guidelines to model the underwater network management system; general and functional requirements of underwater network management.

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## Comment Deadline: February 17, 2026

### ITI (INCITS) (InterNational Committee for Information Technology Standards)

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

#### Reaffirmation

INCITS/ISO/IEC 30143:2020 [R202x], Information technology - Underwater acoustic sensor network (UWASN) - Application profiles (reaffirm a national adoption INCITS/ISO/IEC 30143:2020 [2021])

Provides guidelines for designing and developing new applications in the underwater environment such as fish farming, environment monitoring, harbour security, etc. This document also:

- provides the components required for developing the application;
- provides instructions for modelling the application with examples;
- helps the user to understand the communication between the elements in the application for modelling the communication between elements; ...

Single copy price: \$138.00

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### ITI (INCITS) (InterNational Committee for Information Technology Standards)

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

#### Withdrawal

INCITS/ISO/IEC 14443-2:2020/AM1:2021 [2021], Cards and security devices for personal identification - Contactless proximity objects - Part 2: Radio frequency power and signal interface - Amendment 1: Dynamic power level management (withdrawal of INCITS/ISO/IEC 14443-2:2020/AM1:2021 [2021])

Amendment 1 to ISO/IEC 14443-2:2020.

Single copy price: \$67.20

Obtain an electronic copy from: <https://webstore.ansi.org/search/find?in=1&st=14443-2%3A2020%2FAM1%3A2021>

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### ITI (INCITS) (InterNational Committee for Information Technology Standards)

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

#### Withdrawal

INCITS/ISO/IEC 14443-3:2018/AM1:2021 [2021], Cards and security devices for personal identification - Contactless proximity objects - Part 3: Initialization and anticollision - Amendment 1: Dynamic power level management (withdrawal of INCITS/ISO/IEC 14443-3:2018/AM1:2021 [2021])

Amendment 1 to ISO/IEC 14443-3:2018.

Single copy price: \$18.40

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## Comment Deadline: February 17, 2026

### ITI (INCITS) (InterNational Committee for Information Technology Standards)

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

#### **Withdrawal**

INCITS/ISO/IEC 21122-4:2020 [2021], Information technology - JPEG XS low-latency lightweight image coding system - Part 4: Conformance testing (withdrawal of INCITS/ISO/IEC 21122-4:2020 [2021])

Specifies the framework, concepts, methodology for testing, and criteria to be achieved to claim conformance to multiple parts of the ISO/IEC 21122 series. It lists the conformance testing procedures.

Single copy price: \$67.20

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700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

#### **Withdrawal**

INCITS/ISO/IEC 21122-4:2024 [2024], Information technology - JPEG XS low-latency lightweight image coding system - Part 1: Core coding system (withdrawal of INCITS/ISO/IEC 21122-4:2024 [2024])

Specifies the syntax and an accompanying decompression process that is capable to represent continuous-tone grey-scale, or continuous-tone colour digital images without visual loss at moderate compression rates. Typical compression rates are between 2:1 and 18:1 but can also be higher depending on the nature of the image. In particular, the syntax and the decoding process specified in this document allow lightweight encoder and decoder implementations that limit the end-to-end latency to a fraction of the frame size. However, the definition of transmission channel buffer models necessary to ensure such latency is beyond the scope of this document.

Single copy price: \$137.60

Obtain an electronic copy from: <https://webstore.ansi.org/standards/incits/incitsisoiec211222024>

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#### **Withdrawal**

INCITS/ISO/IEC 18584:2015 [2021], Information technology - Identification cards - Conformance test requirements for on-card biometric comparison applications (withdrawal of INCITS/ISO/IEC 18584:2015 [2021])

Establishes conformance test requirements for using general framework for on-card comparison applications, conformance test requirements for using work-sharing mechanism for on-card comparison applications, and conformance test requirements to check accomplishment of security policies for on-card biometric comparison that are specified in ISO/IEC 24787:2010.

Single copy price: \$127.00

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# Final Actions on American National Standards

The standards actions listed below have been approved by the ANSI Board of Standards Review (BSR) or by an ANSI-Audited Designator, as applicable.

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## **AISC (American Institute of Steel Construction)**

130 E. Randolph Street, Suite 2000, Chicago, IL 60601-6204 | [gonner@aisc.org](mailto:gonner@aisc.org), [www.aisc.org](http://www.aisc.org)

ANSI/AISC 313-2025, Code of Standard Practice for Structural Stainless Steel Buildings (new standard) Final Action Date: 12/8/2025 | *New Standard*

ANSI/AISC 370-2025, Specification for Structural Stainless Steel Buildings (revision of ANSI/AISC 370-2021) Final Action Date: 12/8/2025 | *Revision*

## **AMCA (Air Movement and Control Association)**

30 West University Drive, Arlington Heights, IL 60004-1893 | [jbrooks@amca.org](mailto:jbrooks@amca.org), [www.amca.org](http://www.amca.org)

ANSI/AMCA 610-2025, Laboratory Methods of Testing Airflow Measurement Stations for Performance Rating (revision of ANSI/AMCA Standard 610-2019) Final Action Date: 12/9/2025 | *Revision*

## **ASABE (American Society of Agricultural and Biological Engineers)**

2950 Niles Road, Saint Joseph, MI 49085 | [wall@asabe.org](mailto:wall@asabe.org), <https://www.asabe.org/>

ANSI/ASABE S593.1-JAN2011 (R2025), Terminology and Definitions for Biomass Production, Harvesting and Collection, Storage, Processing, Conversion and Utilization (reaffirmation and redesignation of ANSI/ASABE S593.1-JAN2011 (R2021)) Final Action Date: 12/10/2025 | *Reaffirmation*

ANSI/ASABE S612 JUL2009 (R2025), Performing On-Farm Energy Audits (reaffirmation and redesignation of ANSI/ASABE S612 JUL2009 (R2021)) Final Action Date: 12/9/2025 | *Reaffirmation*

ANSI/ASABE S629 JUL2016 (R2025), Framework to Evaluate the Sustainability of Agricultural Production Systems (reaffirmation and redesignation of ANSI/ASABE S629-2016 (R2021)) Final Action Date: 12/9/2025 | *Reaffirmation*

## **ASME (American Society of Mechanical Engineers)**

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 | [ansibox@asme.org](mailto:ansibox@asme.org), [www.asme.org](http://www.asme.org)

ANSI/ASME A17.7/CSA B44.7-2025, Performance-based code for elevators and escalators (revision of ANSI/ASME A17.7/CSA B44.7-2006 (R2022)) Final Action Date: 12/9/2025 | *Revision*

## **ASTM (ASTM International)**

100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 | [accreditation@astm.org](mailto:accreditation@astm.org), [www.astm.org](http://www.astm.org)

ANSI/ASTM E3328-2025, Guide for the Forensic Collection, Analysis, Comparison and Evaluation of Glass (new standard) Final Action Date: 8/1/2025 | *New Standard*

ANSI/ASTM D3679-2025, Specification for Rigid Poly(Vinyl Chloride) (PVC) Siding (revision of ANSI/ASTM D3679-2024) Final Action Date: 7/22/2025 | *Revision*

ANSI/ASTM D6299-2025a, Practice for Applying Statistical Quality Assurance and Control Charting Techniques to Evaluate Analytical Measurement System Performance (revision of ANSI/ASTM D6299-2023a) Final Action Date: 7/22/2025 | *Revision*

ANSI/ASTM D7372-2025a, Guide for Analysis and Interpretation of Proficiency Test Program Results (revision of ANSI/ASTM D7372-2021) Final Action Date: 7/22/2025 | *Revision*

**ASTM (ASTM International)**

100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 | [accreditation@astm.org](mailto:accreditation@astm.org), [www.astm.org](http://www.astm.org)

ANSI/ASTM E329-2025a, Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection (revision of ANSI/ASTM E329-2023) Final Action Date: 7/22/2025 | *Revision*

ANSI/ASTM F765-2025, Specification for Wildcats, Ship Anchor Chain (revision of ANSI/ASTM F765-1993 (R2022)) Final Action Date: 7/22/2025 | *Revision*

**AWS (American Welding Society)**

8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 | [kbulger@aws.org](mailto:kbulger@aws.org), [www.aws.org](http://www.aws.org)

ANSI/AWS A5.29/A5.29M-2026, Specification for Low-Alloy Steel Electrodes for Flux Cored Arc Welding (revision of ANSI/AWS A5.29/A5.29M-2022) Final Action Date: 12/8/2025 | *Revision*

**AWWA (American Water Works Association)**

6666 W. Quincy Avenue, Denver, CO 80235 | [mrohr@awwa.org](mailto:mrohr@awwa.org), [www.awwa.org](http://www.awwa.org)

ANSI/AWWA D110-2025, Wire- and Strand-Wound, Circular, Prestressed Concrete Water Tanks (revision of ANSI/AWWA D110-2013 (R2018)) Final Action Date: 12/8/2025 | *Revision*

**CPLSO**

The Marchioness Building, Commercial Road, Bristol BS16TG, UK BS1 6TG | [pratt.hugh@cplso.org](mailto:pratt.hugh@cplso.org)

ANSI/CPLSO 18-2021 (R2025), Crane Insulators, Selection, Use, and Maintenance (reaffirmation of ANSI/CPLSO 18-2021) Final Action Date: 12/9/2025 | *Reaffirmation*

**NCPDP (National Council for Prescription Drug Programs)**

9240 East Raintree Drive, Scottsdale, AZ 85260 | [mweiker@ncdpd.org](mailto:mweiker@ncdpd.org), [www.ncdpd.org](http://www.ncdpd.org)

ANSI/NCPDP BUS v5.1-2025, NCPDP Billing Unit Standard v5.1 (revision and redesignation of ANSI/NCPDP BUS v5.0-2024) Final Action Date: 12/9/2025 | *Revision*

**NFPA (National Fire Protection Association)**

One Batterymarch Park, Quincy, MA 02169 | [dbellis@nfpa.org](mailto:dbellis@nfpa.org), [www.nfpa.org](http://www.nfpa.org)

ANSI/NFPA 2-2026, Hydrogen Technologies Code (revision of ANSI/NFPA 2-2023) Final Action Date: 12/9/2025 | *Revision*

ANSI/NFPA 13E-2026, Recommended Practice for Fire Department Operations in Properties Protected by Sprinkler and Standpipe Systems (revision of ANSI/NFPA 13E-2020) Final Action Date: 12/9/2025 | *Revision*

ANSI/NFPA 32-2026, Standard for Drycleaning Facilities (revision of ANSI/NFPA 32-2021) Final Action Date: 12/9/2025 | *Revision*

ANSI/NFPA 53-2026, Recommended Practice on Materials, Equipment, and Systems Used in Oxygen-Enriched Atmospheres (revision of ANSI/NFPA 53-2021) Final Action Date: 12/9/2025 | *Revision*

ANSI/NFPA 59A-2026, Standard for the Production, Storage, and Handling of Liquefied Natural Gas (LNG) (revision of ANSI/NFPA 59A-2023) Final Action Date: 12/9/2025 | *Revision*

ANSI/NFPA 70B-2026, Recommended Practice for Electrical Equipment Maintenance (revision of ANSI/NFPA 70B-2019) Final Action Date: 12/9/2025 | *Revision*

ANSI/NFPA 102-2026, Standard for Grandstands, Folding and Telescopic Seating, Tents, and Membrane Structures (revision of ANSI/NFPA 102-2021) Final Action Date: 12/9/2025 | *Revision*

**NFPA (National Fire Protection Association)**

One Batterymarch Park, Quincy, MA 02169 | [dbellis@nfpa.org](mailto:dbellis@nfpa.org), [www.nfpa.org](http://www.nfpa.org)

ANSI/NFPA 214-2026, Standard on Water-Cooling Towers (revision of ANSI/NFPA 214-2021) Final Action Date: 12/9/2025 | *Revision*

ANSI/NFPA 232-2026, Standard for the Protection of Records (revision of ANSI/NFPA 232-2022) Final Action Date: 12/9/2025 | *Revision*

ANSI/NFPA 409-2026, Standard on Aircraft Hangers (revision of ANSI/NFPA 409-2022) Final Action Date: 12/9/2025 | *Revision*

ANSI/NFPA 415-2026, Standard on Airport Terminal Buildings, Fueling Ramp Drainage, and Loading Walkways (revision of ANSI/NFPA 415-2022) Final Action Date: 12/9/2025 | *Revision*

ANSI/NFPA 423-2026, Standard for Construction and Protection of Aircraft Engine Test Facilities (revision of ANSI/NFPA 423-2022) Final Action Date: 12/9/2025 | *Revision*

ANSI/NFPA 455-2026, Guide for Emergency Medical Services and Systems and Community Health Care Programs (revision, redesignation and consolidation of ANSI/NFPA 450-2021 and ANSI/NFPA 451-2020) Final Action Date: 12/9/2025 | *Revision*

ANSI/NFPA 520-2026, Standard on Subterranean Spaces (revision of ANSI/NFPA 520-2021) Final Action Date: 12/9/2025 | *Revision*

ANSI/NFPA 730-2026, Guide for Premises Security (revision of ANSI/NFPA 730-2023) Final Action Date: 12/9/2025 | *Revision*

ANSI/NFPA 731-2026, Standard for the Installation of Premises Security Systems (revision of ANSI/NFPA 731-2023) Final Action Date: 12/9/2025 | *Revision*

ANSI/NFPA 850-2026, Recommended Practice for Fire Protection for Electric Generating Plants and High Voltage Direct Current Converter Stations (revision of ANSI/NFPA 850-2020) Final Action Date: 12/9/2025 | *Revision*

ANSI/NFPA 1082-2026, Standard for Facilities Fire and Life Safety Director Professional Qualifications (revision of ANSI/NFPA 1082-2023) Final Action Date: 12/9/2025 | *Revision*

ANSI/NFPA 1300-2026, Standard on Community Risk Assessment and Community Risk Reduction Plan Development (revision of ANSI/NFPA 1300-2020) Final Action Date: 12/9/2025 | *Revision*

ANSI/NFPA 1400-2026, Standard on Fire Service Training (revision, redesignation and consolidation of ANSI/NFPA 1402-2019, ANSI/NFPA 1403-2018, ANSI/NFPA 1404-2018, ANSI/NFPA 1407-2020, ANSI/NFPA 1408-2020, ANSI/NFPA 1410-2020, and ANSI/NFPA 1451-2018) Final Action Date: 12/9/2025 | *Revision*

ANSI/NFPA 1401-2026, Recommended Practice for Fire Service Training Reports and Records (revision of ANSI/NFPA 1401-2017) Final Action Date: 12/9/2025 | *Revision*

ANSI/NFPA 1405-2026, Guide for Land-Based Fire Departments that Respond to Marine Vessel Fires (revision of ANSI/NFPA 1405-2020) Final Action Date: 12/9/2025 | *Revision*

ANSI/NFPA 1700-2026, Guide for Structural Fire Fighting (revision of ANSI/NFPA 1700-2021) Final Action Date: 12/9/2025 | *Revision*

ANSI/NFPA 1750-2026, Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations, and Providing Fire and Emergency Services to the Public (revision, redesignation and consolidation of ANSI/NFPA 1710-2020; ANSI/NFPA 1720-2020; ANSI/NFPA 1730-2019; and ANSI/NFPA 1201-2020) Final Action Date: 12/9/2025 | *Revision*

**NFPA (National Fire Protection Association)**

One Batterymarch Park, Quincy, MA 02169 | [dbellis@nfpa.org](mailto:dbellis@nfpa.org), [www.nfpa.org](http://www.nfpa.org)

ANSI/NFPA 1857-2026, Standard on Selection, Care, and Maintenance of Protective Ensembles for Technical Rescue Incidents and Wildland Firefighting (revision, redesignation and consolidation of ANSI/NFPA 1855-2018 and ANSI/NFPA 1877-2022) Final Action Date: 12/9/2025 | *Revision*

ANSI/NFPA 2800-2026, Standard on Facility Emergency Action Plans (revision of ANSI/NFPA 2800-2023) Final Action Date: 12/9/2025 | *Revision*

**NSF (NSF International)**

789 N. Dixboro Road, Ann Arbor, MI 48105 | [mmilla@nsf.org](mailto:mmilla@nsf.org), [www.nsf.org](http://www.nsf.org)

ANSI/NSF 42-2025 (i135r1), Drinking Water Treatment Units - Aesthetic Effects (revision of ANSI/NSF 42-2023) Final Action Date: 12/5/2025 | *Revision*

ANSI/NSF 173-2025 (i124r2), Dietary Supplements (revision of ANSI/NSF 173-2024a) Final Action Date: 12/8/2025 | *Revision*

ANSI/NSF 305-2025 (i34r1), Personal Care Products Containing Organic Ingredients (revision of ANSI/NSF 305-2024) Final Action Date: 12/9/2025 | *Revision*

ANSI/NSF/CAN 61-2025 (i199r3), Drinking Water System Components - Health Effects (revision of ANSI/NSF/CAN 61-2024) Final Action Date: 12/4/2025 | *Revision*

**ULSE (UL Standards and Engagement)**

12 Laboratory Drive, Research Triangle Park, NC 27709 | [ashley.seward@ul.org](mailto:ashley.seward@ul.org), <https://ulse.org/>

ANSI/UL 60335-1-2025, Standard for Safety of Household and Similar Electrical Appliances, Part 1: General Requirements (national adoption of IEC 60335-1 with modifications and revision of ANSI/UL 60335-1-2016) Final Action Date: 12/11/2025 | *National Adoption*

ANSI/UL 62841-3-3-2025, Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-3: Particular requirements for transportable planers and thicknessers (identical national adoption of IEC 62841-3-3) Final Action Date: 11/20/2025 | *National Adoption*

ANSI/UL 62841-2-19-2025, Standard for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 2-19: Particular Requirements for Hand-Held Jointers (national adoption with modifications of IEC 62841-2-19) Final Action Date: 11/20/2025 | *National Adoption*

ANSI/UL 2941-2025, Standard for Cybersecurity of Distributed Energy and Inverter-Based Resources (new standard) Final Action Date: 12/10/2025 | *New Standard*

ANSI/UL 109-2025, Standard for Tube Fittings for Flammable and Combustible Fluids, Refrigeration Service, and Marine Use (revision of ANSI/UL 109-2020) Final Action Date: 12/11/2025 | *Revision*

ANSI/UL 248-9-2025, Standard for Low-Voltage Fuses - Part 9: Class K Fuses (revision of ANSI/UL 248-9-2005 (R2020)) Final Action Date: 12/10/2025 | *Revision*

ANSI/UL 1692-2025, Standard for Safety Polymeric Materials - Coil Forms (revision of ANSI/UL 1692-2019 (R2024)) Final Action Date: 12/9/2025 | *Revision*

ANSI/UL 6142-2025, Standard for Safety for Small Wind Turbine Systems (revision of ANSI/UL 6142-2024) Final Action Date: 12/11/2025 | *Revision*

ANSI/UL 62841-2-6-2025, UL Standard for Safety for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 2-6: Particular Requirements for Hand-Held Hammers (revision of ANSI/UL 62841-2-6-2024) Final Action Date: 11/20/2025 | *Revision*

# Call for Members (ANS Consensus Bodies)

Directly and materially interested parties who wish to participate as a member of an ANS consensus body for the standards listed are requested to contact the sponsoring developer directly in a timely manner.

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## ANSI Accredited Standards Developer

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## ANSI Accredited Standards Developer

### SCTE (Society of Cable Telecommunications Engineers)

SCTE, an ANSI-accredited SDO, is the primary organization for the creation and maintenance of standards for the cable telecommunications industry. SCTE's standards mission is to develop standards that meet the needs of cable system operators, content providers, network and customer premises equipment manufacturers, and all others who have an interest in the industry through a fair, balanced and transparent process.

SCTE is currently seeking to broaden the membership base of its ANS consensus bodies and is interested in new members in all membership categories to participate in new work in fiber-optic networks, advanced advertising, 3D television, and other important topics. Of particular interest is membership from the content (program and advertising) provider and user communities.

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More information is available at [www.scte.org](http://www.scte.org) or by e-mail from [standards@scte.org](mailto:standards@scte.org).

**AAMI (Association for the Advancement of Medical Instrumentation)**

901 N. Glebe Road, Suite 300, Arlington, VA 22203 | [tkim@aami.org](mailto:tkim@aami.org), [www.aami.org](http://www.aami.org)

BSR/AAMI/ADA Standard No. ST113-202x, Comprehensive guide to steam sterilization and sterility assurance in dental facilities (new standard)

**AAMI (Association for the Advancement of Medical Instrumentation)**

901 N. Glebe Road, Suite 300, Arlington, VA 22203 | [tkim@aami.org](mailto:tkim@aami.org), [www.aami.org](http://www.aami.org)

BSR/AAMI/ISO 15883-1-2024-202x, Washer-disinfectors - Part 1: General requirements, terms and definitions and tests (identical national adoption of ISO 15883-1:2024)

**AAMI (Association for the Advancement of Medical Instrumentation)**

901 N. Glebe Road, Suite 300, Arlington, VA 22203 | [tkim@aami.org](mailto:tkim@aami.org), [www.aami.org](http://www.aami.org)

BSR/AAMI/ISO 15883-2-2024-202x, Washer-disinfectors - Part 2: Requirements and tests for washer-disinfectors employing thermal disinfection for critical and semi-critical medical devices (identical national adoption of ISO 15883-2:2024)

**AAMI (Association for the Advancement of Medical Instrumentation)**

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BSR/AAMI/ISO 15883-3-2024-202x, Washer-disinfectors - Part 3: Requirements and tests for washer-disinfectors employing thermal disinfection for human waste containers (identical national adoption of ISO 15883-3:2024)

**AAMI (Association for the Advancement of Medical Instrumentation)**

901 N. Glebe Road, Suite 300, Arlington, VA 22203 | [tkim@aami.org](mailto:tkim@aami.org), [www.aami.org](http://www.aami.org)

BSR/AAMI/ISO 15883-7-2025-202x, Washer-disinfectors - Part 7: Requirements and tests for washer-disinfectors employing chemical disinfection for non-critical thermolabile medical devices and health care equipment (identical national adoption of ISO 15883-7:2025)

**ASABE (American Society of Agricultural and Biological Engineers)**

2590 Niles Road, Saint Joseph, MI 49085 | [stell@asabe.org](mailto:stell@asabe.org), <https://www.asabe.org/>

ANSI/ASABE/ISO 3463-2006 SEP2017 (R2020), Tractors for agriculture and forestry - Roll-over protective structures (ROPS) - Dynamic test method and acceptance conditions (withdrawal of ANSI/ASABE/ISO 3463-2006 SEP2017 (R2020))

**ASME (American Society of Mechanical Engineers)**

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 | [ansibox@asme.org](mailto:ansibox@asme.org), [www.asme.org](http://www.asme.org)

BSR/ASME BPVC Section IX-2025 (R202x), Welding, Brazing, and Fusing Qualifications (reaffirmation of ANSI/ASME BPVC Section IX-2025)

**ASME (American Society of Mechanical Engineers)**

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 | [ansibox@asme.org](mailto:ansibox@asme.org), [www.asme.org](http://www.asme.org)

BSR/ASME BPVC Section XIII-202x, Rules for Overpressure Protection (revision of ANSI/ASME BPVC Section XIII -2025)

**ASME (American Society of Mechanical Engineers)**

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BSR/ASME PTC 6A-2000 (R202x), Appendix A to PTC 6, The Test Code for Steam Turbines (reaffirmation of ANSI/ASME PTC 6A-2000 (R2016))

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BSR/ASME PTC 47.2-2019 (R202x), Gasification Block of an Integrated Gasification Combined Cycle Power Plant (reaffirmation of ANSI/ASME PTC 47.2-2019)

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BSR/ASME PTC 47.4-2015 (R202x), Power Block of an Integrated Gasification Combined Cycle Power Plant (reaffirmation of ANSI/ASME PTC 47.4-2015 (R2020))

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BSR/ASME PTC 52-2020 (R202x), Concentrating Solar Power Plants (reaffirmation of ANSI/ASME PTC 52-2020)

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BSR/ASME PTC 70-2009 (R202x), Ramp Rates (reaffirmation of ANSI/ASME PTC 70-2009 (R2019))

**ASSP (ASC A10) (American Society of Safety Professionals)**

520 N. Northwest Hwy., Park Ridge, IL 60068 | [LBauerschmidt@assp.org](mailto:LBauerschmidt@assp.org), [www.assp.org](http://www.assp.org)

BSR/ASSP A10.26-202X, Emergency Procedures for Construction and Demolition Sites (revision and redesignation of ANSI/ASSE A10.26-2011 (R2016))

**AWS (American Welding Society)**

8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 | [bboddiger@aws.org](mailto:bboddiger@aws.org), [www.aws.org](http://www.aws.org)

BSR/AWS B5.31-202x, Specification for the Qualification of B31 Owners Inspectors (new standard)

**ECIA (Electronic Components Industry Association)**

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BSR/EIA 364-04C-202x, Normal Force Test Procedure for Electrical Connectors (revision and redesignation of ANSI/EIA 364-04B-2015 (R2020))

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BSR/EIA 364-08D-202x, Crimp Tensile Strength Test Procedure for Electrical Connectors (revision and redesignation of ANSI/EIA 364-08C-2015 (R2020))

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BSR/EIA 364-69B-202x, Inductance Measurement Test Procedure for Electrical Connectors and Sockets (10 nH 100 nH) (revision and redesignation of ANSI/EIA 364-69A-2002 (R2020))

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BSR/EIA 364-79A-202x, Insert Bond Strength Test Procedure for Electrical Connectors (revision and redesignation of ANSI/EIA 364-79-2014 (R2020))

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BSR/EIA 364-80B-202x, Low Frequency Shielding Effectiveness Test Procedure for Electrical Connectors and Sockets (revision and redesignation of ANSI/EIA 364-80A-2020)

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BSR/EIA 364-84A-202x, Residual Magnetism Test Procedure for Electrical Connectors Used in Space Applications (revision and redesignation of ANSI/EIA 364-84-2015 (R2020))

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BSR/EIA 364-93A-202x, Repeated Wire Connection and Disconnection Test Procedure for Insulation Displacement Contacts (IDC) for Electrical Connectors (revision and redesignation of ANSI/EIA 364-93-2009 (R2020))

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BSR/EIA 364-94A-202x, Transverse Extraction Force Test Procedure for Insulation Displacement Contacts (IDC) for Electrical Connectors (revision and redesignation of ANSI/EIA 364-94-2009 (R2020))

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BSR/EIA 364-97A-202x, Housing Panel Retention Test Procedure for Electrical Connectors (revision and redesignation of ANSI/EIA 364-97-1997 (R2020))

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BSR/EIA 364-98A-202x, Housing Locking Mechanism Strength Test Procedure for Electrical Connectors (revision and redesignation of ANSI/EIA 364-98-2009 (R2020))

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BSR/EIA 364-104C-202x, Flammability Test Procedure for Electrical Connectors (revision and redesignation of ANSI/EIA 364-104B-2015 (R2020))

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BSR/EIA 364-116A-202x, Pin Contact Stability Test Procedure for Electrical Connectors (revision and redesignation of ANSI/EIA 364-116-2015 (R2020))

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BSR/EIA 364-121A-202x, Coupling Thread Strength Test Procedure for Electrical Connector Accessories (revision and redesignation of ANSI/EIA 364-121-2020)

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BSR/EIA 364-03D-2015 (R202x), Altitude Immersion Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-03D-2015 (R2020))

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BSR/EIA 364-38E-2020 (R202x), Cable Pull-Out Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-38E-2020)

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BSR/EIA 364-47A-2008 (R202x), Conductor Unwrap (Solderless Wrapped Connection) Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-47A-2008 (R2020))

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BSR/EIA 364-55B-2020 (R202x), Current Cycling Test Procedure for Electrical Contacts, Connectors and Sockets (reaffirmation of ANSI/EIA 364-55B-2020)

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BSR/EIA 364-68A-2008 (R202x), Actuating Mechanism Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-68A-2008 (R2020))

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BSR/EIA 364-75B-2020 (R202x), Lightning Strike Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-75B-2020)

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BSR/EIA 364-85-2014 (R202x), General Test Procedure for Assessing Wear and Mechanical Damage Testing of Contact Finishes for Electrical Connectors (reaffirmation of ANSI/EIA 364-85-2014 (R2020))

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BSR/EIA 364-111A-2015 (R202x), Determining the Total Ionic Contamination Test Procedure for Electrical Connectors, Socket Assemblies, or Components (reaffirmation of ANSI/EIA 364-111A-2015 (R2020))

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BSR/EIA 364-1002A-2015 (R202x), Test Methodology for Assessing the Performance of Compliant Contact Terminations Used as Free Standing Contacts or in Electrical Connectors and Sockets (reaffirmation of ANSI/EIA 364-1002A-2015 (R2020))

**EOS/ESD (ESD Association, Inc.)**

218 W. Court Street, Rome, NY 13440 | [cearl@esda.org](mailto:cearl@esda.org), <https://www.esda.org>

BSR/EOS ESD SP17.1-202x, ESD Association Standard Practice for the Protection of Electrostatic Discharge - Susceptible Items - Process Assessment Techniques (revision of ANSI/ESD SP17.1-2020)

**EOS/ESD (ESD Association, Inc.)**

218 W. Court Street, Rome, NY 13440 | [cearl@esda.org](mailto:cearl@esda.org), <https://www.esda.org>

BSR/EOS ESD STM4.1-202x, ESD Association Standard Test Method for the Protection of Electrostatic Discharge Susceptible Items - Worksurfaces - Resistance Measurements (revision of ANSI/ESD STM4.1-2018)

**ESTA (Entertainment Services and Technology Association)**

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | [standards@esta.org](mailto:standards@esta.org), [www.esta.org](http://www.esta.org)

BSR/ES1.9-202x, Crowd Management (revision of ANSI ES1.9-2020)

Interest Categories: The Event Safety Working Group seeks new voting participants in the following interest categories: Equipment providers; Event workers; Insurance companies; and Performing artists.

**HI (Hydraulic Institute)**

300 Interpace Parkway, Building A, 3rd Floor, #280, Parsippany, NJ 07054 | [achatterjee@pumps.org](mailto:achatterjee@pumps.org), [www.pumps.org](http://www.pumps.org)

BSR/HI 9.6.7-202x, Rotodynamic Pumps - Guideline for Effects of Liquid Viscosity on Performance (revision of ANSI/HI 9.6.7-2021)

**ISEA (International Safety Equipment Association)**

1101 Wilson Blvd, Suite 1425, Arlington, VA 22209 | [ajjarrell@safetyequipment.org](mailto:ajjarrell@safetyequipment.org), [www.safetyequipment.org](http://www.safetyequipment.org)

BSR/ISEA Z89.1-202x, Industrial Head Protection (revision of ANSI/ISEA Z89.1-2014 (R2019))

**ISEA (International Safety Equipment Association)**

1101 Wilson Blvd, Suite 1425, Arlington, VA 22209 | [ajjarrell@safetyequipment.org](mailto:ajjarrell@safetyequipment.org), [www.safetyequipment.org](http://www.safetyequipment.org)

BSR/ISEA Z308.1-202x, Minimum Requirements for Workplace First Aid Kits and Supplies (revision of ANSI/ISEA Z308.1-2021)

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS 284-2011 [R202x], Information Technology - Identification Cards - Health Care Identification Cards (reaffirmation of INCITS 284-2011 [R2021])

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INCITS 381-2009/AM 1:2011 [R202x], Information technology - Finger Image Based Data Interchange Format - Amendment 1 (reaffirmation of INCITS 381-2009/AM 1:2011 [R2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS 409.4-2006 [R202x], Information technology - Biometric Performance Testing and Reporting - Part 4: Operational Testing Methodologies (reaffirmation of INCITS 409.4-2006 [R2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS 409.5-2011 [R202x], Information Technology - Biometric Performance Testing and Reporting - Part 5: Framework for Testing and Evaluation of Biometric System(s) for Access Control (reaffirmation of INCITS 409.5-2011 [R2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

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INCITS 458-2011 [R202x], Information technology - SCSI Object-Based Storage Device Commands-2 (OSD-2) (reaffirmation of INCITS 458-2011 [R2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

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INCITS 459-2011 [R202x], Information Technology - Requirements for the Implementation and Interoperability of Role Based Access Control (reaffirmation of INCITS 459-2011 [R2021])

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INCITS 467-2011 [R202x], Information technology - SCSI Stream Commands - 3 (SSC-3) (reaffirmation of INCITS 467-2011 [R2021])

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INCITS 472-2011 [R202x], Information Technology Automation/Drive Interface - Transport Protocol - 2 (ADT-2) (reaffirmation of INCITS 472-2011 [R2021])

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INCITS 473-2011 [R202x], Information Technology - Conformance Testing Methodology Standard for Patron Formats Conforming to INCITS 398 2008 Information Technology - Common Biometric Exchange Formats Framework (CBEFF) (reaffirmation of INCITS 473-2011 [R2021])

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INCITS 474-2011 [R202x], Information Technology - Biometric Application Programming Interface Java (BioAPI Java) (reaffirmation of INCITS 474-2011 [R2021])

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INCITS 478-2011 [R202x], Information technology - Serial Attached SCSI - 2.1 (SAS-2.1) (reaffirmation of INCITS 478-2011 [R2021])

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INCITS 479-2011/AM 1-2016 [R202x], Information Technology - Fibre Channel - Physical Interface - 5/Amendment 1 (FC-PI-5/AM1) (reaffirmation of INCITS 479-2011/AM 1-2016 [R2021])

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INCITS 481-2011 [R202x], Information technology - Fibre Channel Protocol for SCSI - 4 (FCP-4) (reaffirmation of INCITS 481-2011 [R2021])

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INCITS 488-2016 [R202x], Information Technology - Fibre Channel - Framing and Signaling - 4 (FC-FS-4) (reaffirmation of INCITS 488-2016 [R2021])

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INCITS 501-2016 [R202x], Information technology - Security Features for SCSI Commands (SFSC) (reaffirmation of INCITS 501-2016 [R2021])

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INCITS 504-3-2016 [R202x], Information Technology - Generic Identity Command Set - Part 3: GICS Platform Testing Requirements (reaffirmation of INCITS 504-3-2016 [R2021])

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INCITS 504-1-2013/AM 1-2016 [R202x], Information technology - Generic Identity Command Set - Part 1: Card Application Command Set - Amendment 1 (reaffirmation of INCITS 504-1-2013/AM1-2016 [R2021])

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INCITS 504-2-2013/AM 1-2016 [R202x], Information Technology - Generic Identity Command Set - Part 2: Card Administrative Command Set - Amendment 1 (reaffirmation of INCITS 504-2-2013/AM 1-2016 [R2021])

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INCITS 506-2021 [R202x], Information technology - SBC-4 (SCSI Block Commands - 4) (reaffirmation of INCITS 506-2021)

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INCITS 507-2016 [R202x], Information technology - PCIe® architecture Queuing Interface - 2 (PQI-2) (reaffirmation of INCITS 507-2016 [R2021])

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INCITS 511-2016 [R202x], Information Technology - Fibre Channel - Switch Fabric - 6 (FC-SW-6) (reaffirmation of INCITS 511-2016 [R2021])

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INCITS 515-2016 [R202x], Information technology - SCSI Architecture Model - 5 (SAM-5) (reaffirmation of INCITS 515-2016 [R2021])

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INCITS 524-2016 [R202x], Information Technology - AT Attachment 8 - ATA/ATAPI Parallel Transport (ATA8-APT) (reaffirmation of INCITS 524-2016 [R2021])

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INCITS 533-2016 [R202x], Information Technology - Fibre Channel - Physical Interface - 6P (FC-PI-6P) (reaffirmation of INCITS 533-2016 [R2021])

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INCITS 536-2016 [R202x], Information technology - Zoned Block Commands (ZBC) (reaffirmation of INCITS 536-2016 [R2021])

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INCITS 537-2016 [R202x], Information technology - Zoned Device ATA Command Set (ZAC) (reaffirmation of INCITS 537-2016 [R2021])

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INCITS 539-2016 [R202x], Information Technology - Management of Security Credentials (reaffirmation of INCITS 539-2016 [R2021])

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INCITS 546-2021 [R202x], Information technology - SCSI Architecture Model - 6 (SAM-6) (reaffirmation of INCITS 546-2021)

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INCITS 558-2021 [R202x], Information technology - ATA Command Set - 5 (ACS-5) (reaffirmation of INCITS 558-2021)

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INCITS 572-2021 [R202x], Information technology - USB Attached SCSI 3 (UAS-3) (reaffirmation of INCITS 572-2021)

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INCITS/ISO 19133:2005 [R202x], Geographic Information - Location Based Services - Tracking And Navigation (reaffirm a national adoption INCITS/ISO 19133:2005 [R2021])

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INCITS/ISO 19142:2010 [R202x], Geographic Information - Web Feature Service (reaffirm a national adoption INCITS/ISO 19142:2010 [R2021])

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INCITS/ISO 19143:2010 [R202x], Geographic Information - Filter Encoding (reaffirm a national adoption INCITS/ISO 19143:2010 [R2021])

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INCITS/ISO 9542:1988/AM 1:1999 [R202x], Information processing systems - Telecommunications and information exchange between systems - End System to Intermediate System Routeing Exchange Protocol for Use in Conjunction with the Protocol for Providing the Connectionless-Mode Network Service - Amendment 1: Addition of group composition information (reaffirm a national adoption INCITS/ISO 9542:1988/AM 1:1999 [R2021])

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INCITS/ISO/IEC 7811-8:2014 [R202x], Identification cards - Recording technique - Part 8: Magnetic stripe - Coercivity of 51,7 kA/m (650 Oe) (reaffirm a national adoption INCITS/ISO/IEC 7811-8:2014 [R2021])

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INCITS/ISO/IEC 7811-9:2015 [R202x], Identification cards - Recording technique - Part 9: Tactile identifier mark (reaffirm a national adoption INCITS/ISO/IEC 7811-9:2015 [R2021])

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INCITS/ISO/IEC 7812-1:2017 [R202x], Identification Cards - Identification of Issuers - Part 1: Numbering System (reaffirm a national adoption INCITS/ISO/IEC 7812-1:2017 [2021])

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INCITS/ISO/IEC 7816-4:2020 [R202x], Identification Cards - Integrated Circuit Cards - Part 4: Organization, Security and Commands for Interchange (reaffirm a national adoption INCITS/ISO/IEC 7816-4:2020 [2021])

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INCITS/ISO/IEC 8824-1:2021 [R202x], Information technology - Abstract Syntax Notation One (ASN.1) - Part 1: Specification of basic notation (reaffirm a national adoption INCITS/ISO/IEC 8824-1:2021 [2021])

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INCITS/ISO/IEC 8824-2:2021 [R202x], Information technology - Abstract Syntax Notation One (ASN.1) - Part 2: Information object specification (reaffirm a national adoption INCITS/ISO/IEC 8824-2:2021 [2021])

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INCITS/ISO/IEC 8824-3:2021 [R202x], Information technology - Abstract Syntax Notation One (ASN.1) - Part 3: Constraint specification (reaffirm a national adoption INCITS/ISO/IEC 8824-3:2021 [2021])

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INCITS/ISO/IEC 8824-4:2021 [R202x], Information technology - Abstract Syntax Notation One (ASN.1) - Part 4: Parameterization of ASN.1 specifications (reaffirm a national adoption INCITS/ISO/IEC 8824-4:2021 [2021])

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INCITS/ISO/IEC 8825-1:2021 [R202x], Information technology - ASN.1 encoding rules - Part 1: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER) (reaffirm a national adoption INCITS/ISO/IEC 8825-1:2021 [2021])

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INCITS/ISO/IEC 8825-2:2021 [R202x], Information technology - ASN.1 encoding rules - Part 2: Specification of Packed Encoding Rules (PER) (reaffirm a national adoption INCITS/ISO/IEC 8825-2:2021 [2021])

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INCITS/ISO/IEC 8825-3:2021 [R202x], Information technology - ASN.1 encoding rules - Part 3: Specification of Encoding Control Notation (ECN) (reaffirm a national adoption INCITS/ISO/IEC 8825-3:2021 [2021])

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INCITS/ISO/IEC 8825-4:2021 [R202x], Information technology - ASN.1 encoding rules - Part 4: XML Encoding Rules (XER) (reaffirm a national adoption INCITS/ISO/IEC 8825-4:2021 [2021])

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INCITS/ISO/IEC 8825-5:2021 [R202x], Information technology - ASN.1 encoding rules - Part 5: Mapping W3C XML schema definitions into ASN.1 (reaffirm a national adoption INCITS/ISO/IEC 8825-5:2021 [2021])

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INCITS/ISO/IEC 8825-6:2021 [R202x], Information technology - ASN.1 encoding rules - Part 6: Registration and application of PER encoding instructions (reaffirm a national adoption INCITS/ISO/IEC 8825-6:2021 [2021])

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INCITS/ISO/IEC 8825-7:2021 [R202x], Information technology - ASN.1 encoding rules - Part 7: Specification of Octet Encoding Rules (OER) (reaffirm a national adoption INCITS/ISO/IEC 8825-7:2021 [2021])

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INCITS/ISO/IEC 8825-8:2021 [R202x], Information technology - ASN.1 encoding rules - Part 8: Specification of JavaScript Object Notation Encoding Rules (JER) (reaffirm a national adoption INCITS/ISO/IEC 8825-8:2021 [2021])

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INCITS/ISO/IEC 10118-2:2010 [R202x], Information technology - Security techniques - Hash-functions - Part 2: Hash-functions using an n-bit block cipher (reaffirm a national adoption INCITS/ISO/IEC 10118-2:2010 [R2021])

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INCITS/ISO/IEC 10373-2:2015 [R202x], Identification cards - Test methods - Part 2: Cards with magnetic stripes (reaffirm a national adoption INCITS/ISO/IEC 10373-2:2015 [R2021])

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INCITS/ISO/IEC 11179-5:2015 [R202x], Information technology - Metadata registries (MDR) - Part 5: Naming principles (reaffirm a national adoption INCITS/ISO/IEC 11179-5:2015 [R2021])

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INCITS/ISO/IEC 11693-2:2009 [R202x], Identification cards - Optical memory cards - Part 2: Co-existence of optical memory with other machine readable technologies (reaffirm a national adoption INCITS/ISO/IEC 11693-2:2009 [2021])

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INCITS/ISO/IEC 11693-3:2015 [R202x], Identification cards - Optical memory cards - Part 3: Authentication techniques (reaffirm a national adoption INCITS/ISO/IEC 11693-3:2015 [2021])

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INCITS/ISO/IEC 11694-3:2015 [R202x], Identification cards - Optical memory cards - Linear recording method - Part 3: Optical properties and characteristics (reaffirm a national adoption INCITS/ISO/IEC 11694-3:2015 [R2021])

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INCITS/ISO/IEC 11694-4:2008 [R202x], Identification cards - Optical memory cards - Linear recording method - Part 4: Logical data structures (reaffirm a national adoption INCITS/ISO/IEC 11694-4:2008 [R2021])

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INCITS/ISO/IEC 11694-5:2014 [R202x], Identification cards - Optical memory cards - Linear recording method - Part 5: Data format for information interchange for applications using ISO/IEC 11694-4 (reaffirm a national adoption INCITS/ISO/IEC 11694-5:2014 [R2021])

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INCITS/ISO/IEC 11694-6:2014 [R202x], Identification cards - Optical memory cards - Linear recording method - Part 6: Use of biometrics on an optical memory card (reaffirm a national adoption INCITS/ISO/IEC 11694-6:2014 [R2021])

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INCITS/ISO/IEC 11695-1:2015 [R202x], Identification cards - Optical memory cards - Holographic recording method - Part 1: Physical characteristics (reaffirm a national adoption INCITS/ISO/IEC 11695-1:2015 [R2021])

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INCITS/ISO/IEC 11695-2:2015 [R202x], Identification cards - Optical memory cards - Holographic recording method - Part 2: Dimensions and location of accessible optical area (reaffirm a national adoption INCITS/ISO/IEC 11695-2:2015 [R2021])

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INCITS/ISO/IEC 11695-3:2017 [R202x], Identification Cards - Optical Memory Cards - Holographic Recording Method - Part 3: Optical Properties and Characteristics (reaffirm a national adoption INCITS/ISO/IEC 11695-3:2017 [2021])

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INCITS/ISO/IEC 13818-4:2004/AM3:2009 [R202x], Information technology - Generic coding of moving pictures and associated audio information - Part 4: Conformance testing - Amendment 3: Level for 108050p/60p conformance testing (reaffirm a national adoption INCITS/ISO/IEC 13818-4:2004/AM 3:2009 [R2021])

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INCITS/ISO/IEC 13818-6:1998/AM1:2000 [R202x], Information technology - Generic coding of moving pictures & associated audio info - Part 6: Extensions for DSM-CC - Amendment 1: Additions to support data broadcasting (reaffirm a national adoption INCITS/ISO/IEC 13818-6:1998/AM 1:2000 [R2021])

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INCITS/ISO/IEC 14165-147:2021 [R202x], Information technology - Fibre Channel - Part 147: Physical Interfaces - 7 (FC-PI-7) (reaffirm a national adoption INCITS/ISO/IEC 14165-147:2021 [2021])

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INCITS/ISO/IEC 14443-2:2020 [R202x], Cards and security devices for personal identification - Contactless proximity objects - Part 2: Radio frequency power and signal interface (reaffirm a national adoption INCITS/ISO/IEC 14443-2:2020 [2021])

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INCITS/ISO/IEC 14443-3:2018/AM2:2020 [R202x], Cards and security devices for personal identification - Contactless proximity objects - Part 3: Initialization and anticollision - Amendment 2: Enhancements for harmonization (reaffirm a national adoption INCITS/ISO/IEC 14443-3:2018/AM2:2020 [2021])

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INCITS/ISO/IEC 14443-4:2018/AM2:2020 [R202x], Cards and security devices for personal identification - Contactless proximity objects - Part 4: Transmission protocol - Amendment 2: Enhancements for harmonization (reaffirm a national adoption INCITS/ISO/IEC 14443-4:2018/AM2:2020 [2021])

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INCITS/ISO/IEC 14443-2:2020/AM1:2021 [2021], Cards and security devices for personal identification - Contactless proximity objects - Part 2: Radio frequency power and signal interface - Amendment 1: Dynamic power level management (withdrawal of INCITS/ISO/IEC 14443-2:2020/AM1:2021 [2021])

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INCITS/ISO/IEC 14495-1:1999 [R202x], Information technology - Lossless and near-lossless compression of continuous-tone still images: Baseline (reaffirm a national adoption INCITS/ISO/IEC 14495-1:1999 [R2021])

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INCITS/ISO/IEC 14496-3:2019 [R202x], Information technology - Coding of audio-visual objects - Part 3: Audio (reaffirm a national adoption INCITS/ISO/IEC 14496-3:2019 [2021])

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INCITS/ISO/IEC 14496-4:2004 [R202x], Information technology - Coding of audio-visual objects - Part 4: Conformance testing (reaffirm a national adoption INCITS/ISO/IEC 14496-4:2004 [R2021])

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INCITS/ISO/IEC 14496-6:2000 [R202x], Information technology - Coding of audio-visual objects - Part 6: Delivery Multimedia Integration Framework (DMIF) (reaffirm a national adoption INCITS/ISO/IEC 14496-6:2000 [R2021])

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INCITS/ISO/IEC 14496-14:2020 [R202x], Information technology - Coding of audio-visual objects - Part 14: MP4 file format (reaffirm a national adoption INCITS/ISO/IEC 14496-14:2020 [2021])

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INCITS/ISO/IEC 14496-30:2018 [R202x], Information technology - Coding of audio-visual objects - Part 30: Timed text and other visual overlays in ISO base media file format (reaffirm a national adoption INCITS/ISO/IEC 14496-30:2018 [2021])

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INCITS/ISO/IEC 14496-33:2019 [R202x], Information technology - Coding of audio-visual objects - Part 33: Internet video coding (reaffirm a national adoption INCITS/ISO/IEC 14496-33:2019 [2021])

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INCITS/ISO/IEC 14496-16:2011/AM4:2017 [R202x], Information technology - Coding of audio-visual objects - Part 16: Animation Framework eXtension (AFX) - Amendment 4: Pattern-based 3D mesh coding (PB3DMC) (reaffirm a national adoption INCITS/ISO/IEC 14496-16:2011/AM4:2017 [2021])

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INCITS/ISO/IEC 14496-20:2008/AM1:2009 [R202x], Information technology - Coding of audio-visual objects - Part 20: Lightweight Application Scene Representation (LAsER) and Simple Aggregation Format (SAF) - Amendment 1: Extensions to support SVGT1.2 (reaffirm a national adoption INCITS/ISO/IEC 14496-20:2008/AM 1:2009 [R2021])

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INCITS/ISO/IEC 14496-22:2019/AM1:2020 [R202x], Information technology - Coding of audio-visual objects - Part 22: Open Font Format - Amendment 1: Color font technology and other updates (reaffirm a national adoption INCITS/ISO/IEC 14496-22:2019/AM1:2020 [2021])

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INCITS/ISO/IEC 14496-4:2004/AM30:2009 [R202x], Information technology - Coding of audio-visual objects - Part 4: Conformance testing - Amendment 30: Conformance testing for new profiles for professional applications (reaffirm a national adoption INCITS/ISO/IEC 14496-4:2004/AM 30:2009 [R2021])

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INCITS/ISO/IEC 14496-4:2004/AM31:2009 [R202x], Information technology - Coding of audio-visual objects - Part 4: Conformance testing - Amendment 31: Conformance testing for SVC profiles (reaffirm a national adoption INCITS/ISO/IEC 14496-4:2004/AM 31:2009 [R2021])

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INCITS/ISO/IEC 14496-4:2004/AM35:2009 [R202x], Information technology - Coding of audio-visual objects - Part 4: Conformance testing - Amendment 35: Simple studio profile levels 5 and 6 conformance testing (reaffirm a national adoption INCITS/ISO/IEC 14496-4:2004/AM 35:2009 [R2021])

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INCITS/ISO/IEC 14496-4:2004/AM46:2019 [R202x], Information technology - Coding of audio-visual objects - Part 4: Conformance testing - Amendment 46: Conformance testing for internet video coding (reaffirm a national adoption INCITS/ISO/IEC 14496-4:2004/AM46:2019 [2021])

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INCITS/ISO/IEC 14496-5:2001/AM14:2009 [R202x], Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 14: Open Font Format reference software (reaffirm a national adoption INCITS/ISO/IEC 14496-5:2001/AM 14:2009 [R2021])

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INCITS/ISO/IEC 14496-5:2001/AM19:2009 [R202x], Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 19: Reference software for Scalable Video Coding (reaffirm a national adoption INCITS/ISO/IEC 14496-5:2001/AM 19:2009 [R2021])

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INCITS/ISO/IEC 14496-5:2001/AM20:2009 [R202x], Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 20: MPEG-1 and -2 on MPEG-4 reference software and BSAC Extensions (reaffirm a national adoption INCITS/ISO/IEC 14496-5:2001/AM 20:2009 [R2021])

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INCITS/ISO/IEC 14496-5:2001/AM21:2009 [R202x], Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 21: Frame-based Animated Mesh Compression reference software (reaffirm a national adoption INCITS/ISO/IEC 14496-5:2001/AM 21:2009 [R2021])

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INCITS/ISO/IEC 14496-5:2001/AM24:2009 [R202x], Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 24: Reference software for AAC-ELD (reaffirm a national adoption INCITS/ISO/IEC 14496-5:2001/AM24:2009 [2021])

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INCITS/ISO/IEC 14496-5:2001/AM40:2019 [R202x], Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 40: Printing material and 3D graphics coding for browsers reference software (reaffirm a national adoption INCITS/ISO/IEC 14496-5:2001/AM40:2019 [2021])

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INCITS/ISO/IEC 14496-5:2001/AM41:2019 [R202x], Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 41: Reference software for internet video coding (reaffirm a national adoption INCITS/ISO/IEC 14496-5:2001/AM41:2019 [2021])

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INCITS/ISO/IEC 14496-5:2001/AM42:2017 [R202x], Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 42: Reference software for the alternative depth information SEI message extension of AVC (reaffirm a national adoption INCITS/ISO/IEC 14496-5:2001/AM42:2017 [2021])

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INCITS/ISO/IEC 14496-5:2001/AM43:2018 [R202x], Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 43: New levels of ALS simple profile, SBR enhancements (reaffirm a national adoption INCITS/ISO/IEC 14496-5:2001/AM43:2018 [2021])

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INCITS/ISO/IEC 14496-5:2001/AM24:2009/COR3:2017 [R202x], Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 24: Reference software for AAC-ELD - Technical Corrigendum 3 (reaffirm a national adoption INCITS/ISO/IEC 14496-5:2001/AM24:2009/COR3:2017 [2021])

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INCITS/ISO/IEC 15444-15:2019 [R202x], Information technology - JPEG 2000 image coding system - Part 15: High-Throughput JPEG 2000 (reaffirm a national adoption INCITS/ISO/IEC 15444-15:2019 [2021])

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INCITS/ISO/IEC 15457-1:2008 [R202x], Identification cards -Thin flexible cards - Part 1: Physical characteristics (reaffirm a national adoption INCITS/ISO/IEC 15457-1:2008 [R2021])

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INCITS/ISO/IEC 15457-3:2008 [R202x], Identification cards - Thin flexible cards - Part 3: Test methods (reaffirm a national adoption INCITS/ISO/IEC 15457-3:2008 [R2021])

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INCITS/ISO/IEC 15938-6:2020 [R202x], Information technology - Multimedia content description interface - Part 6: Reference software (reaffirm a national adoption INCITS/ISO/IEC 15938-6:2020 [2021])

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INCITS/ISO/IEC 15938-14:2018 [R202x], Information technology - Multimedia content description interface - Part 14: Reference software, conformance and usage guidelines for compact descriptors for visual search (reaffirm a national adoption INCITS/ISO/IEC 15938-14:2018 [2021])

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INCITS/ISO/IEC 15938-15:2019 [R202x], Information technology - Multimedia content description interface - Part 15: Compact descriptors for video analysis (reaffirm a national adoption INCITS/ISO/IEC 15938-15:2019 [2021])

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INCITS/ISO/IEC 15938-3:2002/AM3:2009 [R202x], Information technology - Multimedia content description interface - Part 3: Visual - Amendment 3: Image Signature Tools (reaffirm a national adoption INCITS/ISO/IEC 15938-3:2002/AM 3:2009 [R2021])

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INCITS/ISO/IEC 17839-1:2014 [R202x], Information technology - Biometric System-on-Card - Part 1: Core requirements (reaffirm a national adoption INCITS/ISO/IEC 17839-1:2014 [2021])

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INCITS/ISO/IEC 17839-3:2016 [R202x], Information technology - Identification cards - Biometric System-on-Card - Part 3: Logical information interchange mechanism (reaffirm a national adoption INCITS/ISO/IEC 17839-3:2016 [2021])

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INCITS/ISO/IEC 18013-2:2020 [R202x], Personal identification - ISO-compliant driving licence - Part 2: Machine-readable technologies (reaffirm a national adoption INCITS/ISO/IEC 18013-2:2020 [2021])

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INCITS/ISO/IEC 18328-1:2015 [R202x], Identification cards - ICC-managed devices - Part 1: General framework (reaffirm a national adoption INCITS/ISO/IEC 18328-1:2015 [2021])

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INCITS/ISO/IEC 18328-3:2016 [R202x], Identification cards - ICC-managed devices - Part 3: Organization, security and commands for interchange (reaffirm a national adoption INCITS/ISO/IEC 18328-3:2016 [2021])

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INCITS/ISO/IEC 18328-4:2018 [R202x], Identification cards - ICC-managed devices - Part 4: Test methods for logical characteristics (reaffirm a national adoption INCITS/ISO/IEC 18328-4:2018 [2021])

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INCITS/ISO/IEC 18477-2:2016 [R202x], Information technology - Scalable compression and coding of continuous-tone still images - Part 2: Coding of high dynamic range images (reaffirm a national adoption INCITS/ISO/IEC 18477-2:2016 [2021])

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INCITS/ISO/IEC 18477-4:2017 [R202x], Information technology - Scalable compression and coding of continuous-tone still images - Part 4: Conformance testing (reaffirm a national adoption INCITS/ISO/IEC 18477-4:2017 [2021])

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INCITS/ISO/IEC 18477-5:2018 [R202x], Information technology - Scalable compression and coding of continuous-tone still images - Part 5: Reference software (reaffirm a national adoption INCITS/ISO/IEC 18477-5:2018 [2021])

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INCITS/ISO/IEC 18477-6:2016 [R202x], Information technology - Scalable compression and coding of continuous-tone still images - Part 6: IDR Integer Coding (reaffirm a national adoption INCITS/ISO/IEC 18477-6:2016 [2021])

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INCITS/ISO/IEC 18477-7:2017 [R202x], Information technology - Scalable compression and coding of continuous-tone still images - Part 7: HDR Floating-Point Coding (reaffirm a national adoption INCITS/ISO/IEC 18477-7:2017 [2021])

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INCITS/ISO/IEC 18477-8:2020 [R202x], Information technology - Scalable compression and coding of continuous-tone still images - Part 8: Lossless and near-lossless coding (reaffirm a national adoption INCITS/ISO/IEC 18477-8:2020 [2021])

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INCITS/ISO/IEC 18477-9:2016 [R202x], Information technology - Scalable compression and coding of continuous-tone still images - Part 9: Alpha channel coding (reaffirm a national adoption INCITS/ISO/IEC 18477-9:2016 [2021])

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INCITS/ISO/IEC 18745-1:2018 [R202x], Test methods for machine readable travel documents (MRTD) and associated devices - Part 1: Physical test methods for passport books (durability) (reaffirm a national adoption INCITS/ISO/IEC 18745-1:2018 [2021])

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INCITS/ISO/IEC 19086-2:2018 [R202x], Cloud computing - Service level agreement (SLA) framework - Part 2: Metric model (reaffirm a national adoption INCITS/ISO/IEC 19086-2:2018 [2021])

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INCITS/ISO/IEC 19566-4:2020 [R202x], Information technologies - JPEG systems - Part 4: Privacy and security (reaffirm a national adoption INCITS/ISO/IEC 19566-4:2020 [2021])

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INCITS/ISO/IEC 19566-6:2019 [R202x], Information technologies - JPEG systems - Part 6: JPEG 360 (reaffirm a national adoption INCITS/ISO/IEC 19566-6:2019 [2021])

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INCITS/ISO/IEC 19763-3:2020 [R202x], Information Technology - Metamodel Framework for Interoperability (MFI) - Part 3: Metamodel for Ontology Registration (reaffirm a national adoption INCITS/ISO/IEC 19763-3:2020 [2021])

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INCITS/ISO/IEC 19775-2:2015 [R202x], Information Technology - Computer Graphics, Image Processing and Environmental Data Representation - Extensible 3D (X3D) - Part 2: Scene Access Interface (SAI) (reaffirm a national adoption INCITS/ISO/IEC 19775-2:2015 [R2021])

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INCITS/ISO/IEC 19784-4:2011 [R202x], Information technology - Biometric application programming interface - Part 4: Biometric sensor function provider interface (reaffirm a national adoption INCITS/ISO/IEC 19784-4:2011 [R2021])

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INCITS/ISO/IEC 19785-1:2020 [R202x], Information technology - Common Biometric Exchange Formats Framework - Part 1: Data element specification (reaffirm a national adoption INCITS/ISO/IEC 19785-1:2020 [2021])

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INCITS/ISO/IEC 19794-13:2018 [R202x], Information Technology - Biometric Data Interchange Formats - Part 13: Voice Data (reaffirm a national adoption INCITS/ISO/IEC 19794-13:2018 [2021])

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INCITS/ISO/IEC 19795-5:2011 [R202x], Information technology - Biometric performance testing and reporting - Part 5: Access control scenario and grading scheme (reaffirm a national adoption INCITS/ISO/IEC 19795-5:2011 [R2021])

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INCITS/ISO/IEC 19795-7:2011 [R202x], Information technology - Biometric performance testing and reporting - Part 7: Testing of on-card biometric comparison algorithms (reaffirm a national adoption INCITS/ISO/IEC 19795-7:2011 [R2021])

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INCITS/ISO/IEC 19944-1:2020 [R202x], Cloud computing and distributed platforms - Data flow, data categories and data use - Part 1: Fundamentals (reaffirm a national adoption INCITS/ISO/IEC 19944-1:2020 [2021])

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INCITS/ISO/IEC 21000-19:2010 [R202x], Information technology - Multimedia framework (MPEG-21) - Part 19: Media Value Chain Ontology (reaffirm a national adoption INCITS/ISO/IEC 21000-19:2010 [2021])

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INCITS/ISO/IEC 21000-21:2017 [R202x], Information technology - Multimedia framework (MPEG-21) - Part 21: Media contract ontology (reaffirm a national adoption INCITS/ISO/IEC 21000-21:2017 [2021])

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INCITS/ISO/IEC 21000-8:2008/AM4:2018 [R202x], Information technology - Multimedia framework (MPEG-21) - Part 8: Reference software - Amendment 4: Media value chain ontology extensions on time-segments and multi-track audio (reaffirm a national adoption INCITS/ISO/IEC 21000-8:2008/AM4:2018 [2021])

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INCITS/ISO/IEC 21122-4:2020 [2021], Information technology - JPEG XS low-latency lightweight image coding system - Part 4: Conformance testing (withdrawal of INCITS/ISO/IEC 21122-4:2020 [2021])

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INCITS/ISO/IEC 21794-1:2020 [R202x], Information technology - Plenoptic image coding system (JPEG Pleno) - Part 1: Framework (reaffirm a national adoption INCITS/ISO/IEC 21794-1:2020 [2021])

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INCITS/ISO/IEC 21823-2:2020 [R202x], Internet of things (IoT) - Interoperability for IoT systems - Part 2: Transport interoperability (reaffirm a national adoption INCITS/ISO/IEC 21823-2:2020 [2021])

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INCITS/ISO/IEC 23000-4:2009 [R202x], Information technology - Multimedia application format (MPEG-A) - Part 4: Musical slide show application format (reaffirm a national adoption INCITS/ISO/IEC 23000-4:2009 [R2021])

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INCITS/ISO/IEC 23000-6:2012 [R202x], Information technology - Multimedia application format (MPEG-A) - Part 6: Professional archival application format (reaffirm a national adoption INCITS/ISO/IEC 23000-6:2012 [2021])

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INCITS/ISO/IEC 23000-10:2012 [R202x], Information technology - Multimedia application format (MPEG-A) - Part 10: Surveillance application format (reaffirm a national adoption INCITS/ISO/IEC 23000-10:2012 [2021])

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INCITS/ISO/IEC 23000-13:2017 [R202x], Information technology - Multimedia application format (MPEG-A) - Part 13: Augmented reality application format (reaffirm a national adoption INCITS/ISO/IEC 23000-13:2017 [2021])

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INCITS/ISO/IEC 23000-15:2016 [R202x], Information technology - Multimedia application format (MPEG-A) - Part 15: Multimedia preservation application format (reaffirm a national adoption INCITS/ISO/IEC 23000-15:2016 [2021])

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INCITS/ISO/IEC 23000-16:2018 [R202x], Information technology - Multimedia application format (MPEG-A) - Part 16: Publish/Subscribe Application Format (reaffirm a national adoption INCITS/ISO/IEC 23000-16:2018 [2021])

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INCITS/ISO/IEC 23000-17:2018 [R202x], Information technology - Multimedia application format (MPEG-A) - Part 17: Multiple sensorial media application format (reaffirm a national adoption INCITS/ISO/IEC 23000-17:2018 [2021])

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INCITS/ISO/IEC 23000-18:2018 [R202x], Information technology - Multimedia application formats (MPEG-A) - Part 18: Media linking application format (reaffirm a national adoption INCITS/ISO/IEC 23000-18:2018 [2021])

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INCITS/ISO/IEC 23000-21:2019 [R202x], Information technology - Multimedia application format (MPEG-A) - Part 21: Visual identity management application format (reaffirm a national adoption INCITS/ISO/IEC 23000-21:2019 [2021])

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INCITS/ISO/IEC 23000-3:2007/AM1:2009 [R202x], Information technology - Multimedia application format (MPEG-A) - Part 3: MPEG photo player application format - Amendment 1: Reference software for photo player MAF (reaffirm a national adoption INCITS/ISO/IEC 23000-3:2007/AM 1:2009 [R2021])

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INCITS/ISO/IEC 23000-4:2009/AM1:2009 [R202x], Information technology - Multimedia application format (MPEG-A) - Part 4: Musical slide show application format - Amendment 1: Conformance and reference software for musical slide show application format (reaffirm a national adoption INCITS/ISO/IEC 23000-4:2009/AM 1:2009 [R2021])

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INCITS/ISO/IEC 23000-7:2008/AM1:2009 [R202x], Information technology - Multimedia application format (MPEG-A) - Part 7: Open access application format - Amendment 1: Conformance and reference software for open access application format (reaffirm a national adoption INCITS/ISO/IEC 23000-7:2008/AM 1:2009 [R2021])

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INCITS/ISO/IEC 23000-15:2016/AM1:2017 [R202x], Information technology - Multimedia application format (MPEG-A) - Part 15: Multimedia preservation application format - Amendment 1: Implementation guidelines for MP-AF (reaffirm a national adoption INCITS/ISO/IEC 23000-15:2016/AM1:2017 [2021])

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INCITS/ISO/IEC 23001-4:2017 [R202x], Information technology - MPEG systems technologies - Part 4: Codec configuration representation (reaffirm a national adoption INCITS/ISO/IEC 23001-4:2017 [2021])

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INCITS/ISO/IEC 23001-10:2020 [R202x], Information technology - MPEG systems technologies - Part 10: Carriage of timed metadata metrics of media in ISO base media file format (reaffirm a national adoption INCITS/ISO/IEC 23001-10:2020 [2021])

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INCITS/ISO/IEC 23001-12:2018 [R202x], Information technology - MPEG systems technologies - Part 12: Sample variants (reaffirm a national adoption INCITS/ISO/IEC 23001-12:2018 [2021])

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INCITS/ISO/IEC 23002-4:2018 [R202x], Information technology - MPEG video technologies - Part 4: Video tool library (reaffirm a national adoption INCITS/ISO/IEC 23002-4:2018 [2021])

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INCITS/ISO/IEC 23002-5:2017 [R202x], Information technology - MPEG video technologies - Part 5: Reconfigurable media coding conformance and reference software (reaffirm a national adoption INCITS/ISO/IEC 23002-5:2017 [2021])

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INCITS/ISO/IEC 23003-2:2018 [R202x], Information technology - MPEG audio technologies - Part 2: Spatial Audio Object Coding (SAOC) (reaffirm a national adoption INCITS/ISO/IEC 23003-2:2018 [2021])

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INCITS/ISO/IEC 23003-3:2020 [R202x], Information technology - MPEG audio technologies - Part 3: Unified speech and audio coding (reaffirm a national adoption INCITS/ISO/IEC 23003-3:2020 [2021])

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INCITS/ISO/IEC 23004-8:2009 [R202x], Information technology - Multimedia Middleware - Part 8: Reference software (reaffirm a national adoption INCITS/ISO/IEC 23004-8:2009 [R2021])

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INCITS/ISO/IEC 29109-10:2010 [R202x], Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 10: Hand geometry silhouette data (reaffirm a national adoption INCITS/ISO/IEC 29109-10:2010 [R2021])

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INCITS/ISO/IEC 30106-2:2020 [R202x], Information technology - Object oriented BioAPI - Part 2: Java implementation (reaffirm a national adoption INCITS/ISO/IEC 30106-2:2020 [2021])

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700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC 30106-3:2020 [R202x], Information technology - Object oriented BioAPI - Part 3: C implementation (reaffirm a national adoption INCITS/ISO/IEC 30106-3:2020 [2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC 30106-4:2019 [R202x], Information technology - Object oriented BioAPI - Part 4: C++ implementation (reaffirm a national adoption INCITS/ISO/IEC 30106-4:2019 [2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC 30106-1:2016/AM1:2019 [R202x], Information technology - Object oriented BioAPI - Part 1: Architecture - Amendment 1: Additional specifications and conformance statements (reaffirm a national adoption INCITS/ISO/IEC 30106-1:2016/AM1:2019 [2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC 30107-2:2017 [R202x], Information technology - Biometric presentation attack detection - Part 2: Data formats (reaffirm a national adoption INCITS/ISO/IEC 30107-2:2017 [2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC 30140-1:2018 [R202x], Information technology - Underwater acoustic sensor network (UWASN) - Part 1: Overview and requirements (reaffirm a national adoption INCITS/ISO/IEC 30140-1:2018 [2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC 30140-3:2018 [R202x], Information technology - Underwater acoustic sensor network (UWASN) - Part 3: Entities and interface (reaffirm a national adoption INCITS/ISO/IEC 30140-3:2018 [2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC 30140-4:2018 [R202x], Information technology - Underwater acoustic sensor network (UWASN) - Part 4: Interoperability (reaffirm a national adoption INCITS/ISO/IEC 30140-4:2018 [2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC 39794-1:2019 [R202x], Information technology - Extensible biometric data interchange formats - Part 1: Framework (reaffirm a national adoption INCITS/ISO/IEC 39794-1:2019 [2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC 39794-4:2019 [R202x], Information technology - Extensible biometric data interchange formats - Part 4: Finger image data (reaffirm a national adoption INCITS/ISO/IEC 39794-4:2019 [2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC 39794-5:2019 [R202x], Information technology - Extensible biometric data interchange formats - Part 5: Face image data (reaffirm a national adoption INCITS/ISO/IEC 39794-5:2019 [2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC 39794-6:2021 [R202x], Information technology - Extensible biometric data interchange formats - Part 6: Iris image data (reaffirm a national adoption INCITS/ISO/IEC 39794-6:2021 [2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC 4909:2006 [R202x], Identification cards - Financial transaction cards - Magnetic stripe data content for track 3 (reaffirm a national adoption INCITS/ISO/IEC 4909:2006 [R2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC 14750:1999 [R202x], Information Technology - Open Distributed Processing - Interface Definition Language (reaffirm a national adoption INCITS/ISO/IEC 14750:1999 [R2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC 14752:2000 [R202x], Information Technology - Open Distributed Processing - Protocol Support for Computational Interactions (reaffirm a national adoption INCITS/ISO/IEC 14752:2000 [R2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC 14753:1999 [R202x], Information Technology - Open Distributed Processing - Interface References and Binding (reaffirm a national adoption INCITS/ISO/IEC 14753:1999 [R2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC 14769:2001 [R202x], Information Technology - Open Distributed Processing - Type Repository Function (reaffirm a national adoption INCITS/ISO/IEC 14769:2001 [R2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC 14771:1999 [R202x], Information Technology - Open Distributed Processing - Naming Framework (reaffirm a national adoption INCITS/ISO/IEC 14771:1999 [R2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC 16485:2000 [R202x], Information technology - Mixed Raster Content (MRC) (reaffirm a national adoption INCITS/ISO/IEC 16485:2000 [R2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC 20027:2018 [R202x], Information technology - Guidelines for slap tenprint fingerprinture (reaffirm a national adoption INCITS/ISO/IEC 20027:2018 [2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC 21836:2020 [R202x], Information technology - Data centres - Server energy effectiveness metric (reaffirm a national adoption INCITS/ISO/IEC 21836:2020 [2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC 22624:2020 [R202x], Information Technology - Cloud Computing - Taxonomy Based Data Handling for Cloud Services (reaffirm a national adoption INCITS/ISO/IEC 22624:2020 [2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC 29183:2021 [R202x], Information technology - Office equipment - Method for measuring digital copying productivity for a single one-sided original (reaffirm a national adoption INCITS/ISO/IEC 29183:2021 [2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC 29197:2015 [R202x], Information technology - Evaluation methodology for environmental influence in biometric system performance (reaffirm a national adoption INCITS/ISO/IEC 29197:2015 [R2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC 30101:2014 [R202x], Information technology - Sensor networks: Sensor network and its interfaces for smart grid system (reaffirm a national adoption INCITS/ISO/IEC 30101:2014 [2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC 30128:2014 [R202x], Information technology - Sensor networks - Generic Sensor Network Application Interface (reaffirm a national adoption INCITS/ISO/IEC 30128:2014 [2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC 30136:2018 [R202x], Information technology - Performance testing of biometric template protection schemes (reaffirm a national adoption INCITS/ISO/IEC 30136:2018 [2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC 30142:2020 [R202x], Information technology - Underwater acoustic sensor network (UWASN) - Network management system overview and requirements (reaffirm a national adoption INCITS/ISO/IEC 30142:2020 [2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC 30143:2020 [R202x], Information technology - Underwater acoustic sensor network (UWASN) - Application profiles (reaffirm a national adoption INCITS/ISO/IEC 30143:2020 [2021])

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**

700 K Street NW, Suite 600, Washington, DC 20001 | [kquigley@itic.org](mailto:kquigley@itic.org), [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC 18584:2015 [2021], Information technology - Identification cards - Conformance test requirements for on-card biometric comparison applications (withdrawal of INCITS/ISO/IEC 18584:2015 [2021])

**NSF (NSF International)**

789 N. Dixboro Road, Ann Arbor, MI 48105 | [mmilla@nsf.org](mailto:mmilla@nsf.org), [www.nsf.org](http://www.nsf.org)

BSR/NSF 42-202x (i136r1), Drinking Water Treatment Units - Aesthetic Effects (revision of ANSI/NSF 42-2023)

**NSF (NSF International)**

789 N. Dixboro Road, Ann Arbor, MI 48105 | [mmilla@nsf.org](mailto:mmilla@nsf.org), [www.nsf.org](http://www.nsf.org)

BSR/NSF 53-202x (i169r1), Drinking Water Treatment Units - Health Effects (revision of ANSI/NSF 53-2024)

**NSF (NSF International)**

789 N. Dixboro Road, Ann Arbor, MI 48105 | [mmilla@nsf.org](mailto:mmilla@nsf.org), [www.nsf.org](http://www.nsf.org)

BSR/NSF 55-202x (i68r1), Ultraviolet Microbiological Water Treatment Systems (revision of ANSI/NSF 55-2024)

**NSF (NSF International)**

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | [rbrooker@nsf.org](mailto:rbrooker@nsf.org), [www.nsf.org](http://www.nsf.org)

BSR/NSF 455-1-202x (i3r1), Terminology for the NSF 455 Portfolio of Standards (revision of ANSI/NSF 455-1-2023)

**NSF (NSF International)**

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | [rbrooker@nsf.org](mailto:rbrooker@nsf.org), [www.nsf.org](http://www.nsf.org)

BSR/NSF 455-1-202x (i8r1), Terminology for the NSF 455 Portfolio of Standards (revision of ANSI/NSF 455-1-2023)

**OPEI (Outdoor Power Equipment Institute)**

1605 King Street, Alexandria, VA 22314 | [dmustico@opei.org](mailto:dmustico@opei.org), [www.opei.org](http://www.opei.org)

BSR/OPEI 8437-1-202x, Snow throwers - Safety requirements and test procedures - Part 1: Terminology and common tests (identical national adoption of ISO 8437-1, First edition 2019-07)

**OPEI (Outdoor Power Equipment Institute)**

1605 King Street, Alexandria, VA 22314 | [dmustico@opei.org](mailto:dmustico@opei.org), [www.opei.org](http://www.opei.org)

BSR/OPEI 8437-2-202x, Snow throwers - Safety requirements and test procedures - Part 2: Pedestrian-controlled snow throwers (identical national adoption of ISO 8437-2, First edition 2019-07)

**OPEI (Outdoor Power Equipment Institute)**

1605 King Street, Alexandria, VA 22314 | [dmustico@opei.org](mailto:dmustico@opei.org), [www.opei.org](http://www.opei.org)

BSR/OPEI 8437-3-202x, Snow throwers - Safety requirements and test procedures - Part 3: Ride-on snow throwers (identical national adoption of ISO 8437-3, First edition 2019-07)

**OPEI (Outdoor Power Equipment Institute)**

1605 King Street, Alexandria, VA 22314 | [dmustico@opei.org](mailto:dmustico@opei.org), [www.opei.org](http://www.opei.org)

BSR/OPEI 8437-4-202x, Snow throwers - Safety requirements and test procedures - Part 4: Additional national and regional requirements (national adoption with modifications of ISO 8437-4, First edition 2019-07)

**OPEI (Outdoor Power Equipment Institute)**

1605 King Street, Alexandria, VA 22314 | [gknott@opei.org](mailto:gknott@opei.org), [www.opei.org](http://www.opei.org)

BSR/OPEI B175.3-202x, [Standard] for Outdoor Power Equipment - Internal Combustion Engine-Powered Hand-Held Grass Trimmers and Brushcutters - Safety and Environmental Requirements (revision of ANSI/OPEI B175.3-2019)

**TIA (Telecommunications Industry Association)**

1320 North Courthouse Road, Suite 200, Arlington, VA 22201-2598 | [tjenkins@tiaonline.org](mailto:tjenkins@tiaonline.org), [www.tiaonline.org](http://www.tiaonline.org)

BSR/TIA 455-86-B-202x, FOTP-86 Optical Fiber Cable Jacket Shrinkage (revision and redesignation of ANSI/TIA 455-86-A-2014 (R2024))

**TIA (Telecommunications Industry Association)**

1320 North Courthouse Road, Suite 200, Arlington, VA 22201-2598 | [tjenkins@tiaonline.org](mailto:tjenkins@tiaonline.org), [www.tiaonline.org](http://www.tiaonline.org)

BSR/TIA 604-20-202x, FOCIS 20 Fiber Optic Connector Intermateability Standard Type AIM Connector (new standard)

# Provisional American National Standard (ANS)

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## National Fire Protection Association (NFPA)

### NFPA 800 Battery Safety Code

In accordance with Annex B, Procedures for the Development of a Provisional American National Standard (ANS) or a Provisional Amendment to an ANS, of the ANSI Essential Requirements, the National Fire Protection Association is preparing a NFPA 800, *Battery Safety Code*. The NFPA Standards Council has found that the instances of fires resulting from cells and batteries resulting in loss in life, loss of property, and personal injuries establish the need for expedited dissemination of standards. Moreover, the Council found that the urgency in addressing these serious safety concerns warranted the initiation of expedited standards development procedures.

The standard is being processed as a Provisional Standard to ensure the prompt dissemination of new safety criteria addressing topics not already addressed by the NFPA. Specifically, the standard is being developed to address the hazard identification as well as prevention, control, and suppression of fire, explosions, and related hazards of cells and batteries during: (1) handling of materials; (2) manufacturing and assembly; (3) transportation; (4) storage; (5) installation; (6) operation; (7) recycling; (8) disposal; and (9) repurposing.

The Technical Committee will meet February 23-27, 2026, with location still yet to be determined. Details of the meeting are available at [www.nfpa.org/800next](http://www.nfpa.org/800next) and will be updated as more information becomes available. To review the work which has been drafted to date and submit suggested text, go to [www.nfpa.org/800next](http://www.nfpa.org/800next) and choose "Submit Public Input Online". Submissions will be accepted through January 29, 2026.

Upon conclusion of the committee's work and issuance by the Standards Council, notice of the approval and issuance of the Provisional Standard by the NFPA Standards Council will be submitted to ANSI within 5 days of the approval and issuance of the standard by the NFPA Standards Council. Within 45 days of NFPA 800 (PS) being submitted to ANSI, the provisional standard will be entered into the complete NFPA revision process, in accordance with the *Regulations Governing the Development of NFPA Standards* and as required by ANSI.

For additional information or questions relating to the development of this provisional standard, please contact NFPA Standards Administration via email at [stds\\_admin@nfpa.org](mailto:stds_admin@nfpa.org). Interested parties should review [www.nfpa.org/800next](http://www.nfpa.org/800next) for updates on progress, including all technical committee meeting notices and the call for public review and input.

# American National Standards (ANS) Announcements

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## Rescind ANS Approval

**ASTM - ASTM International**

**ANSI/ASTM F355-2024**

At ASTM's request, the approval of ANSI/ASTM F355-2024 has been rescinded. Please direct inquiries to: Laura Klineburger [accreditation@astm.org](mailto:accreditation@astm.org)

# American National Standards (ANS) Process

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Please visit ANSI's website ([www.ansi.org](http://www.ansi.org)) for resources that will help you to understand, administer and participate in the American National Standards (ANS) process. Documents posted at these links are updated periodically as new documents and guidance are developed, whenever ANS-related procedures are revised, and routinely with respect to lists of proposed and approved ANS. The main ANS-related link is [www.ansi.org/asd](http://www.ansi.org/asd) and here are some direct links as well as highlights of information that is available:

## Where to find Procedures, Guidance, Interpretations and More...

### Please visit ANSI's website ([www.ansi.org](http://www.ansi.org))

- ANSI Essential Requirements: Due process requirements for American National Standards (always current edition):  
[www.ansi.org/essentialrequirements](http://www.ansi.org/essentialrequirements)
- ANSI Standards Action (weekly public review announcements of proposed ANS and standards developer accreditation applications, listing of recently approved ANS, and proposed revisions to ANS-related procedures):  
[www.ansi.org/standardsaction](http://www.ansi.org/standardsaction)
- Accreditation information – for potential developers of American National Standards (ANS):  
[www.ansi.org/sdoaccreditation](http://www.ansi.org/sdoaccreditation)
- ANS Procedures, ExSC Interpretations and Guidance (including a slide deck on how to participate in the ANS process and the BSR-9 form):  
[www.ansi.org/asd](http://www.ansi.org/asd)
- Lists of ANSI-Accredited Standards Developers (ASDs), Proposed ANS and Approved ANS:  
[www.ansi.org/asd](http://www.ansi.org/asd)
- American National Standards Key Steps:  
[www.ansi.org/anskeysteps](http://www.ansi.org/anskeysteps)
- American National Standards Value:  
[www.ansi.org/ansvalue](http://www.ansi.org/ansvalue)
- ANS Web Forms for ANSI-Accredited Standards Developers:  
<https://www.ansi.org/portal/psawebforms/>
- Information about standards Incorporated by Reference (IBR):  
<https://ibr.ansi.org/>
- ANSI - Education and Training:  
[www.standardstolearn.org](http://www.standardstolearn.org)

# Accreditation Announcements (Standards Developers)

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## Approval of Reaccreditation – ASD

### BEPP - Board of Executive Protection Professionals

Effective December 10, 2025

The reaccreditation of **BEPP - Board of Executive Protection Professionals** has been approved at the direction of ANSI's Executive Standards Council, under its recently revised operating procedures for documenting consensus on BEPP-sponsored American National Standards, effective **December 10, 2025**. For additional information, please contact: James Cameron, Board of Executive Protection Professionals (BEPP) | 8131 Dolce Flore Avenue, Las Vegas, NV 89178 | (714) 510-0671, [info@ep-board.org](mailto:info@ep-board.org)

## Approval of Reaccreditation – ASD

### ESTA - Entertainment Services and Technology Association

Effective December 11, 2025

The reaccreditation of **ESTA - Entertainment Services and Technology Association** has been approved at the direction of ANSI's Executive Standards Council, under its recently revised operating procedures for documenting consensus on ESTA-sponsored American National Standards, effective **December 11, 2025**. For additional information, please contact: Richard Nix, Entertainment Services and Technology Association (ESTA) | 271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | (212) 244-1505, [standards@esta.org](mailto:standards@esta.org)

## Approval of Reaccreditation – ASD

### IEEE - Institute of Electrical and Electronics Engineers

Effective December 8, 2025

The reaccreditation of **IEEE - Institute of Electrical and Electronics Engineers** has been approved at the direction of ANSI's Executive Standards Council, under its recently revised bylaws and operating procedures for documenting consensus on IEEE-sponsored American National Standards, effective **December 8, 2025**. For additional information, please contact: David Ringle, Institute of Electrical and Electronics Engineers (IEEE) | 445 Hoes Lane, Piscataway, NJ 08854-4141 | (732) 562-3806, [d.ringle@ieee.org](mailto:d.ringle@ieee.org)

## Accreditation Announcements (Standards Developers)

### Public Review of Application for ASD Accreditation

#### VCO-GSC - VCO Guidelines and Standards Commission

**Comment Deadline: 1/19/2026**

The VCO Guidelines and Standards Commission (VCO-GSC), a new ANSI organizational member in 2025, has submitted an application for accreditation as a developer of American National Standards. VCO-GSC's proposed scope of activity is:

The VCO Guidelines and Standards Commission (VCO-GSC) develops voluntary consensus standards governing vendor credentialing, vendor-access controls, competency verification, certification requirements, and accreditation requirements for supplier organizations. Vendor Credentialing Organizations (VCOs), and non-hospital personnel who access healthcare facilities.

Standards within this scope include:

- Accreditation standards for Vendor Credentialing Organizations (ISO 17065-aligned)
- Accreditation standards for suppliers' education, competency verification, and credentialing programs
- Certification standards for Healthcare Industry Representatives (HCIRs), Medical Device Representatives (MDRs), pharmaceutical representatives, couriers, biologics handlers, and other vendor personnel (ISO 17065-aligned)
- Competency standards and role/responsibility standards for non-hospital personnel entering clinical, semi-restricted, restricted and sterile areas
- Standards for surgical tray management, vendor-controlled instrument delivery, chain-of-custody, and Ready-for-Surgery requirements
- Standards for eIFU access documentation integrity, vendor-facility communication and safety protocols
- Standards supporting CMS Conditions of Participation (CoP), Joint Commission, DNV, AAMI, AORN, FDA labeling/training, and state Department of Health expectations

As the application materials are available electronically, the public review period is 30 days. You may download a copy of VCO-GSC's application and proposed operating procedures during the public review period here:

[CLICK HERE TO DOWNLOAD APPLICATION MATERIALS](#)

Please submit any comments by January 19, 2026 directly to: Peter Daigle, VCO Guidelines and Standards Commission (VCO-GSC) | 400 Chapel Road, Unit 1-L, South Windsor, CT 06074 | (860) 881-3767, [Peter@VCOstandard.com](mailto:Peter@VCOstandard.com) (please copy [jthomps@ansi.org](mailto:jthomps@ansi.org))

# American National Standards Under Continuous Maintenance

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The ANSI Essential Requirements: Due Process Requirements for American National Standards provides two options for the maintenance of American National Standards (ANS): periodic maintenance (see clause 4.7.1) and continuous maintenance (see clause 4.7.2). Continuous maintenance is defined as follows:

The standard shall be maintained by an accredited standards developer. A documented program for periodic publication of revisions shall be established by the standards developer. Processing of these revisions shall be in accordance with these procedures. The published standard shall include a clear statement of the intent to consider requests for change and information on the submittal of such requests. Procedures shall be established for timely, documented consensus action on each request for change and no portion of the standard shall be excluded from the revision process. In the event that no revisions are issued for a period of four years, action to reaffirm or withdraw the standard shall be taken in accordance with the procedures contained in the ANSI Essential Requirements. The Executive Standards Council (ExSC) has determined that for standards maintained under the Continuous Maintenance option, separate PINS announcements are not required. The following ANSI Accredited Standards Developers have formally registered standards under the Continuous Maintenance option.

AAMI (Association for the Advancement of Medical Instrumentation)  
AARST (American Association of Radon Scientists and Technologists)  
AGA (American Gas Association)  
AGSC (Auto Glass Safety Council)  
ASC X9 (Accredited Standards Committee X9, Incorporated)  
ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.)  
ASME (American Society of Mechanical Engineers)  
ASTM (ASTM International)  
GBI (Green Building Initiative)  
HL7 (Health Level Seven)  
Home Innovation (Home Innovation Research Labs)  
IES (Illuminating Engineering Society)  
ITI (InterNational Committee for Information Technology Standards)  
MHI (Material Handling Industry)  
NBBPVI (National Board of Boiler and Pressure Vessel Inspectors)  
NCPDP (National Council for Prescription Drug Programs)  
NFRC (National Fenestration Rating Council)  
NISO (National Information Standards Organization)  
NSF (NSF International)  
PHTA (Pool and Hot Tub Alliance)  
RESNET (Residential Energy Services Network, Inc.)  
SAE (SAE International)  
TCNA (Tile Council of North America)  
TIA (Telecommunications Industry Association)  
TMA (The Monitoring Association)  
ULSE (UL Standards & Engagement)

To obtain additional information with regard to these standards, including contact information at the ANSI Accredited Standards Developer, please visit ANSI Online at [www.ansi.org/asd](http://www.ansi.org/asd), select "American National Standards Maintained Under Continuous Maintenance." Questions? [psa@ansi.org](mailto:psa@ansi.org).

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The addresses listed in this section are to be used in conjunction with standards listed in PINS, Call for Comment, Call for Members and Final Actions. This section is a list of developers who have submitted standards for this issue of *Standards Action* – it is not intended to be a list of all ANSI-Accredited Standards Developers. Please send all address corrections to the PSA Department at [psa@ansi.org](mailto:psa@ansi.org).

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# ISO & IEC Draft International Standards



This section lists proposed standards that the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC) are considering for approval. The proposals have received substantial support within the technical committees or subcommittees that developed them and are now being circulated to ISO and IEC members for comment and vote.

## COMMENTS

Comments regarding ISO documents should be sent to ANSI's ISO Team ([isot@ansi.org](mailto:isot@ansi.org)); comments on ISO documents must be submitted electronically in the approved ISO template and as a Word document as other formats will not be accepted.

Those regarding IEC documents should be sent to the USNC/IEC team at ANSI's New York offices ([usnc@ansi.org](mailto:usnc@ansi.org)). The final date for offering comments is listed after each draft.

## ACCESSING ISO AND IEC DRAFTS

ISO Drafts are available for purchase via the ANSI Web Store at <https://webstore.ansi.org>. IEC Drafts can be made available by contacting ANSI's Customer Service department. Please email your request for an IEC Draft to [sales@ansi.org](mailto:sales@ansi.org). When making your request, please provide the date of the Standards Action issue in which the IEC Draft document you are requesting appears.

## ISO Standards

### Agricultural food products (TC 34)

ISO/DIS 6921, Animal and vegetable fats and oils - Classification and description - 2/28/2026, \$107.00

ISO/DIS 25163, Black garlic - Specification and test methods - 2/27/2026, \$40.00

### Corrosion of metals and alloys (TC 156)

ISO/DIS 3651-3, Determination of resistance to intergranular corrosion of stainless steels - Part 3: Corrosion test for low-Cr ferritic stainless steels - 2/27/2026, \$46.00

### Facilities management (TC 267)

ISO/DIS 41012, Facility management - Guidance on strategic sourcing and the development of agreements - 2/27/2026, \$125.00

### Fluid power systems (TC 131)

ISO/DIS 7986.2, Hydraulic fluid power - Sealing devices - Standard test methods to assess the performance of rod seals used in oil hydraulic reciprocating applications - 12/25/2025, \$88.00

### Materials, equipment and offshore structures for petroleum and natural gas industries (TC 67)

ISO/DIS 6338-4, Calculations of greenhouse gas (GHG) emissions throughout the liquefied natural gas (LNG) chain - Part 4: Shipping - 3/5/2026, \$40.00

ISO/DIS 6338-5, Calculations of greenhouse gas (GHG) emissions throughout the liquefied natural gas (LNG) chain - Part 5: Regasification - 3/5/2026, \$46.00

### Paints and varnishes (TC 35)

ISO/DIS 8504-6, Preparation of steel substrates before application of paints and related products - Surface preparation methods - Part 6: Laser cleaning - 2/26/2026, \$46.00

### Plastics (TC 61)

ISO/DIS 13071, Tensile test of fibre reinforced monolayer flat specimens - 3/1/2026, \$67.00

ISO/DIS 15270-1, Plastics - Guidelines for the recovery and recycling of plastics waste - Part 1: General principles - 3/5/2026, \$62.00

### Railway applications (TC 269)

ISO/DIS 24491, Railway applications - Passenger seats for main line rolling stock - 3/1/2026, \$82.00

### Road vehicles (TC 22)

ISO/DIS 11010-2, Passenger cars - Simulation model classification - Part 2: Perception sensor models for ADAS /AD - 2/27/2026, \$82.00

### Robots and robotic devices (TC 299)

ISO/DIS 8373, Robotics - Vocabulary - 3/1/2026, \$98.00

### Safety of machinery (TC 199)

ISO/DIS 13849-2, Safety of machinery - Safety-related parts of control systems - Part 2: Application of principles for the design and validation - 3/2/2026, \$125.00

### Small tools (TC 29)

ISO/DIS 8406, Tools for pressing and moulding - Round locating elements and spacers - 3/1/2026, \$40.00

### Steel (TC 17)

ISO/DIS 20805, Hot-rolled steel sheet in coils of higher yield strength with improved formability and heavy thickness for cold forming - 2/26/2026, \$46.00

ISO/DIS 25160, Testing method for hose reinforcement wire - 3/2/2026, \$71.00

ISO/DIS 6934-3, Steel for the prestressing of concrete - Part 3: Quenched and tempered wire - 3/5/2026, \$46.00

ISO/DIS 25408-1, Testing method for bead wire - Part 1: General requirements - 3/1/2026, \$71.00

ISO/DIS 25408-2, Testing method for bead wire - Part 2: Adhesion test - 3/5/2026, \$53.00

### Textiles (TC 38)

ISO/DIS 21084, Textiles - Method for determination of alkylphenols (AP) - 2/26/2026, \$58.00

ISO/DIS 21235, Textiles - Determination of pure cashmere content in raw cashmere - Near infrared spectrometry - 3/2/2026, \$62.00

ISO/DIS 25205-3, Textiles - Thermal shrinkage of man-made filament yarns - Part 3: Determination in dry-hot air (measurement during shrinkage) - 2/28/2026, \$46.00

### Transfusion, infusion and injection equipment for medical use (TC 76)

ISO/DIS 13926-2, Pen systems - Part 2: Plunger stoppers for cartridge-type needle-based injection systems (NIS) for medical use - 2/28/2026, \$53.00

## ISO/IEC JTC 1, Information Technology

ISO/IEC 14443-4:2018/DAMd 3.2, - Amendment 3: Cards and security devices for personal identification - Contactless proximity objects - Part 4: Transmission protocol - Amendment 3: Relay attack protection mechanisms - 12/25/2025, \$40.00

ISO/IEC DIS 26450, Information technology - Eclipse Dataspace Protocol (DSP) - 2/28/2026, \$112.00

ISO/IEC DIS 26451, Information technology - Eclipse decentralized claims protocol - 2/28/2026, \$107.00

ISO/IEC DIS 24029-3, Artificial intelligence (AI) - Assessment of the robustness of neural networks - Part 3: Methodology for the use of statistical methods - 2/26/2026, \$67.00

ISO/IEC DIS 28033-4.2, Information Security - Fully homomorphic encryption - Part 4: Mechanisms for arithmetic based on look-up table evaluation - 12/20/2025, \$119.00

## IEC Standards

### Alarm systems (TC 79)

79/738/FDIS, IEC 62820-1-1 ED2: Building intercom systems - Part 1-1: System requirements - General, 01/23/2026

79/739/CD, IEC 62820-3-1 ED2: Building intercom systems - Part 3-1: Application guidelines - General, 02/06/2026

### All-or-nothing electrical relays (TC 94)

94/1181(F)/FDIS, IEC 63522-41 ED1: Electrical relays - Tests and measurements - Part 41: Tests and measurement procedures - Insulation coordination, 01/09/2026

94/1182/FDIS, IEC 63522-52 ED1: Electrical relays - Tests and measurements - Part 52: Coil overvoltage, 01/23/2026

### Cables, wires, waveguides, r.f. connectors, and accessories for communication and signalling (TC 46)

46/1071/CDV, IEC 61935-4 ED1: Specification for the testing of balanced and coaxial information technology cabling - Part 4: Installed balanced single-pair cabling as specified in ISO/IEC 11801-1 and related standards, 03/06/2026

46C/1330/CD, IEC 62807-1 ED2: Hybrid telecommunication cables - Part 1: Generic specification, 02/06/2026

### Documentation and graphical symbols (TC 3)

3/1760/CD, IEC 81346-8 ED1: Industrial systems, installations and equipment and industrial products – Structuring principles and reference designation – Part 8: Properties, 04/03/2026

### Electric cables (TC 20)

20/2265/CDV, IEC 60287-2-4 ED1: Electric cables - Calculation of the current rating - Part 2-4: Thermal resistance - Thermal Resistance in J-Tubes Installations, 03/06/2026

### Electric welding (TC 26)

26/780/FDIS, IEC 60974-10/AMD1 ED4: Amendment 1 - Arc welding equipment - Part 10: Electromagnetic compatibility (EMC) requirements, 01/23/2026

26/781/FDIS, IEC 60974-10/AMD1 ED4: Amendment 1 - Arc welding equipment - Part 10: Electromagnetic compatibility (EMC) requirements, 01/23/2026

### Electrical equipment in medical practice (TC 62)

62A/1713/CD, IEC 60601-1/FRAG3 ED4: Medical electrical equipment - Part 1: General requirements for basic safety and essential performance - User interface hazards (Fragment 3), 03/06/2026

62A/1715/CD, IEC 60601-1/FRAG4 ED4: Medical electrical equipment - Part 1: General requirements for basic safety and essential performance - Materials hazards (Fragment 4), 03/06/2026

### Electrical installations of buildings (TC 64)

64/2811/CD, IEC 60364-5-51 ED6: Electrical installations of buildings - Part 5-51: Selection and erection of electrical equipment - Common rules, 03/27/2026

### **Electrical installations of ships and of mobile and fixed offshore units (TC 18)**

18A/514/NP, PNW 18A-514 ED1: Electrical installations in ships - Part 3XX: Bus cables, 03/06/2026

### **Evaluation and Qualification of Electrical Insulating Materials and Systems (TC 112)**

112/700/CDV, IEC 60343-1 ED1: Recommended test methods for determining the relative resistance of insulating materials to breakdown by surface discharges - Part 1: General methods, 03/06/2026

112/712/NP, PNW 112-712 ED1: Test methods for compatibility between solid and liquid materials - Part 2: Test method for compatibility of solid electrical insulation materials with functional liquids, 03/06/2026

### **Fibre optics (TC 86)**

86C/2009/CD, IEC 61290-11-1 ED3: Optical amplifiers - Test methods - Part 11-1: Polarization mode dispersion parameter - Jones matrix eigenanalysis (JME), 02/06/2026

86B/5175/FDIS, IEC 61300-2-33 ED4: Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-33: Tests - Assembly and disassembly of fibre optic mechanical splices, fibre management systems, protective housings and hardened connectors, 01/23/2026

86B/5147/CDV, IEC 61300-2-9/AMD1 ED3: Amendment 1 - Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-9: Tests - Shock, 02/06/2026

86B/5176/CD, IEC 61300-3-35/AMD1 ED3: Amendment 1 - Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-35: Examinations and measurements - Visual inspection of fibre optic connectors and fibre-stub transceivers, 02/06/2026

86B/5174/FDIS, IEC 61753-022-13 ED1: Fibre optic interconnecting devices and passive components - Performance standard - Part 022-13: Multimode fibre optic connectors terminated as pigtailed and patchcords for category OP+<sup>HD</sup>- Extended outdoor protected environment with additional heat dissipation, 01/23/2026

86C/2008/FDIS, IEC 61757 ED2: Fibre optic sensors - Generic specification, 01/23/2026

### **Fire hazard testing (TC 89)**

89/1631/CDV, IEC 60695-1-12 ED2: Fire hazard testing - Part 1-12: Guidance for assessing the fire hazard of electrotechnical products - Fire safety engineering, 03/06/2026

### **Fuel Cell Technologies (TC 105)**

105/1149/CD, IEC 62282-4-401 ED1: Fuel cell technologies - Part 4-401: Fuel cell power systems for propulsion and auxiliary power units - Maritime sector - Safety of PEMFC-Systems, 02/06/2026

### **Fuses (TC 32)**

32C/676(F)/FDIS, IEC 60127-4 ED4: Miniature fuses - Part 4: Universal modular fuse-links (UMF) - Through-hole and surface mount types, 01/02/2026

32C/677(F)/FDIS, IEC 60691/AMD2 ED5: Amendment 2 - Thermal-links - Requirements and application guide, 01/02/2026

### **Lamps and related equipment (TC 34)**

34A/2464/FDIS, IEC 62031 ED3: LED modules - Safety requirements, 01/23/2026

34/1411(F)/FDIS, IEC 63494-1 ED1: Lighting systems - Electro-mechanical interfaces - Part 1: Safety, 01/02/2026

34/1412(F)/FDIS, IEC 63494-2-1 ED1: Lighting systems - Electro-mechanical interfaces - Part 2-1: Four-pin extra-low-voltage twist-lock interface Type ZB18, 01/02/2026

34/1405/CDV, IEC 63544 ED1: Horticultural lighting - Luminaires incorporating LED sources for horticultural lighting - Performance, 03/06/2026

34/1418/CD, IEC 63562 ED1: Germicidal equipment - Low-pressure mercury UV radiation sources for germicidal purpose - Safety specifications, 03/06/2026

### **Nanotechnology standardization for electrical and electronic products and systems (TC 113)**

113/947/CD, IEC TS 62607-11-4 ED1: Nanomanufacturing - Key control characteristics - Part 11-4: Electromagnetic compatibility - Permittivity and permeability of carbon nanotube film: coaxial method, 02/06/2026

113/946/CD, IEC TS 62607-6-37 ED1: Nanomanufacturing - Key control characteristics - Part 6-37: Graphene-related products - Hall resistance, charge carriers mobility and majority: van der Pauw method., 02/06/2026

113/948/NP, PNW TS 113-948 ED1: Nanomanufacturing - Product specification - Part 5-8: Nano-enabled energy storage - Blank detail specification: secondary batteries, 03/06/2026

113/949/NP, PNW TS 113-949 ED1: Nanomanufacturing - Key control characteristics - Part 4-18: Nano-enabled energy storage - Electrochemical key control characteristics of lithium-ion batteries: Electrochemical impedance spectroscopy, 03/06/2026

#### **Nuclear instrumentation (TC 45)**

45B/1100/FDIS, IEC 61577-6 ED1: Radiation protection instrumentation - Radon and radon decay product measuring instruments - Part 6: Passive integrating radon measurement systems using solid-state nuclear track detectors, 01/23/2026

#### **Performance of household electrical appliances (TC 59)**

59N/87(F)/FDIS, IEC 60704-2-19 ED1: Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-19: Particular requirements for air cleaners, 12/26/2025

59K/429(F)/FDIS, IEC 63350 ED1: Household electric appliances - Specification of the properties of a digital system for measuring the performance, 01/02/2026

#### **Piezoelectric and dielectric devices for frequency control and selection (TC 49)**

49/1527/FDIS, IEC 63041-1 ED3: Piezoelectric sensors - Part 1: Generic specifications, 01/23/2026

#### **Power system control and associated communications (TC 57)**

57/2866/NP, PNW 57-2866 ED1: Communication networks and systems for power utility automation - Specific Communication Service Mapping (SCSM) - Mapping to Direct Message Specification (DMS), JSON Encoding Rules, and WebSockets, 03/06/2026

#### **Rotating machinery (TC 2)**

2/2286/FDIS, IEC 60413 ED2: Test procedures for determining physical properties of brush materials for electrical machines, 01/23/2026

2/2287/DTS, IEC TS 63573 ED1: Technical requirements for electrical sheet metal and strip metal used in rotating electrical machines, 02/06/2026

#### **Safety of hand-held motor-operated electric tools (TC 116)**

116/936/FDIS, IEC 62841-2-16/AMD1 ED1: Amendment 1 - Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-16: Particular requirements for hand-held fastener driving tools, 01/23/2026

#### **Safety of household and similar electrical appliances (TC 61)**

61/7539/FDIS, IEC 60335-2-105 ED3: Household and similar electrical appliances - Safety - Part 2-105: Particular requirements for multifunctional shower cabinets, 01/23/2026

61D/560/CD, IEC 60335-2-126 ED1: Household and similar electrical appliances - Safety - Part 2-126: Particular requirements for parking air-conditioner, 02/06/2026

#### **Solar photovoltaic energy systems (TC 82)**

82/2552/DTS, IEC TS 60904-1-2/AMD1 ED2: Amendment 1 - Photovoltaic devices - Part 1-2: Measurement of current-voltage characteristics of bifacial photovoltaic (PV) devices, 02/06/2026

#### **Steam turbines (TC 5)**

5/290/NP, PNW 5-290 ED1: Rules for Steam Turbine Thermal Acceptance Tests - Part 5 Steam Turbines in Combined Heat and Power (CHP) / District Heating (DH) Cycles, 03/06/2026

#### **Surge arresters (TC 37)**

37A/456/DTS, IEC TS 61643-06 ED1: Low-voltage surge protective devices - Part 06: Requirements and test methods for SPD specific disconnectors, 02/06/2026

#### **Switchgear and controlgear (TC 17)**

17C/987/CD, IEC 62271-202/AMD1 ED3: Amendment 1 - High-voltage switchgear and controlgear - Part 202: AC prefabricated substations for rated voltages above 1 kV and up to and including 52 kV, 03/06/2026

#### **Terminology (TC 1)**

1/2697/CDV, IEC 60050-395 ED2: International Electrotechnical Vocabulary (IEV) - Part 395: Nuclear instrumentation - Physical phenomena, basic concepts, instruments, systems, equipment and detectors, 03/06/2026

1/2710/VD, IEC 60050-C00102 ED0: IEC 60050-417: International Electrotechnical Vocabulary (IEV) - Part 417: Marine energy - Wave, tidal and other water current converters, 01/23/2026

1/2707/VD, IEC 60050-C00108 ED0: IEC 60050-614 International Electrotechnical Vocabulary (IEV) - Part 614: Generation, transmission and distribution of electricity - Operation, 01/23/2026

1/2708/VD, IEC 60050-C00109 ED0: IEC 60050-691 International Electrotechnical Vocabulary (IEV) - Part 691: Tariffs for electricity, 02/06/2026

1/2709/ED, IEC 60050-C00118 ED0: International Electrotechnical Vocabulary (IEV) - Part 192: Dependability - Amd.5A, 02/06/2026

#### **Tools for live working (TC 78)**

78/1539(F)/FDIS, IEC 60743/AMD1 ED3: Amendment 1 - Live working - Terminology for tools, devices and equipment, 01/02/2026

**Winding wires (TC 55)**

55/2083/NP, PNW 55-2083 ED1: Specifications for particular types of winding wires - Part 94: Polyesterimide overcoated with polyamide-imide enamelled round copper wire, class 220, 03/06/2026

**ISO/IEC JTC 1, Information Technology**

**(TC )**

JTC1-SC41/563/CD, ISO/IEC 20924 ED4: Internet of Things (IoT) and digital twin - Vocabulary, 02/06/2026



# Newly Published ISO & IEC Standards

Listed here are new and revised standards recently approved and promulgated by ISO - the International Organization for Standardization – and IEC – the International Electrotechnical Commission. Most are available at the ANSI Electronic Standards Store (ESS) at [www.ansi.org](http://www.ansi.org). All paper copies are available from Standards resellers (<http://webstore.ansi.org/faq.aspx#resellers>).

## ISO Standards

### Acoustics (TC 43)

[ISO 3744:2025](#), Acoustics - Determination of sound power levels of noise sources using sound pressure - Engineering methods for an essentially free field over a reflecting plane, \$259.00

### Biotechnology (TC 276)

[ISO 20309:2025](#), Biotechnology - Biobanking - Requirements for deep-sea biological material, \$84.00

### Building construction (TC 59)

[ISO 29481-2:2025](#), Building information models - Information delivery manual - Part 2: Interaction framework, \$287.00

### Cleaning equipment for air and other gases (TC 142)

[ISO 16313-1:2025](#), Laboratory test of dust collection systems utilizing filter media with automatic online cleaning - Part 1: System utilizing integrated fans, \$201.00

### Ergonomics (TC 159)

[ISO 9241-161:2025](#), Ergonomics of human-system interaction - Part 161: Visual user-interface elements, \$259.00

### Essential oils (TC 54)

[ISO 24609:2025](#), Essential oil of carrot seed (*Daucus carota* L.), \$56.00

### Fine Bubble Technology (TC 281)

[ISO 24758-1:2025](#), Fine bubble technology - Evaluation method for determining the reactive oxygen species in ultrafine bubble dispersions - Part 1: Probe based kinetic model, \$201.00

### Health Informatics (TC 215)

[IEC 81001-5-1:2025](#), FREE

### Mechanical testing of metals (TC 164)

[ISO 26203-1:2025](#), Metallic materials - Tensile testing at high strain rates - Part 1: Elastic-bar-type systems, \$201.00

### Mechanical vibration and shock (TC 108)

[ISO 5349-3:2025](#), Mechanical vibration - Measurement and evaluation of human exposure to hand-transmitted vibration - Part 3: Isolated and repeated shocks using the frequency range of ISO 5349-1, \$172.00

### Natural gas (TC 193)

[ISO 17507-1:2025](#), Natural gas - Calculation of methane number of gaseous fuels for reciprocating internal combustion engines - Part 1: MNC method, \$230.00

[ISO 17507-2:2025](#), Natural gas - Calculation of methane number of gaseous fuels for reciprocating internal combustion engines - Part 2: PKI method, \$172.00

### Nuclear energy (TC 85)

[ISO 18990:2025](#), Measurement of radioactivity in urine-<sup>238</sup>Pu, <sup>239</sup>Pu and <sup>240</sup>Pu - Test method using alpha spectrometry or ICP-MS, \$230.00

[ISO 11929-1:2025](#), Determination of the characteristic limits (decision threshold, detection limit and limits of the coverage interval) for measurements of ionizing radiation - Fundamentals and application - Part 1: Elementary applications, \$230.00

[ISO 11929-2:2025](#), Determination of the characteristic limits (decision threshold, detection limit and limits of the coverage interval) for measurements of ionizing radiation - Fundamentals and application - Part 2: Advanced applications, \$230.00

[ISO 11929-3:2025](#), Determination of the characteristic limits (decision threshold, detection limit and limits of the coverage interval) for measurements of ionizing radiation - Fundamentals and application - Part 3: Applications to unfolding methods, \$230.00

[ISO 18589-7:2025](#), Measurement of radioactivity in the environment - Soil - Part 7: In situ measurement of gamma-emitting radionuclides, \$259.00

### Petroleum products and lubricants (TC 28)

[ISO 16675:2025](#), Petroleum and related products - Determination of anti-aging for phosphate ester turbine control fluids, \$56.00

### Plain bearings (TC 123)

[ISO 7148-1:2025](#), Plain bearings - Testing of the tribological behaviour of bearing materials - Part 1: Testing of bearing metals, \$127.00

### Road vehicles (TC 22)

[ISO 18243:2025](#), Electrically propelled mopeds and motorcycles - Test specifications and safety requirements for lithium-ion battery systems, \$230.00

[ISO 19723-1:2025](#), Road vehicles - Liquefied natural gas (LNG) fuel systems - Part 1: Safety requirements, \$127.00

[ISO 19723-2:2025](#), Road vehicles - Liquefied natural gas (LNG) fuel systems - Part 2: Test methods, \$84.00

### **Sieves, sieving and other sizing methods (TC 24)**

[ISO 21501-1:2025](#), Determination of particle size distribution - Single particle light interaction methods - Part 1: Light scattering aerosol spectrometer, \$230.00

### **Steel (TC 17)**

[ISO 21224:2025](#), Evaluation of centreline segregation of continuously cast slabs, \$172.00

### **Steel and aluminium structures (TC 167)**

[ISO 18953:2025](#), Steel structures - Structural bolting - Test methods to determine loss of pretension from faying surface coatings, \$84.00

### **(TC 335)**

[ISO 21800:2025](#), Guidance for organizations to increase consumer understanding of online terms and conditions, \$84.00

### **Technical systems and aids for disabled or handicapped persons (TC 173)**

[IEC 80601-2-89:2025](#), \$500.00

### **Terminology (principles and coordination) (TC 37)**

[ISO 16642:2025](#), Management of terminology resources - Terminological markup framework, \$127.00

### **Textiles (TC 38)**

[ISO 13144:2025](#), Textiles - Determination of quinoline, isoquinoline and certain derivatives, \$127.00

[ISO 21023:2025](#), Textiles - Determination of surface chemical properties of carbon fibres using X-ray photoelectron spectroscopy, \$84.00

## **ISO Technical Reports**

### **Concrete, reinforced concrete and pre-stressed concrete (TC 71)**

[ISO/TR 25439:2025](#), Design examples of concrete-filled steel tubular (CFST) hybrid structures in accordance with ISO 16521, \$259.00

### **Health Informatics (TC 215)**

[ISO/TR 14872:2025](#), Health informatics - Identification of medicinal products - Core principles for maintenance of identifiers and terms, \$127.00

[ISO/TR 18728:2025](#), Health informatics - Global medicinal product and ingredient and batch registration as part of identification of medicinal products (IDMP), \$127.00

## **ISO Technical Specifications**

### **Agricultural food products (TC 34)**

[ISO/TS 11059:2025](#), Milk and milk products - Method for the enumeration of *Pseudomonas* spp., \$127.00

## **ISO/IEC JTC 1, Information Technology**

[ISO/IEC 4932:2025](#), Information Technology - Learning, education and training - Access for All (AfA) metadata for accessibility core properties, \$201.00

[ISO/IEC 27566-1:2025](#), Information security, cybersecurity and privacy protection - Age assurance systems - Part 1: Framework, \$201.00

[ISO/IEC 29192-1:2012/Amd 1:2025](#), - Amendment 1: Information technology - Security techniques - Lightweight cryptography - Part 1: General - Amendment 1, \$23.00

[ISO/IEC 19583-27:2025](#), Information technology - Concepts and usage of metadata - Part 27: Mapping between metamodel for computable data registration and bioinformatics analyses by high-throughput sequencing (HTS), \$230.00

[ISO/IEC TS 29196:2025](#), Information technology - Guidance for biometric enrolment, \$230.00

## **IEC Standards**

### **All-or-nothing electrical relays (TC 94)**

[IEC 63522-4 Ed. 1.0 b:2025](#), Electrical relays - Tests and measurements - Part 4: Dielectric strength test, \$52.00

[IEC 63522-4 Ed. 1.0 en:2025](#), Electrical relays - Tests and measurements - Part 4: Dielectric strength test, \$52.00

### **Fibre optics (TC 86)**

[IEC 61757-1-4 Ed. 1.0 en:2025](#), Fibre optic sensors - Part 1-4: Strain measurement - Distributed sensing based on Rayleigh scattering, \$258.00

[IEC 61757-1-4 Ed. 1.0 b:2025](#), Fibre optic sensors - Part 1-4: Strain measurement - Distributed sensing based on Rayleigh scattering, \$258.00

### **Industrial-process measurement and control (TC 65)**

[IEC 62541-4 Ed. 4.0 b:2025](#), OPC unified architecture - Part 4: Services, \$580.00

[IEC 62541-4 Ed. 4.0 en:2025](#), OPC unified architecture - Part 4: Services, \$580.00

[IEC 62541-7 Ed. 4.0 b:2025](#), OPC Unified Architecture - Part 7: Profiles, \$580.00

[IEC 62541-7 Ed. 4.0 en:2025](#), OPC Unified Architecture - Part 7: Profiles, \$580.00

[IEC 62541-10 Ed. 4.0 b:2025](#), OPC Unified Architecture - Part 10: Programs, \$361.00

[IEC 62541-10 Ed. 4.0 en:2025](#), OPC Unified Architecture - Part 10: Programs, \$361.00

[IEC 62541-13 Ed. 3.0 en:2025](#), OPC Unified Architecture - Part 13: Aggregates, \$470.00

[IEC 62541-13 Ed. 3.0 b:2025](#), OPC Unified Architecture - Part 13: Aggregates, \$470.00

[IEC 62541-100 Ed. 2.0 b:2025](#), OPC unified architecture - Part 100: Devices, \$580.00

[IEC 62541-100 Ed. 2.0 en:2025](#), OPC unified architecture - Part 100: Devices, \$580.00

[S+ IEC 62541-4 Ed. 4.0 en:2025 \(Redline version\)](#), OPC unified architecture - Part 4: Services, \$985.00

[S+ IEC 62541-10 Ed. 4.0 en:2025 \(Redline version\)](#), OPC Unified Architecture - Part 10: Programs, \$613.00

[S+ IEC 62541-13 Ed. 3.0 en:2025 \(Redline version\)](#), OPC Unified Architecture - Part 13: Aggregates, \$800.00

## **IEC Technical Reports**

### **Cables, wires, waveguides, r.f. connectors, and accessories for communication and signalling (TC 46)**

[IEC/TR 61169-1-8 Ed. 1.0 en:2025](#), Radio-frequency connectors - Part 1-8: Electrical test methods - Voltage standing wave ratio for a single connector by double connector method, \$148.00

## **IEC Technical Specifications**

### **Insulators (TC 36)**

[IEC/TS 63414 Ed. 1.0 en:2025](#), Artificial pollution tests on high-voltage polymeric insulators to be used on AC and DC systems, \$322.00

### **Nanotechnology standardization for electrical and electronic products and systems (TC 113)**

[IEC/TS 62876-3-4 Ed. 1.0 en:2025](#), Nanomanufacturing - Reliability assessment - Part 3-4: Linearity of output characteristics for metal contacted 2D semiconductor devices, \$200.00

[IEC/TS 62607-6-27 Ed. 1.0 en:2025](#), Nanomanufacturing - Key control characteristics - Part 6-27: Graphene-related products - Field-effect mobility for layers of two-dimensional materials: field-effect transistor method, \$148.00

# International Organization for Standardization (ISO)

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## Establishment of ISO Technical Committee

### U.S. TAG to ISO TC 353, Safety, security and good production practices of cannabis facilities and operations

**Comment Deadline: October 17, 2025**

UL Standards & Engagement has been appointed by the American National Standards Institute (ANSI) as an administrator to an International Organization for Standardization (ISO) Technical Committee (TC), ISO/TC 353, *Safety, security and good production practices of cannabis facilities and operations*.

As the ANSI U.S. TAG administrator, UL Standards & Engagement is responsible for transmitting the official U.S. position to proposals within activities under the responsibility of ISO/TC 353, as well as for bringing to the ISO any new work items that would support the broad efforts in the U.S. in this area of standardization.

To ensure that all interested parties have an opportunity to contribute to the development of the U.S. position on key issues that are considered by ISO/TC 353, UL Standards & Engagement is now soliciting U.S. stakeholders to participate in the ANSI U.S. TAG. Participation in the ANSI U.S. TAG is open to all U.S. national interested parties who are directly and materially affected by all of the TAG's activity. Individuals who are interested in becoming a member of the ANSI U.S. TAG for ISO/TC 353 are invited to contact Grace Callahan, Secretary of the TAG, at [grace.callahan@ul.org](mailto:grace.callahan@ul.org).

#### Scope:

Standardization in the field of safety, security and quality systems of cannabis facilities and operations in jurisdictions where such facilities and operations are legal, covering the supply chain from cultivation, processing, production, packaging, distribution, transportation and retail stores for cannabis and cannabis products.

Standardization includes but not limited to terminology; methods of tests; cannabis equipment and their operation; waste disposal; air quality; good production practices; good manufacturing practices; security of facilities and operations; and related quality management systems.

#### Excluded:

- fire protection of buildings and facilities (covered by ISO/TC 21)
- methods of analysis of food products and traceability (covered by ISO/TC 34)
- fire safety of buildings and materials (covered by ISO/TC 92)
- quality management systems (covered by ISO/TC 176)
- environmental management systems and monitoring (covered by ISO/TC 207)
- cosmetics - good manufacturing practices (GMP) (covered by ISO/TC 217)
- occupational health and safety management systems (covered by ISO/TC 283)
- alarm and electronic security systems (covered by IEC/TC 79)

## International Organization for Standardization (ISO)

### New Secretariats

#### ISO/TC 20/SC 16 – Uncrewed aircraft system

**Comment Deadline: December 19, 2025**

ANSI has received a request to delegate the responsibilities of the administration of the ISO/TC 20/SC 16 – *Uncrewed aircraft system* secretariat to the American Institute of Aeronautics and Astronautics (AIAA). The secretariat was previously held by the Aerospace Industries Association (AIA) and the secretariat transfer is supported by the U.S. TAG.

ISO/TC 20/SC 16 operates under the following scope:

*Standardization in the field of advanced air mobility and uncrewed aircraft systems (UAS), including but not limited to classification, design, manufacture, operation (including maintenance), and safety management.*

Organizations wishing to comment on the delegation of the responsibilities should contact ANSI's ISO Team ([isot@ansi.org](mailto:isot@ansi.org)).

# Registration of Organization Names in the United States

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The Procedures for Registration of Organization Names in the United States of America (document ISSB 989) require that alphanumeric organization names be subject to a 90-day Public Review period prior to registration. For further information, please contact the Registration Coordinator at (212) 642-4975.

When organization names are submitted to ANSI for registration, they will be listed here alphanumerically.

Alphanumeric names appearing for the first time are printed in bold type. Names with confidential contact information, as requested by the organization, list only public review dates.

## Public Review

NOTE: Challenged alphanumeric names are underlined. The Procedures for Registration provide for a challenge process, which follows in brief. For complete details, see Section 6.4 of the Procedures.

A challenge is initiated when a letter from an interested entity is received by the Registration Coordinator. The letter shall identify the alphanumeric organization name being challenged and state the rationale supporting the challenge. A challenge fee shall accompany the letter. After receipt of the challenge, the alphanumeric organization name shall be marked as challenged in the Public Review list. The Registration Coordinator shall take no further action to register the challenged name until the challenge is resolved among the disputing parties.

# Proposed Foreign Government Regulations

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## Call for Comment

U.S. manufacturers, exporters, trade associations, U.S. domiciled standards development organizations and conformity assessment bodies, consumers, or U.S. government agencies may be interested in proposed foreign technical regulations notified by Member countries of the World Trade Organization (WTO). In accordance with the WTO Agreement on Technical Barriers to Trade (TBT Agreement), Members are required to notify to the WTO Secretariat in Geneva, Switzerland proposed technical regulations that may significantly affect trade. In turn, the Secretariat circulates the notifications along with the full texts. The purpose of the notification requirement is to provide global trading partners with an opportunity to review and comment on the regulations before they become final. The USA Enquiry Point for the WTO TBT Agreement is located at the National Institute of Standards and Technology (NIST) in the Standards Coordination Office (SCO). The Enquiry Point relies on the WTO's ePing SPS&TBT platform to distribute the notified proposed foreign technical regulations (notifications) and their full texts available to U.S. stakeholders. Interested U.S. parties can register with ePing to receive e-mail alerts when notifications are added from countries and industry sectors of interest to them. The USA WTO TBT Enquiry Point is the official channel for distributing U.S. comments to the network of WTO TBT Enquiry Points around the world. U.S. business contacts interested in commenting on the notifications are asked to review the comment guidance prior to submitting comments. For non-notified foreign technical barriers to trade for non-agricultural products, stakeholders are encouraged to reach out as early as possible to the Office of Trade Agreements Negotiations and Compliance (TANC) in the International Trade Administration (ITA) at the Department of Commerce (DOC), which specializes in working with U.S. stakeholders to remove unfair foreign government-imposed trade barriers. The U.S. Department of Agriculture's Foreign Agricultural Service actively represents the interests of U.S. agriculture in the WTO committees on Agriculture, Sanitary and Phytosanitary (SPS) measures and Technical Barriers to Trade (TBT). FAS alerts exporters to expected changes in foreign regulations concerning food and beverage and nutrition labeling requirements, food packaging requirements, and various other agriculture and food related trade matters. Working with other Federal agencies and the private sector, FAS coordinates the development and finalization of comments on measures proposed by foreign governments to influence their development and minimize the impact on U.S. agriculture exports. FAS also contributes to the negotiation and enforcement of free trade agreements and provides information about tracking regulatory changes by WTO Members. The Office of the United States Trade Representative (USTR) WTO & Multilateral Affairs (WAMA) office has responsibility for trade discussions and negotiations, as well as policy coordination, on issues related technical barriers to trade and standards-related activities.

### Online Resources:

WTO's ePing SPS&TBT platform: <https://epingalert.org/>

Register for ePing: <https://epingalert.org/en/Account/Registration>

WTO committee on Agriculture, Sanitary and Phytosanitary (SPS) measures:

[https://www.wto.org/english/tratop\\_e/sps\\_e/sps\\_e.htm](https://www.wto.org/english/tratop_e/sps_e/sps_e.htm)

WTO Committee on Technical Barriers to Trade (TBT): [https://www.wto.org/english/tratop\\_e/tbt\\_e/tbt\\_e.htm](https://www.wto.org/english/tratop_e/tbt_e/tbt_e.htm)

USA TBT Enquiry Point: <https://www.nist.gov/standardsgov/usa-wto-tbt-enquiry-point>

Comment guidance:

<https://www.nist.gov/standardsgov/guidance-us-stakeholders-commenting-notifications-made-wto-members-tbt-committee>

NIST: <https://www.nist.gov/>

TANC: <https://www.trade.gov/office-trade-agreements-negotiation-and-compliance-tanc>

Examples of TBTs: [https://tcc.export.gov/report\\_a\\_barrier/trade\\_barrier\\_examples/index.asp](https://tcc.export.gov/report_a_barrier/trade_barrier_examples/index.asp).

Report Trade Barriers: [https://tcc.export.gov/Report\\_a\\_Barrier/index.asp](https://tcc.export.gov/Report_a_Barrier/index.asp).

USDA FAS: <https://www.fas.usda.gov/about-fas>

FAS contribution to free trade agreements: <https://www.fas.usda.gov/topics/trade-policy/trade-agreements>

Tracking regulatory changes: <https://www.fas.usda.gov/tracking-regulatory-changes-wto-members>

USTR WAMA: <https://ustr.gov/trade-agreements/wto-multilateral-affairs/wto-issues/technical-barriers-trade>

Contact the USA TBT Enquiry Point at (301) 975-2918; E [usatbtep@nist.gov](mailto:usatbtep@nist.gov) or [notifyus@nist.gov](mailto:notifyus@nist.gov).



**BSR/ASHRAE Addendum i  
to ANSI/ASHRAE Standard 15-2024**

**Second Public Review Draft**

**Proposed Addendum i to  
Standard 15-2024, Safety Standard  
for Refrigeration Systems**

**Second Public Review (October 2025)  
(Draft shows Proposed Independent Substantive  
Changes to Previous Public Review Draft)**

This draft has been recommended for public review by the responsible project committee. To submit a comment on this proposed standard, go to the ASHRAE website at [www.ashrae.org/standards-research--technology/public-review-drafts](http://www.ashrae.org/standards-research--technology/public-review-drafts) and access the online comment database. The draft is subject to modification until it is approved for publication by the Board of Directors and ANSI. Until this time, the current edition of the standard (as modified by any published addenda on the ASHRAE website) remains in effect. The current edition of any standard may be purchased from the ASHRAE Online Store at [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore) or by calling 404-636-8400 or 1-800-727-4723 (for orders in the U.S. or Canada).

This standard is under continuous maintenance. To propose a change to the current standard, use the change submittal form available on the ASHRAE website, [www.ashrae.org](http://www.ashrae.org).

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ASHRAE, 180 Technology Parkway NW, Peachtree Corners, GA 30092

**(This foreword is not part of this standard. It is merely informative and does not contain requirements necessary for conformance to the standard. It has not been processed according to the ANSI requirements for a standard and may contain material that has not been subject to public review or a consensus process. Unresolved objectors on informative material are not offered the right to appeal at ASHRAE or ANSI.)**

## FOREWORD

*This second public review ISC updates language in section 5.2.2 to show the mark up based on the 2024 edition and reorder the examples of low probability systems. In addition, it clarifies that the secondary coolant pressure requirement applies to indirect and double indirect open spray systems.*

*This proposed addendum clarifies that the italicized terms in Section 4 and 5 are also defined terms and should be considered as such. A definition of “integral”, taken from ASHRAE 15.2, is also added. In response to CMP 15-2024-0005-001, NRTL is added to the list of acronyms used in the standard. Additionally, this proposed addendum also brings clarity to the refrigerating system classification in Section 5 by clarifying double indirect systems as double indirect open spray systems and adding indirect vented closed systems to the list of low-probability systems.*

**Note to Reviewers:** This public review makes proposed independent substantive changes to the previous public review draft. These substantive changes to the previous public review draft are indicated by underlining (for additions) ~~strike through~~ (for deletions), except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the previous public review are open for review and comment at this time. Additional material is provided for context only and is not open for comment, except as related to the proposed substantive changes.

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### Addendum i to Standard 15-2024

***Modify Section 5.2.2 as follows. The remainder of Section 5.2.2 remains unchanged.***

#### 5.2.2 Low Probability system

A *low-probability system* is any refrigeration system in which the basic design or the location of components is such that leakage of *refrigerant* from a failed connection, seal, or component cannot enter the *occupied space*. Typical *low-probability systems* are (a) *indirect closed systems* ~~or (b) double indirect open spray systems and (c) indirect open spray systems and (b) indirect vented closed systems, or (c) indirect open spray systems and (d) double indirect open spray systems~~ if the following condition is met: In a low-probability ~~*indirect open spray system* or a *double indirect open spray system*~~, the *secondary coolant* pressure shall remain greater than *refrigerant* pressure in all conditions of operation and standby. Operation conditions are defined in Section 9.2.1, and standby conditions are defined in Section 9.2.1.2.

[ ... ]



**BSR/ASHRAE Addendum m  
to ANSI/ASHRAE Standard 15-2024**

**First Public Review Draft**

# **Proposed Addendum m to Standard 15-2024, Safety Standard for Refrigeration Systems**

**First Public Review (October 2025)  
(Draft shows Proposed Changes to Current Standard)**

This draft has been recommended for public review by the responsible project committee. To submit a comment on this proposed standard, go to the ASHRAE website at <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts> and access the online comment database. The draft is subject to modification until it is approved for publication by the Board of Directors and ANSI. Until this time, the current edition of the standard (as modified by any published addenda on the ASHRAE website) remains in effect. The current edition of any standard may be purchased from the ASHRAE Online Store at [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore) or by calling 404-636-8400 or 1-800-727-4723 (for orders in the U.S. or Canada).

This standard is under continuous maintenance. To propose a change to the current standard, use the change submittal form available on the ASHRAE website, [www.ashrae.org](http://www.ashrae.org).

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**(This foreword is not part of this standard. It is merely informative and does not contain requirements necessary for conformance to the standard. It has not been processed according to the ANSI requirements for a standard and may contain material that has not been subject to public review or a consensus process. Unresolved objectors on informative material are not offered the right to appeal at ASHRAE or ANSI.)**

## FOREWORD

*This proposed addendum addresses the use of the terms “pipe”, “piping”, “tube”, and “tubing” by cleaning up the use of each. The most common occurrence is changing “pipe” to “piping” or “pipe” to “pipe or tube”. These are important changes because when using the term piping, it includes many additional components like valves, fittings, etc. If we intend the requirements to apply only to the pipe itself, we need to use the term “pipe or tube”. If we want to the requirements to apply to all components connected to the pipes (including the pipe or tube), we need to use the term “piping”. Additionally this addendum cleans up the language in section 8 related to wall penetrations for piping.*

**Note:** This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~striketrough~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the current standard are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed changes.

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## Addendum m to Standard 15-2024

***Modify Section 3 as follows. The remainder of Section 3 remains unchanged.***

### 3. DEFINITIONS

[ ... ]

***liquid receiver:*** a vessel, permanently connected to a *refrigeration system* by inlet and outlet ~~pipes~~ piping, for storage of liquid *refrigerant*.

***piping:*** the pipe or tube used to convey fluid from one part of a *refrigeration system* to another. *Piping* includes pipe, tube, flanges, bolting, gaskets, valves, fittings, pipe-supporting fixtures, structural attachments, and the pressure-containing parts of other components, such as expansion joints, strainers, filters, and devices that serve such purposes as mixing, separating, muffling, snubbing, distributing, metering, or controlling flow.

[ ... ]

***Modify Section 8 as follows. The remainder of Section 8 remains unchanged.***

### 8. INSTALLATION RESTRICTIONS

[ ... ]

#### 8.10 Machinery Room, Special Requirements.

[ ... ]

- e. All ~~pipes piercing~~ penetrations through the interior walls, ceiling, or floor of such rooms *shall* be tightly sealed ~~to the walls, ceiling, or floor through which they pass.~~

[ ... ]

**8.11.5** All ~~pipes piercing~~ penetrations through the interior walls, ceiling, or floor of such rooms *shall* be tightly sealed ~~to the walls, ceiling, or floor through which they pass.~~

[ ... ]

***Modify Section 9 as follows. The remainder of Section 9 remains unchanged.***

## DESIGN AND CONSTRUCTION OF REFRIGERATION EQUIPMENT AND SYSTEMS

[ ... ]

**9.4.7** When relief valves are connected to discharge to a common discharge header, as described in Section 9.7.9.3, a full-area stop valve is not prohibited from being installed in the discharge pipe or tube between the relief valve and the common header. When such a stop valve is installed, a locking device shall be installed to ensure that the stop valve is locked in the open position. This discharge stop valve shall not be shut unless one of the following conditions exists:

[ ... ]

**9.7.6** The rated discharge capacity of a *pressure relief device* expressed in lb of air/min (kg of air/s) *shall* be determined in accordance with *ASME Boiler and Pressure Vessel Code*, 15 Section XIII. All ~~pipe and fittings~~ pipng between the *pressure relief valve* and the parts of the *refrigeration system* it protects *shall* have at least the area of the *pressure relief valve* inlet area.

[ ... ]

### **9.7.8.2 Discharging Location Exterior to Building.**

[ ... ]

- f. Relief vent lines that terminate vertically upward and are subject to moisture entry *shall* be provided with a drip pocket having a minimum of 24 in. (0.6 m) in length and having the size of the vent discharge pipe or tube. The drip pocket *shall* be installed to extend below the first change in vent pipe or tube direction and *shall* be fitted with a valve or drain plug to permit removal of accumulated moisture.

[ ... ]

**9.7.9.1 Discharge ~~Piping~~ Pipe, General.** ~~Piping~~ Pipes, tubes, or fittings connected to the discharge side of a *fusible plug* or *rupture member* *shall* have provisions to prevent plugging of the pipes, tubes, or fittings upon operation of a *fusible plug* or *rupture member*.

[ ... ]

**9.7.9.2** The size of the discharge pipe, tube, or fittings from a *pressure relief device* or *fusible plug* shall not be less than the outlet size of the *pressure relief device* or *fusible plug*.

[ ... ]

**9.7.9.3.3** When outlets of two or more relief devices or *fusible plugs*, which are expected to operate simultaneously, connect to a common discharge pipe or tube, the common pipe or tube shall be sized large enough to prevent the *back pressure* at each *pressure relief device* from exceeding the maximum allowable *back pressure* in accordance with Section 9.7.9.3.2.

[ ... ]

## **9.10 Refrigerant ~~Piping, Valves, Fittings, and Related Parts~~**

**9.10.1 General.** ~~Refrigerant piping, valves, fittings, and related parts~~ shall conform to the requirements of Sections 9.10 through 9.13.

**9.10.1.1** ~~Refrigerant piping, valves, fittings, and related parts~~ having a maximum internal or external *design pressure* greater than 15 psig (103.4 kPa gage) shall be *listed* either individually or as part of an assembly or a *refrigeration system* by a *nationally recognized testing laboratory*, or shall comply with ASME B31.5<sup>17</sup> where applicable.

[ ... ]

**9.10.2 Reuse of Piping ~~Materials on Existing Systems.~~** ~~Reused pipe piping, fittings, valves, or other materials~~ on existing *refrigerant* systems being renovated or modified shall be clean and free of foreign materials and shall comply with the requirements of Section 9.10.

[ ... ]

**9.11.3 Preparation of Pipe or Tube Ends.** Pipe or tube shall be cut square, reamed, and chamfered and shall be free of burrs and obstructions. Pipe or tube ends shall not be undercut to reduce pipe wall below the minimum thickness as required for the application.

[ ... ]

## **9.12 Refrigerant ~~Pipe Piping~~ Installation**

[ ... ]

**9.12.1.2 ~~Pipe Piping~~ Protection.** *Refrigerant piping* shall be located in one or more of the following:

[ ... ]

**9.12.1.7 ~~Pipe Piping~~ Support.** *Piping* shall be supported in accordance with ANSI/MSS SP-58<sup>55</sup>.

**9.12.1.8 ~~Pipe Piping~~ Identification.** *Refrigerant piping* located in areas other than the room or space where the refrigerating equipment is located shall be identified in accordance with ANSI/ASME A13.1, Scheme for Identification of Piping Systems<sup>9</sup>. The ~~pipe piping~~ identification shall be located at intervals not exceeding 20 ft (6.1 m) on the *refrigerant piping* ~~or pipe~~ insulation. The minimum height of lettering of the identification label shall be 0.50 in. (12.7 mm). The identification shall indicate the *refrigerant designation* and safety group classification of *refrigerant* used in the *piping*

system.

**9.12.2.1 ~~Pipe~~Tube Protection.** In addition to the requirements in Section 9.12.1.2, aluminum tube, copper tube, or steel tube for Group A2, A3, B2L, B2, and B3 *refrigerants* located in concealed locations where tubing is installed in studs, joists, rafters, or similar member spaces and located less than 1.50 in. (38 mm) from the nearest edge of the member, *shall* be continuously protected by shield plates. Protective steel shield plates having a minimum thickness of 0.0575 in. (1.461 mm) *shall* cover the area of the tube and *shall* extend a minimum of 2.0 in. (51 mm) beyond the outside edge of the tube.

**9.12.4 Stress and Strain.** *Refrigerant piping shall* be installed so as to prevent strains and stresses that exceed the structural strength of the pipe ~~or tube~~. Where necessary, provisions *shall* be made to protect ~~piping piping~~ from damage resulting from vibration, expansion, contraction, and structural settlement.



**BSR/ASHRAE Addendum s  
to ANSI/ASHRAE Standard 15-2024**

**First Public Review Draft**

**Proposed Addendum s to  
Standard 15-2024, Safety Standard  
for Refrigeration Systems**

**First Public Review (XXXX 2025)  
(Draft shows Proposed Changes to Current Standard)**

This draft has been recommended for public review by the responsible project committee. To submit a comment on this proposed standard, go to the ASHRAE website at <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts> and access the online comment database. The draft is subject to modification until it is approved for publication by the Board of Directors and ANSI. Until this time, the current edition of the standard (as modified by any published addenda on the ASHRAE website) remains in effect. The current edition of any standard may be purchased from the ASHRAE Online Store at [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore) or by calling 404-636-8400 or 1-800-727-4723 (for orders in the U.S. or Canada).

This standard is under continuous maintenance. To propose a change to the current standard, use the change submittal form available on the ASHRAE website, [www.ashrae.org](http://www.ashrae.org).

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ASHRAE, 180 Technology Parkway NW, Peachtree Corners, GA 30092

**(This foreword is not part of this standard. It is merely informative and does not contain requirements necessary for conformance to the standard. It has not been processed according to the ANSI requirements for a standard and may contain material that has not been subject to public review or a consensus process. Unresolved objectors on informative material are not offered the right to appeal at ASHRAE or ANSI.)**

## FOREWORD

*This proposed Addendum revises ANSI/ASHRAE Standard 15-2024 to clarify requirements for application of joints for copper linesets, and expands welded joints to copper tube. ANSI/ASHRAE Standard 15 lists copper lineset as acceptable piping material in Table 9-8, but does not list any acceptable joining methods for copper linesets in Table 9-11. The advancement of and use of orbital arc welding equipment makes welding acceptable for copper tube.*

**Note:** This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~strike through~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the current standard are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed changes.

## Addendum s to Standard 15-2024

***Modify Section 9 as follows. The remainder of Section 9 remains unchanged.***

### 9. DESIGN AND CONSTRUCTION OF REFRIGERATION EQUIPMENT AND SYSTEMS

[ ... ]

**Table 9-11 Allowable Joints**

Applicable Section	Brazed	Mechanical	Flared	Press-Connect	Soldered	Threaded	Welded
	9.11.4.1	9.11.4.2	9.11.4.2.1	9.11.4.2.2	9.11.4.3	9.11.4.4	9.11.4.5
Material							
Aluminum tube	•	•		•			•
Brass pipe	•	•		•		•	•
Copper pipe	•	•		•	•	•	•
Copper tube	•	•	•	•	•		•
<u>Copper lineset</u>	•	•	•	•	•		•
Stainless steel pipe	•	•		•		•	•
Stainless steel tube	•	•	•	•			•
Steel pipe	•	•		•		•	•
Steel tube	•	•	•	•			•



**BSR/ASHRAE/IES Addendum d  
to ANSI/ASHRAE/IES Standard 90.2-2024**

**Public Review Draft**

# **Proposed Addendum d to Standard 90.2-2024, High-Performance Energy Design of Residential Buildings**

**First Public Review (December 2025)  
(Draft Shows Proposed Changes to Current Standard)**

This draft has been recommended for public review by the responsible project committee. To submit a comment on this proposed standard, go to the ASHRAE website at [www.ashrae.org/standards-research--technology/public-review-drafts](http://www.ashrae.org/standards-research--technology/public-review-drafts) and access the online comment database. The draft is subject to modification until it is approved for publication by the Board of Directors and ANSI. Until this time, the current edition of the standard (as modified by any published addenda on the ASHRAE website) remains in effect. The current edition of any standard may be purchased from the ASHRAE Online Store at [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore) or by calling 404-636-8400 or 1-800-727-4723 (for orders in the U.S. or Canada).

This standard is under continuous maintenance. To propose a change to the current standard, use the change submittal form available on the ASHRAE website, [www.ashrae.org](http://www.ashrae.org).

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## FOREWORD

*This proposal makes changes to the envelope backstop tables to align with current minimum national model code requirements by removing Table 6.3 and makes associated updates to cross references throughout. These changes include:*

- Updates to U-value tables to align with IECC-2024 and address the perception from potentially adopting jurisdictions that it is not as stringent as the current IECC-Residential code.
- Updates to associated footnotes
- Update to definition of warm-humid
- Removal of separate solar U-value table
- Removal of references to solar U-value table
- Update to normative reference for IECC-R from 2021 to 2024

*[Note to Reviewers: This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~striketrough~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the current standard are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed changes.]*

## Addendum d to 90.2-2024

---

*Modify Section 5.1.1 as follows*

**5.1.1 Prescriptive Compliance.** *Additions* shall comply with Section 5.1.1(a) through (d):

- a. Envelope assemblies: All new envelope *assemblies* comprising the *addition* shall meet or exceed the envelope *assembly* characteristics of Table 7-1 ~~6-3~~ and Table 7-2.
- b. Heating and cooling systems: New heating, cooling, and duct systems that are part of the *addition* shall comply with Section 7.2 and either Table 5-1 or Table 5-2.
- c. *Service water heating* systems: New *service water heating* systems that are part of the *addition* shall comply with Section 7.4 and Table 5-3.
- d. Lighting: New lighting systems that are part of the *addition* shall comply with Section 7.5.

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Modify Section 5.2.1 as follows

**5.2.1 Envelope Assemblies.** All new envelope assemblies comprising the alteration shall meet or exceed the envelope assembly characteristics of Table 6-3 7-1 and Table 7-2.

Remove and Reserve Section 6.2.3 as follows

~~**6.2.3 Reserved. Building Thermal Envelope.** Where renewable energy systems are used, the building envelope components shall have solar heat gain coefficient (SHGC) values and U factors no greater than the values shown in Table 6-3.~~

Remove Table 6.3 as follows

**Table 6-3 Maximum SHGC and U Factors when Renewable Energy Systems are Used (I-P Units)**

Climate Zone	Maximum SHGC					Maximum U Factors				
	Glazed Fenestration	Skylights	Fenestration	Skylights	Ceilings	Frame Walls	Masonry Walls	Floors	Basement Walls	Crawlspac e Walls
0	0.25	0.30	0.50	0.75	0.035	0.084	0.197	0.064	0.360	0.477
1	0.25	0.30	0.50	0.75	0.035	0.084	0.197	0.064	0.360	0.477
2	0.25	0.30	0.40	0.65	0.030	0.084	0.165	0.064	0.360	0.477
3	0.25	0.30	0.35	0.55	0.030	0.060	0.098	0.047	0.091 <sup>a</sup>	0.136
4 except Marine	0.40	0.40	0.35	0.55	0.026	0.060	0.098	0.047	0.059	0.065
Marine 4 and 5	NR	NR	0.32	0.55	0.026	0.060	0.082	0.033	0.050	0.055
6	NR	NR	0.32	0.55	0.026	0.045	0.060	0.033	0.050	0.055
7	NR	NR	0.32	0.55	0.026	0.045	0.057	0.028	0.050	0.055
8	NR	NR	0.32	0.55	0.026	0.045	0.057	0.028	0.050	0.055

<sup>a</sup> The required U factor is 0.360 for warm humid locations as defined by Figure R301.1 and Table 301.1 in the IECC.<sup>2</sup>

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**Table 6-3 Maximum SHGC and U-Factors when Renewable Energy Systems are Used (SI Units)**

Climate Zone	Maximum SHGC				Maximum U-factors					
	Glazed Fenestrations	Skylights	Fenestrations	Skylights	Ceilings	Frame Walls	Mass Walls	Floors	Basement Walls	Crawlspaces Walls
0	0.25	0.30	2.84	4.26	0.20	0.48	1.12	0.36	2.04	2.71
1	0.25	0.30	2.84	4.26	0.20	0.48	1.12	0.36	2.04	2.71
2	0.25	0.30	2.27	3.69	0.17	0.48	0.94	0.36	2.04	2.71
3	0.25	0.30	1.99	3.12	0.17	0.34	0.56	0.27	0.52 <sup>a</sup>	0.77
4 except Marine	0.40	0.40	1.99	3.12	0.15	0.34	0.56	0.27	0.34	0.37
Marine 4 and 5	NR	NR	1.82	3.12	0.15	0.34	0.47	0.19	0.28	0.31
6	NR	NR	1.82	3.12	0.15	0.26	0.34	0.19	0.28	0.31
7	NR	NR	1.82	3.12	0.15	0.26	0.32	0.16	0.28	0.31
8	NR	NR	1.82	3.12	0.15	0.26	0.32	0.16	0.28	0.31

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Modify Section 7.1 as follows (align w/ 2024 IECC)

**Table 7-1 Envelope Component Maximum SHGC and U-Factors (I-P)**

Climate Zone	Maximum SHGC	Maximum U-factors							
	Glazed Fenestration	Fenestration	Skylights	Ceilings	Frame Walls	Mass Walls	Floors	Basement Walls	Crawlspac e Walls
0	<del>0.300</del> .28	<del>1.20</del> .50	<del>0.750</del> .60	0.035	0.082	0.197 <sup>a</sup>	0.064	0.360	0.477
1	<del>0.300</del> .28	<del>1.20</del> .50	<del>0.750</del> .60	0.035	0.082	0.197 <sup>a</sup>	0.064	0.360	0.477
2	<del>0.300</del> .28	<del>0.650</del> .40	<del>0.750</del> .60	<del>0.0350</del> .030	0.082	0.165 <sup>a</sup>	0.064	0.360	0.477
3	<del>0.300</del> .28	<del>0.500</del> .30	<del>0.650</del> .53	<del>0.0350</del> .026	<del>0.0820</del> .060	<del>0.141</del> <sup>a</sup> 0.098 <sup>a</sup>	0.047	0.091 <sup>b</sup>	0.136
4 except Marine	<del>NR</del> 0.40	<del>0.350</del> .30	<del>0.600</del> .53	<del>0.0300</del> .026	<del>0.0820</del> .045	<del>0.141</del> <sup>a</sup> 0.098 <sup>a</sup>	0.047	0.059	0.065
Marine 4 and 5	NR	<del>0.350</del> .28	0.600.50	<del>0.0300</del> .026	<del>0.0570</del> .045	0.082	0.033	<del>0.050</del> <sup>a</sup>	<del>0.0650</del> .055
6	NR	<del>0.350</del> .28	<del>0.600</del> .50	0.026	<del>0.0570</del> .045	0.060	0.033	0.050	<del>0.0650</del> .055
7	NR	<del>0.350</del> .27	<del>0.600</del> .50	0.026	<del>0.0570</del> .045	0.057	0.033	0.050	<del>0.0650</del> .055
8	NR	<del>0.350</del> .27	<del>0.600</del> .50	0.026	<del>0.0570</del> .045	0.057	<del>0.0330</del> .028	0.050	<del>0.0650</del> .055

a. Where greater than half of a mass wall's insulation is on the interior, the maximum U-factor shall be as follows: 0.170 in Climate Zones 0 and 1, 0.140 in Climate Zone 2, ~~0.120~~ 0.080 in Climate Zone 3, and ~~0.100~~ in Climate Zone 4 except Marine, and 0.048 for Climate Zones Marine 4, 5, 6, 7, and 8.  
 b. The required U-factor is 0.360 for warm-humid locations as defined by R301.3, Figures R301.1 and Table 301.1 in of the IECC.<sup>3</sup>

**Table 7-1 Envelope Component Maximum SHGC and U-factors (SI)**

Climate Zone	Maximum SHGC	Maximum U-factors							
	Glazed Fenestration	Fenestrati on	Skylights	Ceilings	Frame Walls	Mass Walls	Floors	Basement Walls	Crawlspac e Walls
0	<del>0.300</del> .28	<del>6.822</del> .84	<del>4.263</del> .41	<del>0.20</del>	0.47	1.12 <sup>a</sup>	0.36	2.04	2.71
1	<del>0.300</del> .28	<del>6.822</del> .84	<del>4.263</del> .41	<del>0.20</del>	0.47	1.12 <sup>a</sup>	0.36	2.04	2.71
2	<del>0.300</del> .28	<del>3.692</del> .27	<del>4.263</del> .41	<del>0.200</del> .17	0.47	0.94 <sup>a</sup>	0.36	2.04	2.71
3	<del>0.300</del> .28	<del>2.841</del> .70	<del>3.693</del> .00	<del>0.200</del> .15	<del>0.470</del> .34	<del>0.800</del> .56 <sup>a</sup>	0.27	0.52 <sup>b</sup>	0.77
4 except Marine	<del>NR</del> 0.40	<del>1.991</del> .70	<del>3.413</del> .00	<del>0.170</del> .15	<del>0.470</del> .26	<del>0.800</del> .56 <sup>a</sup>	0.27	0.34	0.37
Marine 4 and 5	NR	<del>1.991</del> .59	<del>3.412</del> .84	<del>0.170</del> .15	<del>0.320</del> .26	0.47	0.19	0.34	<del>0.370</del> .31
6	NR	<del>1.991</del> .59	<del>3.412</del> .84	<del>0.15</del>	<del>0.320</del> .26	0.34	0.19	0.28	<del>0.370</del> .31
7	NR	<del>1.991</del> .53	<del>3.412</del> .84	<del>0.15</del>	<del>0.320</del> .26	0.32	0.19	0.28	<del>0.370</del> .31
8	NR	<del>1.991</del> .53	<del>3.412</del> .84	<del>0.15</del>	<del>0.320</del> .26	0.32	<del>0.190</del> .16	0.28	<del>0.370</del> .31

a. Where greater than half of a mass wall's insulation is on the interior, the maximum U-factor shall be as follows: 0.170 in Climate Zones 0 and 1, 0.140 in Climate Zone 2, ~~0.120~~ 0.45 in Climate Zone 3, and ~~0.100~~ in Climate Zone 4 except Marine, and 0.27 for Climate Zones Marine 4, 5, 6, 7, and 8.  
 b. The required U-factor is 0.360 for warm-humid locations as defined by R301.3, Figures R301.1 and Table 301.1 in of the IECC.<sup>3</sup>

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*Modify D1.2 as follows*

**D1.2** Installed insulation materials, thickness amounts, and locations shall comply with *the proposed design*. ~~In no case shall installed insulation thickness amounts be less than those required to deliver the maximum U factors defined in Table 6-3 or Table 7-1, as applicable.~~

*Modify Table H-1 as follows*

**Table H-1 Sample Plan Review Inspection Checklist**

Project address or location		[Home Address]	
Builder's name and phone number			
Builder's e-mail address			
Climate zone		House Size, ft <sup>2</sup>	Orientation
<i>Building Thermal Envelope Compliance</i>			Notes
<i>Conditioned floor area</i> defined		<input type="checkbox"/> Yes <input type="checkbox"/> No	
U-Factor values listed for all <i>fenestration</i>		<input type="checkbox"/> Yes <input type="checkbox"/> No	
SHGC values listed for all <i>fenestration</i>		<input type="checkbox"/> Yes <input type="checkbox"/> No	
Insulation materials listed with R-values		<input type="checkbox"/> Yes <input type="checkbox"/> No	
<i>Mechanical Compliance</i>			Notes
HVAC equipment listed (List equipment types, sizes and efficiencies in the notes.)		<input type="checkbox"/> Yes <input type="checkbox"/> No	
Manual J included and project address/location verified		<input type="checkbox"/> Yes <input type="checkbox"/> No	
Duct design defined, including duct layout that identifies duct sizes, duct lengths, fittings, transitions, locations, insulation materials, R-value sealing requirements, and design values for cfm, external static pressure, and utilized friction rate		<input type="checkbox"/> Yes <input type="checkbox"/> No	
<i>Service water heating</i> equipment listed (List equipment size, type, and efficiency in the notes.)		<input type="checkbox"/> Yes <input type="checkbox"/> No	
Pipe design defined, including locations, insulation materials and R-values		<input type="checkbox"/> Yes <input type="checkbox"/> No	
<i>Lighting Compliance</i>			Notes
Lighting fixture schedule, lumens, and wattage listed		<input type="checkbox"/> Yes <input type="checkbox"/> No	
<i>Modeling Compliance</i>			Notes
Name and version of the simulation program employed listed		<input type="checkbox"/> Yes <input type="checkbox"/> No	
The <i>proposed design</i> adheres to the modeling rule set defined in Section 6.1 (unless <i>on-site power production</i> or <i>off-site power production</i> is being utilized).		<input type="checkbox"/> Yes <input type="checkbox"/> No	
The <i>proposed design</i> meets the <i>ERI</i> appropriate for its climate zone, per Table 6-1.		<input type="checkbox"/> Yes <input type="checkbox"/> No	
<i>Renewable Energy System</i>			Notes
<i>On-site power production</i> system or <i>off-site power production</i> system defined, including <i>renewable energy</i> source and projected kW output		<input type="checkbox"/> Yes <input type="checkbox"/> No	
Complies with <i>the building thermal envelope</i> elements in Table 7-1 <del>6-3</del>		<input type="checkbox"/> Yes <input type="checkbox"/> No	

Sign below to confirm that the above information is listed on the constructed documents submitted.

Jurisdiction having authority:		
Inspectors name (printed):		
Inspectors signature:		Date:

*Modify Section 10 as follows*

3. ICC. ~~2021~~ 2024. International Energy Conservation Code. Country Club Hills, IL: International Code Council.

## 5.0 TEST EQUIPMENT

### 5.1 Resistance Measurement Electrode(s)

A cylindrical electrode that shall be 2.27 kg ± 0.06 kg with a diameter of 63.5 mm ± 3 mm having a contact surface made of electrically conductive elastomer (such as rubber) with a Shore-A durometer hardness between 50 and 70 as per ASTM D2240. The resistance between two of these electrodes shall be less than or equal to  $1.0 \times 10^3$  ohms when measured on a metallic surface. See Annex A.2.

NOTE: Over time, conductive elastomer used as the contact surface of the electrodes can warp. This could cause measurements to change. At this time, there is no standardized method to verify if this has occurred, but the user should be aware of this phenomenon.

~~A cylindrical electrode that shall be 2.27 kg ± 0.06 kg with a diameter of 63.5 mm ± 3 mm, having a contact surface of electrically conductive rubber material with a Shore A durometer hardness between 50 and 70 as per ASTM D2240. The resistance between two electrodes shall be less than  $1.0 \times 10^3$  ohms when measured on a metallic surface.~~

~~NOTE: Over time, conductive rubber materials used as the contact surface of the electrodes can warp. This could cause measurements to change. At this time there is no standardized method to verify if this has occurred, but the user should be aware of this phenomenon.~~

### 5.3 Specimen Support Surface

A planar (flat) surface, when used for specimen support, shall be at least as large as the sample specimens being tested.

The specimen support surface shall also meet one of the following criteria:

- Surface resistivity greater than  $1.0 \times 10^{11}$  ohms/square when measured per ASTM D257
- Surface resistance greater than  $1.0 \times 10^{10}$  ohms when measured per ANSI/ESD STM11.11
- Resistance point to point of at least one order of magnitude greater than the measured item's upper limit using the resistance measurement electrodes, as defined in Section X.Y, spaced at least 150 mm apart (edge-to-edge).

NOTE: For example, if the minimum surface resistance requirement for the specimen support surface is greater than  $1.0 \times 10^{10}$  ohms, a specimen support surface of  $1.0 \times 10^{12}$  ohms meets this requirement.

The specimen support surface shall be measured in the same humidity conditions at which the material will be tested.

~~A planar (flat) surface, when used for specimen support, shall have a surface resistivity greater than  $1.0 \times 10^{11}$  ohms/square when measured per ASTM D257 or a surface resistance greater than  $1.0 \times 10^{10}$  ohms when measured per ANSI/ESD STM11.11.~~

~~NOTE: For example, if the minimum surface resistance requirement for the specimen support surface is greater than  $1.0 \times 10^{10}$  ohms, a specimen support surface of  $1.0 \times 10^{12}$  meets this requirement.~~

~~The specimen support surface shall be measured in the same humidity conditions at which the specimen will be tested.~~

~~An alternate method to verify the properties of the specimen support surface may be used, by measuring the resistance point to point of the material with the resistance measurement electrodes spaced at least 150 mm apart (edge to edge).~~

~~The specimen support surface shall be larger than the specimen.~~

### 5.4 Resistance Measurement Apparatus

The measurement apparatus, called the meter, whether it is an instrument or a collection of instruments, shall be capable of the following:

The resistance range of the meter shall be  $\leq 1.0 \times 10^3$  ohms to  $\geq 1.0 \times 10^{10}$  ohms.

NOTE: For example, if the requirement for the meter is  $1.0 \times 10^3$  ohms to  $1.0 \times 10^{10}$  ohms, a meter with a range of  $1.0 \times 10^2$  to  $1.0 \times 10^{12}$  meets this requirement.

The meter shall apply a voltage of 10 volts ( $\pm 5\%$ ), ~~either open circuit or under load,~~ for measurements  $< 1.0 \times 10^4$  ohms.

The meter shall apply a voltage of 10 volts ( $\pm 5\%$ ), while under load, for measurements from  $\geq 1.0 \times 10^4$  ohms to  $< 1.0 \times 10^6$  ohms and a voltage of 100 volts ( $\pm 5\%$ ) while under load for measurements of  $\geq 1.0 \times 10^6$  ohms.

For the measurements, a calibrated meter should be used.

## 5.5 Specimen Preparation and Conditioning

### 5.5.1 Cleaning

The test specimens, ~~and electrodes,~~ and metal plate (if used) shall be cleaned with an isopropanol-water solution (for example, 70% isopropanol (IPA), which uses either deionized, distilled, or purified water) using a clean, low-lint cloth. The cleaned specimens/electrodes shall be allowed to air dry before measurement.

## 6.0 PRODUCT QUALIFICATION OF WORKSURFACES

At least three (3) specimens shall be tested with minimum dimensions of 250 mm x 600 mm. Each specimen shall have a groundable point(s) that simulate end-use grounding procedures. These specimens shall be uniquely identified.

NOTE: There are several ways to establish groundable points on a worksurface, depending on materials and installation needs. Some options include mat riveted snap, mat screw snap, threaded post, mat snap clinching, laminate recessed ground techniques, screw and star washer through the laminate into the substrate, or using a screw or bolt through a metal worksurface or cart, as examples.

Before measurements are taken, the entire measurement set-up, including meter, electrodes, and test leads, should be verified, see Annex A.

## 7.0 PRODUCT QUALIFICATION OF SHELVING

At least three (3) specimens shall be tested. Each shelving specimen shall be configured in the manner in which it will be used in the intended application. Each specimen shall have one or more groundable point(s) that simulate end-use grounding procedures.

NOTE: There are several ways to establish groundable points on a worksurface, depending on materials and installation needs. Some options include mat riveted snap, mat screw snap, threaded post, mat snap clinching, laminate recessed ground techniques, screw and star washer through the laminate into the substrate, or using a screw or bolt through a metal worksurface or cart, as examples.

Before measurements are taken, the entire measurement set-up, including meter, electrodes, and test leads, should be verified, see Annex A.

## 8.0 PRODUCT QUALIFICATION OF MOBILE EQUIPMENT

When mobile equipment is used as a worksurface, the resistance from the surface being used to the groundable point shall be tested. Each specimen should have a groundable point(s) that simulate end-use grounding procedures.

NOTE: There are several ways to establish groundable points on a worksurface, depending on materials and installation needs. Some options include mat riveted snap, mat screw snap, threaded post, mat snap clinching, laminate recessed ground techniques, screw and star washer through the laminate into the substrate, or using a screw or bolt through a metal worksurface or cart, as examples.

At least three (3) mobile equipment specimens shall be tested. Each mobile equipment specimen shall be configured in the manner in which it will be used in the intended application.

Before measurements are taken, the entire measurement set-up, including meter, electrodes, and test leads, should be verified, see Annex A.

**ESD DSTM4.1-2025****A.1 Verification of the Resistance Measurement Apparatus**

Check the resistance measurement apparatus by measuring two or more known resistors (see Figure 7), for example, from a resistor decade box. Use a resistor for the lowest resistance range of the meter, as defined in Section 5.4 ( $1.0 \times 10^3$  ohms), and a resistor for the highest resistance range as described in Section 5.4 ( $1.0 \times 10^{10}$  ohms), each with a tolerance of  $\pm 5\%$ .

~~NOTE: If a meter with a broader resistance range than defined in Section 5.3 is used, a resistor with a value equal to the lowest resistance range of the meter, and a resistor with a value equal to the highest resistance range may be used. At a minimum, check one resistor with a value between  $1.0 \times 10^3$  ohms and  $1.0 \times 10^5$  ohms and one resistor with a value between  $1.0 \times 10^7$  ohms and  $1.0 \times 10^{10}$  ohms each with a tolerance of  $\pm 5\%$ .~~

**A.2 Determine Measurement Capability of Lower Limit for the Entire Measurement Set-up**

The electrodes and metal plate shall be cleaned with an isopropanol-water solution (for example, 70% isopropanol (IPA), which uses either deionized, distilled, or purified water) using a clean, low-lint cloth. The cleaned specimens/electrodes shall be allowed to air dry before measurement.

- a. Place the electrodes on a metal plate, not touching each other.
- b. Connect the meter leads to each of the electrodes (see Figure 8).
- c. Set the meter test voltage to 10 volts.
- d. Apply the test voltage and record the resistance after the measurement has stabilized or after 5 seconds have elapsed.

The measured resistance shall be less than  $1.0 \times 10^3$  ohms. If the measured resistance value is greater than  $1.0 \times 10^3$  ohms, ~~clean the resistance measurement electrodes,~~ verify the continuity of the two measurement leads, and verify that the resistance measurement apparatus is capable of measuring resistance values of  $1.0 \times 10^3$  ohms or less. If the problem persists, repair or replace measurement equipment.

**A.3 Determine the Measurement Capability of the Upper Limit for the Entire Measurement Setup**

The electrodes and specimen support surface shall be cleaned with an isopropanol-water solution (for example, 70% isopropanol (IPA), which uses either deionized, distilled, or purified water) using a clean, low-lint cloth. The cleaned specimens/electrodes shall be allowed to air dry before measurement.

- a. Place the electrodes on a specimen support surface as defined in Section 5.3, not touching each other.
- b. Connect the meter leads to each electrode (see Figure 9).
- c. Set the meter test voltage to 100 volts.
- d. Apply the test voltage and record the resistance after the measurement has stabilized or after 15 seconds have elapsed.

# ASSE 1013-202y/CSA B64.4:2y



**PUBLIC REVIEW DRAFT**

*Reduced pressure principle (RP) backflow prevention assemblies*



## 5 Performance requirements

**Note:** *In the event of a failure due to dirt or debris, the assembly may be cleaned and retested. It is not permissible to replace any components during testing.*

### 5.1 General

#### 5.1.1 Sample selection criteria

For Sections 5.12 Drip tightness of first check valve, 5.13 Drip tightness of second check valve, 5.14 Relief valve discharge test with atmospheric supply pressure, 5.15 Relief valve discharge with positive supply pressure, 5.16 Backpressure/backsiphonage test, 5.17 Air gap device backsiphonage test, 5.18 Deterioration at manufacturer's extremes of temperature and pressure ranges and 5.19 Life cycle test where common internal parts are used for several device sizes, the largest size shall be tested in each range of sizes.

#### 5.1.2 Accompanying drawings and other data

Assembly and installation drawings and other data, which are needed to determine compliance with this Standard, shall accompany the assemblies.

### 5.2 Test conditions

#### 5.2.1 Water temperature

The water temperature for all tests shall be 20 °C ± 15 °C (68 °F ± 27 °F), unless otherwise specified in the applicable test method.

#### 5.2.2 Pressures

Negative P pressures specified in this Standard ~~are gauge pressures at sea level.~~ ~~Appropriate corrections shall be made for tests performed at higher altitudes.~~ must be adjusted to reflect the same fractional reduction of local atmospheric pressure across different altitudes for labs situated 609.6 m (2000 ft) or more above sea level using the following formula:

$$P = P_0 * e^{(-Mgh/RT)}$$

Where:

P = pressure at altitude (in Pa)

P<sub>0</sub> = pressure at sea level = 101325 Pa

M = molar mass of air = 0.02896 kg/mol

g = acceleration due to gravity = 9.80665 m/s<sup>2</sup>

h = altitude above sea level (m)

R = universal gas constant = 8.31446 J/(mol\*K)

T = constant temperature (in Kelvin)

For example, to get an equivalent vacuum of 25.0 in Hg at sea level at 609.6 m (2000 ft) would be 23.3 in Hg to accommodate the lower atmospheric pressure at the higher elevation. It is assumed lab temperatures remain consistent at different altitudes.

14 (350)	189 (50)
16 (400)	189 (50)

### 5.18.3 Criteria

Failure to meet the requirements of Clauses [5.18.2](#) c) following both the hot water and cold water tests and [5.17.2](#) d) following the ambient water test shall result in a rejection of the assembly.

## 5.19 Life cycle test

### 5.19.1 Purpose

The purpose of this test is to determine if the assembly sustains any damage, permanent deformation, or impairment of operation as a result of the life cycling test.

### 5.19.2 Internal parts

While conducting the life cycle test,

- a) there shall be no replacement of internal parts; and
- b) cleaning of internal parts shall be acceptable.

~~If cleaning of internal parts is required, before the life cycle test is continued the specimen shall be tested in accordance with Clause 8.2.1 of CSA B64.10.1.~~

### 5.19.3 Procedure

#### 5.19.3.1 General

The assembly shall be installed per Figure [1](#) and Figure [2](#). The assembly shall be tested in its primary orientation with ambient temperature water. Test cock 3 shall be partially opened to sufficiently vent the pressure.

~~Where common internal parts are used for several device sizes, the largest size shall be tested in each range of sizes.~~

#### 5.19.3.2 1250 cycles at 25% flow

To test 1250 cycles at 25% flow, the test shall be conducted as follows:

- a) With valves 1 and 2 open and valves 3 and 4 closed, flow water through the assembly at 25% of rated flow at  $414 \text{ kPa} \pm 69 \text{ kPa}$  ( $60 \text{ psi} \pm 10 \text{ psi}$ ) for a minimum of 6 seconds.
- b) Cease flow at valve 2; hold the assembly at a static pressure of  $413.7 \text{ kPa} \pm 68.9 \text{ kPa}$  ( $60 \text{ psi} \pm 10 \text{ psi}$ ) for at least 6 seconds.
- c) Close valve 1 and open test cock 1 or 2 to decrease the supply pressure to atmospheric for a minimum of 3 seconds.

- d) Increase the backpressure at test cock 4 by opening valves 3 and 4 to 1034 kPa (150 psi) or the manufacturer's maximum working pressure, if higher, for at least 6 seconds.
- e) Close test cocks 1 and 2, then open valve 1.
- f) Increase the supply pressure at test cock 1 to 1034 kPa (150 psi) or the manufacturer's rated pressure, if higher, and hold for 6 seconds minimum.
- g) Close valves 1, 2, 3, and 4 and open all test cocks to return the assembly to atmospheric pressure.
- h) Repeat steps a) through f) for 1250 cycles.
- i) Test the assembly to
  - i) Clause [5.10](#), Relief valve opening test;
  - ii) Clause [5.12](#), Drip tightness of first check valve; and
  - iii) Clause [5.13](#), Drip tightness of second check valve.

[In the event of test failure, the lab shall check the assembly's internal components for debris. If debris is present, tests in \(i\) shall be repeated after the debris is removed.](#)

#### **5.19.3.3 1250 cycles at 50% flow**

To test 1250 cycles at 50% flow, Clause [5.19.3.2](#) shall be repeated for 1250 cycles, but flow water through the assembly at 50% of rated flow.

#### **5.19.3.4 Second check and relief valve drip evaluation**

To check the second check valve and the relief valve, the test shall be conducted as follows:

- a) With test cock 2 and 3 open to the atmosphere, apply a backpressure of 6.9 kPa (1 psi) at test cock 4 for 10 minutes and observe for dripping from the vent or test cock 3.
- b) Apply a backpressure of 1034 kPa (150 psi) or the maximum working pressure of the assembly, whichever is greater, for 10 minutes at test cock 4 and observe for dripping from the vent or test cock 3.
- c) Raise the pressure at test cock 1 to 138 kPa (20 psi) and maintain for 10 minutes.
- d) Raise the pressure at test cock 1 to 1034 kPa (150 psi) or the manufacturer's maximum working pressure, if higher, and maintain for 10 minutes.

#### **5.19.3.5 1250 cycles at 75% flow**

To test 1250 cycles at 75% flow, Clause [5.19.3.2](#) shall be repeated for 1250 cycles, but flow water through the assembly at 75% of rated flow.

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NSF/ANSI 42:

## Drinking Water Treatment Units — Aesthetic Effects

### 4 Materials

#### 4.2 Materials evaluation

##### 4.2.3 Exposure

**4.2.3.1** The system or component(s) of a system shall be installed, flushed, ~~and~~ conditioned, and operated in accordance with the manufacturer's instructions using the exposure water specified in Section 4.2.2 at an initial inlet static pressure of 340 kPa (50 psig). Nonpressurized systems, e.g., pour through products, shall be exposed at atmospheric pressure.

**4.2.3.2** The system or component(s) shall be refilled with the exposure water specified in Section 4.2.2 and maintained for 24 h at a temperature of  $23 \pm 2$  °C ( $73 \pm 3$  °F). A water sample shall then be collected in accordance with Section 4.2.3.3. The system or component(s) shall be flushed according to the manufacturer's instructions, refilled, and maintained for another 24 h at a temperature of  $23 \pm 2$  °C ( $73 \pm 3$  °F). A second water sample shall be collected in accordance with Section 4.2.3.3. The system or component(s) shall again be flushed according to the manufacturer's instructions, refilled, and maintained for a third period of 24 h at a temperature of  $23 \pm 2$  °C ( $73 \pm 3$  °F). A third water sample shall be collected in accordance with Section 4.2.3.3.

Pour through products shall initially be flushed and conditioned in accordance with Section 4.2.3.1. Systems shall then be filled with exposure water as specified in Section 4.2.2 and maintained for 24 h at an ambient temperature of  $23 \pm 2$  °C ( $73 \pm 3$  °F). A water sample shall be collected for analysis by emptying the raw and product water storage reservoir completely and then sub-sampling. The reservoir shall be filled in accordance with the manufacturer's operating instructions, and the system shall be maintained for another 24 h at an ambient temperature of  $23 \pm 2$  °C ( $73 \pm 3$  °F). A water sample shall again be collected for analysis by emptying the raw and product water storage reservoir completely and then sub-sampling. This process shall be repeated to give a total of three 24-h exposures. Samples collected shall be composited and analyzed in accordance with Section 4.2.3.4.

***Rationale:*** *The proposed language clarifies that for material evaluation in NSF/ANSI 42, pour through products do not need to be flushed after the 24 h exposure and water collection. These systems could be exposed longer than 24 h as specified in the current standard, which could affect how much of a contaminant leaches into the water sitting in the system during the exposure period.*

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NSF/ANSI 53:

# Drinking Water Treatment Units — Health Effects

⋮

## 4 Materials

⋮

### 4.2 Materials evaluation

⋮

#### 4.2.3 Exposure

**4.2.3.1** The system or component(s) of a system shall be installed, flushed, and conditioned, and operated in accordance with the manufacturer's instructions using the exposure water specified in Section 4.2.2 at an initial inlet static pressure of 340 kPa (50 psig). Nonpressurized systems, e.g. pour through products, shall be exposed at atmospheric pressure.

**4.2.3.2** The system or component(s) shall be refilled with the exposure water specified in Section 4.2.2 and maintained for 24 h at a temperature of  $23 \pm 2 \text{ }^\circ\text{C}$  ( $73 \pm 3 \text{ }^\circ\text{F}$ ). A water sample shall then be collected in accordance with Section 4.2.3.3. The system or component(s) shall be flushed according to the manufacturer's instructions, refilled, and maintained for another 24 h at a temperature of  $23 \pm 2 \text{ }^\circ\text{C}$  ( $73 \pm 3 \text{ }^\circ\text{F}$ ). A second water sample shall be collected in accordance with Section 4.2.3.3. The system or component(s) shall again be flushed according to the manufacturer's instructions, refilled, and maintained for a third period of 24 h at a temperature of  $23 \pm 2 \text{ }^\circ\text{C}$  ( $73 \pm 3 \text{ }^\circ\text{F}$ ). A third water sample shall be collected in accordance with Section 4.2.3.3.

Pour through products shall initially be flushed and conditioned in accordance with Section 4.2.3.1. Systems shall then be filled with exposure water as specified in Section 4.2.2 and maintained for 24 h at an ambient temperature of  $23 \pm 2 \text{ }^\circ\text{C}$  ( $73 \pm 3 \text{ }^\circ\text{F}$ ). A water sample shall be collected for analysis by emptying the raw and product water storage reservoir completely and then sub-sampling. The reservoir shall be filled in accordance with the manufacturer's operating instructions, and the system shall be maintained for another 24 h at an ambient temperature of  $23 \pm 2 \text{ }^\circ\text{C}$  ( $73 \pm 3 \text{ }^\circ\text{F}$ ). A water sample shall again be collected for analysis by emptying the raw and product water storage reservoir completely and then sub-sampling. This process shall be repeated to give a total of three 24-h exposures. Samples collected shall be composited and analyzed in accordance with Section 4.2.3.4.

⋮

***Rationale: The proposed language clarifies that for material evaluation in NSF/ANSI 53, pour through products do not need to be flushed after the 24 h exposure and water collection. These systems could be exposed longer than 24 h as specified in the current standard, which could affect how much of a contaminant leaches into the water sitting in the system during the exposure period.***

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NSF/ANSI 55:

## Ultraviolet Microbiological Water Treatment Systems

⋮

### 4 Materials

⋮

#### 4.2 Materials evaluation

⋮

##### 4.2.3 Exposure

The lamp shall be on during exposure testing, when appropriate.

**4.2.3.1** The system or component(s) of a system shall be installed, flushed, and conditioned, and operated in accordance with the manufacturer's instructions using the exposure water specified in Section 4.2.2 at an initial inlet static pressure of 340 kPa (49 psig).

**4.2.3.2** The system or component(s) shall be refilled with the exposure water specified in Section 4.2.2 and maintained for 24 h at a temperature of  $23 \pm 2$  °C ( $73 \pm 4$  °F). A water sample shall then be collected in accordance with Section 4.2.3.3. The system or component(s) shall be flushed according to the manufacturer's instructions, refilled, and maintained for another 24 h at a temperature of  $23 \pm 2$  °C ( $73 \pm 4$  °F). A second water sample shall be collected in accordance with Section 4.2.3.3. The system or component(s) shall again be flushed according to the manufacturer's instructions, refilled, and maintained for a third period of 24 h at a temperature of  $23 \pm 2$  °C ( $73 \pm 4$  °F). A third water sample shall be collected in accordance with Section 4.2.3.3.

Pour through products shall initially be flushed and conditioned in accordance with Section 4.2.3.1. Systems shall then be filled with exposure water as specified in Section 4.2.2 and maintained for 24 h at an ambient temperature of  $23 \pm 2$  °C ( $73 \pm 3$  °F). A water sample shall be collected for analysis by emptying the raw and product water storage reservoir completely and then sub-sampling. The reservoir shall be filled in accordance with the manufacturer's operating instructions, and the system shall be maintained for another 24 h at an ambient temperature of  $23 \pm 2$  °C ( $73 \pm 3$  °F). A water sample shall again be collected for analysis by emptying the raw and product water storage reservoir completely and then sub-sampling. This process shall be repeated to give a total of three 24-h exposures. Samples collected shall be composited and analyzed in accordance with Section 4.2.3.4.

⋮

***Rationale:*** The proposed language clarifies that for material evaluation in NSF/ANSI 55, pour through products do not need to be flushed after the 24 h exposure and water collection. These systems could be exposed longer than 24 h as specified in the current standard, which could affect how much of a contaminant leaches into the water sitting in the system during the exposure period.

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NSF/ANSI Standard  
for Nutrition and Wellness –

## Terminology for the NSF 455 Portfolio of Standards

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### 3 Definitions

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~~3.55 purity (for cosmetics, medical devices, and OTC): freedom from adulteration or contamination.~~

~~purity (for dietary supplements): the portion or percentage of a dietary supplement that represents the intended product. The content of components in the product excluding undesirable matter or impurities. Impurities to the product may be introduced from materials, the manufacturing process or residues of applied liquids.~~

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NSF/ANSI Standard  
for Nutrition and Wellness –

## Terminology for the NSF 455 Portfolio of Standards

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### 3 Definitions

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**batch or lot:** A specific quantity of material that is intended to have product or a portion of that product that is uniform characteristics and quality, within specified limits; or when produced by continuous process, an amount of uniform product produced in a specified unit of time or quantity, and is produced according to a single manufacturing order during the same cycle of manufacture, or, in the case of a continuous process, produced within a specific unit of time.

**batch number, or lot number, or control number:** Any distinctive combination of numbers, letters or symbols, which specifically identifies a batch or lot from which the complete history of the manufacture, processing, packing, holding, and, in the case of over-the-counter (OTC) drugs, distribution of a batch or lot of finished product or other material can be determined.

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**lot number:** A batch, or a specific identified portion of a batch, having uniform characteristics and quality within specified limits; or a specific identified amount produced by continuous process in a specific unit of time or quantity having uniform characteristics and quality, within specified limits.

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## BSR/UL 758, Standard for Safety for Appliance Wiring Material

## 1. Annealed Copper Wire, Revised Table 5.3

## PROPOSAL

**Table 5.3**  
**Conductor – metal specifications**

Conductor metal	ASTM reference for the metal	Temperature limit for the metal, °C (°F)	Other limits
Copper, uncoated, diameter of each strand or thickness of rectangular or tubular conductor less than 0.015 inch (0.38 mm)	ANSI/ASTM B 3	150 (302)	<p>Uncoated conductor smaller than 0.0031 inch (0.079 mm) meet the elongation requirements as defined for conductors with a diameter of 0.0031 inch (0.079 mm) as shown in ASTM B 3).</p> <p><u>For conductors with a strand diameter smaller than 0.002 inch (0.051 mm) or less, the elongation requirements are 10 percent or more.</u></p>
<del>Copper, uncoated, diameter of each strand or thickness of rectangular or tubular conductor at least 0.015 inch (0.38 mm)</del>	<del>ANSI/ASTM B 3</del>	<del>200 (392)</del>	<p><del>Uncoated conductor smaller than 0.0031 inch (0.079 mm) meet the elongation requirements as defined for conductors with a diameter of 0.0031 inch (0.079 mm) as shown in ASTM B 3.</del></p> <p><del>For conductors with a strand diameter smaller than 0.002 inch (0.051 mm) or less, the elongation requirements are 10 percent or more.</del></p>

**BSR/UL 62841-2-10 Standard for Safety for Electric Motor-Operated Hand-Held Tools, Transportable Tools And Lawn And Garden Machinery – Safety - Part 2-10: Particular Requirements For Hand-Held Mixers**

**1. Proposed Adoption of IEC 62841-2-10:2017/AMD1:2024**

**PROPOSAL**

**Table 4  
Required performance levels**

Type and purpose of SCF	Minimum Performance Level (PL)
Power switch – prevent unwanted switch-on	b
Power switch – provide desired switch-off	a
Any electronic control to pass the test of 18.3	a
Any speed limiting device	Not an SCF
Provide desired direction of rotation	Not an SCF
<del>Prevent exceeding thermal limits as in Clause 18</del> <a href="#">Prevent exceeding thermal limits as in 18.4 and 18.5.3</a>	a
Prevent self-resetting as required in 23.3	b
Prevent unwanted lock-on of the power switch function	a
NOTE In Europe (EN 62841-2-10), the following additional requirement applies: Restart prevention as required by 21.18.1.1	b

**23 Components**

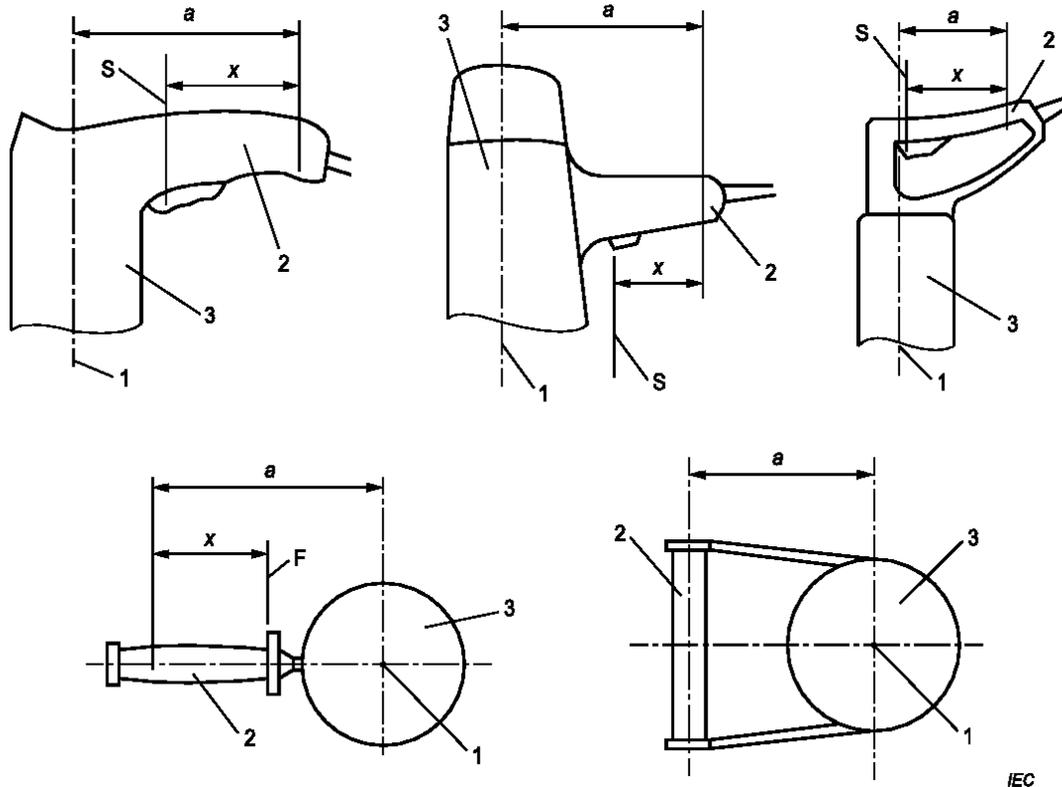
This clause of Part 1 is applicable ~~except~~ as follows:

23.3 Replacement of the first paragraph:

Protection devices or circuits shall be of the non-self-resetting type unless the tool is equipped with a momentary power switch with no provision for being locked in the "on" position.

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**Figure 102**  
**Moment arm for various handle designs**



- su2745
- Key**
- 1 axis of the output spindle
  - 2 handle
  - 3 motor housing
  - S location of the hand on the **power switch** where the operator naturally grasps
  - x measurement point that is 80 mm or the remaining length of the handle, whichever is less, from S in the direction of where the hand grasps the tool
  - a moment arm
  - F location of the hand on the flange where the operator naturally grasps

### I.2.5 Operating conditions

*Addition:*

**Mixers** are tested at no-load, all speed setting devices adjusted to the highest value.

The temperature requirements of 5.6 are not applicable.

#### I.3.5.1 General

Addition:

For **battery** operated tools, the tests are conducted with the lightest **battery** in accordance with K.8.14.2 e) 2) of Part 1 that has sufficient capacity to operate the tool with the simulated **mixer basket** in accordance with Figure I.102 and Figure I.103 at no-load for at least 25 min.



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The last three columns display the 30, 45 & 60-DAY PR (Public Review) END dates

ISSUE	SUBMIT START	*SUBMIT END 5 PM	SA PUBLISHED	30-DAY PR END	45-DAY PR END	60-DAY PR END
01	12/16/2025	12/22/2025	<b>Jan 2</b>	2/1/2026	2/16/2026	3/3/2026
02	12/23/2025	12/29/2025	<b>Jan 9</b>	2/8/2026	2/23/2026	3/10/2026
03	12/30/2025	1/5/2026	<b>Jan 16</b>	2/15/2026	3/2/2026	3/17/2026
04	1/6/2026	1/12/2026	<b>Jan 23</b>	2/22/2026	3/9/2026	3/24/2026
05	1/13/2026	1/19/2026	<b>Jan 30</b>	3/1/2026	3/16/2026	3/31/2026
06	1/20/2026	1/26/2026	<b>Feb 6</b>	3/8/2026	3/23/2026	4/7/2026
07	1/27/2026	2/2/2026	<b>Feb 13</b>	3/15/2026	3/30/2026	4/14/2026
08	2/3/2026	2/9/2026	<b>Feb 20</b>	3/22/2026	4/6/2026	4/21/2026
09	2/10/2026	2/16/2026	<b>Feb 27</b>	3/29/2026	4/13/2026	4/28/2026
10	2/17/2026	2/23/2026	<b>Mar 6</b>	4/5/2026	4/20/2026	5/5/2026
11	2/24/2026	3/2/2026	<b>Mar 13</b>	4/12/2026	4/27/2026	5/12/2026
12	3/3/2026	3/9/2026	<b>Mar 20</b>	4/19/2026	5/4/2026	5/19/2026
13	3/10/2026	3/16/2026	<b>Mar 27</b>	4/26/2026	5/11/2026	5/26/2026
14	3/17/2026	3/23/2026	<b>Apr 3</b>	5/3/2026	5/18/2026	6/2/2026
15	3/24/2026	3/30/2026	<b>Apr 10</b>	5/10/2026	5/25/2026	6/9/2026
16	3/31/2026	4/6/2026	<b>Apr 17</b>	5/17/2026	6/1/2026	6/16/2026
17	4/7/2026	4/13/2026	<b>Apr 24</b>	5/24/2026	6/8/2026	6/23/2026
18	4/14/2026	4/20/2026	<b>May 1</b>	5/31/2026	6/15/2026	6/30/2026
19	4/21/2026	4/27/2026	<b>May 8</b>	6/7/2026	6/22/2026	7/7/2026
20	4/28/2026	5/4/2026	<b>May 15</b>	6/14/2026	6/29/2026	7/14/2026
21	5/5/2026	5/11/2026	<b>May 22</b>	6/21/2026	7/6/2026	7/21/2026
22	5/12/2026	5/18/2026	<b>May 29</b>	6/28/2026	7/13/2026	7/28/2026
23	5/19/2026	5/25/2026	<b>Jun 5</b>	7/5/2026	7/20/2026	8/4/2026
24	5/26/2026	6/1/2026	<b>Jun 12</b>	7/12/2026	7/27/2026	8/11/2026
25	6/2/2026	6/8/2026	<b>Jun 19</b>	7/19/2026	8/3/2026	8/18/2026
26	6/9/2026	6/15/2026	<b>Jun 26</b>	7/26/2026	8/10/2026	8/25/2026
27	6/16/2026	6/22/2026	<b>Jul 3</b>	8/2/2026	8/17/2026	9/1/2026
28	6/23/2026	6/29/2026	<b>Jul 10</b>	8/9/2026	8/24/2026	9/8/2026
29	6/30/2026	7/6/2026	<b>Jul 17</b>	8/16/2026	8/31/2026	9/15/2026



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30	7/7/2026	7/13/2026	<b>Jul 24</b>	8/23/2026	9/7/2026	9/22/2026
31	7/14/2026	7/20/2026	<b>Jul 31</b>	8/30/2026	9/14/2026	9/29/2026
32	7/21/2026	7/27/2026	<b>Aug 7</b>	9/6/2026	9/21/2026	10/6/2026
33	7/28/2026	8/3/2026	<b>Aug 14</b>	9/13/2026	9/28/2026	10/13/2026
34	8/4/2026	8/10/2026	<b>Aug 21</b>	9/20/2026	10/5/2026	10/20/2026
35	8/11/2026	8/17/2026	<b>Aug 28</b>	9/27/2026	10/12/2026	10/27/2026
36	8/18/2026	8/24/2026	<b>Sep 4</b>	10/4/2026	10/19/2026	11/3/2026
37	8/25/2026	8/31/2026	<b>Sep 11</b>	10/11/2026	10/26/2026	11/10/2026
38	9/1/2026	9/7/2026	<b>Sep 18</b>	10/18/2026	11/2/2026	11/17/2026
39	9/8/2026	9/14/2026	<b>Sep 25</b>	10/25/2026	11/9/2026	11/24/2026
40	9/15/2026	9/21/2026	<b>Oct 2</b>	11/1/2026	11/16/2026	12/1/2026
41	9/22/2026	9/28/2026	<b>Oct 9</b>	11/8/2026	11/23/2026	12/8/2026
42	9/29/2026	10/5/2026	<b>Oct 16</b>	11/15/2026	11/30/2026	12/15/2026
43	10/6/2026	10/12/2026	<b>Oct 23</b>	11/22/2026	12/7/2026	12/22/2026
44	10/13/2026	10/19/2026	<b>Oct 30</b>	11/29/2026	12/14/2026	12/29/2026
45	10/20/2026	10/26/2026	<b>Nov 6</b>	12/6/2026	12/21/2026	1/5/2027
46	10/27/2026	11/2/2026	<b>Nov 13</b>	12/13/2026	12/28/2026	1/12/2027
47	11/3/2026	11/9/2026	<b>Nov 20</b>	12/20/2026	1/4/2027	1/19/2027
48	11/10/2026	11/16/2026	<b>Nov 27</b>	12/27/2026	1/11/2027	1/26/2027
49	11/17/2026	11/23/2026	<b>Dec 4</b>	1/3/2027	1/18/2027	2/2/2027
50	11/24/2026	11/30/2026	<b>Dec 11</b>	1/10/2027	1/25/2027	2/9/2027
51	12/1/2026	12/7/2026	<b>Dec 18</b>	1/17/2027	2/1/2027	2/16/2027
52	12/8/2026	12/14/2026	<b>Dec 25</b>	1/24/2027	2/8/2027	2/23/2027