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American National Standards

Call for comment on proposals listed

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. Fax: 212-840-2298; e-mail: psa@ansi.org

* Standard for consumer products

Comment Deadline: September 27, 2015

AISI (American Iron and Steel Institute)

Revision

BSR/AISI S220-201x, North American Standard for Cold-Formed Steel Framing - Nonstructural Members (revision of ANSI/AISI S220-2011)

AISI S220 is used for design and installation of cold-formed steel nonstructural members in buildings.

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

Send comments (with copy to psa@ansi.org) to: Helen Chen, (202) 452-7100, Hchen@steel.org

AISI (American Iron and Steel Institute)

Revision

BSR/AISI S240-201x, North American Standard for Cold-Formed Steel Structural Framing (revision, redesignation and consolidation of ANSI/AISI S200-2007, ANSI/AISI S210-2007, ANSI/AISI S211-2007, ANSI/AISI S212-2007, ANSI/AISI S213-2007, and ANSI/AISI S214-2007)

The American Iron and Steel Institute's (AISI's) Committee on Framing Standards (COFS) will develop this standard to address requirements for floor, wall and roof systems used in building construction with cold-formed steel structural framing. This standard will apply to the design and installation of cold-formed steel light-frame construction applications. Elements not specifically addressed by this standard shall be constructed in accordance with applicable building code requirements.

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

Send comments (with copy to psa@ansi.org) to: Helen Chen, (202) 452-7100, Hchen@steel.org

ASME (American Society of Mechanical Engineers)

Revision

BSR/ASME AG-1-201x, Code on Nuclear Air and Gas Treatment (revision of ANSI/ASME AG-1-2012)

Provide requirements for the performance, design, construction, acceptance testing, and quality assurance of equipment used as components in nuclear safety-related air- and gas-treatment systems in nuclear facilities.

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

Send comments (with copy to psa@ansi.org) to: Oliver Martinez, (212) 591-7005, martinezo@asme.org

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 325-201x, Standard for Safety for Door, Drapery, Gate, Louver, and Window Operators and Systems (revision of ANSI/UL 325-2015)

(1) Editorial corrections for Section 32.2, Secondary Entrapment Protection for Residential Garage Door Operators; (2) Revision to door operator installation instructions, 58.4 and 58.6; (3) Revision of markings and instructions for commercial door operator; (4) Proposed changes to commercial door operator rating markings to be consistent with other markings required by UL 325.

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

Send comments (with copy to psa@ansi.org) to: Amy Walker, (847) 664-2023, Amy.K.Walker@ul.com

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 758-201X, Standard for Safety for Appliance Wiring Material (Proposal Dated 8/28/15) (revision of ANSI/UL 758-2015)

Addition of composite conductor; New 5.2.2, 5.5.3, 5.6.4, 5.7.11; Revised 5.6.2 and 51.2.

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

Send comments (with copy to psa@ansi.org) to: Linda Phinney, (408) 754-6684, Linda.L.Phinney@ul.com

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 858-201X, Standard for Safety for Household Electric Ranges (revision of ANSI/UL 858-2013)

(1) Change to polymeric materials specification and Nichrome wire evaluation.

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

Send comments (with copy to psa@ansi.org) to: Amy Walker, (847) 664-2023, Amy.K.Walker@ul.com

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 913-201X, Standard for Safety for Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, III, Division 1, Hazardous (Classified) Locations (Ballot dated 08-28-15) (revision of ANSI/UL 913-2015)

Revisions to clarify the issue of temperature classification for Class II and Class III intrinsically safe apparatus.

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

Send comments (with copy to psa@ansi.org) to: Vickie Hinton, Vickie.T.Hinton@ul.com

Comment Deadline: October 12, 2015

AAMI (Association for the Advancement of Medical Instrumentation)

New National Adoption

BSR/AAMI/ISO 14708-3-201x, Implants for surgery - Active implantable medical devices - Part 3: Implantable neurostimulators (identical national adoption of ISO 14708-3, Ed. 2 (in development) and revision of ANSI/AAMI/ISO 14708-3-2008 (R2011))

Specifies particular requirements for active implantable medical devices intended for electrical stimulation of the central or peripheral nervous system, to provide basic assurance of safety for both patients and users. It amends and supplements ISO 14708-1:2014.

Single copy price: Free

Order from: https://standards.aami.org/kws/groups/PUBLIC_REV/download/6831

Send comments (with copy to psa@ansi.org) to: Jennifer Moyer, (703) 253-8274, jmoyer@aami.org

AAMI (Association for the Advancement of Medical Instrumentation)

Reaffirmation

BSR/AAMI/ISO 14160-2011 (R201x), Sterilization of health care products -- Liquid chemical sterilizing agents for single-use medical devices utilizing animal tissues and their derivatives -- Requirements for characterization, development, validation and routine control of a sterilization process for medical devices (reaffirmation of ANSI/AAMI/ISO 14160-2011)

Specifies requirements for the development, validation, process control and monitoring of the sterilization, by the use of liquid chemical sterilants, of single-use medical devices comprising, in whole or in part, materials of animal origin.

Single copy price: \$195.00

Obtain an electronic copy from: www.aami.org

Order from: Amanda Benedict, (703) 253-8284, abenedict@aami.org

Send comments (with copy to psa@ansi.org) to: Same

AAMI (Association for the Advancement of Medical Instrumentation)

Reaffirmation

BSR/AAMI/ISO 20857-2010 (R201x), Sterilization of health care products - Dry heat: Requirements for the development, validation and routine control of a sterilization process for medical devices (reaffirmation of ANSI/AAMI/ISO 20857-2010)

Specifies requirements for the development, validation and routine control of an industrial dry heat sterilization process for medical devices. Dry heat sterilization processes covered by this standard include but are not limited to forced air cycles and convection cycles. Although this standard primarily addresses dry heat sterilization, it also covers depyrogenation processes. The standard excludes processes that utilize infrared or microwaves as the heating medium.

Single copy price: \$195.00

Obtain an electronic copy from: www.aami.org

Order from: Amanda Benedict, (703) 253-8284, abenedict@aami.org

Send comments (with copy to psa@ansi.org) to: Same

AAMI (Association for the Advancement of Medical Instrumentation)

Reaffirmation

BSR/AAMI/ISO 22442-3-2011 (R201x), Medical devices utilizing animal tissues and their derivatives - Part 3: Validation of the elimination and/or inactivation of viruses and transmissible spongiform encephalopathy (TSE) agents (reaffirmation of ANSI/AAMI/ISO 22442-3-2007 (R2011))

Specifies requirements for the validation of the elimination and/or inactivation of viruses and TSE agents during the manufacture of medical devices (excluding in-vitro diagnostic medical devices) utilizing animal tissue or products derived from animal tissue, which are non-viable or have been rendered non-viable. Does not cover other transmissible and non-transmissible agents.

Single copy price: \$135.00

Obtain an electronic copy from: www.aami.org

Order from: Amanda Benedict, (703) 253-8284, abenedict@aami.org

Send comments (with copy to psa@ansi.org) to: Same

API (American Petroleum Institute)

New Standard

BSR/API Standard 537-201x, Flare Details for Petroleum, Petrochemical and Natural Gas Industries (new standard)

Specifies requirements and gives guidance for the selection, design, specification, operation and maintenance of flares and related combustion and mechanical components used in pressure-relieving and vapor-depressurizing systems for petroleum, petrochemical, and natural gas industries. This standard is primarily for onshore facilities, but guidance for offshore applications is included. Annexes A, B, C, and D provide further guidance for the selection, specification and mechanical details for flares, and on the design, operation, and maintenance of flare combustion and related equipment. Annex E explains how to use the data sheets provided in Annex F.

Single copy price: \$25.00

Obtain an electronic copy from: From this URL: <http://mycommittees.api.org/standards/cre/schte/default.aspx>

Order from: Nathaniel Wall, (202) 682-8157, walln@api.org

Send comments (with copy to psa@ansi.org) to: Same

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

Reaffirmation

BSR/ASHRAE Standard 25-2001 (R201x), Methods of Testing Forced Convection and Natural Convection Air Coolers for Refrigeration (reaffirmation of ANSI/ASHRAE Standard 25-2001 (R2006))

This standard prescribes methods of testing the cooling capacities and airflow rates of forced convection and natural convection air coolers for refrigeration.

Single copy price: \$35.00

Obtain an electronic copy from: Free download at <http://www.ashrae.org/standards-research--technology/public-review-drafts>

Order from: standards.section@ashrae.org

Send comments (with copy to psa@ansi.org) to: Online Comment Database at <http://www.ashrae.org/standards-research--technology/public-review-drafts>

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

Reaffirmation

BSR/ASHRAE Standard 164.1-2012 (R201x), Method of Test for Residential Central-System Humidifiers (reaffirmation of ANSI/ASHRAE Standard 164.1-2012)

This standard establishes a uniform method of laboratory testing for rating central-system residential humidifiers.

Single copy price: \$35.00

Obtain an electronic copy from: Free download at <http://www.ashrae.org/standards-research--technology/public-review-drafts>

Order from: standards.section@ashrae.org

Send comments (with copy to psa@ansi.org) to: Online Comment Database at <http://www.ashrae.org/standards-research--technology/public-review-drafts>

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

Reaffirmation

BSR/ASHRAE Standard 164.2-2012 (R201X), Method of Test for Self-Contained Residential Humidifiers (reaffirmation of ANSI/ASHRAE Standard 164.2-2012)

This standard establishes a method of test for the humidification rate and power input of self-contained humidifiers for whole house applications.

Single copy price: \$35.00

Obtain an electronic copy from: Free download at <http://www.ashrae.org/standards-research--technology/public-review-drafts>

Order from: standards.section@ashrae.org

Send comments (with copy to psa@ansi.org) to: Online Comment Database at <http://www.ashrae.org/standards-research--technology/public-review-drafts>

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

Reaffirmation

BSR/ASHRAE Standard 173-2012 (R201X), Method of Test to Determine the Performance of Halocarbon Refrigerant Leak Detectors (reaffirmation of ANSI/ASHRAE Standard 173-2012)

The practices and procedures of this standard cover the testing of refrigerant leak detectors intended for use in the leak testing or refrigerating, air-conditioning, and heat-pump systems and their components.

Single copy price: \$35.00

Obtain an electronic copy from: Free download at <http://www.ashrae.org/standards-research--technology/public-review-drafts>

Order from: standards.section@ashrae.org

Send comments (with copy to psa@ansi.org) to: Online Comment Database at <http://www.ashrae.org/standards-research--technology/public-review-drafts>

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

Revision

BSR/ASHRAE Standard 125-201X, Method of Testing Thermal Energy Meters for Liquid Streams in HVAC Systems (revision of ANSI/ASHRAE Standard 125-1992 (R2011))

This standard establishes a method of test for the humidification rate and power input of self-contained humidifiers for whole house applications.

Single copy price: \$35.00

Obtain an electronic copy from: Free download at <http://www.ashrae.org/standards-research--technology/public-review-drafts>

Order from: standards.section@ashrae.org

Send comments (with copy to psa@ansi.org) to: Online Comment Database at <http://www.ashrae.org/standards-research--technology/public-review-drafts>

ATIS (Alliance for Telecommunications Industry Solutions)

Revision

BSR/ATIS 0300212-201x, Enhanced Telecommunications Charge Card Physical Characteristics and Numbering Structure (revision of ANSI/ATIS 0300212-2010)

This standard applies to enhanced telecommunication charge cards issued within North America. The determination of eligibility to issue telecommunication charge cards is beyond the scope of this standard. This standard defines the major characteristics of enhanced telecommunication charge cards usable for international, domestic, inter-industry, and intra-industry applications in the interchange environment.

Single copy price: \$30.00

Obtain an electronic copy from: kconn@atis.org

Order from: Kerriane Conn, (202) 434-8841, kconn@atis.org

Send comments (with copy to psa@ansi.org) to: Same

ATIS (Alliance for Telecommunications Industry Solutions)

Revision

BSR/ATIS 0300230-201x, Telecommunications - Charge Card and Billed Number Screening Validation Message Components (revision of ANSI/ATIS 0300230-2010)

This standard applies to telecommunications charge card (aka "calling card") and billed number screening validation messages for use within the North American telecommunications interchange environment. The use of validation systems and networks also involves appropriate agreements between card issuers and service providers.

Single copy price: \$60.00

Obtain an electronic copy from: kconn@atis.org

Order from: Kerriane Conn, (202) 434-8841, kconn@atis.org

Send comments (with copy to psa@ansi.org) to: Same

AWWA (American Water Works Association)

Revision

BSR/AWWA B100-201x, Granular Filter Material (revision of ANSI/AWWA B100-2009)

This standard describes gravel, high-density gravel, silica sand, high-density media, anthracite filter materials, and the placement of the materials in filters for water supply service application.

Single copy price: \$20.00

Obtain an electronic copy from: vdavid@awwa.org

Order from: Paul Olson, (303) 347-6178, polson@awwa.org; vdavid@awwa.org

Send comments (with copy to psa@ansi.org) to: Same

NEMA (ASC C78) (National Electrical Manufacturers Association)

Reaffirmation

BSR C78.LL3-2003 (R201X), Procedures for High Intensity Discharge Lamp Sample Preparation and the Toxicity Characteristic Leaching Procedure (reaffirmation of ANSI C78.LL3-2003 (R2008))

Procedures for preparation of high-intensity discharge (HID) lamps for the Toxicity Characteristic Leaching Procedure (TCLP) are presented below. These procedures are intended to supplement the TCLP by supplying specific instructions for size reduction and for other critical procedures specific to the testing of HID lamps. This standard specifically covers high-intensity discharge lamp types. Additional standards are in preparation or have been prepared for fluorescent lamps and for other types that require specific sample preparation instructions because of their design or construction. The protocol is grouped to include general requirements, lamp preparation, leaching, filtration, storage, and leaching vessel reuse.

Single copy price: \$50.00

Order from: Michael.Erbesfeld@nema.org

Send comments (with copy to psa@ansi.org) to: Same

NEMA (ASC C78) (National Electrical Manufacturers Association)

Reaffirmation

BSR C78.5-2003 (R201X), Specifications for Performance of Self-ballasted Compact Fluorescent Lamps (reaffirmation of ANSI C78.5-2003 (R2008))

This standard specifies the performance requirements together with the test methods and conditions required to show compliance of self-ballasted compact fluorescent lamps up to 60 watts that are intended for domestic and similar general lighting purposes. Globe and reflector types are excluded. Such lamps shall have a rated input voltage of 120 or 127 volts at 60 Hz and an Edison screw base.

Single copy price: \$50.00

Order from: Michael.Erbesfeld@nema.org

Send comments (with copy to psa@ansi.org) to: Same

NEMA (ASC C78) (National Electrical Manufacturers Association)

Reaffirmation

BSR C78.LL1256-2003 (R201x), Procedures for Fluorescent Lamp Sample Preparation and the Toxicity Characteristic Leaching Procedure (reaffirmation of ANSI C78.LL1256-2003 (R2008))

Procedures for preparation of fluorescent lamps for Toxicity Characteristic Leaching Procedure (TCLP) are presented below. These guidelines are intended to supplement the TCLP by supplying specific instructions for size reduction of lamps including integral electronic compact, pin-based compact, linear and U-shaped fluorescent lamps. This standard specifically covers integral electronic compact, pin-based compact, linear and U-shaped fluorescent lamp types. Additional standards have been prepared and are in preparation for high intensity discharge lamps, and other lamp types that require specific sample preparation instructions because of their design or construction. It consolidates and supercedes the following 4 NEMA standards: NEMA LL 1-1997, Procedures for Linear Fluorescent Lamp Sample Preparation and the TCLP; NEMA LL 2-1997, Procedures for Pin-Based Compact Fluorescent Lamp Sample Preparation and the TCLP; NEMA LL 5-1999, Procedures for U-shaped Fluorescent Lamp Sample Preparation and the TCLP; and NEMA LL 6-1996, Procedures for Integral Electronic Compact Fluorescent Lamp Sample Preparation and the TCLP. The protocol is grouped to include general requirements, safety considerations, lamp preparation, leaching, filtration, storage, and leaching vessel reuse.

Single copy price: \$90.00

Order from: Michael.Erbesfeld@nema.org

Send comments (with copy to psa@ansi.org) to: Same

NEMA (ASC C78) (National Electrical Manufacturers Association)

Reaffirmation

BSR C78.1460-2004 (R201X), Single-Ended Tungsten-Halogen Lamps GZ9.5 Base, T6 Bulb, 36.5mm LCL, 76.2mm MOL with Proximity Reflector (reaffirmation of ANSI C78.1460-2004 (R2008))

This standard defines the dimensional, physical, and other characteristics to assist in the proper application of tungsten-halogen lamps with GZ9.5 bases, T6 (T19) bulbs at 36.5 mm LCL and 76.2 mm maximum overall length with internal proximity reflectors. Lamps of various wattage and voltage designs are included. The grouping of lamps in this standard is based on general physical characteristics. It does not imply that the lamps listed are interchangeable with each other in a particular application. Lamps included in this standard are intended for photographic projection applications.

Single copy price: \$50.00

Order from: Michael.Erbesfeld@nema.org

Send comments (with copy to psa@ansi.org) to: Same

NEMA (ASC C82) (National Electrical Manufacturers Association)

Reaffirmation

BSR C82.1-2004 (R201X), Lamp Ballast - Line Frequency Fluorescent Lamp Ballast (reaffirmation of ANSI C82.1-2004 (R2008))

This standard is intended to cover ballasts which have rated open circuit voltages of 2000 volts or less and are intended to operate lamps at a frequency of 50 Hz or 60 Hz. This comprises ballasts for hot cathode fluorescent lamps, either switch start (preheat start), rapid start (continuously heated cathodes), modified rapid start (cathode cutout), or instant start, and also ballasts for cold cathode fluorescent lamps, used primarily for lighting purposes, which come within this voltage range. The ballast and lamp combinations covered by this specification normally are intended for use in room ambient temperatures of 10Â°C to 40Â°C. At ambient temperatures outside this range, certain special operating characteristics may be required.

Single copy price: \$85.00

Order from: Michael.Erbesfeld@nema.org

Send comments (with copy to psa@ansi.org) to: Same

SCTE (Society of Cable Telecommunications Engineers)

Revision

BSR/SCTE 06-201x, Composite Distortion Measurements (CSO & CTB) (revision of ANSI/SCTE 06-2009)

This document describes a test procedure for the laboratory and production measurement of composite distortion products. There are two types of composite distortions considered: Composite Second Order and Composite Triple Beat. In order to obtain a stable, repeatable measurement, this test procedure describes testing performed with continuous wave (CW) carriers.

Single copy price: \$50.00

Obtain an electronic copy from: standards@scte.org

Order from: Global Engineering Documents, (800) 854-7179, www.global.ih.com

Send comments (with copy to psa@ansi.org) to: standards@scte.org

TAPPI (Technical Association of the Pulp and Paper Industry)

New Standard

BSR/TAPPI T 509 om-201x, Hydrogen ion concentration (pH) of paper extracts (cold extraction method) (new standard)

This method measures the hydrogen ion concentration of a cold aqueous extract (unfiltered) of paper, expressed in terms of pH value.

Single copy price: Free

Obtain an electronic copy from: standards@tappi.org

Order from: Laurence Womack, (770) 209-7277, standards@tappi.org

Send comments (with copy to psa@ansi.org) to: Same

TAPPI (Technical Association of the Pulp and Paper Industry)

Revision

BSR/TAPPI T 1014 om-15-201x, Moisture sensitivity of fiber glass mats (revision of ANSI/TAPPI T 1014 om-2010)

This test method covers the determination of the moisture sensitivity of fiber glass mat binder systems.

Single copy price: Free

Obtain an electronic copy from: standards@tappi.org

Order from: Laurence Womack, (770) 209-7277, standards@tappi.org

Send comments (with copy to psa@ansi.org) to: Same

UL (Underwriters Laboratories, Inc.)

Reaffirmation

BSR UL 1177- 2011 (R201x), Standard for Safety for Buoyant Vests (reaffirmation of ANSI/UL 1177-2011)

UL proposes a reaffirmation of ANSI approval for UL 1177.

Single copy price: Contact comm2000 for pricing and delivery options

Obtain an electronic copy from: <http://www.comm-2000.com>

Order from: comm2000

Send comments (with copy to psa@ansi.org) to: Betty Holthouser, (919) 549-1896, betty.c.holthouser@ul.com

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 1767-201x, Standard for Safety for Early-Suppression Fast-Response Sprinklers (revision of ANSI/UL 1767-2013)

The following changes in the requirements for UL 1767, are being proposed:

(1) Revisions to clarify requirements and update testing details; (2) ESFR sprinklers having a RTI greater than 36 (m - s)^{1/2}; (3) Revised heat resistance test requirements; and (4) Sprinkler test orientation for salt spray exposure.

Single copy price: Contact comm2000 for pricing and delivery options

Obtain an electronic copy from: <http://www.comm-2000.com>

Order from: comm2000

Send comments (with copy to psa@ansi.org) to: Raymond Suga, (631) 546-2593, raymond.m.suga@ul.com

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 2594-201X, Standard for Safety for Electric Vehicle Supply Equipment (revision of ANSI/UL 2594-2013a)

(1) Output cable; (2) Definition for EVSE; (3) Mold stress-relief distortion test; (4) State voltages; (5) Smart grid capability; (6) 50 Hz ratings; (7) Wireless charging; (8) All vehicle technologies; (9) Definitions; (10) Description of products; (11) Cord length; (12) Section 28; (13) Product designations; (14) Commercial garages; (15) Editorial corrections; (16) Deletion of Section 70; (17) Motorcycles; (18) Surface temperatures; (19) Overcurrent protective devices; (20) Additional reference to CSA C22.2 No. 0; (21) Fastening in place; (22) Classified areas; (23) Nonlocking plug types; and (24) Automatic de-energization of cable.

Single copy price: Contact comm2000 for pricing and delivery options

Obtain an electronic copy from: <http://www.comm-2000.com>

Order from: comm2000

Send comments (with copy to psa@ansi.org) to: Patricia Sena, (919) 549-1636, patricia.a.sena@ul.com

Comment Deadline: October 27, 2015

ASME (American Society of Mechanical Engineers)

Revision

BSR/ASME B30.22-20xx, Articulating Boom Cranes (revision of ANSI/ASME B30.22-2010)

B30.22 includes cranes that are articulated by hydraulic cylinders and powered by internal combustion engines or electric motors and that are mounted on a vehicle or stationary installation. Articulating cranes equipped with a load hoist mechanism to broaden their versatility are covered by this Volume.

Single copy price: Free

Order from: Mayra Santiago, ASME; ansibox@asme.org

Send comments (with copy to psa@ansi.org) to: Kathryn Hyam, (212) 591-8521, hyamk@asme.org

ASME (American Society of Mechanical Engineers)

Revision

BSR/ASME PTC 19.3TW-201x, Thermowells (revision of ANSI/ASME PTC 19.3-2010)

This Standard applies to thermowells machined from bar stock and includes those welded to or threaded into a flange as well as those welded into a process vessel or pipe with or without a weld adaptor.

Single copy price: Free

Order from: Mayra Santiago, ASME; ansibox@asme.org

Send comments (with copy to psa@ansi.org) to: Angel L. Guzman, ansibox@asme.org

ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 2382-36:2013[2015], Information technology - Vocabulary - Part 36: Learning, education and training (identical national adoption of and revision of INCITS/ISO/IEC 2382-36:2008 [2010])

This standard is intended to facilitate international communication in information technology for learning, education, and training. It presents, in two languages, terms and definitions of selected concepts relevant to the field of information technology for learning, education, and training and identifies relationships among the entries.

Single copy price: \$86.50

Order from: <http://webstore.ansi.org/>

Send comments (with copy to psa@ansi.org) to: comments@standards.incits.org

ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 2382:2015 [2015], Information technology - Vocabulary (identical national adoption of and revision of INCITS/ISO/IEC 2382-5:1999 [R2014])

Terms and definitions.

Single copy price: Free

Order from: <http://webstore.ansi.org/>

Send comments (with copy to psa@ansi.org) to: comments@standards.incits.org

ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 335-2000 [R2015], Information technology - Small Computer System Interface (SCSI-3) Stream Commands (SSC) (reaffirmation of INCITS 335:2000 [R2010])

This standard defines the command set extensions to facilitate operation of SCSI stream devices. The clauses of this standard, implemented in conjunction with the applicable clauses of the SCSI Primary Commands – 2 standard, fully specify the standard command set for the SCSI stream device class. The objectives of the SCSI-3 Stream Commands standard (SSC) is to provide the following:

- (a) Permit an application client to communicate over a SCSI service delivery subsystem, with a logical unit that declares itself to be a sequential access device or printer device in the device type field of the INQUIRY command response data;
- (b) define commands unique to each type of SCSI stream device;
- (c) define commands to manage the operation of SCSI stream devices; and
- (d) define the differences between the types of SCSI stream devices.

Single copy price: \$60.00

Order from: <http://webstore.ansi.org/>

Send comments (with copy to psa@ansi.org) to: comments@standards.incits.org

ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 340-2000 [R2015], Information technology - AT Attachment with Packet Interface - 5 (reaffirmation of INCITS 340:2000 [R2010])

This standard specifies the AT Attachment Interface between host systems and storage devices. It provides a common attachment interface for systems manufacturers, system integrators, software suppliers, and suppliers of intelligent storage devices. The application environment for the AT Attachment Interface is any host system that has storage devices contained within the processor enclosure. This standard defines the connectors and cables for physical interconnection between host and storage device, as well as the electrical and logical characteristics of the interconnecting signals. It also defines the operational registers within the storage device, and the commands and protocols for the operation of the storage device. This standard maintains a high degree of compatibility with the AT Attachment with Packet Interface Extensions standard (ATA/ATAPI-4), INCITS 317, and while providing additional functions, is not intended to require changes to presently installed devices or existing software.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 403-2005 [R2015], Information technology - Automation/Drive Interface - Commands (ADC) (reaffirmation of INCITS 403:2005 [R2010])

This standard defines the model and command set extensions to facilitate operation of automation/drive interface devices. The clauses of this standard, implemented in conjunction with the applicable clauses of SPC-2 and SPC-3, fully specify the standard command set for automation/drive interface devices. The objective of this standard is to provide the following:

- (a) Permit an application client to communicate over a SCSI service delivery subsystem, with a logical unit that declares itself to be an automation/drive interface device in the device type field of the INQUIRY command response data (see SPC-3);
- (b) define commands unique to the automation/drive interface device type; and
- (c) define commands and parameters to manage the operation of the automation/drive interface device type.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 406-2005 [R2015], Information technology - Automation/Drive Interface - Transport Protocol (ADT) (reaffirmation of INCITS 406:2005 [R2010])

This standard specifies the transport requirements for the SCSI Automation/Drive interface device. This standard permits the SCSI Automation/Drive interface devices to attach to application clients and provides the definitions for their use.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 407-2005 [R2015], Information technology - BIOS Enhanced Disk Drive Services - 3 (EDD-3) (reaffirmation of INCITS 407:2005 [R2010])

This standard defines solutions to the following INT 13h BIOS-specific issues: The INT 13h interface has a limit of 528 megabytes (MB); The INT 13h interface allows more than two devices to be attached to a system but has no consistent method for storing the additional configuration parameters; The INT 13h interface does not define CHS-independent methods for addressing devices. The methods defined by the INT 13h interface are not device-geometry independent. A different method of address representation and operation is needed; Methods of data transfer continue to be added to ATA devices. Capabilities such as, DMA modes, multisector data transfers and PIO modes are not reported to the operating system via the INT 13h interface; Systems require more than two storage devices, and with this requirement comes the requirement to assign the order in which the devices are to be accessed. The INT 13 interface does not provide this capability; The INT 13h interface does not make location and configuration information available to operating systems that do not use the BIOS to access mass storage devices; The INT 13h interface does not provide a linkage between the BIOS device assignments on the operating system device letter assignments; The INT 13h interface does not use data structures that apply to both IA-32 and IA-64 compatible architecture systems.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 452-2009/AM 1:2010 [R2015], Information technology - AT Attachment-8 ATA/ATAPI Command Set (ATA8-ACS) - Amendment 1 (reaffirmation of INCITS 452-2009 AM 1-2010)

The project corrects defects in INCITS 452.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 457-2010 [R2015], Information technology - Serial Attached SCSI - 2 (SAS-2) (reaffirmation of INCITS 457-2010)

The SCSI family of standards provides for many different transport protocols that define the rules for exchanging information between different SCSI devices. This standard defines the rules for exchanging information between SCSI devices using a serial interconnect. Other SCSI transport protocol standards define the rules for exchanging information between SCSI devices using other interconnects.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 461-2010 [R2015], Information technology - Fibre Channel - Switch Fabric - 5 (FC-SW-5) (reaffirmation of INCITS 461-2010)

This standard describes the operation and interaction of Fibre Channel Switches.

This standard includes:

- (a) E_Port Operation and Fabric Configuration;
- (b) Path selection (FSPF);
- (c) Bridge Port (B_Port) Operation;
- (d) Distributed server interaction and communication;
- (e) Exchange of information between Switches to support zoning;
- (f) Distribution of Event Notifications between Switches;
- (g) Virtual Fabrics Switch Support;
- (h) Enhanced Commit Service; and
- (i) Virtual channels.

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Reaffirmation

INCITS 462-2010 [R2015], Information technology - Fibre Channel - Backbone - 5 (FC-BB-5) (reaffirmation of INCITS 462-2010)

This standard consists of distinct Fibre Channel mappings resulting in the following models:

- FC-BB_IP (FC over TCP/IP backbone network);
- Transparent FC-BB consisting of:
 - FC-BB_GFPT (FC over SONET/SDH/OTN/PDH backbone network using GFPT adaptation);
 - FC-BB_PW (FC over MPLS network using PW adaptation); and
 - FC-BB_E (FC over Ethernet).

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Reaffirmation

INCITS 463-2010 [R2015], Information technology - Fibre Channel - Generic Services - 6 (FC-GS-6) (reaffirmation of INCITS 463-2010)

This standard describes in detail the services accessed by well-known addresses defined in FC-FS-3. Generic Services described in this document are:

- (a) Directory Service;
- (b) Management Service; and
- (c) Event Service.

In addition, to the aforementioned Generic Services, the Common Transport (CT) protocol is described. The Common Transport service provides a common FC-4 for use by Generic Services. The following commands, parameter data, and features defined in previous versions of this standard are made obsolete by this standard:

- (a) RFD_ID (Register FC-4 Descriptor);
- (b) GFD_ID (Get FC-4 Descriptors);
- (c) RPN_ID (Register Port Name);
- (d) RPT_ID (Register Port Type)
- (e) Third-Party registrations;
- (f) Unsolicited transaction modes;
- (g) Asynchronous transaction mode;
- (h) Alias Server;
- (i) Multicast Server;
- (j) Class 1 and associated functionality, and
- (k) Class 6 and associated functionality.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 464-2010 [R2015], Information technology - Information Management - Extensible Access Method (XAM™) (reaffirmation of INCITS 464-2010)

This part of the XAM™ standard is a normative specification of the general architecture and semantics of the XAM API. It applies to programmers who are generating XAM applications in any programming language. It also applies to storage system vendors who are creating vendor interface modules (VIMs). This document uses an object model to describe syntax in examples; these examples are informative only. It is not a normative specification of the syntax of the XAM interfaces in any language binding. The normative specification of the syntax of the C language binding is defined in the XAM C API Specification [XAM-C-API]. The normative specification of the syntax of the Java language binding is defined in the XAM Java API Specification [XAM-JAVA-API].

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 465-2010 [R2015], Information technology - SCSI/ATA Translation - 2 (SAT-2) (reaffirmation of INCITS 465-2010)

The set of SCSI standards specifies the interfaces, functions, and operations necessary to ensure interoperability between conforming SCSI implementations. This standard is a functional description. Conforming implementations may employ any design technique that does not violate interoperability. This standard defines the protocol requirements of the SCSI/ATA Translation Layer (SATL) to allow conforming SCSI/ATA translating components to interoperate with ATA devices and SCSI application layers.

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Reaffirmation

INCITS 468-2010 [R2015], Information technology - Multi-media Command Set - 6 (MMC-6) (reaffirmation of INCITS 468-2010)

This standard defines a set of SCSI command descriptor blocks that are useful in accessing and controlling devices with a peripheral device type set to 5.

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Reaffirmation

INCITS 471-2010 [R2015], Information technology - USB Attached SCSI (UAS) (reaffirmation of INCITS 471-2010)

This standard describes a SCSI transport protocol (see SAM-4) for USB-2 and USB-3 with the following properties: (a) mechanism to send commands associated with any T10 command standard to a USB device; (b) complies with SCSI Architecture Model - 4 (e.g., autosense and command queuing); and (c) other capabilities.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 83:1995 [R2015], Information Systems - ISO Registration According to ISO 2375 - ANSI Sponsorship Procedures (reaffirmation of INCITS 83:1995 [R2010])

Specifies the procedure to be followed in submitting proposals for character sets for ANSI sponsorship for submission to the ISO Registration Authority for processing in accordance with the ISO procedure for registration.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 442:2010 [R2015], Information Technology - Biometric Identity Assurance Services (BIAS) (reaffirmation of INCITS 442-2010)

BIAS defines biometric services used for identity assurance that are invoked over a services-based framework. It is intended to provide a generic set of biometric and identity-related functions and associated data definitions to allow remote access to biometric services. To allow BIAS to be flexible to the amount and types of biographic and biometric information available to and used by a system, the terms "biographic data" and "biometric data" as used in this standard are very general. The binding of these services to specific frameworks is not included in this project, but will be the subject of separate standards. The first such standard (for a Web services framework) is planned to be developed by OASIS by the BIAS Integration Technical Committee. Although focused on biometrics, this standard will necessarily include support for other related identity assurance mechanisms such as biographic and token capabilities. BIAS is intended to be compatible with and used in conjunction with other biometric standards as described in clause 3. Specification of single-platform biometric functionality (e.g., client-side capture, etc.) is not within the scope of this standard.

Integration of biometric services as part of an authentication service or protocol is not within the scope of this standard; however, it is possible that some of the basic biometric services defined in this standard may be used by such an implementation in the future.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 378:2009/AM 1:2010 [R2015], Information Technology - Finger Minutiae Format for Data Interchange - Amendment 1 (reaffirmation of INCITS 378-2009, AM 1-2010)

Amendment 1 to INCITS 378:2009.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO 5654-1:1984 [R2015], Information processing - Data interchange on 200 mm (8 in) flexible disk cartridges using two-frequency recording at 13 262 ftrpad, 1,9 tpm (48 tpi), on one side - Part 1: Dimensional, physical and magnetic characteristics (reaffirmation of INCITS/ISO 5654-1:1984 [2010])

This Standard Defines dimensional, physical and magnetic characteristics of the 200-mm (8-in) flexible disk cartridges using two-frequency recording at 13 262 ftrpad on one side so as to provide physical interchangeability between data processing systems.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO 6596-1:1985 [R2015], Information processing - Data interchange on 130 mm (5.25 in) flexible disk cartridges using two-frequency recording at 7 958 ftrpad, 1.9 tpm (48 tpi), on one side - Part 1: Dimensional, physical and magnetic characteristics (reaffirmation of INCITS/ISO 6596-1:1985 [2010])

This Standard shows dimensional, physical, and magnetic characteristics of 130-mm (5,25-in) flexible disk cartridges recorded at 7 958 ftrpad on one side using two frequencies so as to provide physical interchangeability between data processing systems. Applicable in conformance with ISO 646, 2022, 4873, 7665.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO 8630-1:1987 [R2015], Information processing - Data interchange on 130 mm (5.25 in) flexible disk cartridges using modified frequency modulation recording at 13 262 ftrpad, on 80 tracks on each side - Part 1: Dimensional, physical and magnetic characteristics (reaffirmation of INCITS/ISO 8630-1:1987 [2010])

This standard defines the dimensional, physical and magnetic characteristics of the cartridge so as to provide physical interchangeability between data processing systems. Provides for full data interchange between data processing systems and provides an alternative method of full data interchange between data processing systems. To be used in compliance with ISO 646; ISO 2022; ISO 4873; ISO 6429; ISO 7665; ISO 9293.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO 19111-2:2009 [R2015], Geographic information - Spatial referencing by coordinates - Part 2: Extension for parametric values (reaffirmation of INCITS/ISO 19111-2:2009 [2010])

This standard specifies the conceptual schema for the description of spatial referencing using parametric values or functions. It applies the schema of ISO 19111 to combine a position referenced by coordinates with a parametric value to form a spatio-parametric coordinate reference system (CRS). The spatio-parametric CRS can optionally be extended to include time. The intended users of ISO 19111-2:2009 are producers and users of environmental information. Parameters which are attributes of spatial locations or features, but which are not involved in their spatial referencing, are not addressed by ISO 19111-2:2009.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO 19125-1:2004 [R2015], Geographic information - Simple feature access - Part 1: Common architecture (reaffirmation of INCITS/ISO 19125-1:2004 [R2010])

This standard establishes a common architecture for geographic information and defines terms to use within the architecture. It also standardizes names and geometric definitions for Types for Geometry. This standard does not place any requirements on how to define the Geometry Types in the internal schema nor does it place any requirements on when or how or who defines the Geometry Types. ISO 19125-1:2004 does not attempt to standardize and does not depend upon any part of the mechanism by which Types are added and maintained.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO 19125-2:2004 [R2015], Geographic information - Simple feature access - Part 2: SQL option (reaffirmation of INCITS/ISO 19125-2:2004 [R2010])

This standard specifies an SQL schema that supports storage, retrieval, query and update of simple geospatial feature collections via the SQL Call Level Interface (SQL/CLI) and establishes an architecture for the implementation of feature tables. It defines terms to use within the architecture. of geographic information and defines a simple feature profile of ISO 19107. In addition, this part of ISO 19125:2004 describes a set of SQL Geometry Types together with SQL functions on those types. The Geometry Types and Functions described represent a profile of ISO 13249-3. It standardizes the names and geometric definitions of the SQL Types for Geometry and the names, signatures and geometric definitions of the SQL Functions for Geometry.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO 19144-1:2009 [R2015], Geographic information - Classification systems - Part 1: Classification system structure (reaffirmation of INCITS/ISO 19144-1:2009 [2010])

This standard establishes the structure of a geographic information classification system, together with the mechanism for defining and registering the classifiers for such a system. It specifies the use of discrete coverages to represent the result of applying the classification system to a particular area and defines the technical structure of a register of classifiers in accordance with ISO 19135.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO 3562:1976 [R2015], Information processing - Interchangeable magnetic single-disk cartridge (top loaded) - Physical and magnetic characteristics (reaffirmation of INCITS/ISO 3562:1976 [2010])

Includes the general, physical and magnetic characteristics for the interchange of magnetic single-disk cartridges (top loaded) in order to facilitate the interchange of data between electronic data processing systems.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO 19106:2004 [R2015], Geographic information - Profiles (reaffirmation of INCITS/ISO 19106:2004 [R2010])

This standard is intended to define the concept of a profile of the ISO geographic information standards developed by ISO/TC 211 and to provide guidance for the creation of such profiles. Only those components of specifications that meet the definition of a profile contained herein can be established and managed through the mechanisms described in this International Standard. These profiles can be standardized internationally using the ISO standardization process. This document also provides guidance for establishing, managing, and standardizing at the national level (or in some other forum).

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Reaffirmation

INCITS/ISO 19110:2005 [R2015], Geographic information - Methodology for feature cataloguing (reaffirmation of INCITS/ISO 19110:2005 [R2010])

This standard defines the methodology for cataloguing feature types and specifies how the classification of feature types is organized into a feature catalogue and presented to the users of a set of geographic data. ISO 19110:2005 is applicable to creating catalogues of feature types in previously uncatalogued domains and to revising existing feature catalogues to comply with standard practice. ISO 19110:2005 applies to the cataloguing of feature types that are represented in digital form. Its principles can be extended to the cataloguing of other forms of geographic data. This standard is applicable to the definition of geographic features at the type level. ISO 19110:2005 is not applicable to the representation of individual instances of each type and excludes spatial, temporal, and portrayal schemas as specified in ISO 19107, ISO 19108, and the future ISO 19117, respectively. It also excludes collection criteria for feature instances. This standard may be used as a basis for defining the universe of discourse being modelled in a particular application, or to standardize general aspects of real world features being modelled in more than one application.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO 19116:2004 [R2015], Geographic information - Positioning services (reaffirmation of INCITS/ISO 19116:2004 [R2010])

This standard specifies the data structure and content of an interface that permits communication between position-providing device(s) and position-using device(s) so that the position-using device(s) can obtain and unambiguously interpret position information and determine whether the results meet the requirements of the use. A standardized interface of geographic information with position allows the integration of positional information from a variety of positioning technologies into a variety of geographic information applications, such as surveying, navigation and intelligent transportation systems. ISO 19116:2004 will benefit a wide range of applications for which positional information is important.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO 19119:2005 [R2015], Geographic information - Services (reaffirmation of INCITS/ISO 19119:2005 [R2010])

This standard identifies and defines the architecture patterns for service interfaces used for geographic information, defines its relationship to the Open Systems Environment model, presents a geographic services taxonomy and a list of example geographic services placed in the services taxonomy. It also prescribes how to create a platform-neutral service specification, how to derive conformant platform-specific service specifications, and provides guidelines for the selection and specification of geographic services from both platform-neutral and platform-specific perspectives.

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Reaffirmation

INCITS/ISO 19128:2005 [R2015], Geographic information - Web map server interface (reaffirmation of INCITS/ISO 19128:2005 [2010])

This standard specifies the behaviour of a service that produces spatially referenced maps dynamically from geographic information. It specifies operations to retrieve a description of the maps offered by a server, to retrieve a map, and to query a server about features displayed on a map. ISO 19128:2005 is applicable to pictorial renderings of maps in a graphical format; it is not applicable to retrieval of actual feature data or coverage data values.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO 6709:2008/COR 1:2009 [R2015], Standard representation of geographic point location by coordinates - Technical Corrigendum 1 (reaffirmation of INCITS/ISO 6709:2008/COR 1:2010)

Technical Corrigendum 1.

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Reaffirmation

INCITS/ISO 19108:2002/COR 1:2006 [R2015], Geographic information - Temporal schema

Technical Corrigendum 1 (reaffirmation of INCITS/ISO 19108:2002/COR 1:2006)

Technical Corrigendum 1.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 7065-1:1985 [R2015], Information processing - Data interchange on 200 mm (8 in) flexible disk cartridges using modified frequency modulation recording at 13 262 ftprad, 1,9 tpm (48 tpi), on both sides - Part 1: Dimensional, physical and magnetic characteristics (reaffirmation of INCITS/ISO 7065-1:1985 [2010])

This Standard contains the dimensional, physical and magnetic characteristics of 200-mm (8-in) flexible disk cartridges recording at 13 262 ftprad, 1,9 tpm (48 tpi), on both sides using modified frequency modulation recording. Together with the labelling scheme specified in ISO 7665, ISO 7065/1 and /2 provide for full data interchange between data processing systems. Provides physical interchangeability between data processing systems.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 7487-1:1993 [R2015], Information technology - Data interchange on 130 mm (5,25 in) flexible disk cartridges using modified frequency modulation recording at 7 958 ftrpad, 1,9 tpm (48 tpi), on both sides - ISO type 202 - Part 1: Dimensional, physical and magnetic characteristics (reaffirmation of INCITS/ISO/IEC 7487-1:1993 [2010])

This standard specifies the dimensional (environment and transportation, dimension of jacket, liner and disk), physical (inflammability, coefficient of linear thermal expansion, coefficient of linear hygroscopic expansion, opacity, torque) and magnetic (track geometry, functional testing) characteristics and requirements of the cartridge so as to provide physical interchangeability between data processing systems.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 8378-1:1986 [R2015], Information processing - Data interchange on 130 mm (5.25 in) flexible disk cartridges using modified frequency modulation recording at 7 958 ftrpad, 3,8 tpm (96 tpi), on both sides - Part 1: Dimensional, physical and magnetic characteristics (reaffirmation of INCITS/ISO 8378-1:1986 [2010])

This standard provides the dimensional, physical, and magnetic characteristics of 130-mm (5,25-in) flexible disk cartridges for data interchange between EDP systems with modified frequency modulation recording on 80 tracks on each side and recorded at 7 958 ftrpad, 3,8 tpm (96 tpi). Applicable in conjunction with ISO 8378 and ISO 8378/2 or 8378/3.

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Reaffirmation

INCITS/ISO/IEC 8632-1:1999/COR 1:2006 [R2015], Information technology - Computer graphics - Metafile for the storage and transfer of picture description information - Part 1: Functional specification - Technical Corrigendum 1 (reaffirmation of INCITS/ISO/IEC 8632-1:1999/Cor 1:2010)

Technical Corrigendum 1.

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Reaffirmation

INCITS/ISO/IEC 8632-1:1999/COR 2:2007 [R2015], Information technology - Computer graphics - Metafile for the storage and transfer of picture description information - Part 1: Functional specification - Technical Corrigendum 2 (reaffirmation of INCITS/ISO/IEC 8632-1:1999/Cor 2:2010)

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 8859-2:1999 [R2015], Information technology - 8-bit single-byte coded graphic character sets - Part 2: Latin alphabet No. 2 (reaffirmation of INCITS/ISO/IEC 8859-2:1999 [R2010])

This part of ISO/IEC 8859 specifies a set of 191 coded graphic characters identified as Latin alphabet No. 10. This set of coded graphic characters is intended for use in data and text processing applications and also for information interchange. The set contains graphic characters used for general-purpose applications in typical office environments in at least the following languages: Albanian, Croatian, English, Finnish, French, German, Hungarian, Irish Gaelic (new orthography), Italian, Latin, Polish, Romanian, and Slovenian. This set of coded graphic characters may be regarded as a version of an 8-bit code according to ISO/IEC 2022 or ISO/IEC 4873 at level 1. This part of ISO/IEC 8859 may not be used in conjunction with any other parts of ISO/IEC 8859. If coded characters from more than one part are to be used together, by means of code extension techniques, the equivalent coded character sets from ISO/IEC 10367, or their corresponding G1 sets from the ISO International Register of Coded Character Sets to be Used with Escape Sequences, should be used instead within a version of ISO/IEC 4873 at level 2 or level 3. The coded characters in this set may be used in conjunction with coded control functions selected from ISO/IEC 6429. However, control functions are not used to create composite graphic symbols from two or more graphic characters.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 8859-3:1999 [R2015], Information technology - 8-bit single-byte coded graphic character sets - Part 3: Latin alphabet No. 3 (reaffirmation of INCITS/ISO/IEC 8859-3:1999 [R2010])

This part of ISO/IEC 8859 specifies a set of 184 coded graphic characters identified as Latin alphabet No. 3. This set of coded graphic characters is intended for use in data and text processing applications and also for information interchange. The set contains graphic characters used for general purpose applications in typical office environments in at least the following languages: Esperanto and Maltese, and if needed in conjunction with these, English, French (with restrictions, see Annex A.1, Notes), German, Italian, Latin and Portuguese. Coding of Turkish characters using this part is deprecated, that specified in part 9 is to be used. This set of coded graphic characters may be regarded as a version of an 8-bit code according to ISO/IEC 2022 or ISO/IEC 4873 at level 1. This part of ISO/IEC 8859 may not be used in conjunction with any other parts of ISO/IEC 8859. If coded characters from more than one part are to be used together, by means of code extension techniques, the equivalent coded character sets from ISO/IEC 10367 should be used instead within a version of ISO/IEC 4873 at level 2 or level 3. The coded characters in this set may be used in conjunction with coded control functions selected from ISO/IEC 6429. However, control functions are not used to create composite graphic symbols from two or more graphic characters.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 8859-5:1999 [R2015], Information technology - 8-bit single-byte coded graphic character sets - Part 5: Latin/Cyrillic alphabet (reaffirmation of INCITS/ISO/IEC 8859-5:1999 [R2010])

This part of ISO/IEC 8859 specifies a set of 191 coded graphic characters identified as the Latin/ Cyrillic alphabet. This set of coded graphic characters is intended for use in data and text processing applications and also for information interchange. The set contains graphic characters used for general-purpose applications in typical office environments in at least the following languages: Bulgarian, Byelorussian, English, Latin, (Slavic) Macedonian, Russian, Serbian and Ukrainian. This set of coded graphic characters may be regarded as a version of an 8-bit code according to ISO/IEC 2022 or ISO/IEC 4873 at level 1. This part of ISO/IEC 8859 may not be used in conjunction with any other parts of ISO/IEC 8859. If coded characters from more than one part are to be used together, by means of code extension techniques, the equivalent coded character sets from ISO/IEC 10367 should be used instead within a version of ISO/IEC 4873 at level 2 or level 3. The coded characters in this set may be used in conjunction with coded control functions selected from ISO/IEC 6429. However, control functions are not used to create composite graphic symbols from two or more graphic characters.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 8859-6:1999 [R2015], Information technology - 8-bit single-byte coded graphic character sets - Part 6: Latin/Arabic alphabet (reaffirmation of INCITS/ISO/IEC 8859-6:1999 [R2010])

This part of ISO/IEC 8859 specifies a set of 146 coded graphic characters identified as Latin/Arabic alphabet. This set of coded graphic characters is intended for use in data and text processing applications and also for information interchange. The set contains graphic characters used for general purpose applications in typical office environments in at least the following languages: Arabic, English and Latin. Some of the characters in this set are combining characters. This set of coded graphic characters may be regarded as a version of an 8-bit code according to ISO/IEC 2022 or ISO/IEC 4873 at level 1. This part of ISO/IEC 8859 may not be used in conjunction with any other parts of ISO/IEC 8859. If coded characters from more than one part are to be used together, by means of code extension techniques, the equivalent coded character sets from ISO/IEC 10367 should be used instead within a version of ISO/IEC 4873 at level 2 or level 3. The coded characters in this set may be used in conjunction with coded control functions selected from ISO/IEC 6429. However, control functions are not used to create composite graphic symbols from two or more graphic characters.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 8859-8:1999 [R2015], Information technology - 8-bit single-byte coded graphic character sets - Part 8: Latin/Hebrew alphabet (reaffirmation of INCITS/ISO/IEC 8859-8:1999 [R2010])

This part of ISO/IEC 8859 specifies a set of 155 coded graphic characters identified as Latin/Hebrew alphabet. This set of coded graphic characters is intended for use in data and text processing applications and also for information interchange. The set contains graphic characters used for general purpose applications in typical office environments in at least the following languages: English, Hebrew, Latin. It is not intended for pointed Hebrew. This set of coded graphic characters may be regarded as a version of an 8-bit code according to ISO/IEC 2022 or ISO/IEC 4873 at level 1. This part of ISO/IEC 8859 may not be used in conjunction with any other parts of ISO/IEC 8859. If coded characters from more than one part are to be used together, by means of code extension techniques, the equivalent coded character sets from ISO/IEC 10367 should be used instead within a version of ISO/IEC 4873 at level 2 or level 3. The coded characters in this set may be used in conjunction with coded control functions selected from ISO/IEC 6429. However, control functions are not used to create composite graphic symbols from two or more graphic characters.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 8859-16:2001 [R2015], Information technology - 8-bit single-byte coded graphic character sets - Part 16: Latin alphabet No. 10 (reaffirmation of INCITS/ISO/IEC 8859-16:2001 [2008])

This part of ISO/IEC 8859 specifies a set of 191 coded graphic characters identified as Latin alphabet No. 10. This set of coded graphic characters is intended for use in data and text processing applications and also for information interchange. The set contains graphic characters used for general purpose applications in typical office environments in at least the following languages: Albanian, Croatian, English, Finnish, French, German, Hungarian, Irish Gaelic (new orthography), Italian, Latin, Polish, Romanian, and Slovenian. This set of coded graphic characters may be regarded as a version of an 8-bit code according to ISO/IEC 2022 or ISO/IEC 4873 at level 1. This part of ISO/IEC 8859 may not be used in conjunction with any other parts of ISO/IEC 8859. If coded characters from more than one part are to be used together, by means of code extension techniques, the equivalent coded character sets from ISO/IEC 10367, or their corresponding G1 sets from the ISO International Register of Coded Character Sets to be Used with Escape Sequences, should be used instead within a version of ISO/IEC 4873 at level 2 or level 3. The coded characters in this set may be used in conjunction with coded control functions selected from ISO/IEC 6429. However, control functions are not used to create composite graphic symbols from two or more graphic characters.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 8860-1:1987 [R2015], Information processing - Data interchange on 90 mm (3.5 in) flexible disk cartridges using modified frequency modulation recording at 7 958 ftprad on 80 tracks on each side - Part 1: Dimensional, physical and magnetic characteristics (reaffirmation of INCITS/ISO 8860-1:1987 [2010])

This standard provides the dimensional, physical and magnetic characteristics of the cartridge so as to provide physical interchangeability between data processing systems. Provides for full data interchangeability between data processing systems in conjunction with the ISO standards 8860-2 and 9293, and applies, moreover, in conjunction with ISO 683-13.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 9529-1:1989 [R2015], Information processing systems - Data interchange on 90 mm (3,5 in) flexible disk cartridges using modified frequency modulation recording at 15 916 ftprad, on 80 tracks on each side - Part 1: Dimensional, physical and magnetic characteristics (reaffirmation of INCITS/ISO/IEC 9529-1:1989 [1989])

This standard specifies the dimensional, physical and magnetic characteristics of the 90-mm (3,5-in) flexible disk cartridge using modified frequency modulation recording at 15 916 ftprad on 80 tracks on each side, so as to provide physical interchangeability between data processing systems.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 9593-1:1990/COR 1:1993 [R2015], Information processing systems - Computer graphics - Programmer's Hierarchical Interactive Graphics System (PHIGS) language bindings - Part 1: FORTRAN - Technical Corrigendum 1 (reaffirmation of INCITS/ISO/IEC 9593-1:1990/Cor 1:2010)

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Reaffirmation

INCITS/ISO/IEC 9593-1:1990/COR 2:1994 [R2015], Information processing systems - Computer graphics - Programmer's Hierarchical Interactive Graphics System (PHIGS) language bindings - Part 1: FORTRAN - Technical Corrigendum 2 (reaffirmation of INCITS/ISO/IEC 9593-1:1990/Cor 2:2010)

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Reaffirmation

INCITS/ISO/IEC 9593-3:1990/COR 1:1993 [R2015], Information technology - Computer graphics - Programmer's Hierarchical Interactive Graphics System (PHIGS) language bindings - Part 3: ADA - Technical Corrigendum 1 (reaffirmation of INCITS/ISO/IEC 9593-3:1990/Cor 1:2010)

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INCITS/ISO/IEC 9593-3:1990/COR 2:1994 [R2015], Information technology - Computer graphics - Programmer's Hierarchical Interactive Graphics System (PHIGS) language bindings - Part 3: ADA - Technical Corrigendum 2 (reaffirmation of INCITS/ISO/IEC 9593-3:1990/Cor 2:1994)

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INCITS/ISO/IEC 9593-4:1991/COR1:1994 [R2015], Information technology - Computer graphics - Programmer's Hierarchical Interactive Graphics System (PHIGS) language bindings - Part 4: C - Technical Corrigendum 1 (reaffirmation of INCITS/ISO/IEC 9593-4:1991/Cor 1:2010)

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 9798-2:2008 [R2015], Information technology - Security techniques - Entity authentication - Part 2: Mechanisms using symmetric encipherment algorithms (reaffirmation of INCITS/ISO/IEC 9798-2:1999 [2000])

This standard specifies entity authentication mechanisms using symmetric encipherment algorithms. Four of the mechanisms provide entity authentication between two entities where no trusted third party is involved; two of these are mechanisms to unilaterally authenticate one entity to another, while the other two are mechanisms for mutual authentication of two entities. The remaining mechanisms require a trusted third party for the establishment of a common secret key, and realize mutual or unilateral entity authentication. The mechanisms specified in ISO/IEC 9798-2:2008 use time-variant parameters such as time stamps, sequence numbers, or random numbers to prevent valid authentication information from being accepted at a later time or more than once. If no trusted third party is involved and a time stamp or sequence number is used, one pass is needed for unilateral authentication, while two passes are needed to achieve mutual authentication. If no trusted third party is involved and a challenge and response method employing random numbers is used, two passes are needed for unilateral authentication, while three passes are required to achieve mutual authentication. If a trusted third party is involved, any additional communication between an entity and the trusted third party requires two extra passes in the communication exchange.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 9798-5:2009 [R2015], Information technology - Security techniques - Entity authentication - Part 5: Mechanisms using zero-knowledge techniques (reaffirmation of INCITS/ISO/IEC 9798-5:2009 [2010])

This standard specifies entity authentication mechanisms using zero-knowledge techniques:

- mechanisms based on identities and providing unilateral authentication;
- mechanisms based on integer factorization and providing unilateral authentication;
- mechanisms based on discrete logarithms with respect to numbers that are either prime or composite, and providing unilateral authentication;
- mechanisms based on asymmetric encryption systems and providing either unilateral authentication, or mutual authentication; and
- mechanisms based on discrete logarithms on elliptic curves and providing unilateral authentication.

These mechanisms are constructed using the principles of zero-knowledge techniques, but they are not necessarily zero-knowledge according to the strict definition for every choice of parameters.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 9834-6:2005 [R2015], Information technology - Open Systems Interconnection - Procedures for the operation of OSI Registration Authorities: Registration of application processes and application entities (reaffirmation of INCITS/ISO/IEC 9834-6:2005 [2010])

This standard specifies the procedures applicable to the registration of application processes and application entities. No requirement for an international registration authority has been identified; therefore these procedures apply to registration at any point in the ASN.1 object identifier tree. This standard does not cover the registration of application-process types or application-entity types. No requirement for such registration has been identified.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 9834-9:2008 [R2015], Information technology - Open Systems Interconnection - Procedures for the operation of OSI Registration Authorities: Registration of object identifier arcs for applications and services using tag-based identification (reaffirmation of INCITS/ISO/IEC 9834-9:2008 [2010])

This standard specifies the procedures for operating the Registration Authority for object identifiers under the arc {joint-iso-itu-t(2) tag-based(27)}, that supports tag-based applications and services.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 11179-1:2004 [R2015], Information technology - Metadata registries (MDR) - Part 1: Framework (reaffirmation of INCITS/ISO/IEC 11179-1:2004 [R2010])

This standard specifies the kind and quality of metadata necessary to describe data, and it specifies the management and administration of that metadata in a metadata registry (MDR). It applies to the formulation of data representations, concepts, meanings, and relationships between them to be shared among people and machines, independent of the organization that produces the data. It does not apply to the physical representation of data as bits and bytes at the machine level. In this standard, metadata refers to descriptions of data. This standard does not contain a general treatment of metadata. This standard provides the means for understanding and associating the individual parts of ISO/IEC 11179 and is the foundation for a conceptual understanding of metadata and metadata registries.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 11179-6:2005 [R2015], Information technology - Metadata registries (MDR) - Part 6: Registration (reaffirmation of INCITS/ISO/IEC 11179-6:2005 [R2010])

This standard specifies the procedure by which Administered Items required in various application areas could be registered and assigned an internationally unique identifier. For each Administered Item to be registered, this standard defines the type of information that is specified, the conditions that are met, and the procedure that is followed. The requirements and procedure contained herein apply to all Administered Items specified in ISO/IEC 11179-3. In addition, administration records that document the common administration and identification, naming and definition details as required by, and associated with, any administered item-specific details are also governed by this standard. This standard only addresses the metadata that is used to specify all types of Administered Items. Others may want to use This standard to register and manage locally defined Administered Item types that are not defined in ISO/IEC 11179-3. This standard does not address the metadata that is used to specify particular types of Administered Items such as data elements and value domains. This standard does not specify the registry's system design, file organization techniques, storage media, programming languages, etc. to be used in its implementation.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 12087-2:1994/COR 1:1997 [R2015], Information technology - Computer graphics and image processing - Image Processing and Interchange (IPI) - Functional specification - Part 2: Programmer's imaging kernel system application programme interface - Technical Corrigendum 1 (reaffirmation of INCITS/ISO/IEC 12087-2:1994/Cor 1:2010)

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Reaffirmation

INCITS/ISO/IEC 12087-5:1998/COR 1:2001 [R2015], Information technology - Computer graphics and image processing - Image Processing and Interchange (IPI) - Functional specification - Part 5: Basic Image Interchange Format (BIIF) - Technical Corrigendum 1 (reaffirmation of INCITS/ISO/IEC 12087-5:1998/Cor 1:2010)

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INCITS/ISO/IEC 12087-5:1998/COR 2:2002 [R2015], Information technology - Computer graphics and image processing - Image Processing and Interchange (IPI) - Functional specification - Part 5: Basic Image Interchange Format (BIIF) - Technical Corrigendum 2 (reaffirmation of INCITS/ISO/IEC 12087-5:1998/Cor 2:2010)

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Reaffirmation

INCITS/ISO/IEC 13888-3:2009 [R2015], Information technology - Security techniques - Non-repudiation - Part 3: Mechanisms using asymmetric techniques (reaffirmation of INCITS/ISO/IEC 13888-3:2009 [2010])

This standard specifies mechanisms for the provision of specific, communication related, non-repudiation services using asymmetric cryptographic techniques.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 14443-1:2008 [R2015], Identification cards - Contactless integrated circuit cards - Proximity cards - Part 1: Physical characteristics (reaffirmation of INCITS/ISO/IEC 14443-1:2008 [2010])

Defines the physical characteristics of proximity cards (PICCs). It is to be used in conjunction with other parts of ISO/IEC 14443.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 14772-1:1997 [R2015], Information technology - Computer graphics and image processing - The Virtual Reality Modeling Language - Part 1: Functional specification and UTF-8 encoding (reaffirmation of INCITS/ISO/IEC 14772-1:1997 [R2010])

This standard, the Virtual Reality Modeling Language (VRML), defines a file format that integrates 3D graphics and multimedia. Conceptually, each VRML file is a 3D time-based space that contains graphic and aural objects that can be dynamically modified through a variety of mechanisms. This part defines a primary set of objects and mechanisms that encourage composition, encapsulation, and extension. The semantics of VRML describe an abstract functional behaviour of time-based, interactive 3D, multimedia information. This standard does not define physical devices or any other implementation-dependent concepts (e.g., screen resolution and input devices). This standard is intended for a wide variety of devices and applications, and provides wide latitude in interpretation and implementation of the functionality. For example, this standard does not assume the existence of a mouse or 2D display device.

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Reaffirmation

INCITS/ISO/IEC 14772-1:1997/AM 1:2003 [R2015], Information technology - Computer graphics and image processing - The Virtual Reality Modeling Language - Part 1: Functional specification and UTF-8 encoding - Amendment 1 (reaffirmation of INCITS/ISO/IEC 14772-1:1997/AM1:2004 [R2010])

Amendment 1 to ISO/IEC 14772-1:1997.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 14776-414:2009 [R2015], Information technology - Small Computer System Interface (SCSI) - Part 414: SCSI Architecture Model-4 (SAM-4) (reaffirmation of INCITS/ISO/IEC 14776-414:2009 [2010])

This part of the 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. This standard defines generic requirements that pertain to SCSI implementation standards. It also defines implementation requirements. An implementation requirement specifies behavior in terms of measurable or observable parameters that apply to an implementation. Examples of implementation requirements defined in this standard are the status values to be returned upon command completion and the service responses to be returned upon task management function completion. Generic requirements are transformed to implementation requirements by an implementation standard. An example of a generic requirement is the hard reset behavior specified in 6.3.2.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 14888-1:2008 [R2015], Information technology - Security techniques - Digital signatures with appendix - Part 1: General (reaffirmation of INCITS/ISO/IEC 14888-1:2008 [2010])

This standard specifies several digital signature mechanisms with appendix for messages of arbitrary length. This part of contains general principles and requirements for digital signatures with appendix. It also contains definitions and symbols which are used in all parts of ISO/IEC 14888. Various means are available to obtain a reliable copy of the public verification key, e.g., a public key certificate. Techniques for managing keys and certificates are outside the scope of ISO/IEC 14888.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 15444-1:2004 [R2015], Information technology - JPEG 2000 image coding system: Core coding system (reaffirmation of INCITS/ISO/IEC 15444-1:2004 [R2010])

This standard defines a set of lossless (bit-preserving) and lossy compression methods for coding bi-level, continuous-tone grey-scale, palletized colour, or continuous-tone colour digital still images. ISO/IEC 15444-1:2004 | ITU-T Rec. T.800

- specifies decoding processes for converting compressed image data to reconstructed image data;
- specifies a codestream syntax containing information for interpreting the compressed image data;
- specifies a file format;
- provides guidance on encoding processes for converting source image data to compressed image data; and
- provides guidance on how to implement these processes in practice.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 15944-7:2009 [R2015], Information technology - Business Operational View - Part 7: eBusiness vocabulary (reaffirmation of INCITS/ISO/IEC 15944-7:2009 [2010])

This standard provides a consolidated vocabulary of eBusiness concepts as found and defined in ISO/IEC 14662 and the existing parts of ISO/IEC 15944, namely, Parts 1, 2, 4, 5, 6 and 7 along with their associated terms. It also provides the rules, guidelines and procedures governing the formation of definitions for concepts relevant to eBusiness and choice of terms as a single, harmonized and integrated controlled vocabulary. This includes those governing multilingual expandability which incorporates and integrates cultural capability.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 18014-1:2008 [R2015], Information technology - Security techniques - Time-stamping services - Part 1: Framework (reaffirmation of INCITS/ISO/IEC 18014-1:2008 [2009])

This standard identifies the objective of a time-stamping authority; describes a general model on which time-stamping services are based; defines time-stamping services; and defines the basic protocols between the involved entities.

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Reaffirmation

INCITS/ISO/IEC 18014-2:2009 [R2015], Information technology - Security techniques - Time-stamping services - Part 2: Mechanisms producing independent tokens (reaffirmation of INCITS/ISO/IEC 18014-2:2009 [2010])

This standard presents a general framework for the provision of time-stamping services. Time-stamping services may generate, renew and verify time-stamp tokens. Time-stamp tokens are associations between data and points in time, and are created in a way that aims to provide evidence that the data existed at the associated date and time. In addition, the evidence may be used by non-repudiation services. This standard specifies mechanisms that generate independent time-stamps: in order to verify an independent time-stamp token, verifiers do not need access to any other time-stamp tokens. That is, time-stamp tokens are not linked, as is the case for the token types defined in ISO/IEC 18014-3.

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Reaffirmation

INCITS/ISO/IEC 18014-3:2009 [R2015], Information technology - Security techniques - Time-stamping services - Part 3: Mechanisms producing linked tokens (reaffirmation of INCITS/ISO/IEC 18014-3:2009 [2010])

This part of the standard describes a general model for time-stamping services producing linked tokens, describes the basic components used to construct a time-stamping service producing linked tokens, defines the data structures used to interact with a time-stamping service producing linked tokens, describes specific instances of time-stamping services producing linked tokens, and defines a protocol to be utilized by time-stamping services producing linked tokens for the purpose of extending linked tokens to published values.

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Reaffirmation

INCITS/ISO/IEC 19757-4:2006/COR 1:2008 [R2015], Information technology - Document Schema Definition Languages (DSDL) - Part 4: Namespace-based Validation Dispatching Language (NVDL) - Technical Corrigendum 1 (reaffirmation of INCITS/ISO/IEC 19757-4:2006/Cor 1:2010)

Technical Corrigendum 1.

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Reaffirmation

INCITS/ISO/IEC 19778-1:2008 [R2015], Information technology - Learning, education and training - Collaborative technology - Collaborative workplace - Part 1: Collaborative workplace data model (reaffirmation of INCITS/ISO/IEC 19778-1:2008 [2010])

This standard is applicable to collaborative technologies used to support communication among learners, instructors, and other participants. The implementation and communicative use of these technologies entails the creation of information related to participant groups, and to the collaborative environments, functions and tools that are set up for, and used by, these groups. This part of ISO/IEC 19778 – together with its subsequent parts – defines Data Models that enable the portability and reuse of this data in integrated form, and allow Data Model instantiations to be interchanged, stored, retrieved, reused, or analysed by a variety of systems.

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Reaffirmation

INCITS/ISO/IEC 19778-2:2008 [R2015], Information technology for Learning, Education and Training - Collaborative Technology - Collaborative workplace - Part 2: Collaborative Environmental Data Model (reaffirmation of INCITS/ISO/IEC 19778-2:2008 [2010])

This part of 19778 specifies the Data Model for a collaborative environment.

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Reaffirmation

INCITS/ISO/IEC 19778-3:2008 [R2015], Information technology - Learning, education and training - Collaborative technology - Collaborative workplace - Part 3: Collaborative group data model (reaffirmation of INCITS/ISO/IEC 19778-3:2008 [2010])

This part of ISO/IEC 19778 specifies the Data Model for a collaborative group. The collaborative group Data Model composes roles which can be played by the participants of a collaborative group, declares the intended role holders (positions for playing a particular role) for each role, and (at least during the life-span of the collaborative workplace) assigns participants to these role holders. The role names may be used as references to roles specified in detail by further specifications or standards. Where no such specifications or standards are available or identified, the provision of descriptions for human interpretation may support harmonized use of these names. Provided participant identifiers may be used as references to detailed participant information which may be specified in a provided user management system.

NOTE: There is a risk of improper access and misuse of personal and private data facilitated by use of the collaborative group Data Model. It is the responsibility of the implementer to ensure proper use of any involved personal information.

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Reaffirmation

INCITS/ISO/IEC 19785-4:2010 [R2015], Information technology - Common Biometric Exchange Formats Framework - Part 4: Security block format specifications (reaffirmation of INCITS/ISO/IEC 19785-4:2010 [2010])

This part of ISO/IEC 19785 specifies security block formats (see ISO/IEC 19785-1) registered in accordance with ISO/IEC 19785-2 as formats defined by the CBEFF biometric organization ISO/IEC JTC 1/SC 37, and specifies their registered security block format identifiers.

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Reaffirmation

INCITS/ISO/IEC 19785-1:2006/AM 1:2010 [R2015], Information technology - Common Biometric Exchange Formats Framework - Part 1: Data element specification - Amendment 1 (reaffirmation of INCITS/ISO/IEC 19785-1:2006/Amd 1:2010)

Amendment 1 to ISO/IEC 19785-1:2006.

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Reaffirmation

INCITS/ISO/IEC 19785-2:2006/AM 1:2010 [R2015], Information technology - Common Biometric Exchange Formats Framework - Part 2: Procedures for the operation of the Biometric Registration Authority - Amendment 1: Additional registrations (reaffirmation of INCITS/ISO/IEC 19785-2:2006/Amd 1-2010)

Amendment 1 to ISO/IEC 19785-2:2006.

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Reaffirmation

INCITS/ISO/IEC 19785-3:2007/AM 1:2010 [R2015], Information technology - Common Biometric Exchange Formats Framework - Part 3: Patron format specifications - Amendment 1: Support for Additional Data Elements (reaffirmation of INCITS/ISO/IEC 19785-3:2007/Amd 1-2010)

Amendment 1 to ISO/IEC 19785-3:2007.

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Reaffirmation

INCITS/ISO/IEC 19794-2:2005/COR 1:2009 [R2015], Information technology - Biometric data interchange formats - Part 2: Finger minutiae data - Technical Corrigendum 1 (reaffirmation of INCITS/ISO/IEC 19794-2:2011/Cor 1:2014)

Technical Corrigendum 1 to ISO/IEC 19794-2:2005.

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Reaffirmation

INCITS/ISO/IEC 19794-5:2005/AM 2:2009 [R2015], Information technology - Biometric data interchange formats - Part 5: Face image data - Amendment 2: Three-dimensional face image data interchange format (reaffirmation of INCITS/ISO/IEC 19794-5:2005/AMD 2-2010)

Amendment 2 to ISO/IEC 19794-5:2005.

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Reaffirmation

INCITS/ISO/IEC 19794-7:2007/COR 1:2009 [R2015], Information technology - Biometric data interchange formats - Part 7: Signature/sign time series data - Technical Corrigendum 1 (reaffirmation of INCITS/ISO/IEC 19794-7:2007/Cor 1:2010)

Technical Corrigendum 1 to ISO/IEC 19794-7:2007.

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Reaffirmation

INCITS/ISO/IEC 19796-3:2009 [R2015], Information technology - Learning, education and training - Quality management, assurance and metrics - Part 3: Reference methods and metrics (reaffirmation of INCITS/ISO/IEC 19796-3:2009 [2010])

This part of ISO/IEC 19796 extends the "reference framework for the description of quality approaches" (RFDQ) defined in ISO/IEC 19796-1 by providing a harmonized description of the methods and metrics required to implement quality management and quality assurance systems for stakeholders designing, developing, or utilizing information technology systems used for learning, education, and training. Activities such as quality planning, quality control, and quality improvement are important for quality management implementations. While these three activities are focused on products, processes and their development, quality assurance is focused more on confirmation and indication for internal and external stakeholders. It should be noted that the reference methods and metrics for this part of ISO/IEC 19796 include issues related to the implementation of quality management and assurance systems for information technologies that are used for learning, education, and training. This part of ISO/IEC 19796 is to be used to help identify methods and metrics to implement a quality assurance and management system of an IT system used for learning, education, and training. For example, it may be used for quality management systems that help to verify items such as IT system effectiveness, compliance with quality objectives including purposes, customer satisfaction, training in the use of the IT system, complaints handling, and auditing.

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Reaffirmation

INCITS/ISO/IEC 21000-7:2007 [R2015], Information technology - Multimedia framework (MPEG-21) - Part 7: Digital Item Adaptation (reaffirmation of INCITS/ISO/IEC 21000-7:2007 [2009])

This standard specifies the syntax and semantics of tools that may be used to assist the adaptation of Digital Items, i.e., the Digital Item Declaration and resources referenced by the declaration. The tools could be used to satisfy transmission, storage and consumption constraints, as well as Quality of Service management by the various Users. It is important to emphasize that the adaptation engines themselves are non-normative tools of this part of ISO/IEC 21000.

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Reaffirmation

INCITS/ISO/IEC 23360-1:2006 [R2015], Linux Standard Base (LSB) core specification 3.1 - Part 1: Generic specification (reaffirmation of INCITS/ISO/IEC 23360-1:2006 [2010])

This standard defines a system interface for compiled applications and a minimal environment for support of installation scripts. Its purpose is to enable a uniform industry standard environment for high-volume applications conforming to the LSB.

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Reaffirmation

INCITS/ISO/IEC 23360-2:2006 [R2015], Linux Standard Base (LSB) core specification 3.1 - Part 2: Specification for IA32 architecture (reaffirmation of INCITS/ISO/IEC 23360-2:2006 [2010])

Translations into other languages are provided in annexes.

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Reaffirmation

INCITS/ISO/IEC 23360-3:2006 [R2015], Linux Standard Base (LSB) core specification 3.1 - Part 3: Specification for IA64 architecture (reaffirmation of INCITS/ISO/IEC 23360-3:2006 [2010])

This standard is the Itanium(TM) architecture-specific Core part of the Linux Standard Base (LSB). It supplements the generic LSB Core module with those interfaces that differ between architectures. Interfaces described in ISO/IEC 23360-3 are mandatory except where explicitly listed otherwise. Core interfaces may be supplemented by other modules; all modules are built upon the core.

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Reaffirmation

INCITS/ISO/IEC 23360-4:2006 [R2015], Linux Standard Base (LSB) core specification 3.1 - Part 4: Specification for AMD64 architecture (reaffirmation of INCITS/ISO/IEC 23360-4:2006 [2010])

This standard is the AMD64 architecture-specific Core part of the Linux Standard Base (LSB). It supplements the generic LSB Core module with those interfaces that differ between architectures. Interfaces described in ISO/IEC 23360-4 are mandatory except where explicitly listed otherwise. Core interfaces may be supplemented by other modules; all modules are built upon the core.

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Reaffirmation

INCITS/ISO/IEC 23360-5:2006 [R2015], Linux Standard Base (LSB) core specification 3.1 - Part 5: Specification for PPC32 architecture (reaffirmation of INCITS/ISO/IEC 23360-5:2006 [2010])

This standard is the PPC32 architecture-specific Core part of the Linux Standard Base (LSB). It supplements the generic LSB Core module with those interfaces that differ between architectures. Interfaces described in ISO/IEC 23360-5 are mandatory except where explicitly listed otherwise. Core interfaces may be supplemented by other modules; all modules are built upon the core.

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Reaffirmation

INCITS/ISO/IEC 23360-6:2006 [R2015], Linux Standard Base (LSB) core specification 3.1 - Part 6: Specification for PPC64 architecture (reaffirmation of INCITS/ISO/IEC 23360-6:2006 [2010])

This standard is the PPC64 architecture-specific Core part of the Linux Standard Base (LSB). It supplements the generic LSB Core module with those interfaces that differ between architectures. Interfaces described in ISO/IEC 23360-6 are mandatory except where explicitly listed otherwise. Core interfaces may be supplemented by other modules; all modules are built upon the core.

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Reaffirmation

INCITS/ISO/IEC 23360-7:2006 [R2015], Linux Standard Base (LSB) core specification 3.1 - Part 7: Specification for S390 architecture (reaffirmation of INCITS/ISO/IEC 23360-7:2006 [2010])

This standard is the S390 architecture-specific Core part of the Linux Standard Base (LSB). It supplements the generic LSB Core module with those interfaces that differ between architectures. Interfaces described in ISO/IEC 23360-7 are mandatory except where explicitly listed otherwise. Core interfaces may be supplemented by other modules; all modules are built upon the core.

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Reaffirmation

INCITS/ISO/IEC 23360-8:2006 [R2015], Linux Standard Base (LSB) core specification 3.1 - Part 8: Specification for S390X architecture (reaffirmation of INCITS/ISO/IEC 23360-8:2006 [2010])

This standard is the S390X architecture-specific Core part of the Linux Standard Base (LSB). It supplements the generic LSB Core module with those interfaces that differ between architectures. Interfaces described in ISO/IEC 23360-8 are mandatory except where explicitly listed otherwise. Core interfaces may be supplemented by other modules; all modules are built upon the core.

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Reaffirmation

INCITS/ISO/IEC 24713-3:2009 [R2015], Information technology - Biometric profiles for interoperability and data interchange - Part 3: Biometrics-based verification and identification of seafarers (reaffirmation of INCITS/ISO/IEC 24713-3:2009 [2010])

This part of ISO/IEC 24713 specifies a biometric profile including data interchange formats, system requirements, and the operation of biometric procedures on a Seafarers' Identity Document (SID). The domain of applicability can extend to other situations where an interoperable biometrics-based identity document is required, but the main focus is on the use of biometrics on a Seafarers' Identity Document (SID). This part of ISO/IEC 24713 notes that ILO Convention No. 185 already provides the overarching policy guidance on biometric verification and identification of seafarers and it relies on that guidance. Determining any matters of policy beyond those or in contradiction to those included in ILO Convention No. 185 is explicitly out of scope of this part of ISO/IEC 24713.

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Reaffirmation

INCITS/ISO/IEC 24824-1:2007 [R2015], Information technology - Generic applications of ASN.1: Fast infosec (reaffirmation of INCITS/ISO/IEC 24824-1:2007 [2010])

This Recommendation | International Standard specifies an ASN.1 type (see ITU-T Rec. X.680 | ISO/IEC 8824-1) whose abstract values represent instances of the W3C XML Information Set. It also specifies binary encodings for those values, using ASN.1 Encoding Control Notation (see ITU-T Rec. X.692 | ISO/IEC 8825-3). (NOTE: These encodings are called fast infosec documents.) This Recommendation | International Standard also specifies techniques that minimize the size of fast infosec documents; maximize the speed of creating and processing fast infosec documents; allow the specification (by the generator of a fast infosec document) of additional processing data. This standard specifies also specifies a Multipurpose Internet Mail Extensions (MIME) media type that identifies a Fast Infosec document.

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Reaffirmation

INCITS/ISO/IEC 24824-2:2006 [R2015], Information technology - Generic applications of ASN.1: Fast Web Services (reaffirmation of INCITS/ISO/IEC 24824-2:2006 [2010])

This standard provides a consolidated vocabulary of eBusiness concepts as found and defined in ISO/IEC 14662 and the existing parts of ISO/IEC 15944, namely, Parts 1, 2, 4, 5, 6 and 7 along with their associated terms. It also provides the rules, guidelines and procedures governing the formation of definitions for concepts relevant to eBusiness and choice of terms as a single, harmonized and integrated controlled vocabulary. This includes those governing multilingual expandability which incorporates and integrates cultural capability.

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Reaffirmation

INCITS/ISO/IEC 24824-3:2008 [R2015], Information technology - Generic applications of ASN.1: Fast infosec security (reaffirmation of INCITS/ISO/IEC 24824-3:2008 [2010])

This Recommendation | International Standard specifies four (canonical Fast Infosec) algorithms that can be used in the application of W3C XML Signature (and provides URIs for them). It also specifies application-level extensions to the W3C XML Encryption processing rules for the encryption of part of an XML infosec (see 8.1) serialized as a fast infosec document and for the decryption of an encrypted part (see 8.3) that was serialized as a fast infosec document. The use of any resulting W3C XML Signature information items or W3C XML Encryption information items is not within the scope of this Recommendation | International Standard.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 29109-1:2009 [R2015], Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 1: Generalized conformance testing methodology (reaffirmation of INCITS/ISO/IEC 29109-1:2009 [2010])

This standard defines the concepts of conformance testing for biometric data interchange formats and defines a general conformance testing framework. It specifies common (modality-neutral) elements of the testing methodology, such as test methods and procedures, implementation conformance claim, and test results reporting. It also provides the assertion language definition and sets forth other testing and reporting requirements, and outlines other aspects of the conformance testing methodology that are generally applicable and not modality-specific. As part of the conformance testing methodology, different types and levels of conformance testing are described, as well as their applicability. The conformance testing methodology specified in ISO/IEC 29109-1:2009 is concerned only with data interchange format records and systems that produce or use these records.

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Reaffirmation

INCITS/ISO/IEC 29109-2:2010 [R2015], Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 2: Finger minutiae data (reaffirmation of INCITS/ISO/IEC 29109-2:2010 [2010])

This standard specifies elements of conformance testing methodology, test assertions, and test procedures as applicable to the biometric data interchange format standard relating to finger minutiae data (i.e., ISO/IEC 19794-2).

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Reaffirmation

INCITS/ISO/IEC 29109-4:2010 [R2015], Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 4: Finger image data (reaffirmation of INCITS/ISO/IEC 29109-4:2010 [2010])

This standard specifies elements of conformance testing methodology, test assertions, and test procedures as applicable to ISO/IEC 19794-4.

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Reaffirmation

INCITS/ISO/IEC 29794-1:2009 [R2015], Information technology - Biometric sample quality - Part 1: Framework (reaffirmation of INCITS/ISO/IEC 29794-1:2009 [2010])

For any or all biometric sample types as necessary, this part of ISO/IEC 29794 establishes terms and definitions that are useful in the specification, and use of quality metrics; recommends the purpose and interpretation of biometric quality scores; defines the format and placement of quality data fields in biometric data interchange formats; suggests methods for developing biometric sample datasets for the purpose of quality score normalization; and suggests a format for exchange of quality algorithm results.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 3561:1976 [R2015], Information processing - Interchangeable magnetic six-disk pack - Track format (reaffirmation and redesignation of INCITS/ISO 3561:1976 [2010])

This Standard specifies the track format characteristics for the six-disk pack to be used for data interchange (see ISO 2864). The 7-bit coded character set specified in ISO 646 has been adopted, though, by agreement between the interchange parties, the 7-bit or 8-bit extensions specified in ISO 2022 may be used.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 3563:1976 [R2015], Information processing - Interchangeable magnetic single-disk cartridge (top loaded) - Track format (reaffirmation of INCITS/ISO 3563:1976 [2010])

This Standard specifies the track format characteristics for the single-disk cartridge (top loaded) to be used for data interchange (see ISO 3562). The 7-bit coded character set specified in ISO 646 has been adopted, though, by agreement between the interchange parties, the 7-bit or 8-bit code extensions specified in ISO 2022 may be used.

However, it should be noted that in this International Standard plain binary numbers in 8-bit bytes are used in the control field to define the control information.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 3564:1976 [R2015], Information processing - Interchangeable magnetic eleven-disk pack - Physical and magnetic characteristics (reaffirmation of INCITS/ISO 3564:1976 [2010])

This Standard specifies the general, physical, and magnetic characteristics for the physical interchange of magnetic eleven-disk packs for use in electronic data processing systems. It does not apply to a specific design. It defines only the parameters relevant for interchange.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 3692:1996 [R2015], Information processing - Reels and cores for 25,4 mm (1 in) perforated paper tape for information interchange - Dimensions (reaffirmation of INCITS/ISO 3692:1976 [2010])

This Standard lays down the dimensions of take-up (or storage) reels with separable flanges, and of cores, so that rolls of perforated tape may be interchanged among machines of various manufacturers. It is also intended to serve as a guide in the co-ordination of equipment design. A compatible reel and core are described. These can be used together or either one can be used separately to transfer tape from one machine to another.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 4337:1977 [R2015], Information processing - Interchangeable magnetic twelve-disk pack (100 Mbytes) (reaffirmation of INCITS/ISO 4337:1977 [2010])

This Standard specifies the general, physical, and magnetic characteristics and the pre-initialization for the physical interchange of 100 Mbytes magnetic twelve-disk packs, for use in electronic data processing systems.

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Reaffirmation

INCITS/ISO/IEC 5653:1980 [R2015], Information processing - Interchangeable magnetic twelve-disk pack (200 Mbytes) (reaffirmation of INCITS/ISO 5653:1980 [2010])

This Standard specifies the general, physical, and magnetic characteristics and the pre-initialization for the physical interchange of 200 Mbytes magnetic twelve-disk packs, for use in electronic data processing systems.

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Reaffirmation

INCITS/ISO/IEC 9496:2003 [R2015], CHILL - The ITU-T programming language (reaffirmation of INCITS/ISO/IEC 9496:2003 [2010])

This standard defines the ITU-T programming language CHILL. CHILL is a strongly typed, block structured and object-oriented language designed primarily for the implementation of large and complex embedded systems. CHILL was designed to provide reliability and run-time efficiency, at the same time, sufficient flexibility and powerfulness to encompass the required range of applications. CHILL also provides facilities that encourage piecewise and modular development of large systems.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 10744:1997 [R2015], Information technology - Hypermedia/Time-based Structuring Language (HyTime) (reaffirmation of INCITS/ISO/IEC 10744:1997 [2010])

This Standard defines a language and underlying model for the representation of "hyperdocuments" that link and synchronize static and dynamic (time-based) information contained in multiple conventional and multimedia documents and information objects. The language is known as the "Hypermedia/Time-based Structuring Language", or "HyTime".

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 10747:1994 [R2015], Information technology - Telecommunications and information exchange between systems - Protocol for exchange of inter-domain routing information among intermediate systems to support forwarding of ISO 8473 PDUs - Technical Corrigendum 1 (reaffirmation of INCITS/ISO/IEC 10747:1994 [2010])

Technical Corrigendum 1.

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Reaffirmation

INCITS/ISO/IEC 10885:1993 [R2015], Information technology - 356 mm optical disk cartridge for information interchange - Write once (reaffirmation of INCITS/ISO/IEC 10885:1993 [2010])

This standard specifies definitions of essential concepts, the environment in which the characteristics shall be tested, the environments in which the cartridge shall be operated and stored, the mechanical, physical and dimensional characteristics of the case and of the optical disk, the optical characteristics and the recording characteristics for recording the information once and for reading it many times, so as to provide physical interchangeability between data processing systems, the format for the physical disposition of the tracks and sectors, the error correction codes, the modulation methods used for recording and the quality of the recorded signals.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 11560:1992 [R2015], Information technology - Information interchange on 130 mm optical disk cartridges using the magneto-optical effect, for write once, read multiple functionality (reaffirmation of INCITS/ISO/IEC 11560:1992 [2010])

This standard specifies definitions of the essential concepts, the environment in which the characteristics are to be tested, the environments in which the cartridge is to be operated and stored, the mechanical, physical and dimensional characteristics of the case and of the optical disk, the magneto-optical characteristics and the recording characteristics, so as to provide physical interchangeability between data processing systems, the format for the physical disposition of the tracks and sectors, the error correction codes, the modulation method used for recording and the quality of the recorded signals.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 13673:2000 [R2015], Information technology - Document processing and related communication - Conformance testing for Standard Generalized Markup Language (SGML) systems (reaffirmation of INCITS/ISO/IEC 13673:2000 [2010])

This standard addresses the construction and use of test suites for verifying conformance of SGML systems. Its provisions assist those who build test suites, those who build SGML systems to be evaluated by such suites, and those who examine an SGML system's performance on a test suite as part of the process of selecting an SGML tool. This standard includes criteria for the organization of test suites, including naming conventions, documentation conventions, and specification of applicable concrete syntaxes and features.

This standard applies to the testing only of aspects of SGML implementation and usage for which objective conformance criteria are defined in ISO 8879.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 14760:1997 [R2015], Information technology - Data interchange on 90 mm overwritable and read only optical disk cartridges using phase change - Capacity: 1,3 Gbytes per cartridge (reaffirmation of INCITS/ISO/IEC 14760:1997 [2010])

This Standard specifies the characteristics of 90-mm Optical Disk Cartridges (ODCs) using the phase change technology, with a capacity of 1,3 Gbytes per cartridge. It specifies three related Types of such cartridges.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 14977:2006 [R2015], Information technology - Syntactic metalanguage - Extended BNF (reaffirmation of INCITS/ISO/IEC 14977:2006 [2010])

Defines a notation, Extended BNF, for specifying the syntax of a linear sequence of symbols. It defines both the logical structure of the notation and its graphical representation.

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Reaffirmation

INCITS/ISO/IEC 15145:1997 [R2015], Information technology - Programming languages - FORTH (reaffirmation of INCITS/ISO/IEC 15145:1997 [2010])

This standard specifies an interface between a FORTH System and a FORTH Program by defining the words provided by a Standard System. This Standard specifies the forms that a program written in the FORTH language may take; the rules for interpreting the meaning of a program and its data. This Standard does not specify the mechanism by which programs are transformed for use on computing systems; the operations required for setup and control of the use of programs on computing systems; the method of transcription of programs or their input or output data to or from a storage medium; the program and FORTH system behavior when the rules of this Standard fail to establish an interpretation; the size or complexity of a program and its data that will exceed the capacity of any specific computing system or the capability of a particular FORTH system; the physical properties of input/output records, files, and units; the physical properties and implementation of storage.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 15445:2000 [R2015], Information technology - Document description and processing languages - HyperText Markup Language (HTML) (reaffirmation of INCITS/ISO/IEC 15445:2000 [2010])

This standard is a conforming application of ISO 8879, SGML. This Standard describes the way in which the HTML language specified by the certain clauses (see standard) in the W3C Recommendation for HTML 4.01 shall be used, and does so by identifying all the differences between the HTML language specified by the W3C Recommendation for HTML 4.01 and the HTML language defined by this Standard.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 15485:1997 [R2015], Information technology - Data interchange on 120 mm optical disk cartridges using phase change PD format - Capacity: 650 Mbytes per cartridge (reaffirmation of INCITS/ISO/IEC 15485:1997 [2010])

This Standard specifies the characteristics of 120 mm Optical Disk Cartridges (ODCs) with a capacity of 650 Mbytes using Phase Change PD format. This present International Standard specifies two related, but different implementations of such cartridges, viz. Type R/W Provides for data to be written, read and overwritten many times over the whole recording surface of the disk using the phase change recording and read-out method. Type WORM Provides for data to be written once and read many times over the whole recording surface of the disk using the phase change recording and read-out method. This Standard specifies: the conditions for conformance testing and the Reference Drive; the environments in which the cartridges are to be operated and stored; the mechanical and physical characteristics of the cartridge, so as to provide mechanical interchangeability between data processing systems; the format of the information on the disk known as the PD format; including the physical disposition of the tracks and sectors, the error correction codes, and the modulation method used; the characteristics of the embossed information on the disk; the phase change recording characteristics of the disk, enabling data processing systems to write data onto the disk; the minimum quality of user-written data on the disk, enabling data processing systems to read data from the disk. This Standard provides for interchange between optical disk drives. Together with a Standard for volume and file structure it provides for full data interchange between data processing systems.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 15498:1997 [R2015], Information technology - Data interchange on 90 mm optical disk cartridges - HS-1 format - Capacity: 650 Mbytes per cartridge (reaffirmation of INCITS/ISO/IEC 15498:1997 [2010])

This Standard specifies the characteristics of 120 mm Optical Disk Cartridges (ODCs) with a capacity of 650 Mbytes using Phase Change PD format. This present International Standard specifies two related, but different implementations of such cartridges, viz. Type R/W provides for data to be written, read and overwritten many times over the whole recording surface of the disk using the phase change recording and read-out method. Type WORM provides for data to be written once and read many times over the whole recording surface of the disk using the phase change recording and read-out method. This Standard specifies: the conditions for conformance testing and the Reference Drive; the environments in which the cartridges are to be operated and stored; the mechanical and physical characteristics of the cartridge, so as to provide mechanical interchangeability between data processing systems; the format of the information on the disk known as the PD format; including the physical disposition of the tracks and sectors, the error correction codes, and the modulation method used; the characteristics of the embossed information on the disk; the phase change recording characteristics of the disk, enabling data processing systems to write data onto the disk; and the minimum quality of user-written data on the disk, enabling data processing systems to read data from the disk. This Standard provides for interchange between optical disk drives. Together with a Standard for volume and file structure it provides for full data interchange between data processing systems.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 15718:1998 [R2015], Information technology - Data interchange on 8 mm wide magnetic tape cartridge - Helical scan recording - HH-1 format (reaffirmation of INCITS/ISO/IEC 15718:1998 [2010])

This Standard specifies the physical and magnetic characteristics of an 8 mm wide magnetic tape cartridge so as to provide physical interchange of such cartridges between drives. It also specifies the quality of the recorded signals, the recording method and the recorded format - called HH-1 format - thereby allowing for full data interchange between drives by means of such magnetic tape cartridges. Information interchange between systems also requires, as a minimum, agreement between the interchange parties upon the interchange code(s) and the specifications of the structure and labelling of the information on the interchanged cartridge.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 15895:1999 [R2015], Information technology - Data interchange on 12,7 mm 128-track magnetic tape cartridges - DLT 3-XT format (reaffirmation of INCITS/ISO/IEC 15895:1999 [2010])

This Standard specifies the physical and magnetic characteristics of a 12,7 mm wide, 128-track magnetic tape cartridge, to enable physical interchangeability of such cartridges between drives. It also specifies the quality of the recorded signals, a format - called Digital Linear Tape 3 Extended (DLT 3-XT) - and a recording method, thereby allowing data interchange between drives. Together with a labelling standard, for instance International Standard ISO 1001 for Magnetic Tape Labelling, it allows full data interchange by means of such magnetic tape cartridges.

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Reaffirmation

INCITS/ISO/IEC 15896:1999 [R2015], Information technology - Data interchange on 12,7 mm 208-track magnetic tape cartridges - DLT 5 format (reaffirmation of INCITS/ISO/IEC 15896:1999 [2010])

This Standard specifies the physical and magnetic characteristics of a 12,7 mm wide, 208-track magnetic tape cartridge, to enable physical interchangeability of such cartridges between drives. It also specifies the quality of the recorded signals, a format - called Digital Linear Tape 5 (DLT 5) - and a recording method, thereby allowing data interchange between drives. Together with a labelling standard, for instance International Standard ISO 1001 for Magnetic Tape Labelling, it allows full data interchange by means of such magnetic tape cartridges.

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Reaffirmation

INCITS/ISO/IEC 16382:2000 [R2015], Information technology - Data interchange on 12,7 mm 208-track magnetic tape cartridges - DLT 6 format (reaffirmation of INCITS/ISO/IEC 16382:2000 [2010])

This Standard specifies the physical and magnetic characteristics of a 12,7 mm wide, 208-track magnetic tape cartridge, to enable physical interchangeability of such cartridges between drives. It also specifies the quality of the recorded signals, a format - called Digital Linear Tape 6 (DLT 6) - and a recording method, thereby allowing data interchange between drives. Together with a labelling standard, for instance International Standard ISO 1001 for Magnetic Tape Labelling, it allows full data interchange by means of such magnetic tape cartridges.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 16509:1999 [R2015], Information technology - Year 2000 terminology (reaffirmation of INCITS/ISO/IEC 16509:1999 [2010])

This standard identifies terms and concepts pertinent to the resolution of the Year 2000 issue, including the rollover from the year 1999 to 2000, incorrect recognition of leap years, and values in date fields used for non-date purposes, and provides definitions of these terms and descriptions of these concepts. This standard does not specifically address operating system anomalies such as might occur in the year 2038.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 16824:1999 [R2015], Information technology - 120 mm DVD rewritable disk (DVD-RAM) (reaffirmation of INCITS/ISO/IEC 16824:1999 [2010])

This standard specifies the mechanical, physical and optical characteristics of a 120 mm optical disk to enable interchange of such disks. It specifies the quality of the recorded signals, the format of the data and the recording method, thereby allowing for information interchange by means of such disks. The data can be written, read and overwritten many times using the phase change method. This disk is identified as DVD-RAM.

This standard specifies:

- two related but different Types of this disk (see clause 7),
- the conditions for conformance,
- the environments in which the disk is to be tested, operated and stored,
- the mechanical, physical and dimensional characteristics of the disk, so as to provide mechanical interchange between data processing systems,
- the format of the information on the disk, including the physical disposition of the tracks and sectors, the error correcting codes and the coding method,
- the characteristics of the signals recorded on the disk, thus enabling data processing systems to read the data from the disk.

This standard provides for the interchange of disks between optical disk drives. Together with a standard for volume and file structure, it provides for full data interchange between data processing systems. The optical disks specified by this Standard may be enclosed in cases according to ISO/IEC 16825 as specified therein.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 16825:1999 [R2015], Information technology - Case for 120 mm DVD-RAM disks (reaffirmation of INCITS/ISO/IEC 16825:1999 [2010])

This Standard specifies the characteristics of a case for use with 120-mm DVD-RAM disks as specified in Standard ECMA-ppp. The present International Standard specifies three related, but different implementations of such cases, viz. Type 1 provides a case for a one-sided (Type 1S) or a two-sided (Type 2S) DVD-RAM disk such that the disk can not be removed from the case. This case is reversible; Type 2 provides a case for a one-sided DVD-RAM disk (Type 1S) such that the disk may be removed from the case. This case is not reversible; Type 3 provides a case into which a one-sided DVD-RAM disk (Type 1S) may be inserted, then used as a cartridge. This case is not reversible. This Standard specifies: the environments in which the cases are to be operated and stored; the dimensional and mechanical characteristics of the case, so as to provide mechanical interchangeability between data processing systems. This Standard provides for mechanical interchange between optical disk drives. Together with ISO/IEC for 120-mm DVD-RAM disks and a standard for volume and file structure, it provides for full data interchange between data processing systems.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 16969:1999 [R2015], Information technology - Data interchange on 120 mm optical disk cartridges using +RW format - Capacity: 3,0 Gbytes and 6,0 Gbytes (reaffirmation of INCITS/ISO/IEC 16969:1999 [2010])

This Standard specifies the mechanical, physical and optical characteristics of 120-mm rewritable optical disks with capacities of 3,0 Gbytes and 6,0 Gbytes. It specifies the quality of the recorded and unrecorded signals, the format of the data and the recording method, thereby allowing for information interchange by means of such disks. The data can be written, read and overwritten many times using the phase change method. These disks are identified as +RW. This Standard specifies two related but different Types of this disk (see clause 7),

the conditions for conformance, the environments in which the disk is to be tested, operated and stored, the mechanical, physical and dimensional characteristics of the disk, so as to provide mechanical interchange between data processing systems, the format of the information on the disk, including the physical disposition of the tracks and sectors, the error correcting codes and the coding method, the characteristics of the signals recorded on the disk, thus enabling data processing systems to read the data from the disk. This Standard provides for the interchange of disks between optical disk drives. Together with a standard for volume and file structure, it provides for full data interchange between data processing systems.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 17342:2004 [R2015], Information technology - 80 mm (1,46 Gbytes per side) and 120 mm (4,70 Gbytes per side) DVD re-recordable disk (DVD-RW) (reaffirmation of INCITS/ISO/IEC 17342:2004 [2010])

This standard specifies the mechanical, physical and optical characteristics of an 80-mm and a 120-mm DVD re-recordable disk to enable the interchange of such disks. It specifies the quality of the pre-recorded, unrecorded and the recorded signals, the format of the data, the format of the information zone, the format of the unrecorded zone, and the recording method, thereby allowing for information interchange by means of such disks.

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Reaffirmation

INCITS/ISO/IEC 17346:2005 [R2015], Information technology - Data interchange on 90 mm optical disk cartridges - Capacity: 1,3 Gbytes per cartridge (reaffirmation of INCITS/ISO/IEC 17346:2005 [2010])

This standard defines the characteristics of 90 mm Optical Disk Cartridges (ODC) with a capacity of 1,3 GB per cartridge. It specifies only Type R/W for 2 048-byte sectors of such cartridges. Type R/W provides for data to be written, read and erased many times over the entire recording surface of the disk using the thermo-magnetic and magneto-optical effects. It is also referred to as "fully rewritable". ISO/IEC 17346:2004 provides for 2 048-byte sectors only.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 17592:2004 [R2015], Information technology - 120 mm (4,7 Gbytes per side) and 80 mm (1,46 Gbytes per side) DVD rewritable disk (DVD-RAM) (reaffirmation of INCITS/ISO/IEC 17592:2004 [2010])

This standard specifies the mechanical, physical and optical characteristics of an optical disk, identified as DVD Rewritable Disk (DVD-RAM), to enable interchange of such disks. It specifies the quality of the recorded signals, the format of the data and the recording method, thereby allowing for information interchange by means of such disks. The data can be written, read and overwritten many times using the phase change method. Two Types are specified that differ only by their diameter of 120 mm and 80 mm, and the resulting difference of capacity.

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Reaffirmation

INCITS/ISO/IEC 17594:2004 [R2015], Information technology - Cases for 120 mm and 80 mm DVD-RAM disks (reaffirmation of INCITS/ISO/IEC 17594:2004 [2010])

This standard specifies the characteristics of a case for use with the 120 mm and 80 mm DVD-RAM disks specified in ISO/IEC 17592. ISO/IEC 17594:2004 specifies nine related, but different implementations of this case. This standard specifies: the environments in which the cases are to be operated and stored; the dimensional and mechanical characteristics of the case, so as to provide mechanical interchangeability between data processing systems.

This standard provides for mechanical interchange between optical disk drives. Together with ISO/IEC 17592 for 120 mm (4,7 Gbytes per side) and 80 mm (1,46 Gbytes per side) DVD-RAM disks and a standard for volume and file structure, it provides for full data interchange between data processing systems.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 17913:2000 [R2015], Information technology - 12,7mm 128-track magnetic tape cartridge for information interchange - Parallel serpentine format (reaffirmation of INCITS/ISO/IEC 17913:2000 [2000])

This Standard specifies the physical and magnetic characteristics of a magnetic tape cartridge, using a magnetic tape 12,7 mm wide, so as to provide physical interchange of such cartridges between drives. It also specifies the quality of the recorded signals, the recording method and the recorded format known as Parallel Serpentine, thereby allowing data interchange between drives by means of such cartridges. The format supports variable length Logical Records, high speed search, and the use of the algorithm for data compression specified in ISO/IEC 15200. Information interchange between systems also requires, at a minimum, agreement between the interchange parties upon the interchange code(s) and the specification of the structure and labelling of the information on the interchanged cartridge.

Together with a standard for volume and file structure, e.g., International Standard ISO 1001, this International Standard provides for full data interchange between data processing systems.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 18026:2009 [R2015], Information technology - Spatial Reference Model (SRM) (reaffirmation of INCITS/ISO/IEC 18026:2009 [2010])

This standard specifies the Spatial Reference Model (SRM) defining relevant aspects of spatial positioning and related information processing. The SRM allows precise and unambiguous specification of geometric properties such as position (location), direction, and distance. The SRM addresses the needs of a broad community of users, who have a range of accuracy and performance requirements in computationally intensive applications. Aspects of this standard apply to, but are not limited to: mapping, charting, geodesy, and imagery; topography; location-based services; oceanography; meteorology and climatology; interplanetary and planetary sciences; embedded systems; and modelling and simulation.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 19136:2007 [R2015], Geographic information - Geography Markup Language (GML) (reaffirmation and redesignation of INCITS/ISO 19136:2007 [2010])

The Geography Markup Language (GML) is an XML encoding in compliance with ISO 19118 for the transport and storage of geographic information modelled in accordance with the conceptual modelling framework used in the ISO 19100 series of International Standards and including both the spatial and non-spatial properties of geographic features. This standard defines the XML Schema syntax, mechanisms and conventions that: provide an open, vendor-neutral framework for the description of geospatial application schemas for the transport and storage of geographic information in XML; allow profiles that support proper subsets of GML framework descriptive capabilities; support the description of geospatial application schemas for specialized domains and information communities; enable the creation and maintenance of linked geographic application schemas and datasets; support the storage and transport of application schemas and data sets; increase the ability of organizations to share geographic application schemas and the information they describe. Implementers may decide to store geographic application schemas and information in GML, or they may decide to convert from some other storage format on demand and use GML only for schema and data transport.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 22533:2005 [R2015], Information technology - Data interchange on 90 mm Optical Disk Cartridges - Capacity: 2,3 Gbytes per Cartridge (reaffirmation of INCITS/ISO/IEC 22533:2005 [2010])

This Standard defines the characteristics of 90 mm Optical Disk Cartridges (ODC) with a capacity of 2,3 GB per Cartridge. The Standard specifies only Type R/W for 2 048-byte sectors of such cartridge. Type R/W provides for data to be written, read and erased many times over the entire recording surface of the disk using the thermo-magnetic and magneto-optical effects. It is also referred to as "fully rewritable". This International Standard provides for 2 048-byte sectors only. All sectors on a disk are of the same size.

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Reaffirmation

INCITS/ISO/IEC 22537:2006 [R2015], Information technology - ECMAScript for XML (E4X) specification (reaffirmation of INCITS/ISO/IEC 22537:2006 [2010])

This standard defines the syntax and semantics of ECMAScript for XML (E4X), a set of programming language extensions adding native XML support to ECMAScript.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 23912:2005 [R2015], Information technology - 80 mm (1,46 Gbytes per side) and 120 mm (4,70 Gbytes per side) DVD Recordable Disk (DVD-R) (reaffirmation of INCITS/ISO/IEC 23912:2005 [2010])

This standard specifies the mechanical, physical and optical characteristics of an 80 mm and a 120 mm DVD Recordable disk to enable the interchange of such disks. It specifies the quality of the pre-recorded, unrecorded and the recorded signals, the format of the data, the format of the information zone, the format of the unrecorded zone, and the recording method, thereby allowing for information interchange by means of such disks. This disk is identified as a DVD Recordable (DVD-R) disk. This standard specifies: 80 mm and 120 mm nominal diameter disks that may be either single or double sided; the conditions for conformance; the environments in which the disk is to be operated and stored; the mechanical and physical characteristics of the disk, so as to provide mechanical interchange between data processing systems; the format of the pre-recorded information on an unrecorded disk, including the physical disposition of the tracks and sectors, the error correcting codes and the coding method used; the format of the data and the recorded information on the disk, including the physical disposition of the tracks and sectors, the error correcting codes and the coding method used; the characteristics of the signals from pre-recorded and unrecorded areas on the disk, enabling data processing systems to read the pre-recorded information and to write to the disks; and the characteristics of the signals recorded on the disk, enabling data processing systems to read the data from the disk. This standard provides for interchange of disks between disk drives. Together with a standard for volume and file structure, it provides for full data interchange between data processing systems.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 23917:2005 [R2015], Information technology - Telecommunications and information exchange between systems - NFCIP-1 - Protocol Test Methods (reaffirmation of INCITS/ISO/IEC 23917:2005 [2010])

This Standard specifies protocol test methods for ISO/IEC 18092 in addition to those specified in ISO/IEC 22536.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 24747:2009 [R2015], Information technology - Programming languages, their environments and system software interfaces - Extensions to the C Library to support mathematical special functions (reaffirmation of INCITS/ISO/IEC 24747:2009 [2010])

This standard defines extensions to the C Standard Library that is defined in the International Standard for the C programming language (ISO/IEC 9899). Unless otherwise specified, the whole of the C Standard Library is included in ISO/IEC 24747:2009 by reference, see Clause 2.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 25435:2006 [R2015], Data Interchange on 60 mm Read-Only ODC - Capacity: 1,8 Gbytes (UMDTM) (reaffirmation of INCITS/ISO/IEC 25435:2006 [2010])

This standard specifies the mechanical, physical and optical characteristics of a 60 mm, read-only ODC having a maximum capacity of 1,8 Gbytes. It specifies the physical format, the quality of the recorded signals, the format of the data and its modulation method, thereby allowing for information interchange by means of such ODCs. This standard specifies two types of ODCs, Type A and Type B: Type A: Single layer disk with maximum recorded capacity of 0,9 G-bytes; Type B: Dual layer disk with maximum recorded capacity of 1,8 G-bytes.

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Reaffirmation

INCITS/ISO/IEC 25436:2006 [R2015], Information technology - Eiffel: Analysis, Design and Programming Language (reaffirmation of INCITS/ISO/IEC 25436:2006 [2010])

This standard is the S390 architecture-specific Core part of the Linux Standard Base (LSB). It supplements the generic LSB Core module with those interfaces that differ between architectures. Interfaces described in ISO/IEC 23360-Tare mandatory except where explicitly listed otherwise. Core interfaces may be supplemented by other modules; all modules are built upon the core.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 28361:2007 [R2015], Information technology - Telecommunications and information exchange between systems - Near Field Communication Wired Interface (NFC-WI) (reaffirmation of INCITS/ISO/IEC 28361:2007 [2010])

This standard specifies the digital wire interface between a Transceiver and a Front-end. The specification includes the signal wires, binary signals, the state diagrams and the bit encodings for three data rates.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 29141:2009 [R2015], Information technology - Biometrics - Tenprint capture using biometric application programming interface (BioAPI) (reaffirmation of INCITS/ISO/IEC 29141:2009 [2010])

This Standard specifies requirements for the use of ISO/IEC 19784-1, as amended by ISO/IEC 19784-1/Amd. 1 (BioAPI) for the purpose of performing a tenprint capture operation. It specifies a BDB format that is used to interact with a BioAPI framework (and hence with BSPs) to support an application wishing to perform a tenprint capture. It specifies a capture control block and a capture output block that conforming BSPs are required to support if they conform to this Standard.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 29171:2009 [R2015], Information technology - Digitally recorded media for information interchange and storage - Information Versatile Disk for Removable usage (iVDR) cartridge (reaffirmation of INCITS/ISO/IEC 29171:2009 [2010])

This standard specifies the dimensional, mechanical and physical characteristics of an information Versatile Disk for Removable usage (iVDR) cartridge to enable mechanical interchangeability between data processing systems. An iVDR cartridge can contain hard disk drive technology or other suitable storage technologies. This standard specifies the environment in which iVDR cartridges are to be operated and stored, and specifies the dimensions and pin assignments of a connector employed by iVDR cartridges to enable data interchange. Together with ISO/IEC 24739-3 and a standard for volume and file structure, ISO/IEC 29171 enables full data interchange between data processing systems.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 8879:1986/AM 1:1988 [R2015], Information processing - Text and office systems - Standard Generalized Markup Language (SGML) - Amendment 1 (reaffirmation of INCITS/ISO 8879:1986/Amd 1:2010)

Amendment 1 to ISO/IEC 8879:1986.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 8879:1986/COR 1:1996 [R2015], Information processing - Text and office systems - Standard Generalized Markup Language (SGML) - Technical Corrigendum 1 (reaffirmation of INCITS/ISO 8879:1986/Cor 1:2010)

Technical Corrigendum 1.

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Reaffirmation

INCITS/ISO/IEC 8879:1986/COR 2:1999 [R2015], Information processing - Text and office systems - Standard Generalized Markup Language (SGML) - Technical Corrigendum 2 (reaffirmation of INCITS/ISO 8879:1986/Cor 2:2010)

Technical Corrigendum 2.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 10036:1996/COR 1:2001 [R2015], Information technology - Font information interchange - Procedures for registration of font-related identifiers - Technical Corrigendum 1 (reaffirmation of INCITS/ISO/IEC 10036:1996/Cor 1:2010)

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INCITS/ISO/IEC 10036:1996/COR 2:2002 [R2015], Information technology - Font information interchange - Procedures for registration of font-related identifiers - Technical Corrigendum 2 (reaffirmation of INCITS/ISO/IEC 10036:1996/Cor 2:2010)

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 10179:1996/COR 1:2001 [R2015], Information technology - Processing languages - Document Style Semantics and Specification Language (DSSSL) - Technical Corrigendum 1 (reaffirmation of INCITS/ISO/IEC 10179:1996/Cor 1:2010)

Technical Corrigendum 1.

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Reaffirmation

INCITS/ISO/IEC 10179:1996/AM 2:2005 [R2015], Information technology - Processing languages - Document Style Semantics and Specification Language (DSSSL) - Amendment 2 (reaffirmation of INCITS/ISO/IEC 10179:1996/Amd 2:2010)

Amendment 2 to ISO/IEC 10179:1996.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS/ISO/IEC 10180:1995/COR 1:2001 [R2015], Information technology - Processing languages - Standard Page Description Language (SPDL) - Technical Corrigendum 1 (reaffirmation of INCITS/ISO/IEC 10180:1995/Cor 1:2010)

Technical Corrigendum 1.

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Reaffirmation

INCITS/ISO/IEC 10747:1994/COR 1:1996 [R2015], Information technology - Telecommunications and information exchange between systems - Protocol for exchange of inter-domain routing information among intermediate systems to support forwarding of ISO 8473 PDUs (reaffirmation of INCITS/ISO/IEC 10747:1994/Cor1:2010)

Technical Corrigendum 1 to ISO/IEC 10747:1994.

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Reaffirmation

INCITS/ISO/IEC 10747:1994/AM 1:2010 [R2015], Information technology - Telecommunications and information exchange between systems - Protocol for exchange of inter-domain routing information among intermediate systems to support forwarding of ISO 8473 PDUs - Amendment 1: Implementation conformance statement proformas (reaffirmation of INCITS/ISO/IEC 10747:1994/AM1:2010)

Amendment 1.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

ISO/IEC 19794-2:2005/AM 1:2010 [R2015], Information technology - Biometric data interchange formats - Part 2: Finger minutiae data - Amendment 1: Detailed description of finger minutiae location, direction, and type (reaffirmation of INCITS/ISO/IEC 19794-2:2005/Amd 1:2010)

Amendment 1 to ISO/IEC 19794-2:2005.

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Revision

INCITS 469-2015, Information technology - Open Virtualization Format (OVF) specification (revision of INCITS 469-2010)

The Open Virtualization Format (OVF) Specification describes an open, secure, portable, efficient and extensible format for the packaging and distribution of software to be run in virtual machines.

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Stabilized Maintenance

INCITS 218-2000 [S2015], Information technology - High-Performance Parallel Interface - Encapsulation of ISO/IEC 8802-2 (IEEE Std 802.2) Logical Link Control Protocol Data Units (HIPPI-LE) (stabilized maintenance of INCITS 218:2000 [R2010])

This Standard specifies a common method for encapsulating ISO/IEC 8802-2 (IEEE Std 802.2) Logical Link Control Protocol Data Units (PDU) on HIPPI.

Characteristics of HIPPI-LE include:

- Encapsulation of arbitrary Protocol Data Units that conform to ISO/IEC 8802-2 (IEEE Std 802.2) Logical Link Control;
- Provision for 48-bit source and destination addresses conforming to IEEE 802.1a;
- Provision for eight forwarding classes to distinguish, for example, among ordinary data PDUs, PDUs for services that require bandwidth guarantees such as packet video, etc.

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Stabilized Maintenance

INCITS 328-2000 [S2015], Information Technology - 19 mm DD-2 Helical Scan Digital Computer Tape Cassette for Information Interchange (stabilized maintenance of INCITS 328:2000 [R2010])

Establishes the requirements for DD-2 digital data storage cassettes to be used for information interchange between information processing systems.

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Stabilized Maintenance

INCITS 329-2000 [S2015], Magnetic Tape Cartridge for Information Interchange, 0.50 in (12.65 mm), Serial Serpentine, 208-Track, 85 940 bpi (3383 bps), DLT5 Format (stabilized maintenance of INCITS 329:2000 [R2010])

Provides the requirements for a tape cartridge to be used for information interchange among information-processing systems, communication systems, and associated equipment utilizing a standard code for information interchange as agreed upon by the interchange.

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Stabilized Maintenance

INCITS 330-2000 [S2015], Information technology - Reduced Block Commands (RBC) (stabilized maintenance of INCITS 330:2000 [R2010])

This standard defines a Reduced Block Command set for logical block devices. The Reduced Block Commands along with the required SPC-2 commands and their restrictions described in this standard, fully specify the complete command set for RBC logical block devices.

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Stabilized Maintenance

INCITS 333-2000 [S2015], Information technology - SCSI Multi-Media Commands - 2 (MMC-2) (stabilized maintenance of INCITS 333:2000 [R2010])

This standard defines a multimedia command set extensions for Device Type 5 devices. The commands specified within this standard define standard access and control to those Features of the device that are used in multimedia applications. The SPC command set and these extensions are transport independent and may be implemented across a wide variety of environments for that a SCSI command mapping and delivery vehicle has been defined. To date, these include Fibre Channel, SCSI Parallel Interface, High Performance Serial Bus, Serial Storage Architecture, and ATA/ATAPI. The objective of this command set is to provide for the following:

- 1) A definition of the command formats and functions independent of delivery, protocol/signaling or transport mechanism. Architectural constraints regarding command functions, over the various transports, are addressed in the document specific to the physical transport;
- 2) Standardized access to common Features of SCSI devices employed in multimedia applications;
- 3) System software/firmware independence across device classes. Thus, different tape drives, optical media drives, and other devices can be added to the system without requiring modifications to generic system hardware and software. Provision is made for the addition of special Features and functions through the use of vendor-specific options. Reserved Opcodes are provided for future standardization; and
- 4) To provide compatibility such that properly conforming SCSI-2 devices may inter-operate with subsequent devices given that the system engineering is correctly done. SCSI protocol extensions are designed to be permissive of rejections by conforming SCSI-2 devices and thus allow the SCSI-2 device to continue operation without requiring the use of the extension.

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Stabilized Maintenance

INCITS 334-2000 [S2015], Information Technology - Magnetic Tape Cartridge for Information Interchange - 0.50 in (12.65 mm), Serial Serpentine 128-Track, 62 500 BPI (2 460 BPMM) DLT 3-XT Format (stabilized maintenance of INCITS 334:2000 [R2010])

Specifies the physical and magnetic characteristics of a 0.5-in (12.65-mm)-wide 128-track magnetic tape cartridge, to enable physical interchange of such cartridges. It also specifies the quality of the recorded signals, a format - called Digital Linear Tape 3 Extended (DLT 3-XT) - and a recording method, thereby allowing data interchange between drives. The use of a labeling standard such as American National Standard for Information Technology - File Structure and Labelling of Magnetic Tapes for Information Interchange, ANSI X3.27-1987 (R1998), will support data interchange between data processing systems

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INCITS 337-2000 [S2015], Information technology - Scheduled Transfer Protocol (ST) (stabilized maintenance of INCITS 337:2000 [R2010])

Specifies a connection-oriented data transfer protocol supporting flow-controlled Read and Write sequences and non-flow-controlled, persistent-memory Put, Get and FetchOp sequences. For all sequences, small control messages are used to preallocate buffers at the data destination before the data movement begins, thus allowing the data to be moved immediately from the physical network into the end device's memory. The control and data messages may use different physical media or may share a single physical medium. Procedures are provided for moving data over HIPPI, Ethernet, and other media.

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INCITS 401-2005 [S2015], Information technology - SCSI Multimedia Commands - 4 (MMC-4) (stabilized maintenance of INCITS 401:2005 [R2010])

This standard defines a set of SCSI command descriptor blocks that are useful in accessing and controlling devices with a peripheral device type set to 5. This command set is transport independent and may be implemented across a wide variety of environments for which a SCSI transport protocol has been defined. To date, these include Parallel SCSI, ATA/ATAPI, Serial ATA, Universal Serial Bus (USB versions 1.1 and 2.0), and High Performance Serial Bus (IEEE 1394, 1394A, and 1394B). The command set described has been selected for correct operation when the physical interface is ATA with the ATAPI command protocol. Although some commands are also described in the SPC-3, the descriptions are also in this standard for the purpose of profiling mandatory and optional command features as applied to multimedia devices. The objective of this command set is to provide for the following: A definition of the command formats and functions independent of delivery, protocol/signaling or transport mechanism. Architectural constraints regarding command functions, over the various transports, are addressed in the document specific to the physical transport; Standardized access to common features of devices employed in multimedia applications; System software/firmware independence across device classes and physical interfaces. Provision is made for the addition of special features and functions through the use of vendor-specific options.; and Compatibility such that properly conforming devices may interoperate with subsequent devices.

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Stabilized Maintenance

INCITS 405-2005 [S2015], Information technology - SCSI Block Commands - 2 (SBC-2) (stabilized maintenance of INCITS 405:2005 [R2010])

This standard defines the command set extensions to facilitate operation of SCSI direct-access block devices. The clauses of this standard, implemented in conjunction with the applicable clauses of SPC-3, fully specify the standard command set for SCSI direct-access block devices.

The objective of this standard is to:

a) permit an application client to communicate over a SCSI service delivery subsystem with a logical unit that declares itself to be a direct-access block device in the peripheral device type field of the standard inquiry data (see SPC-3); and

b) define commands unique to the direct-access block device type.

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Stabilized Maintenance

INCITS 341:2000 [S2015], Information technology - 25.4 mm (1 in) Type DCRsi Recorded Instrumentation - Digital Cartridge Tape Format (stabilized maintenance of INCITS 341:2000 [R2010])

This standard establishes the format of information on 25.4 mm (1 in) type DCRsi instrumentation digital cartridges. It specifies the dimensions and locations of the transverse scan data and pilot tone track, the control track and the longitudinal data track. It defines the formatting, randomizing, ECC, and other recording requirements of the data blocks forming the transverse data record, containing user data and other associated data and specifies the content, format, and recording method for the control record to ensure that a compliant recorder will be able to reproduce the recorded tape. This standard also specifies the recording requirements for the longitudinal records contained in the longitudinal data tracks. Additionally this standard specifies the prerecord and post-record zones of the transverse scan tracks and the longitudinal data track. The physical requirements, magnetic requirements and test methods for the magnetic tape and tape cartridge are also specified in this standard. All dimensions given are metric with their corresponding U.S. customary engineering units (similar to British Imperial units) shown in parentheses.

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Stabilized Maintenance

INCITS/ISO 1860:1986 [S2015], Information processing - Precision reels for magnetic tape used in interchange instrumentation applications (stabilized maintenance of INCITS/ISO/IEC 1860:1988 [R2010])

This Standard defines the recorder/reproducer interface or envelope requirements for precision reels with 76 mm (3 in) centre hole, designed for use in magnetic tape interchange instrumentation applications.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Stabilized Maintenance

INCITS/ISO/IEC 11579-1:1994 [S2015], Information technology - Telecommunications and information exchange between systems - Private integrated services network - Part 1: Reference configuration for PISN Exchanges (PINX) (stabilized maintenance of INCITS/ISO/IEC 11579-1:1994 [R2010])

This standard specifies a reference configuration (RC) for private integrated services network exchanges (PINX) for their interconnection to form private integrated services networks (PISN). The configuration is not intended to require any specific implementation of a PINX, but only to provide guidance for the specification of PINX capabilities. This RC is sufficient to support ISDN-like applications. It can be extended to also support non-ISDN-like applications. This RC describes a conceptual PINX. By combining multiple PINXs to a private integrated services network the RC becomes applicable to a PISN.

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INCITS/ISO/IEC 11579-1:1994/COR 1:1996 [S2015], Information technology - Telecommunications and information exchange between systems - Private integrated services network - Part 1: Reference configuration for PISN Exchanges (PINX) - Technical Corrigendum 1 (stabilized maintenance of INCITS/ISO/IEC 11579-1:1994 [S2015])

Technical Corrigendum 1 to ISO/IEC 11579-1:1994.

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Stabilized Maintenance

INCITS/ISO/IEC 15521:1998 [S2015], Information technology - 3,81 mm wide magnetic tape cartridge for information interchange - Helical scan recording - DDS-3 format using 125 m length tapes (stabilized maintenance of INCITS/ISO/IEC 15521:1998 [R2010])

This Standard specifies the physical and magnetic characteristics of a 3,81 mm wide magnetic tape cartridge to enable physical interchangeability of such cartridges between drives. It also specifies the quality of the recorded signals, the recording method and the recorded format - called Digital Data Storage (DDS) - thereby allowing data interchange between drives by means of such magnetic tape cartridges. Information interchange between systems also requires, at a minimum, agreement between the interchange parties upon the interchange code(s) and the specifications of the structure and labelling of the information on the interchanged cartridge. Under information interchange circumstances in which a processing algorithm, e.g., for lossless data compression as specified in ISO/IEC 11558, is applied to the host data prior to recording on the tape and a complementary reprocessing algorithm is applied after the data is read from the tape, agreement upon these by the interchange parties is also required.

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INCITS/ISO/IEC 15731:2000 [S2015], Information technology - 12,65 mm wide magnetic tape cassette for information interchange - Helical scan recording - DTF-1 format (stabilized maintenance of INCITS/ISO/IEC 15731:1998 [R2010])

This Standard specifies the physical and magnetic characteristics of magnetic tape cassettes, using magnetic tape 12,65 mm wide so as to provide physical interchange of such cassettes between drives. It also specifies the quality of the recorded signals, the recording method and the recorded format, called Digital Tape Format-1 (DTF-1), thereby allowing data interchange between drives by means of such cassettes. The format supports variable length Logical Records, high speed search, and the use of a registered algorithm for data compression. This Standard specifies two sizes of cassette. For the purposes of this International Standard the larger cassette is referred to as Type L, and the smaller as Type S. Together with a standard for volume and file structure, e.g. ISO 1001, this International Standard provides for full data interchange between data processing systems.

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Stabilized Maintenance

INCITS/ISO/IEC 15757:2000 [S2015], Information technology - Data interchange on 8 mm wide magnetic tape cartridge - Helical scan recording - DA-2 format (stabilized maintenance of INCITS/ISO/IEC 15757:1998 [R2010])

This Standard specifies the physical and magnetic characteristics of a 8 mm wide magnetic tape cartridge to enable physical interchange of such cartridges between drives. It also specifies the quality of the recorded signals, the recording method and the recorded format, thereby allowing data interchange between drives by means of such magnetic tape cartridges.

Information interchange between systems also requires, at a minimum, agreement between the interchange parties upon the interchange code(s) and the specifications of the structure and labelling of the information on the interchanged cartridge.

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Stabilized Maintenance

INCITS/ISO/IEC 15780:2000 [S2015], Information Technology - 8 mm Wide Magnetic Tape Cartridge - Helical Scan Recording - AIT-1 Format (stabilized maintenance of INCITS/ISO/IEC 15780:1998 [R2010])

Specifies the physical and magnetic characteristics of an 8 mm wide magnetic tape cartridge to enable physical interchange of such cartridges between drives. Also specifies the quality of the recorded signals, the recording method and the recorded format - called Advanced Intelligent Tape No. 1 (AIT-1) - thereby allowing data interchange between drives by means of such magnetic tape cartridges. Information interchange between systems also requires, at a minimum, agreement between the interchange parties upon the interchange code(s) and the specifications of the structure and labelling of the information on the interchanged cartridge.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Withdrawal

INCITS 456:2010, Information Technology - Speaker Recognition Format for Raw Data Interchange (SIVR-1) (withdrawal of INCITS 456:2010)

This standard specifies a concept and data format for representation of the human voice at the raw-data level with optional inclusion of nonstandardized extended data. It does not address handling of data that has been processed to the feature or voice model levels.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Withdrawal

INCITS/ISO/IEC TR 18015:2006[2010], Information technology - Programming languages, their environments and system software interfaces - Technical Report on C++ Performance (withdrawal of INCITS/ISO/IEC TR 18015:2006 [2010])

The aim of this technical report is to: give the reader a model of time and space overheads implied by use of various C++ language and library features; debunk widespread myths about performance problems in C++; present techniques for use of C++ in applications where performance matters; and present techniques for implementing C++ standard language and library facilities to yield efficient code.

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UL (Underwriters Laboratories, Inc.)***New Standard***

BSR/UL 1640-201x, Standard for Safety for Portable Power-Distribution Equipment (new standard)

The requirements of UL 1640 cover portable power-distribution equipment intended for use in the following locations: a) Carnivals, circuses, fairs, and similar locations in accordance with Article 525 of the National Electrical Code (NEC), NFPA 70; b) Exhibition halls in accordance with Article 518 of the NEC; c) Motion picture and television studios and similar locations in accordance with Article 530 of the NEC; d) Theaters, audience areas of motion-picture and television studios, and similar locations in accordance with Article 520 of the NEC; and e) Temporary installations at construction sites in accordance with Article 590 of the NEC.

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Send comments (with copy to psa@ansi.org) to: Derrick Martin, (408) 754-6656, Derrick.L.Martin@ul.com

UL (Underwriters Laboratories, Inc.)***Revision***

BSR/UL 2158-201x, Standard for Safety for Electric Clothes Dryers (revision of ANSI/UL 2158-2014a)

(1) Proposed Fourth Edition of the Standard for Safety for Electric Clothes Dryers, UL 2158.

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Send comments (with copy to psa@ansi.org) to: Mitchell Gold, (847) 664-2850, Mitchell.Gold@ul.com

Corrections

Withdrawal of Proposed Standard**INCITS 524**

The public comment opportunity announced in the July 31, 2015 issue of Standards Action has been withdrawn for the following standard: INCITS 524 Information Technology - AT Attachment - 8 ATA/ATAPI Parallel Transport (ATA8-APT). Questions may be directed to Rachel Porter at rporter@itic.org.

Incorrect Project Intent**BSR/AWS D8.17M-201X**

In the Call-for-Comment section of the August 21 issue of Standards Action, the public review announcement for BSR/AWS D8.17M-201X, Specification for Automotive Weld Quality - Friction Stir Welding, should have listed the proposed standard as "new". The public comment period ends on October 5, 2015.

Call for Members (ANS Consensus Bodies)

Directly and materially affected parties who are interested in participating as a member of an ANS consensus body for the standards listed below are requested to contact the sponsoring standards developer directly and in a timely manner.

AAMI (Association for the Advancement of Medical Instrumentation)

Office: 4301 N Fairfax Drive
Suite 301
Arlington, VA 22203-1633

Contact: Hae Choe

Phone: (703) 253-8268

Fax: (703) 276-0793

E-mail: HChoe@aami.org; customerservice@aami.org

BSR/AAMI/IEC 60601-2-19/A1-201x, Medical electrical equipment - Part 2-19: Particular requirements for the basic safety and essential performance of infant incubators (Amendment 1) (addenda to ANSI/AAMI/IEC 60601-2-19-201x)

BSR/AAMI/IEC 60601-2-20/A1-201x, Medical electrical equipment - Part 2-20: Particular requirements for the basic safety and essential performance of infant transport incubators (Amendment 1) (addenda to ANSI/AAMI/IEC 60601-2-20-201x)

BSR/AAMI/IEC 60601-2-21/A1-201x, Medical electrical equipment - Part 2-21: Particular requirements for the basic safety and essential performance of infant radiant warmers (Amendment 1) (addenda to ANSI/AAMI/IEC 60601-2-21-201x)

BSR/AAMI/IEC 60601-2-50/A1-201x, Medical electrical equipment - Part 2-50: Particular requirements for the basic safety and essential performance of infant phototherapy equipment (Amendment 1) (addenda to ANSI/AAMI/IEC 60601-2-50-201x)

BSR/AAMI/IEC 80601-2-35/A1-201x, Medical electrical equipment - Part 2-35: Particular requirements for the basic safety and essential performance of heating devices using blankets, pads or mattresses and intended for heating in medical use (Amendment 1) (addenda to ANSI/AAMI/IEC 80601-2-35-201x)

BSR/AAMI/IEC 80601-2-58/A1-201x, Medical electrical equipment - Part 2-58: Particular requirements for the basic safety and essential performance of lens removal and vitrectomy devices for ophthalmic surgery (Amendment 1) (addenda to ANSI/AAMI/IEC 80601-2-58-201x)

BSR/AAMI/ISO 14708-3-201x, Implants for surgery - Active implantable medical devices - Part 3: Implantable neurostimulators (identical national adoption of ISO 14708-3, Ed. 2 (in development) and revision of ANSI/AAMI/ISO 14708-3-2008 (R2011))

BSR/AAMI/ISO 22442-1-201x, Medical devices utilizing animal tissues and their derivatives - Part 1: Application of risk management (national adoption of ISO 22442-1:2015(E) with modifications and revision of ANSI/AAMI/ISO 22442-1-2007 (R2011))

Obtain an electronic copy from: www.aami.org

BSR/AAMI/ISO 22442-2-201x, Medical devices utilizing animal tissues and their derivatives - Part 2: Controls on sourcing, collection and handling (national adoption of ISO 22442-2:2015 (E) with modifications and revision of ANSI/AAMI/ISO 22442-2-2007 (R2011))

ARMA (ARMA International)

Office: 11880 College Boulevard
Suite 450
Overland Park, KS 66210

Contact: Nancy Barnes

Phone: (913) 312-5565

Fax: (913) 341-3742

E-mail: standards@armaintl.org

BSR/ARMA 5-201X, Vital Records Programs: Identifying, Managing, and Recovering Business-Critical Records (revision of ANSI/ARMA 5-2010)

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

Office: 1791 Tullie Circle NE
Atlanta, GA 30329

Contact: Tanisha Meyers-Lisle

Phone: (678) 539-1111

Fax: (678) 539-2111

E-mail: tmlisle@ashrae.org

BSR/ASHRAE Standard 25-2001 (R201x), Methods of Testing Forced Convection and Natural Convection Air Coolers for Refrigeration (reaffirmation of ANSI/ASHRAE Standard 25-2001 (R2006))

Obtain an electronic copy from: Free download at <http://www.ashrae.org/standards-research--technology/public-review-drafts>

ITI (INCITS) (InterNational Committee for Information Technology Standards)

Office: 1101 K Street, NW
Suite 610
Washington, DC 20005-3922

Contact: Barbara Bennett

Phone: (202) 626-5743

Fax: (202) 638-4922

E-mail: comments@ititc.org

INCITS 218-2000 [S2015], Information technology - High-Performance Parallel Interface - Encapsulation of ISO/IEC 8802-2 (IEEE Std 802.2) Logical Link Control Protocol Data Units (HIPPI-LE) (stabilized maintenance of INCITS 218:2000 [R2010])

INCITS 328-2000 [S2015], Information Technology - 19 mm DD-2 Helical Scan Digital Computer Tape Cassette for Information Interchange (stabilized maintenance of INCITS 328:2000 [R2010])

INCITS 329-2000 [S2015], Magnetic Tape Cartridge for Information Interchange, 0.50 in (12.65 mm), Serial Serpentine, 208-Track, 85 940 bpi (3383 bps), DLT5 Format (stabilized maintenance of INCITS 329:2000 [R2010])

INCITS 330-2000 [S2015], Information technology - Reduced Block Commands (RBC) (stabilized maintenance of INCITS 330:2000 [R2010])

INCITS 333-2000 [S2015], Information technology - SCSI Multi-Media Commands - 2 (MMC-2) (stabilized maintenance of INCITS 333:2000 [R2010])

INCITS 334-2000 [S2015], Information Technology - Magnetic Tape Cartridge for Information Interchange - 0.50 in (12.65 mm), Serial Serpentine 128-Track, 62 500 BPI (2 460 BPMM) DLT 3-XT Format (stabilized maintenance of INCITS 334:2000 [R2010])

INCITS 335-2000 [R2015], Information technology - Small Computer System Interface (SCSI-3) Stream Commands (SSC) (reaffirmation of INCITS 335:2000 [R2010])

INCITS 337-2000 [S2015], Information technology - Scheduled Transfer Protocol (ST) (stabilized maintenance of INCITS 337:2000 [R2010])

INCITS 340-2000 [R2015], Information technology - AT Attachment with Packet Interface - 5 (reaffirmation of INCITS 340:2000 [R2010])

INCITS 401-2005 [S2015], Information technology - SCSI Multimedia Commands - 4 (MMC-4) (stabilized maintenance of INCITS 401:2005 [R2010])

INCITS 403-2005 [R2015], Information technology - Automation/Drive Interface - Commands (ADC) (reaffirmation of INCITS 403:2005 [R2010])

INCITS 405-2005 [S2015], Information technology - SCSI Block Commands - 2 (SBC-2) (stabilized maintenance of INCITS 405:2005 [R2010])

INCITS 406-2005 [R2015], Information technology - Automation/Drive Interface - Transport Protocol (ADT) (reaffirmation of INCITS 406:2005 [R2010])

INCITS 407-2005 [R2015], Information technology - BIOS Enhanced Disk Drive Services - 3 (EDD-3) (reaffirmation of INCITS 407:2005 [R2010])

INCITS 452-2009/AM 1:2010 [R2015], Information technology - AT Attachment-8 ATA/ATAPI Command Set (ATA8-ACS) - Amendment 1 (reaffirmation of INCITS 452-2009/AM 1-2010)

INCITS 457-2010 [R2015], Information technology - Serial Attached SCSI - 2 (SAS-2) (reaffirmation of INCITS 457-2010)

INCITS 461-2010 [R2015], Information technology - Fibre Channel - Switch Fabric - 5 (FC-SW-5) (reaffirmation of INCITS 461-2010)

INCITS 462-2010 [R2015], Information technology - Fibre Channel - Backbone - 5 (FC-BB-5) (reaffirmation of INCITS 462-2010)

INCITS 463-2010 [R2015], Information technology - Fibre Channel - Generic Services - 6 (FC-GS-6) (reaffirmation of INCITS 463-2010)

INCITS 464-2010 [R2015], Information technology - Information Management - Extensible Access Method (XAM™) (reaffirmation of INCITS 464-2010)

INCITS 465-2010 [R2015], Information technology - SCSI/ATA Translation - 2 (SAT-2) (reaffirmation of INCITS 465-2010)

INCITS 468-2010 [R2015], Information technology - Multi-media Command Set - 6 (MMC-6) (reaffirmation of INCITS 468-2010)

INCITS 469-2015, Information technology - Open Virtualization Format (OVF) specification (revision of INCITS 469-2010)

INCITS 471-2010 [R2015], Information technology - USB Attached SCSI (UAS) (reaffirmation of INCITS 471-2010)

INCITS 456:2010, Information Technology - Speaker Recognition Format for Raw Data Interchange (SIVR-1) (withdrawal of INCITS 456-2010)

INCITS 83:1995 [R2015], Information Systems - ISO Registration According to ISO 2375 - ANSI Sponsorship Procedures (reaffirmation of INCITS 83:1995 [R2010])

INCITS 341:2000 [S2015], Information technology - 25.4 mm (1 in) Type DCRsi Recorded Instrumentation - Digital Cartridge Tape Format (stabilized maintenance of INCITS 341:2000 [R2010])

INCITS 442:2010 [R2015], Information Technology - Biometric Identity Assurance Services (BIAS) (reaffirmation of INCITS 442-2010)

INCITS 378:2009/AM 1:2010 [R2015], Information Technology - Finger Minutiae Format for Data Interchange - Amendment 1 (reaffirmation of INCITS 378-2009/AM 1-2010)

INCITS/ISO 5654-1:1984 [R2015], Information processing - Data interchange on 200 mm (8 in) flexible disk cartridges using two-frequency recording at 13 262 ftrpad, 1,9 tpm (48 tpi), on one side - Part 1: Dimensional, physical and magnetic characteristics (reaffirmation of INCITS/ISO 5654-1:1984 [2010])

INCITS/ISO 6596-1:1985 [R2015], Information processing - Data interchange on 130 mm (5.25 in) flexible disk cartridges using two-frequency recording at 7 958 ftrpad, 1,9 tpm (48 tpi), on one side - Part 1: Dimensional, physical and magnetic characteristics (reaffirmation of INCITS/ISO 6596-1:1985 [2010])

INCITS/ISO 8630-1:1987 [R2015], Information processing - Data interchange on 130 mm (5.25 in) flexible disk cartridges using modified frequency modulation recording at 13 262 ftrpad, on 80 tracks on each side - Part 1: Dimensional, physical and magnetic characteristics (reaffirmation of INCITS/ISO 8630-1:1987 [2010])

INCITS/ISO 19111-2:2009 [R2015], Geographic information - Spatial referencing by coordinates - Part 2: Extension for parametric values (reaffirmation of INCITS/ISO 19111-2:2009 [2010])

INCITS/ISO 19125-1:2004 [R2015], Geographic information - Simple feature access - Part 1: Common architecture (reaffirmation of INCITS/ISO 19125-1:2004 [R2010])

INCITS/ISO 19125-2:2004 [R2015], Geographic information - Simple feature access - Part 2: SQL option (reaffirmation of INCITS/ISO 19125-2:2004 [R2010])

INCITS/ISO 19144-1:2009 [R2015], Geographic information - Classification systems - Part 1: Classification system structure (reaffirmation of INCITS/ISO 19144-1:2009 [2010])

INCITS/ISO 1860:1986 [S2015], Information processing - Precision reels for magnetic tape used in interchange instrumentation applications (stabilized maintenance of INCITS/ISO/IEC 1860:1988 [R2010])

INCITS/ISO 3562:1976 [R2015], Information processing - Interchangeable magnetic single-disk cartridge (top loaded) - Physical and magnetic characteristics (reaffirmation of INCITS/ISO 3562:1976 [2010])

INCITS/ISO 19106:2004 [R2015], Geographic information - Profiles (reaffirmation of INCITS/ISO 19106:2004 [R2010])

INCITS/ISO 19110:2005 [R2015], Geographic information - Methodology for feature cataloguing (reaffirmation of INCITS/ISO 19110:2005 [R2010])

INCITS/ISO 19116:2004 [R2015], Geographic information - Positioning services (reaffirmation of INCITS/ISO 19116:2004 [R2010])

INCITS/ISO 19119:2005 [R2015], Geographic information - Services (reaffirmation of INCITS/ISO 19119:2005 [R2010])

INCITS/ISO 19128:2005 [R2015], Geographic information - Web map server interface (reaffirmation of INCITS/ISO 19128:2005 [2010])

- INCITS/ISO 6709:2008/COR 1:2009 [R2015], Standard representation of geographic point location by coordinates - Technical Corrigendum 1 (reaffirmation of INCITS/ISO 6709:2008/COR 1:2010)
- INCITS/ISO 19108:2002/COR 1:2006 [R2015], Geographic information - Temporal schema - Technical Corrigendum 1 (reaffirmation of INCITS/ISO 19108:2002/COR 1:2006)
- INCITS/ISO/IEC 2382-36:2013[R2015], Information technology - Vocabulary - Part 36: Learning, education and training (identical national adoption of and revision of INCITS/ISO/IEC 2382-36:2008 [2010])
- INCITS/ISO/IEC 7065-1:1985 [R2015], Information processing - Data interchange on 200 mm (8 in) flexible disk cartridges using modified frequency modulation recording at 13 262 ftrpad, 1,9 tpm (48 tpi), on both sides - Part 1: Dimensional, physical and magnetic characteristics (reaffirmation of INCITS/ISO 7065-1:1985 [2010])
- INCITS/ISO/IEC 7487-1:1993 [R2015], Information technology - Data interchange on 130 mm (5,25 in) flexible disk cartridges using modified frequency modulation recording at 7 958 ftrpad, 1,9 tpm (48 tpi), on both sides - ISO type 202 - Part 1: Dimensional, physical and magnetic characteristics (reaffirmation of INCITS/ISO/IEC 7487-1:1993 [2010])
- INCITS/ISO/IEC 8378-1:1986 [R2015], Information processing - Data interchange on 130 mm (5,25 in) flexible disk cartridges using modified frequency modulation recording at 7 958 ftrpad, 3,8 tpm (96 tpi), on both sides - Part 1: Dimensional, physical and magnetic characteristics (reaffirmation of INCITS/ISO 8378-1:1986 [2010])
- INCITS/ISO/IEC 8632-1:1999/COR 1:2006 [R2015], Information technology - Computer graphics - Metafile for the storage and transfer of picture description information - Part 1: Functional specification - Technical Corrigendum 1 (reaffirmation of INCITS/ISO/IEC 8632-1:1999/Cor 1:2010)
- INCITS/ISO/IEC 8632-1:1999/COR 2:2007 [R2015], Information technology - Computer graphics - Metafile for the storage and transfer of picture description information - Part 1: Functional specification - Technical Corrigendum 2 (reaffirmation of INCITS/ISO/IEC 8632-1:1999/Cor 2:2010)
- INCITS/ISO/IEC 8859-2:1999 [R2015], Information technology - 8-bit single-byte coded graphic character sets - Part 2: Latin alphabet No. 2 (reaffirmation of INCITS/ISO/IEC 8859-2:1999 [R2010])
- INCITS/ISO/IEC 8859-3:1999 [R2015], Information technology - 8-bit single-byte coded graphic character sets - Part 3: Latin alphabet No. 3 (reaffirmation of INCITS/ISO/IEC 8859-3:1999 [R2010])
- INCITS/ISO/IEC 8859-5:1999 [R2015], Information technology - 8-bit single-byte coded graphic character sets - Part 5: Latin/Cyrillic alphabet (reaffirmation of INCITS/ISO/IEC 8859-5:1999 [R2010])
- INCITS/ISO/IEC 8859-6:1999 [R2015], Information technology - 8-bit single-byte coded graphic character sets - Part 6: Latin/Arabic alphabet (reaffirmation of INCITS/ISO/IEC 8859-6:1999 [R2010])
- INCITS/ISO/IEC 8859-8:1999 [R2015], Information technology - 8-bit single-byte coded graphic character sets - Part 8: Latin/Hebrew alphabet (reaffirmation of INCITS/ISO/IEC 8859-8:1999 [R2010])
- INCITS/ISO/IEC 8859-16:2001 [R2015], Information technology - 8-bit single-byte coded graphic character sets - Part 16: Latin alphabet No. 10 (reaffirmation of INCITS/ISO/IEC 8859-16:2001 [2008])
- INCITS/ISO/IEC 8860-1:1987 [R2015], Information processing - Data interchange on 90 mm (3,5 in) flexible disk cartridges using modified frequency modulation recording at 7 958 ftrpad on 80 tracks on each side - Part 1: Dimensional, physical and magnetic characteristics (reaffirmation of INCITS/ISO 8860-1:1987 [2010])
- INCITS/ISO/IEC 9529-1:1989 [R2015], Information processing systems - Data interchange on 90 mm (3,5 in) flexible disk cartridges using modified frequency modulation recording at 15 916 ftrpad, on 80 tracks on each side - Part 1: Dimensional, physical and magnetic characteristics (reaffirmation of INCITS/ISO/IEC 9529-1:1989 [1989])
- INCITS/ISO/IEC 9593-1:1990/COR 1:1993 [R2015], Information processing systems - Computer graphics - Programmer's Hierarchical Interactive Graphics System (PHIGS) language bindings - Part 1: FORTRAN - Technical Corrigendum 1 (reaffirmation of INCITS/ISO/IEC 9593-1:1990/Cor 1:2010)
- INCITS/ISO/IEC 9593-1:1990/COR 2:1994 [R2015], Information processing systems - Computer graphics - Programmer's Hierarchical Interactive Graphics System (PHIGS) language bindings - Part 1: FORTRAN - Technical Corrigendum 2 (reaffirmation of INCITS/ISO/IEC 9593-1:1990/Cor 2:2010)
- INCITS/ISO/IEC 9593-3:1990/COR 1:1993 [R2015], Information technology - Computer graphics - Programmer's Hierarchical Interactive Graphics System (PHIGS) language bindings - Part 3: ADA - Technical Corrigendum 1 (reaffirmation of INCITS/ISO/IEC 9593-3:1990/Cor 1:2010)
- INCITS/ISO/IEC 9593-3:1990/COR 2:1994 [R2015], Information technology - Computer graphics - Programmer's Hierarchical Interactive Graphics System (PHIGS) language bindings - Part 3: ADA - Technical Corrigendum 2 (reaffirmation of INCITS/ISO/IEC 9593-3:1990/Cor 2:1994)
- INCITS/ISO/IEC 9593-4:1991/COR 1:1994 [R2015], Information technology - Computer graphics - Programmer's Hierarchical Interactive Graphics System (PHIGS) language bindings - Part 4: C - Technical Corrigendum 1 (reaffirmation of INCITS/ISO/IEC 9593-4:1991/Cor 1:2010)
- INCITS/ISO/IEC 9798-2:2008 [R2015], Information technology - Security techniques - Entity authentication - Part 2: Mechanisms using symmetric encipherment algorithms (reaffirmation of INCITS/ISO/IEC 9798-2:1999 [2000])
- INCITS/ISO/IEC 9798-5:2009 [R2015], Information technology - Security techniques - Entity authentication - Part 5: Mechanisms using zero-knowledge techniques (reaffirmation of INCITS/ISO/IEC 9798-5:2009 [2010])
- INCITS/ISO/IEC 9834-6:2005 [R2015], Information technology - Open Systems Interconnection - Procedures for the operation of OSI Registration Authorities: Registration of application processes and application entities (reaffirmation of INCITS/ISO/IEC 9834-6:2005 [2010])
- INCITS/ISO/IEC 9834-9:2008 [R2015], Information technology - Open Systems Interconnection - Procedures for the operation of OSI Registration Authorities: Registration of object identifier arcs for applications and services using tag-based identification (reaffirmation of INCITS/ISO/IEC 9834-9:2008 [2010])
- INCITS/ISO/IEC 11179-1:2004 [R2015], Information technology - Metadata registries (MDR) - Part 1: Framework (reaffirmation of INCITS/ISO/IEC 11179-1:2004 [R2010])
- INCITS/ISO/IEC 11179-6:2005 [R2015], Information technology - Metadata registries (MDR) - Part 6: Registration (reaffirmation of INCITS/ISO/IEC 11179-6:2005 [R2010])
- INCITS/ISO/IEC 11579-1:1994 [S2015], Information technology - Telecommunications and information exchange between systems - Private integrated services network - Part 1: Reference configuration for PISN Exchanges (PINX) (stabilized maintenance of INCITS/ISO/IEC 11579-1:1994 [R2010])

- INCITS/ISO/IEC 11579-1:1994/COR 1:1996 [R2015], Information technology - Telecommunications and information exchange between systems - Private integrated services network - Part 1: Reference configuration for PISN Exchanges (PINX) - Technical Corrigendum 1 (stabilized maintenance of INCITS/ISO/IEC 11579-1:1994 [S2015])
- INCITS/ISO/IEC 12087-2:1994/COR 1:1997 [R2015], Information technology - Computer graphics and image processing - Image Processing and Interchange (IPI) - Functional specification - Part 2: Programmer's imaging kernel system application programme interface - Technical Corrigendum 1 (reaffirmation of INCITS/ISO/IEC 12087-2:1994/Cor 1:2010)
- INCITS/ISO/IEC 12087-5:1998/COR 1:2001 [R2015], Information technology - Computer graphics and image processing - Image Processing and Interchange (IPI) - Functional specification - Part 5: Basic Image Interchange Format (BIIF) - Technical Corrigendum 1 (reaffirmation of INCITS/ISO/IEC 12087-5:1998/Cor 1:2010)
- INCITS/ISO/IEC 12087-5:1998/COR 2:2002 [R2015], Information technology - Computer graphics and image processing - Image Processing and Interchange (IPI) - Functional specification - Part 5: Basic Image Interchange Format (BIIF) - Technical Corrigendum 2 (reaffirmation of INCITS/ISO/IEC 12087-5:1998/Cor 2:2010)
- INCITS/ISO/IEC 13888-3:2009 [R2015], Information technology - Security techniques - Non-repudiation - Part 3: Mechanisms using asymmetric techniques (reaffirmation of INCITS/ISO/IEC 13888-3:2009 [2010])
- INCITS/ISO/IEC 14443-1:2008 [R2015], Identification cards - Contactless integrated circuit cards - Proximity cards - Part 1: Physical characteristics (reaffirmation of INCITS/ISO/IEC 14443-1:2008 [2010])
- INCITS/ISO/IEC 14772-1:1997 [R2015], Information technology - Computer graphics and image processing - The Virtual Reality Modeling Language - Part 1: Functional specification and UTF-8 encoding (reaffirmation of INCITS/ISO/IEC 14772-1:1997 [R2010])
- INCITS/ISO/IEC 14772-1:1997/AM 1:2003 [R2015], Information technology - Computer graphics and image processing - The Virtual Reality Modeling Language - Part 1: Functional specification and UTF-8 encoding - Amendment 1 (reaffirmation of INCITS/ISO/IEC 14772-1:1997/AM1:2004 [R2010])
- INCITS/ISO/IEC 14776-414:2009 [R2015], Information technology - Small Computer System Interface (SCSI) - Part 414: SCSI Architecture Model-4 (SAM-4) (reaffirmation of INCITS/ISO/IEC 14776-414:2009 [2010])
- INCITS/ISO/IEC 14888-1:2008 [R2015], Information technology - Security techniques - Digital signatures with appendix - Part 1: General (reaffirmation of INCITS/ISO/IEC 14888-1:2008 [2010])
- INCITS/ISO/IEC 15444-1:2004 [R2015], Information technology - JPEG 2000 image coding system: Core coding system (reaffirmation of INCITS/ISO/IEC 15444-1:2004 [R2010])
- INCITS/ISO/IEC 15944-7:2009 [R2015], Information technology - Business Operational View - Part 7: eBusiness vocabulary (reaffirmation of INCITS/ISO/IEC 15944-7:2009 [2010])
- INCITS/ISO/IEC 18014-1:2008 [R2015], Information technology - Security techniques - Time-stamping services - Part 1: Framework (reaffirmation of INCITS/ISO/IEC 18014-1:2008 [2009])
- INCITS/ISO/IEC 18014-2:2009 [R2015], Information technology - Security techniques - Time-stamping services - Part 2: Mechanisms producing independent tokens (reaffirmation of INCITS/ISO/IEC 18014-2:2009 [2010])
- INCITS/ISO/IEC 18014-3:2009 [R2015], Information technology - Security techniques - Time-stamping services - Part 3: Mechanisms producing linked tokens (reaffirmation of INCITS/ISO/IEC 18014-3:2009 [2010])
- INCITS/ISO/IEC 19757-4:2006/COR 1:2008 [R2015], Information technology - Document Schema Definition Languages (DSDL) - Part 4: Namespace-based Validation Dispatching Language (NVDL) - Technical Corrigendum 1 (reaffirmation of INCITS/ISO/IEC 19757-4:2006/Cor 1:2010)
- INCITS/ISO/IEC 19778-1:2008 [R2015], Information technology - Learning, education and training - Collaborative technology - Collaborative workplace - Part 1: Collaborative workplace data model (reaffirmation of INCITS/ISO/IEC 19778-1:2008 [2010])
- INCITS/ISO/IEC 19778-2:2008 [R2015], Information technology for Learning, Education and Training - Collaborative Technology - Collaborative workplace - Part 2: Collaborative Environmental Data Model (reaffirmation of INCITS/ISO/IEC 19778-2:2008 [2010])
- INCITS/ISO/IEC 19778-3:2008 [R2015], Information technology - Learning, education and training - Collaborative technology - Collaborative workplace - Part 3: Collaborative group data model (reaffirmation of INCITS/ISO/IEC 19778-3:2008 [2010])
- INCITS/ISO/IEC 19785-4:2010 [R2015], Information technology - Common Biometric Exchange Formats Framework - Part 4: Security block format specifications (reaffirmation of INCITS/ISO/IEC 19785-4:2010 [2010])
- INCITS/ISO/IEC 19785-1:2006/AM 1:2010 [R2015], Information technology - Common Biometric Exchange Formats Framework - Part 1: Data element specification - Amendment 1 (reaffirmation of INCITS/ISO/IEC 19785-1:2006/Amd 1:2010)
- INCITS/ISO/IEC 19785-2:2006/AM 1:2010 [R2015], Information technology - Common Biometric Exchange Formats Framework - Part 2: Procedures for the operation of the Biometric Registration Authority - Amendment 1: Additional registrations (reaffirmation of INCITS/ISO/IEC 19785-2:2006/Amd 1-2010)
- INCITS/ISO/IEC 19785-3:2007/AM 1:2010 [R2015], Information technology - Common Biometric Exchange Formats Framework - Part 3: Patron format specifications - Amendment 1: Support for Additional Data Elements (reaffirmation of INCITS/ISO/IEC 19785-3:2007/Amd 1-2010)
- INCITS/ISO/IEC 19794-2:2005/COR 1:2009 [R2015], Information technology - Biometric data interchange formats - Part 2: Finger minutiae data - Technical Corrigendum 1 (reaffirmation of INCITS/ISO/IEC 19794-2:2011/Cor 1:2014)
- INCITS/ISO/IEC 19794-5:2005/AM 2:2009 [R2015], Information technology - Biometric data interchange formats - Part 5: Face image data - Amendment 2: Three-dimensional face image data interchange format (reaffirmation of INCITS/ISO/IEC 19794-5:2005/AMD 2-2010)
- INCITS/ISO/IEC 19794-7:2007/COR 1:2009 [R2015], Information technology - Biometric data interchange formats - Part 7: Signature/sign time series data - Technical Corrigendum 1 (reaffirmation of INCITS/ISO/IEC 19794-7:2007/Cor 1:2010)
- INCITS/ISO/IEC 19796-3:2009 [R2015], Information technology - Learning, education and training - Quality management, assurance and metrics - Part 3: Reference methods and metrics (reaffirmation of INCITS/ISO/IEC 19796-3:2009 [2010])
- INCITS/ISO/IEC 21000-7:2007 [R2015], Information technology - Multimedia framework (MPEG-21) - Part 7: Digital Item Adaptation (reaffirmation of INCITS/ISO/IEC 21000-7:2007 [2009])

- INCITS/ISO/IEC 23360-1:2006 [R2015], Linux Standard Base (LSB) core specification 3.1 - Part 1: Generic specification (reaffirmation of INCITS/ISO/IEC 23360-1:2006 [2010])
- INCITS/ISO/IEC 23360-2:2006 [R2015], Linux Standard Base (LSB) core specification 3.1 - Part 2: Specification for IA32 architecture (reaffirmation of INCITS/ISO/IEC 23360-2:2006 [2010])
- INCITS/ISO/IEC 23360-3:2006 [R2015], Linux Standard Base (LSB) core specification 3.1 - Part 3: Specification for IA64 architecture (reaffirmation of INCITS/ISO/IEC 23360-3:2006 [2010])
- INCITS/ISO/IEC 23360-4:2006 [R2015], Linux Standard Base (LSB) core specification 3.1 - Part 4: Specification for AMD64 architecture (reaffirmation of INCITS/ISO/IEC 23360-4:2006 [2010])
- INCITS/ISO/IEC 23360-5:2006 [R2015], Linux Standard Base (LSB) core specification 3.1 - Part 5: Specification for PPC32 architecture (reaffirmation of INCITS/ISO/IEC 23360-5:2006 [2010])
- INCITS/ISO/IEC 23360-6:2006 [R2015], Linux Standard Base (LSB) core specification 3.1 - Part 6: Specification for PPC64 architecture (reaffirmation of INCITS/ISO/IEC 23360-6:2006 [2010])
- INCITS/ISO/IEC 23360-7:2006 [R2015], Linux Standard Base (LSB) core specification 3.1 - Part 7: Specification for S390 architecture (reaffirmation of INCITS/ISO/IEC 23360-7:2006 [2010])
- INCITS/ISO/IEC 23360-8:2006 [R2015], Linux Standard Base (LSB) core specification 3.1 - Part 8: Specification for S390X architecture (reaffirmation of INCITS/ISO/IEC 23360-8:2006 [2010])
- INCITS/ISO/IEC 24713-3:2009 [R2015], Information technology - Biometric profiles for interoperability and data interchange - Part 3: Biometrics-based verification and identification of seafarers (reaffirmation of INCITS/ISO/IEC 24713-3:2009 [2010])
- INCITS/ISO/IEC 24824-1:2007 [R2015], Information technology - Generic applications of ASN.1: Fast infosec (reaffirmation of INCITS/ISO/IEC 24824-1:2007 [2010])
- INCITS/ISO/IEC 24824-2:2006 [R2015], Information technology - Generic applications of ASN.1: Fast Web Services (reaffirmation of INCITS/ISO/IEC 24824-2:2006 [2010])
- INCITS/ISO/IEC 24824-3:2008 [R2015], Information technology - Generic applications of ASN.1: Fast infosec security (reaffirmation of INCITS/ISO/IEC 24824-3:2008 [2010])
- INCITS/ISO/IEC 29109-1:2009 [R2015], Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 1: Generalized conformance testing methodology (reaffirmation of INCITS/ISO/IEC 29109-1:2009 [2010])
- INCITS/ISO/IEC 29109-2:2010 [R2015], Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 2: Finger minutiae data (reaffirmation of INCITS/ISO/IEC 29109-2:2010 [2010])
- INCITS/ISO/IEC 29109-4:2010 [R2015], Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 4: Finger image data (reaffirmation of INCITS/ISO/IEC 29109-4:2010 [2010])
- INCITS/ISO/IEC 29794-1:2009 [R2015], Information technology - Biometric sample quality - Part 1: Framework (reaffirmation of INCITS/ISO/IEC 29794-1:2009 [2010])
- INCITS/ISO/IEC 2382:2015 [2015], Information technology - Vocabulary (identical national adoption of and revision of INCITS/ISO/IEC 2382-5:1999 [R2014])
- INCITS/ISO/IEC 3561:1976 [R2015], Information processing - Interchangeable magnetic six-disk pack - Track format (reaffirmation and redesignation of INCITS/ISO 3561:1976 [2010])
- INCITS/ISO/IEC 3563:1976 [R2015], Information processing - Interchangeable magnetic single-disk cartridge (top loaded) - Track format (reaffirmation of INCITS/ISO 3563:1976 [2010])
- INCITS/ISO/IEC 3564:1976 [R2015], Information processing - Interchangeable magnetic eleven-disk pack - Physical and magnetic characteristics (reaffirmation of INCITS/ISO 3564:1976 [2010])
- INCITS/ISO/IEC 3692:1996 [R2015], Information processing - Reels and cores for 25.4 mm (1 in) perforated paper tape for information interchange - Dimensions (reaffirmation of INCITS/ISO 3692:1976 [2010])
- INCITS/ISO/IEC 4337:1977 [R2015], Information processing - Interchangeable magnetic twelve-disk pack (100 Mbytes) (reaffirmation of INCITS/ISO 4337:1977 [2010])
- INCITS/ISO/IEC 5653:1980 [R2015], Information processing - Interchangeable magnetic twelve-disk pack (200 Mbytes) (reaffirmation of INCITS/ISO 5653:1980 [2010])
- INCITS/ISO/IEC 9496:2003 [R2015], CHILL - The ITU-T programming language (reaffirmation of INCITS/ISO/IEC 9496:2003 [2010])
- INCITS/ISO/IEC 10744:1997 [R2015], Information technology - Hypermedia/Time-based Structuring Language (HyTime) (reaffirmation of INCITS/ISO/IEC 10744:1997 [2010])
- INCITS/ISO/IEC 10747:1994 [R2015], Information technology - Telecommunications and information exchange between systems - Protocol for exchange of inter-domain routing information among intermediate systems to support forwarding of ISO 8473 PDUs - Technical Corrigendum 1 (reaffirmation of INCITS/ISO/IEC 10747:1994 [2010])
- INCITS/ISO/IEC 10885:1993 [R2015], Information technology - 356 mm optical disk cartridge for information interchange - Write once (reaffirmation of INCITS/ISO/IEC 10885:1993 [2010])
- INCITS/ISO/IEC 11560:1992 [R2015], Information technology - Information interchange on 130 mm optical disk cartridges using the magneto-optical effect, for write once, read multiple functionality (reaffirmation of INCITS/ISO/IEC 11560:1992 [2010])
- INCITS/ISO/IEC 13673:2000 [R2015], Information technology - Document processing and related communication - Conformance testing for Standard Generalized Markup Language (SGML) systems (reaffirmation of INCITS/ISO/IEC 13673:2000 [2010])
- INCITS/ISO/IEC 14760:1997 [R2015], Information technology - Data interchange on 90 mm overwritable and read only optical disk cartridges using phase change - Capacity: 1,3 Gbytes per cartridge (reaffirmation of INCITS/ISO/IEC 14760:1997 [2010])
- INCITS/ISO/IEC 14977:2006 [R2015], Information technology - Syntactic metalanguage - Extended BNF (reaffirmation of INCITS/ISO/IEC 14977:2006 [2010])
- INCITS/ISO/IEC 15145:1997 [R2015], Information technology - Programming languages - FORTH (reaffirmation of INCITS/ISO/IEC 15145:1997 [2010])
- INCITS/ISO/IEC 15445:2000 [R2015], Information technology - Document description and processing languages - HyperText Markup Language (HTML) (reaffirmation of INCITS/ISO/IEC 15445:2000 [2010])

- INCITS/ISO/IEC 15485:1997 [R2015], Information technology - Data interchange on 120 mm optical disk cartridges using phase change PD format - Capacity: 650 Mbytes per cartridge (reaffirmation of INCITS/ISO/IEC 15485:1997 [2010])
- INCITS/ISO/IEC 15498:1997 [R2015], Information technology - Data interchange on 90 mm optical disk cartridges - HS-1 format - Capacity: 650 Mbytes per cartridge (reaffirmation of INCITS/ISO/IEC 15498:1997 [2010])
- INCITS/ISO/IEC 15521:1998 [S2015], Information technology - 3,81 mm wide magnetic tape cartridge for information interchange - Helical scan recording - DDS-3 format using 125 m length tapes (stabilized maintenance of INCITS/ISO/IEC 15521:1998 [R2010])
- INCITS/ISO/IEC 15718:1998 [R2015], Information technology - Data interchange on 8 mm wide magnetic tape cartridge - Helical scan recording - HH-1 format (reaffirmation of INCITS/ISO/IEC 15718:1998 [2010])
- INCITS/ISO/IEC 15731:2000 [S2015], Information technology - 12,65 mm wide magnetic tape cassette for information interchange - Helical scan recording - DTF-1 format (stabilized maintenance of INCITS/ISO/IEC 15731:1998 [R2010])
- INCITS/ISO/IEC 15757:2000 [S2015], Information technology - Data interchange on 8 mm wide magnetic tape cartridge - Helical scan recording - DA-2 format (stabilized maintenance of INCITS/ISO/IEC 15757:1998 [R2010])
- INCITS/ISO/IEC 15780:2000 [S2015], Information Technology - 8 mm Wide Magnetic Tape Cartridge - Helical Scan Recording - AIT-1 Format (stabilized maintenance of INCITS/ISO/IEC 15780:1998 [R2010])
- INCITS/ISO/IEC 15895:1999 [R2015], Information technology - Data interchange on 12,7 mm 128-track magnetic tape cartridges - DLT 3-XT format (reaffirmation of INCITS/ISO/IEC 15895:1999 [2010])
- INCITS/ISO/IEC 15896:1999 [R2015], Information technology - Data interchange on 12,7 mm 208-track magnetic tape cartridges - DLT 5 format (reaffirmation of INCITS/ISO/IEC 15896:1999 [2010])
- INCITS/ISO/IEC 16382:2000 [R2015], Information technology - Data interchange on 12,7 mm 208-track magnetic tape cartridges - DLT 6 format (reaffirmation of INCITS/ISO/IEC 16382:2000 [2010])
- INCITS/ISO/IEC 16509:1999 [R2015], Information technology - Year 2000 terminology (reaffirmation of INCITS/ISO/IEC 16509:1999 [2010])
- INCITS/ISO/IEC 16824:1999 [R2015], Information technology - 120 mm DVD rewritable disk (DVD-RAM) (reaffirmation of INCITS/ISO/IEC 16824:1999 [2010])
- INCITS/ISO/IEC 16825:1999 [R2015], Information technology - Case for 120 mm DVD-RAM disks (reaffirmation of INCITS/ISO/IEC 16825:1999 [2010])
- INCITS/ISO/IEC 16969:1999 [R2015], Information technology - Data interchange on 120 mm optical disk cartridges using +RW format - Capacity: 3,0 Gbytes and 6,0 Gbytes (reaffirmation of INCITS/ISO/IEC 16969:1999 [2010])
- INCITS/ISO/IEC 17342:2004 [R2015], Information technology - 80 mm (1,46 Gbytes per side) and 120 mm (4,70 Gbytes per side) DVD re-recordable disk (DVD-RW) (reaffirmation of INCITS/ISO/IEC 17342:2004 [2010])
- INCITS/ISO/IEC 17346:2005 [R2015], Information technology - Data interchange on 90 mm optical disk cartridges - Capacity: 1,3 Gbytes per cartridge (reaffirmation of INCITS/ISO/IEC 17346:2005 [2010])
- INCITS/ISO/IEC 17592:2004 [R2015], Information technology - 120 mm (4,7 Gbytes per side) and 80 mm (1,46 Gbytes per side) DVD rewritable disk (DVD-RAM) (reaffirmation of INCITS/ISO/IEC 17592:2004 [2010])
- INCITS/ISO/IEC 17594:2004 [R2015], Information technology - Cases for 120 mm and 80 mm DVD-RAM disks (reaffirmation of INCITS/ISO/IEC 17594:2004 [2010])
- INCITS/ISO/IEC 17913:2000 [R2015], Information technology - 12,7mm 128-track magnetic tape cartridge for information interchange - Parallel serpentine format (reaffirmation of INCITS/ISO/IEC 17913:2000 [2000])
- INCITS/ISO/IEC 18026:2009 [R2015], Information technology - Spatial Reference Model (SRM) (reaffirmation of INCITS/ISO/IEC 18026:2009 [2010])
- INCITS/ISO/IEC 18092:2013[2015], Information technology -- Telecommunications and information exchange between systems -- Near Field Communication -- Interface and Protocol (NFCIP-1) (identical national adoption of ISO/IEC 18092:2013 and revision of INCITS/ISO/IEC 18092:2004[2010])
- INCITS/ISO/IEC 19136:2007 [R2015], Geographic information - Geography Markup Language (GML) (reaffirmation and redesignation of INCITS/ISO 19136:2007 [2010])
- INCITS/ISO/IEC 21481:2012[2015], Information technology -- Telecommunications and information exchange between systems -- Near Field Communication Interface and Protocol -2 (NFCIP-2) (identical national adoption of ISO/IEC 21481:2012 and revision of INCITS/ISO/IEC 21481:2005[2010])
- INCITS/ISO/IEC 22533:2005 [R2015], Information technology - Data interchange on 90 mm Optical Disk Cartridges - Capacity: 2,3 Gbytes per Cartridge (reaffirmation of INCITS/ISO/IEC 22533:2005 [2010])
- INCITS/ISO/IEC 22536:2013[2015], Information technology -- Telecommunications and information exchange between systems -- Near Field Communication Interface and Protocol (NFCIP-1) -- RF interface test methods (identical national adoption of ISO/IEC 22536:2013 and revision of INCITS/ISO/IEC 22536:2005[2010])
- INCITS/ISO/IEC 22537:2006 [R2015], Information technology - ECMAScript for XML (E4X) specification (reaffirmation of INCITS/ISO/IEC 22537:2006 [2010])
- INCITS/ISO/IEC 23912:2005 [R2015], Information technology - 80 mm (1,46 Gbytes per side) and 120 mm (4,70 Gbytes per side) DVD Recordable Disk (DVD-R) (reaffirmation of INCITS/ISO/IEC 23912:2005 [2010])
- INCITS/ISO/IEC 23917:2005 [R2015], Information technology - Telecommunications and information exchange between systems - NFCIP-1 - Protocol Test Methods (reaffirmation of INCITS/ISO/IEC 23917:2005 [2010])
- INCITS/ISO/IEC 24747:2009 [R2015], Information technology - Programming languages, their environments and system software interfaces - Extensions to the C Library to support mathematical special functions (reaffirmation of INCITS/ISO/IEC 24747:2009 [2010])
- INCITS/ISO/IEC 25435:2006 [R2015], Data Interchange on 60 mm Read-Only ODC - Capacity: 1,8 Gbytes (UMDTM) (reaffirmation of INCITS/ISO/IEC 25435:2006 [2010])
- INCITS/ISO/IEC 25436:2006 [R2015], Information technology - Eiffel: Analysis, Design and Programming Language (reaffirmation of INCITS/ISO/IEC 25436:2006 [2010])

INCITS/ISO/IEC 28361:2007 [R2015], Information technology - Telecommunications and information exchange between systems - Near Field Communication Wired Interface (NFC-WI) (reaffirmation of INCITS/ISO/IEC 28361:2007 [2010])

INCITS/ISO/IEC 29141:2009 [R2015], Information technology - Biometrics - Tenprint capture using biometric application programming interface (BioAPI) (reaffirmation of INCITS/ISO/IEC 29141:2009 [2010])

INCITS/ISO/IEC 29171:2009 [R2015], Information technology - Digitally recorded media for information interchange and storage - Information Versatile Disk for Removable usage (iVDR) cartridge (reaffirmation of INCITS/ISO/IEC 29171:2009 [2010])

INCITS/ISO/IEC 8879:1986/AM 1:1988 [R2015], Information processing - Text and office systems - Standard Generalized Markup Language (SGML) - Amendment 1 (reaffirmation of INCITS/ISO 8879:1986/Amd 1:2010)

INCITS/ISO/IEC 8879:1986/COR 1:1996 [R2015], Information processing - Text and office systems - Standard Generalized Markup Language (SGML) - Technical Corrigendum 1 (reaffirmation of INCITS/ISO 8879:1986/Cor 1:2010)

INCITS/ISO/IEC 8879:1986/COR 2:1999 [R2015], Information processing - Text and office systems - Standard Generalized Markup Language (SGML) - Technical Corrigendum 2 (reaffirmation of INCITS/ISO 8879:1986/Cor 2:2010)

INCITS/ISO/IEC 10036:1996/COR 1:2001 [R2015], Information technology - Font information interchange - Procedures for registration of font-related identifiers - Technical Corrigendum 1 (reaffirmation of INCITS/ISO/IEC 10036:1996/Cor 1:2010)

INCITS/ISO/IEC 10036:1996/COR 2:2002 [R2015], Information technology - Font information interchange - Procedures for registration of font-related identifiers - Technical Corrigendum 2 (reaffirmation of INCITS/ISO/IEC 10036:1996/Cor 2:2010)

INCITS/ISO/IEC 10179:1996/COR 1:2001 [R2015], Information technology - Processing languages - Document Style Semantics and Specification Language (DSSSL) - Technical Corrigendum 1 (reaffirmation of INCITS/ISO/IEC 10179:1996/Cor 1:2010)

INCITS/ISO/IEC 10179:1996/AM 2:2005 [R2015], Information technology - Processing languages - Document Style Semantics and Specification Language (DSSSL) - Amendment 2 (reaffirmation of INCITS/ISO/IEC 10179:1996/Amd 2:2010)

INCITS/ISO/IEC 10180:1995/COR 1:2001 [R2015], Information technology - Processing languages - Standard Page Description Language (SPDL) - Technical Corrigendum 1 (reaffirmation of INCITS/ISO/IEC 10180:1995/Cor 1:2010)

INCITS/ISO/IEC 10747:1994/COR 1:1996 [R2015], Information technology - Telecommunications and information exchange between systems - Protocol for exchange of inter-domain routing information among intermediate systems to support forwarding of ISO 8473 PDUs (reaffirmation of INCITS/ISO/IEC 10747:1994/Cor1:2010)

INCITS/ISO/IEC 10747:1994/AM 1:2010 [R2015], Information technology - Telecommunications and information exchange between systems - Protocol for exchange of inter-domain routing information among intermediate systems to support forwarding of ISO 8473 PDUs - Amendment 1: Implementation conformance statement proformas (reaffirmation of INCITS/ISO/IEC 10747:1994/AM1:2010)

INCITS/ISO/IEC TR 18015:2006[2010], Information technology - Programming languages, their environments and system software interfaces - Technical Report on C++ Performance (withdrawal of INCITS/ISO/IEC TR 18015:2006 [2010])

ISO/IEC 19794-2:2005/AM 1:2010 [R2015], Information technology - Biometric data interchange formats - Part 2: Finger minutiae data - Amendment 1: Detailed description of finger minutiae location, direction, and type (reaffirmation of INCITS/ISO/IEC 19794-2:2005/Amd 1:2010)

NEMA (ASC C78) (National Electrical Manufacturers Association)

Office: 1300 N 17th St
Rosslyn, VA 22209

Contact: Michael Erbesfeld

Phone: 703-841-3262

E-mail: Michael.Erbesfeld@nema.org

BSR C78.LL3-2003 (R201X), Procedures for High Intensity Discharge Lamp Sample Preparation and the Toxicity Characteristic Leaching Procedure (reaffirmation of ANSI C78.LL3-2003 (R2008))

BSR C78.5-2003 (R201X), Specifications for Performance of Self-ballasted Compact Fluorescent Lamps (reaffirmation of ANSI C78.5-2003 (R2008))

BSR C78.LL1256-2003 (R201x), Procedures for Fluorescent Lamp Sample Preparation and the Toxicity Characteristic Leaching Procedure (reaffirmation of ANSI C78.LL1256-2003 (R2008))

BSR C78.1460-2004 (R201X), Single-Ended Tungsten-Halogen Lamps GZ9.5 Base, T6 Bulb, 36.5mm LCL, 76.2mm MOL with Proximity Reflector (reaffirmation of ANSI C78.1460-2004 (R2008))

NEMA (ASC C82) (National Electrical Manufacturers Association)

Office: 1300 N 17th St
Rosslyn, VA 22209

Contact: Michael Erbesfeld

Phone: 703-841-3262

E-mail: Michael.Erbesfeld@nema.org

BSR C82.1-2004 (R201X), Lamp Ballast - Line Frequency Fluorescent Lamp Ballast (reaffirmation of ANSI C82.1-2004 (R2008))

NENA (National Emergency Number Association)

Office: 1700 Diagonal Road
Suite 500
Alexandria, VA 22314

Contact: Roger Hixson

Phone: (202) 618-4405

E-mail: rhixson@nena.org

BSR/NENA-STA-026.2-201X, NENA PSAP Master Clock Standard (new standard)

TAPPI (Technical Association of the Pulp and Paper Industry)

Office: 15 Technology Parkway South
Peachtree Corners, GA 30092

Contact: Laurence Womack

Phone: (770) 209-7277

Fax: (770) 446-6947

E-mail: standards@tappi.org

BSR/TAPPI T 543 om-201x, Bending Resistance of Paper (Gurley-Type Tester) (new standard)

WMMA (ASC O1) (Wood Machinery Manufacturers of America)

Office: 9 Newport Drive
Suite 200
Forest Hill, MD 21050

Contact: *Jennifer Miller*

Phone: (443) 640-1052

Fax: (443) 640-1031

E-mail: jennifer@wmma.org

BSR O1.1-6-201x, Safety Requirements for Edgebanders (new standard)

Call for Members (ANS Consensus Bodies)

Seeking Participants in the ANSI/NEMA SG-IPRM Canvass Group

The Smart Grid Interoperability Panel (SGIP) and the National Electrical Manufacturers Association (NEMA) are working together to convert the Interoperability Process Reference Manual (IPRM) into an ANSI/NEMA standard. We are seeking volunteers to participate in a canvassing committee for the purpose of developing an American National Standard. The IPRM is a key foundational element of the SGIP Smart Grid Testing and Certification Committee (SGTCC). The SGTCC developed and issued the IPRM to detail its recommendations on testing and certification processes and best practices that enhance the introduction of interoperable products in the market place. These recommendations build upon international standards-based processes for interoperability testing and certification.

We are seeking participants in the following categories 1) General Interest: Organization or individual that has an interest in the use of equipment included in the scope of this standard, but doesn't use it directly; 2) Producer: Manufacturer of equipment included in the scope of this standard; 3) Testing Laboratory: Organization that tests equipment included in the scope of this standard to established specifications; and 4) User: Organization that uses equipment included in the scope of this standard. We specifically need additional participants in the User category.

If you are interested in participating, please contact NEMA Smart Grid Program Manager Khaled Masri (Khaled.masri@nema.org). Please indicate your Interest Category as well as your area of expertise.

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.

AAMI (Association for the Advancement of Medical Instrumentation)

New National Adoption

ANSI/AAMI HA60601-1-11-2015, Medical electrical equipment - Part 1
-11: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment (national adoption of IEC 60601-1-11:2015 with modifications and revision of ANSI/AAMI HA60601-1-11-2011): 8/25/2015

ASA (ASC S2) (Acoustical Society of America)

Reaffirmation

ANSI/ASA S2.61-1989 (R2015), Guide to Mechanical Mounting of Accelerometers (reaffirmation of ANSI/ASA S2.61-1989 (R2010)): 8/27/2015

ASABE (American Society of Agricultural and Biological Engineers)

Revision

ANSI/ASAE S331.6-2015, Implement Power Take-Off Driveline Specifications (revision and redesignation of ANSI/ASAE S331.5-DEC82 (R2010)): 8/26/2015

ATIS (Alliance for Telecommunications Industry Solutions)

Revision

ANSI/ATIS 0600320-2015, Above-Baseline Electrical Protection for Designated Telecommunications Central Offices and Similar-Type Facilities Against High-Altitude Electromagnetic Pulse (HEMP) (revision of ANSI/ATIS 0600320-2010): 8/27/2015

AWS (American Welding Society)

Revision

ANSI/AWS D1.9/D1.9M-2015, Structural Welding Code - Titanium (revision of ANSI/AWS D1.9/D1.9M-2007): 8/27/2015

B11 (B11 Standards, Inc.)

Revision

ANSI B11.0-2015, Safety of Machinery (revision of ANSI B11.0-2010): 8/25/2015

CEA (Consumer Electronics Association)

Revision

* ANSI/CEA 2042.1-B-2015, Wireless Power Glossary of Terms (revision and redesignation of ANSI/CEA 2042.1-A-2012): 8/27/2015

CEMA (Conveyor Equipment Manufacturers Association)

Revision

ANSI/CEMA B105.1-2015, Welded Steel Conveyor Pulleys (revision of ANSI/CEMA B105.1-2009): 8/26/2015

ECIA (Electronic Components Industry Association)

Revision

ANSI/EIA 364-04B-2015, Normal Force Test Procedure for Electrical Connectors (revision and redesignation of ANSI/EIA 364-04A-2009): 8/26/2015

ANSI/EIA 364-08C-2015, Crimp Tensile Strength Test Procedure for Electrical Connectors (revision and redesignation of ANSI/EIA 364-08B-2009): 8/26/2015

ITI (INCITS) (InterNational Committee for Information Technology Standards)

Withdrawal

INCITS/ISO/IEC TR 10091:1995 [2010], Information technology - Technical Aspects of 130 mm Optical Disk Cartridges - Write-once Recording formats (withdrawal of INCITS/ISO/IEC TR 10091:1995 [2010]): 8/27/2015

INCITS/ISO/IEC TR 13561:1994 [2010], Information technology - Guidelines for effective use of optical disk cartridges conforming to ISO/IEC 10090 (withdrawal of INCITS/ISO/IEC TR 13561:1994 [2010]): 8/27/2015

INCITS/ISO/IEC TR 13841:1995 [2010], Information technology - Guidance on measurement techniques for 90 mm optical disk cartridges (withdrawal of INCITS/ISO/IEC TR 13841:1995 [2010]): 8/27/2015

NEMA (ASC C119) (National Electrical Manufacturers Association)

New Standard

ANSI C119.0-2015, Testing Methods and Equipment Common to the ANSI C119 Family of Standards - For Electric Connectors (new standard): 8/14/2015

NSF (NSF International)

Revision

* ANSI/NSF 58-2015 (i71), Reverse Osmosis Drinking Water Treatment Systems (revision of ANSI/NSF 58-2014): 8/25/2015

PLASA (PLASA North America)

New Standard

ANSI E1.55-2015, Standard for Theatrical Makeup Mirror Lighting (new standard): 8/25/2015

UL (Underwriters Laboratories, Inc.)

Reaffirmation

ANSI/UL 1426-2010 (R2015), Standard for Electrical Cables for Boats (reaffirmation of ANSI/UL 1426-2010): 8/26/2015

Revision

ANSI/UL 558-2015, Standard for Safety for Industrial Trucks, Internal Combustion Engine-Powered (revision of ANSI/UL 558-2014): 8/26/2015

ANSI/UL 746A-2015, Standard for Safety for Polymeric Materials - Short Term Property Evaluations (revision of ANSI/UL 746A-2014b): 8/27/2015

ANSI/UL 746A-2015a, Standard for Safety for Polymeric Materials - Short Term Property Evaluations (revision of ANSI/UL 746A-2015): 8/27/2015

ANSI/UL 1821-2015, Standard for Safety for Thermoplastic Sprinkler Pipe and Fittings for Fire Protection Service (Proposal dated October 31, 2014) (revision of ANSI/UL 1821-2011a): 8/25/2015

ANSI/UL 1821-2015, Standard for Safety For Thermoplastic Sprinkler Pipe and Fittings for Fire Protection Service (revision of ANSI/UL 1821-2011a): 8/25/2015

ANSI/UL 2079-2015, Standard for Tests for Fire Resistance of Building Joint Systems (revision of ANSI/UL 2079-2014): 8/26/2015

VITA (VMEbus International Trade Association (VITA))

Revision

ANSI/VITA 49.0-2015, VITA Radio Transport (VRT) Standard (revision of ANSI/VITA 49.0-2009): 8/27/2015

ANSI/VITA 49.1-2015, VITA Radio Link Layer Standard (revision of ANSI/VITA 49.1-2009): 8/27/2015

Project Initiation Notification System (PINS)

ANSI Procedures require notification of ANSI by ANSI-accredited standards developers (ASD) of the initiation and scope of activities expected to result in new or revised American National Standards (ANS). Early notification of activity intended to reaffirm or withdraw an ANS and in some instances a PINS related to a national adoption is optional. The mechanism by which such notification is given is referred to as the PINS process. For additional information, see clause 2.4 of the ANSI Essential Requirements: Due Process Requirements for American National Standards.

Following is a list of proposed actions and new ANS that have been received recently from ASDs. Please also review the section in Standards Action entitled "American National Standards Maintained Under Continuous Maintenance" for additional or comparable information with regard to standards maintained under the continuous maintenance option. To view information about additional standards for which a PINS has been submitted and to search approved ANS, please visit www.NSSN.org, which is a database of standards information. Note that this database is not exhaustive.

Directly and materially affected interests wishing to receive more information or to submit comments are requested to contact the standards developer directly within 30 days of the publication of this announcement.

AAMI (Association for the Advancement of Medical Instrumentation)

Office: 4301 N Fairfax Drive
Suite 301
Arlington, VA 22203-1633

Contact: Hae Choe

Fax: (703) 276-0793

E-mail: HChoe@aami.org; customerservice@aami.org

BSR/AAMI/IEC 60601-2-19/A1-201x, Medical electrical equipment -
Part 2-19: Particular requirements for the basic safety and essential performance of infant incubators (Amendment 1) (addenda to BSR/AAMI/IEC 60601-2-19-201x)

Stakeholders: Manufacturers and users of infant incubators.

Project Need: Proposed amendment to an existing American National Standard.

This amendment removes the dates of the general and collateral standard references, makes some editorial updates and adds information regarding audible alarm sound level.

BSR/AAMI/IEC 60601-2-20/A1-201x, Medical electrical equipment -
Part 2-20: Particular requirements for the basic safety and essential performance of infant transport incubators (Amendment 1) (addenda to BSR/AAMI/IEC 60601-2-20-201x)

Stakeholders: Manufacturers and users of infant incubators.

Project Need: Proposed amendment to an existing American National Standard.

This amendment removes the dates of the general and collateral standard references, makes some editorial updates and adds information regarding audible alarm sound level as well as emergency service environment.

BSR/AAMI/IEC 60601-2-21/A1-201x, Medical electrical equipment -
Part 2-21: Particular requirements for the basic safety and essential performance of infant radiant warmers (Amendment 1) (addenda to BSR/AAMI/IEC 60601-2-21-201x)

Stakeholders: Manufacturers and users of infant radiant warmers.

Project Need: Proposed amendment to an existing American National Standard.

This amendment removes the dates of the general and collateral standard references, makes some editorial updates and adds information regarding audible alarm sound level.

BSR/AAMI/IEC 60601-2-50/A1-201x, Medical electrical equipment -
Part 2-50: Particular requirements for the basic safety and essential performance of infant phototherapy equipment (Amendment 1) (addenda to BSR/AAMI/IEC 60601-2-50-201x)

Stakeholders: Manufacturers and users of infant phototherapy equipment.

Project Need: Proposed amendment to an existing American National Standard.

This amendment removes the dates of the general and collateral standard references, makes some editorial updates and adds information regarding acoustic energy and electromagnetic disturbances.

BSR/AAMI/IEC 80601-2-35/A1-201x, Medical electrical equipment -
Part 2-35: Particular requirements for the basic safety and essential performance of heating devices using blankets, pads or mattresses and intended for heating in medical use (Amendment 1) (addenda to BSR/AAMI/IEC 80601-2-35-201x)

Stakeholders: Manufacturers and users of blankets, pads or mattresses intended for heating in medical use.

Project Need: Proposed amendment to an existing American National Standard.

This amendment removes the dates of the general and collateral standard references, other updates to follow the collateral standards as well as add information for the test procedure for maximum contact surface temperature for forced air devices.

BSR/AAMI/IEC 80601-2-58/A1-201x, Medical electrical equipment -
Part 2-58: Particular requirements for the basic safety and essential performance of lens removal and vitrectomy devices for ophthalmic surgery (Amendment 1) (addenda to BSR/AAMI/IEC 80601-2-58-201x)

Stakeholders: Manufacturers and users of lens removal and vitrectomy devices for ophthalmic surgery.

Project Need: Proposed amendment to an existing American National Standard.

This amendment modifies the content of the second edition of IEC 80601-2-58 and includes an integration of updated definition of essential performance and updating the essential performance analysis, removing the dates of collateral and general standard references, addition of symbols, and updating of EMC requirements

ARMA (ARMA International)

Office: 11880 College Boulevard
Suite 450
Overland Park, KS 66210

Contact: Nancy Barnes

Fax: (913) 341-3742

E-mail: standards@armaintl.org

BSR/ARMA 5-201X, Vital Records Programs: Identifying, Managing, and Recovering Business-Critical Records (revision of ANSI/ARMA 5-2010)

Stakeholders: Stakeholders include records/information management practitioners, vendors, and educators, as well as information governance professionals.

Project Need: The purpose of this project is to create a publication serving as a revised edition of ANSI/ARMA 5-2010: Vital Records Programs: Identifying, Managing, and Recovering Business-Critical Records.

This publication sets the requirements and recommendations for the establishment of a vital records program within an organization. This publication does not apply to records that have migrated from vital status to another functional value.

AWS (American Welding Society)

Office: 8669 NW 36th Street
Miami, FL 33166

Contact: Efram Abrams

Fax: (305) 443-5951

E-mail: eabrams@aws.org

BSR/AWS J1.3/J1.3M-201x, Specification of Resistance Welding Electrode Materials (new standard)

Stakeholders: Resistance welding material producers, users and distributors.

Project Need: Establish current material property values (e.g., hardness, electrical conductivity, and dimensional tolerance) within an American National Standard for common resistance welding electrode materials. An additional rationale is to describe common applications of these materials. The standard will also provide cross referencing to ISO 5182, Materials for resistance welding electrodes and ancillary equipment.

Establish current material property values (e.g., hardness, electrical conductivity, and dimensional tolerance) within an American National Standard for common resistance welding electrode materials. An additional rationale is to describe common applications of these materials. The standard will also provide cross referencing to ISO 5182, Materials for resistance welding electrodes and ancillary equipment.

ILTVA (International Light Transportation Vehicle Association, Inc.)

Office: 5579-B Chamblee Dunwoody Road
Atlanta, GA 30338

Contact: Fred Somers

Fax: (770) 454-0138

E-mail: fsomers@iltva.org

* BSR/ILTVA Z135-2012, Standard for Personal Transport Vehicles - Safety and Performance Specifications (revision of ANSI/ILTVA Z135-2012)

Stakeholders: PTV manufacturers, distributors and users.

Project Need: Existing standard requires updating.

The existing standard provides safety and performance specifications relating to PTVs. Scope of revisions contemplated include without limitation, increasing the number of occupants allowed to include a wider range of vehicle types used in similar manner and location as PTVs. PTV is defined as a self-propelled vehicle with a minimum of 4 wheels, capable of a maximum level ground speed of less than 32 kph (20 mph), maximum rated payload capacity of 545 kg (1200 lb), maximum gross vehicle weight of 1,135 kg (2,500 lb) and capable of transporting not more than four persons, operating on designated roadways or property where permitted by law.

ITI (INCITS) (InterNational Committee for Information Technology Standards)

Office: 1101 K Street NW
Suite 610
Washington, DC 20005-3922

Contact: Deborah Spittle

Fax: (202) 638-4922

E-mail: comments@itic.org

INCITS/ISO/IEC 18092:2013[2015], Information technology -- Telecommunications and information exchange between systems -- Near Field Communication -- Interface and Protocol (NFCIP-1) (identical national adoption of ISO/IEC 18092:2013 and revision of INCITS/ISO/IEC 18092:2004[2010])

Stakeholders: ICT Industry.

Project Need: Adoption of this international standard is beneficial to the ICT Industry.

This standard defines communication modes for Near Field Communication Interface and Protocol (NFCIP 1) using inductive coupled devices operating at the centre frequency of 13.56 MHz for interconnection of computer peripherals. It also defines both the Active and the Passive communication modes of Near Field Communication Interface and Protocol (NFCIP-1) to realize a communication network using Near Field Communication devices for networked products and also for consumer equipment. This standard specifies, in particular, modulation schemes, codings, transfer speeds, and frame format of the RF interface, as well as initialization schemes and conditions required for data collision control during initialization. It also defines a transport protocol including protocol activation and data exchange methods.

INCITS/ISO/IEC 21481:2012[2015], Information technology --
Telecommunications and information exchange between systems --
Near Field Communication Interface and Protocol -2 (NFCIP-2)
(identical national adoption of ISO/IEC 21481:2012 and revision of
INCITS/ISO/IEC 21481:2005[2010])

Stakeholders: ICT Industry.

Project Need: Adoption of this international standard is beneficial to the ICT Industry.

ISO/IEC 18092, ISO/IEC 14443 and ISO/IEC 15693 specify the radio frequency signal interface, initialization, anti-collision and protocols for wireless interconnection of closely coupled devices and access to contactless integrated circuit cards operating at 13,56 MHz. This Standard specifies the communication mode selection mechanism, designed not to disturb any ongoing communication at 13,56 MHz, for devices implementing ISO/IEC 18092, ISO/IEC 14443 or ISO/IEC 15693. This Standard requires implementations to enter the selected communication mode as specified in the respective Standard. The communication mode specifications, however, are outside the scope of this Standard.

INCITS/ISO/IEC 22536:2013[2015], Information technology --
Telecommunications and information exchange between systems --
Near Field Communication Interface and Protocol (NFCIP-1) -- RF
interface test methods (identical national adoption of ISO/IEC
22536:2013 and revision of INCITS/ISO/IEC 22536:2005[2010])

Stakeholders: ICT Industry.

Project Need: Adoption of this international standard is beneficial to the ICT Industry.

This standard is part of a suite of standards that specify tests for ISO/IEC 18092. It defines test methods for the RF-interface. This standard specifies RF-test methods for NFCIP-1 devices with antennas fitting within the rectangular area of 50 mm by 40 mm. This test standard, the first of two parts, specifies compliance tests for the RF interface of ISO/IEC 18092 devices. The companion test standard ISO/IEC 23917 specifies protocol tests for ISO/IEC 18092.

NENA (National Emergency Number Association)

Office: 1700 Diagonal Road
Suite 500
Alexandria, VA 22314

Contact: Roger Hixson

E-mail: rhixson@nena.org

BSR/NENA-STA-026.2-201X, NENA PSAP Master Clock Standard
(new standard)

Stakeholders: Public safety equipment users, producers and those with a general interest.

Project Need: Produce an ANS NENA standard that details functional and interface specifications for Enhanced 9-1-1 (E9-1-1) PSAP Master Clock devices. This standard will provide a needed update to NENA's existing PSAP Master Clock standard 04-002 v4, 04/09/2007.

Many systems in a PSAP create data records that include a timestamp – the date/time the record was created, or an event of interest occurred. Many of these are legal records, and it is important the timestamps are accurate across all systems involved. Using a common time source, or “Master Clock” to which all systems are synced accomplishes this goal. This will be an update to an existing standard, NENA PSAP Master Clock Standard 04-002 v4, 04/09/2007, and some of its provisions are outdated. This work will not define specifications for time synchronization in NG9-1-1 PSAPs; it will only do so for E9-1-1 PSAPs. The proposed standard will retain specifications for any legacy time sync interfaces that will still be needed in the foreseeable future, and correct any external references that have become stale or invalid.

TAPPI (Technical Association of the Pulp and Paper Industry)

Office: 15 Technology Parkway South
Peachtree Corners, GA 30092

Contact: Laurence Womack

Fax: (770) 446-6947

E-mail: standards@tappi.org

BSR/TAPPI T 543 om-201x, Bending Resistance of Paper (Gurley-Type Tester) (new standard)

Stakeholders: Manufacturers of pulp, paper, packaging, or related products, consumers or converters of such products, and suppliers of equipment, supplies, or raw materials for the manufacture of such products.

Project Need: To conduct required five-year review of an existing TAPPI standard in order to revise if needed to address new technology or correct errors.

This procedure determines the bending resistance of paper, paperboard, and other materials by measuring the force required to bend a specimen under controlled conditions. The instrument described allows for a wide variation in specimen length and width, and in applied force.

TIA (Telecommunications Industry Association)

Office: 1320 North Courthouse Road
Suite 200
Arlington, VA 22201

Contact: Teesha Jenkins

Fax: (703) 907-7727

E-mail: standards@tiaonline.org

BSR/TIA 455-171-B-201x, Attenuation by Substitution Measurement for Short Length Multimode Graded Index and Single-Mode Optical Fiber Cable Assemblies (identical national adoption of IEC 61300-3 -4/Ed3)

Stakeholders: Manufacturers and users of fiber optics cables.

Project Need: Adopt identical ISO or IEC standard.

Describes the various methods available to measure the attenuation of optical components.

WMMA (ASC O1) (Wood Machinery Manufacturers of America)

Office: 9 Newport Drive
Suite 200
Forest Hill, MD 21050

Contact: Jennifer Miller

Fax: (443) 640-1031

E-mail: jennifer@wmma.org

BSR O1.1-6-201x, Safety Requirements for Edgebanders (new standard)

Stakeholders: Woodworking machinery and accessory equipment producers and users.

Project Need: To create a new ANS based on the consensus of the ASCO1.

This standard is the machine specific standard addressing Edgebanders, under the O1.1 standard. The O1.1 standard covers the safety requirements for the design, installation, care and use of woodworking machinery and accessory equipment, used in industrial and commercial applications, having a total connected power of 5 hp (3.7 kw) or greater, or having 3-phase wiring.

American National Standards Maintained Under Continuous Maintenance

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)
- AAMVA (American Association of Motor Vehicle Administrators)
- 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 (The Green Building Initiative)
- GEIA (Greenguard Environmental Institute)
- HL7 (Health Level Seven)
- IESNA (The Illuminating Engineering Society of North America)
- MHI (ASC MH10) (Material Handling Industry)
- NAHBRC (NAHB Research Center, Inc.)
- NBBPVI (National Board of Boiler and Pressure Vessel Inspectors)
- NCPDP (National Council for Prescription Drug Programs)
- NISO (National Information Standards Organization)
- NSF (NSF International)
- PRCA (Professional Ropes Course Association)
- RESNET (Residential Energy Services Network)
- TIA (Telecommunications Industry Association)
- UL (Underwriters Laboratories, Inc.)

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, select "Standards Activities," click on "Public Review and Comment" and "American National Standards Maintained Under Continuous Maintenance." This information is also available directly at www.ansi.org/publicreview.

Alternatively, you may contact the Procedures & Standards Administration department (PSA) at psa@ansi.org or via fax at 212-840-2298. If you request that information be provided via E-mail, please include your E-mail address; if you request that information be provided via fax, please include your fax number. Thank you.

ANSI-Accredited Standards Developers Contact Information

The addresses listed in this section are to be used in conjunction with standards listed in PINS, Call for Comment 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 Standards Action Editor at standact@ansi.org.

AAMI

Association for the Advancement of
Medical Instrumentation

4301 N Fairfax Drive
Suite 301
Arlington, VA 22203-1633
Phone: (703) 253-8268
Fax: (703) 276-0793
Web: www.aami.org

AISI

American Iron and Steel Institute
25 Massachusetts Avenue, NW
Suite 800
Washington, DC 20001
Phone: (202) 452-7100
Fax: (202) 452-1039
Web: www.steel.org

API

American Petroleum Institute
1220 L Street, NW
Washington, DC 20005-4070
Phone: (202) 682-8157
Web: www.api.org

ARMA

ARMA International
11880 College Boulevard
Suite 450
Overland Park, KS 66210
Phone: (913) 312-5565
Fax: (913) 341-3742
Web: www.arma.org

ASA (ASC S12)

Acoustical Society of America
1305 Walt Whitman Rd
Suite 300
Melville, NY 11747
Phone: (631) 390-0215
Fax: (631) 923-2875
Web: www.acousticalsociety.org

ASABE

American Society of Agricultural and
Biological Engineers
2950 Niles Road
St Joseph, MI 49085
Phone: (269) 932-7015
Fax: (269) 429-3852
Web: www.asabe.org

ASHRAE

American Society of Heating,
Refrigerating and Air-Conditioning
Engineers, Inc.
1791 Tullie Circle NE
Atlanta, GA 30329
Phone: (678) 539-1111
Fax: (678) 539-2111
Web: www.ashrae.org

ASME

American Society of Mechanical
Engineers
Two Park Avenue
New York, NY 10016
Phone: (212) 591-8521
Fax: (212) 591-8501
Web: www.asme.org

ATIS

Alliance for Telecommunications
Industry Solutions
1200 G Street, NW
Suite 500
Washington, DC 20005
Phone: (202) 434-8841
Fax: (202) 347-7125
Web: www.atis.org

AWS

American Welding Society
8669 NW 36th Street
Miami, FL 33166
Phone: (305) 443-9353
Fax: (305) 443-5951
Web: www.aws.org

AWWA

American Water Works Association
6666 W. Quincy Ave.
Denver, CO 80235
Phone: (303) 347-6178
Fax: (303) 795-7603
Web: www.awwa.org

B11

B11 Standards, Inc.
PO Box 690905
Houston, TX 77269-0905
Phone: (832) 446-6999

CEA

Consumer Electronics Association
1919 South Eads Street
Arlington, VA 22202
Phone: (703) 907-7697
Fax: (703) 907-4197
Web: www.ce.org

CEMA

Conveyer Equipment Manufacturers
Association
5672 Strand Court
Suite 2
Naples, FL 34110
Phone: (239) 514-3441
Fax: (239) 514-3470
Web: www.cemanet.org

ECIA

Electronic Components Industry
Association
2214 Rock Hill Road
Suite 265
Herndon, VA 20170-4212
Phone: (571) 323-0294
Fax: (571) 323-0245
Web: www.ecianow.org

ILTVA

International Light Transportation
Vehicle Association, Inc.
5579-B Chamblee Dunwoody Road
Atlanta, GA 30338
Phone: (770) 394-7200
Fax: (770) 454-0138
Web: www.ngcma.org

ITI (INCITS)

InterNational Committee for
Information Technology Standards
1101 K Street NW
Suite 610
Washington, DC 20005-3922
Phone: (202) 626-5746
Fax: (202) 638-4922
Web: www.incits.org

NEMA (ASC C12)

National Electrical Manufacturers
Association
1300 North 17th Street
Suite 900
Rosslyn, VA 22209
Phone: (703) 841-3227
Fax: (703) 841-3327
Web: www.nema.org

NEMA (ASC C78)

National Electrical Manufacturers
Association
1300 N 17th St
Rosslyn, VA 22209
Phone: 703-841-3262
Web: www.nema.org

NENA

National Emergency Number
Association
1700 Diagonal Road
Suite 500
Alexandria, VA 22314
Phone: (202) 618-4405
Web: www.nena.org

NSF

NSF International
789 N. Dixboro Road
Ann Arbor, MI 48105-9723
Phone: (734) 827-5643
Fax: (734) 827-7880
Web: www.nsf.org

PLASA

PLASA North America
630 Ninth Avenue
Suite 609
New York, NY 10036-3748
Phone: (212) 244-1505
Fax: (212) 244-1502
Web: www.plasa.org

SCTE

Society of Cable Telecommunications
Engineers
140 Philips Road
Exton, PA 19341-1318
Phone: (480) 252-2330
Fax: (610) 363-5898
Web: www.scte.org

TAPPI

Technical Association of the Pulp and
Paper Industry
15 Technology Parkway South
Peachtree Corners, GA 30092
Phone: (770) 209-7277
Fax: (770) 446-6947
Web: www.tappi.org

TIA

Telecommunications Industry
Association
1320 North Courthouse Road
Suite 200
Arlington, VA 22201
Phone: (703) 907-7706
Fax: (703) 907-7727
Web: www.tiaonline.org

UL

Underwriters Laboratories, Inc.
455 East Trimble Road
San Jose, CA 95131-1230
Phone: (408) 754-6656
Fax: (408) 754-6656
Web: www.ul.com

VITA

VMEbus International Trade
Association (VITA)
929 W. Portobello Avenue
Mesa, AZ 85210
Phone: (613) 799-5745
Web: www.vita.com

WMMA (ASC O1)

Wood Machinery Manufacturers of
America
9 Newport Drive
Suite 200
Forest Hill, MD 21050
Phone: (443) 640-1052
Fax: (443) 640-1031
Web: www.wmma.org



ISO Draft International Standards

This section lists proposed standards that the International Organization for Standardization (ISO) is 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 members for comment and vote. Standards Action readers interested in reviewing and commenting on these documents should order copies from ANSI.

Comments

Comments regarding ISO documents should be sent to ANSI's ISO Team (isot@ansi.org). The final date for offering comments is listed after each draft.

Ordering Instructions

ISO Drafts can be made available by contacting ANSI's Customer Service department. Please e-mail your request for an ISO Draft to Customer Service at sales@ansi.org. When making your request, please provide the date of the Standards Action issue in which the draft document you are requesting appears.

ACOUSTICS (TC 43)

ISO/DIS 18406, Underwater acoustics - Measurement of underwater radiated sound from percussive pile driving - 11/23/2015, \$98.00

CONTROL AND SAFETY DEVICES FOR NON INDUSTRIAL GAS-FIRED APPLIANCES AND SYSTEMS (TC 161)

ISO/DIS 23551-10, Safety and control devices for gas burners and gas-burning appliances - Particular requirements - Part 10: Vent valves - 11/23/2015, \$71.00

DOCUMENT IMAGING APPLICATIONS (TC 171)

ISO/DIS 18829, Document management - Assessing ECM/EDRM Implementations - Trustworthiness - 11/23/2015, \$46.00

FLOOR COVERINGS (TC 219)

ISO/DIS 20326, Resilient floor coverings - Specification for floor panels for loose laying - 11/16/2015, FREE

GRAPHIC TECHNOLOGY (TC 130)

ISO/DIS 17972-2, Graphic technology - Colour data exchange format (CxF/X) - Part 2: Scanner target data (CxF/X-2) - 11/13/2015, \$71.00

MATERIALS, EQUIPMENT AND OFFSHORE STRUCTURES FOR PETROLEUM AND NATURAL GAS INDUSTRIES (TC 67)

ISO/DIS 20088-1, Determination of the resistance to cryogenic spillage of insulation materials - Part 1: Liquid phase - 11/23/2015, \$82.00

NUCLEAR ENERGY (TC 85)

ISO/DIS 7195, Nuclear energy - Packagings for the transport of uranium hexafluoride (UF₆) - 11/23/2015, \$107.00

OTHER

ISO/DIS 17034, General requirements for the competence of reference material producers - 11/23/2015, \$88.00

PACKAGING (TC 122)

ISO/DIS 18616-1, Transport packaging - Reusable, rigid plastics distribution boxes - Part 1: General purpose application - 11/13/2015, \$67.00

ISO/DIS 18616-2, Transport packaging - Reusable, rigid plastics distribution boxes - Part 2: General specifications for testing - 11/13/2015, \$46.00

PERSONAL SAFETY - PROTECTIVE CLOTHING AND EQUIPMENT (TC 94)

ISO/DIS 22610, Surgical drapes, gowns and clean air suits, used as medical devices, for patients, clinical staff and equipment - Test method to determine the resistance to wet bacterial penetration - 11/23/2015, \$67.00

PLASTICS (TC 61)

ISO/DIS 9994, Lighters - Safety specification - 11/16/2015, \$98.00

ISO/DIS 22702, Utility Lighters - Safety specifications - 11/16/2015, \$88.00

ROAD VEHICLES (TC 22)

ISO/DIS 13296, Diesel engines - High-pressure fuel injection pipe assemblies - General requirements and dimensions - 11/14/2015, FREE

ISO/DIS 8820-4, Road vehicles - Fuse-links - Part 4: Fuse-links with female contacts (type A) and bolt-in contacts (type B) and their test fixtures - 11/14/2015, \$71.00

ISO/DIS 18418-1, Gasoline engines - Medium pressure liquid fuel supply connections - Part 1: 60° female cone connectors - 11/13/2015, \$40.00

SERVICE ACTIVITIES RELATING TO DRINKING WATER SUPPLY SYSTEMS AND WASTEWATER SYSTEMS - QUALITY CRITERIA OF THE SERVICE AND PERFORMANCE INDICATORS (TC 224)

ISO/DIS 24523, Service activities relating to drinking water supply systems and wastewater systems - Guidelines for benchmarking of water utilities - 11/16/2015, \$71.00

SMALL CRAFT (TC 188)

ISO 15085/DAMd2, Small craft - Man-overboard prevention and recovery - Amendment 2 - 11/16/2015, \$33.00

ISO/DIS 8099, Small craft - Toilet waste retention systems - 11/23/2015, \$46.00

SPORTS AND RECREATIONAL EQUIPMENT (TC 83)

ISO/DIS 19202-1, Summer toboggan runs - Part 1: Safety requirements and test methods - 11/23/2015, \$119.00

ISO/DIS 19202-2, Summer toboggan runs - Part 2: Safety requirements for operation - 11/23/2015, \$107.00

ISO/DIS 23537-1, Requirements for sleeping bags - Part 1: Thermal and dimensional requirements - 11/23/2015, \$82.00

ISO/DIS 23537-2, Requirements for sleeping bags - Part 2: Fabric and material properties - 11/23/2015, \$46.00

THERMAL INSULATION (TC 163)

ISO/DIS 18523-1, Energy performance of buildings - Schedule and condition of building, zone and room usage for energy calculation - Part 1: Non-residential buildings - 11/13/2015, \$185.00

TIMBER (TC 218)

ISO/DIS 13061-11, Physical and mechanical properties of wood - Test methods for small clear wood specimens - Part 11: Determination of resistance to impact indentation - 11/23/2015, \$46.00

TRADITIONAL CHINESE MEDICINE (TC 249)

ISO/DIS 19465, Traditional Chinese Medicine - Categories of TCM ClinicalTerminological System - 11/23/2015, \$53.00

VALVES (TC 153)

ISO/DIS 6553, Automatic steam traps - Marking - 11/23/2015, \$33.00

ISO/IEC JTC 1, Information Technology

ISO/IEC DIS 26557, Software and systems engineering - methods and tools for variability mechanisms in software and systems product line - 9/11/2015, \$119.00

ISO/IEC DIS 16512-1, Information technology - Relayed Multicast Control Protocol (RMCP) - Framework - 9/12/2015, \$58.00

ISO/IEC DIS 16512-2, Information technology - Relayed multicast protocol: Specification for simplex group applications - 9/12/2015, \$165.00

ISO/IEC DIS 18000-4, Information technology - Radio frequency identification for item management - Part 4: Parameters for air interface communications at 2,45 GHz - 9/12/2015, \$194.00

ISO/IEC DIS 18041-4, Information technology - Computer graphics, image processing and environmental data representation - Environmental Data Coding Specification (EDCS) language bindings - Part 4: C - 9/14/2015, \$125.00



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. All paper copies are available from Standards resellers (<http://webstore.ansi.org/faq.aspx#resellers>).

ISO Standards

AGRICULTURAL FOOD PRODUCTS (TC 34)

[ISO 11085:2015](#), Cereals, cereals-based products and animal feeding stuffs - Determination of crude fat and total fat content by the Randall extraction method, \$123.00

[ISO 18363-1:2015](#), Animal and vegetable fats and oils - Determination of fatty-acid-bound chloropropanediols (MCPDs) and glycidol by GC/MS - Part 1: Method using fast alkaline transesterification and measurement for 3-MCPD and differential measurement for glycidol, \$88.00

BUILDING CONSTRUCTION (TC 59)

[ISO 11618:2015](#), Buildings and Civil Engineering Works - Sealants - Classification and requirements for pedestrian walkway sealants, \$88.00

[ISO 15928-1:2015](#), Houses - Description of performance - Part 1: Structural safety, \$123.00

[ISO 15928-2:2015](#), Houses - Description of performance - Part 2: Structural serviceability, \$123.00

[ISO 15928-3:2015](#), Houses - Description of performance - Part 3: Structural durability, \$123.00

BUILDING CONSTRUCTION MACHINERY AND EQUIPMENT (TC 195)

[ISO 21873-1:2015](#), Building construction machinery and equipment - Mobile crushers - Part 1: Terminology and commercial specifications, \$149.00

DENTISTRY (TC 106)

[ISO 6874:2015](#), Dentistry - Polymer-based pit and fissure sealants, \$88.00

[ISO 16408:2015](#), Dentistry - Oral care products - Oral rinses, \$88.00

[ISO 3630-3:2015](#), Dentistry - Endodontic instruments - Part 3: Compactors: pluggers and spreaders, \$88.00

[ISO 13397-5:2015](#), Dentistry - Periodontal curettes, dental scalers and excavators - Part 5: Jacquette scalers, \$51.00

FLUID POWER SYSTEMS (TC 131)

[ISO 6020-3:2015](#), Hydraulic fluid power - Mounting dimensions for single rod cylinders, 16 MPa (160 bar) series - Part 3: Compact series with bores from 250 mm to 500 mm, \$123.00

GEOSYNTHETICS (TC 221)

[ISO 25619-2:2015](#), Geosynthetics - Determination of compression behaviour - Part 2: Determination of short-term compression behaviour, \$88.00

INTERNAL COMBUSTION ENGINES (TC 70)

[ISO 8178-8:2015](#), Reciprocating internal combustion engines - Exhaust emission measurement - Part 8: Engine group determination, \$51.00

IRON ORES (TC 102)

[ISO 4695:2015](#), Iron ores for blast furnace feedstocks - Determination of the reducibility by the rate of reduction index, \$88.00

[ISO 7215:2015](#), Iron ores for blast furnace feedstocks - Determination of the reducibility by the final degree of reduction index, \$88.00

[ISO 11257:2015](#), Iron ores for shaft direct-reduction feedstocks - Determination of the low-temperature reduction-disintegration index and degree of metallization, \$88.00

[ISO 11258:2015](#), Iron ores for shaft direct-reduction feedstocks - Determination of the reducibility index, final degree of reduction and degree of metallization, \$123.00

[ISO 4696-1:2015](#), Iron ores for blast furnace feedstocks - Determination of low-temperature reduction-disintegration indices by static method - Part 1: Reduction with CO, CO₂, H₂ and N₂, \$88.00

[ISO 4696-2:2015](#), Iron ores for blast furnace feedstocks - Determination of low-temperature reduction-disintegration indices by static method - Part 2: Reduction with CO and N₂, \$88.00

MATERIALS, EQUIPMENT AND OFFSHORE STRUCTURES FOR PETROLEUM AND NATURAL GAS INDUSTRIES (TC 67)

[ISO 15156-1:2015](#), Petroleum and natural gas industries - Materials for use in H₂S-containing environments in oil and gas production - Part 1: General principles for selection of cracking-resistant materials, \$88.00

[ISO 15156-2:2015](#), Petroleum and natural gas industries - Materials for use in H₂S-containing environments in oil and gas production - Part 2: Cracking-resistant carbon and low-alloy steels, and the use of cast irons, \$200.00

[ISO 15156-3:2015](#), Petroleum and natural gas industries - Materials for use in H₂S-containing environments in oil and gas production - Part 3: Cracking-resistant CRAs (corrosion-resistant alloys) and other alloys, \$265.00

PIGMENTS, DYESTUFFS AND EXTENDERS (TC 256)

[ISO 18473-1:2015](#), Functional pigments and extenders for special applications - Part 1: Nanoscale calcium carbonate for sealant application, \$51.00

[ISO 18473-2:2015](#), Functional pigments and extenders for special applications - Part 2: Nanoscale titanium dioxide for sunscreen application, \$51.00

PLASTICS PIPES, FITTINGS AND VALVES FOR THE TRANSPORT OF FLUIDS (TC 138)

[ISO 18488:2015](#), Polyethylene (PE) materials for piping systems - Determination of Strain Hardening Modulus in relation to slow crack growth - Test method, \$88.00

RUBBER AND RUBBER PRODUCTS (TC 45)

[ISO 7229:2015](#), Rubber- or plastics-coated fabrics - Measurement of gas permeability, \$123.00

[ISO 6123-1:2015](#), Rubber or plastics covered rollers - Specifications - Part 1: Requirements for hardness, \$51.00

SOLID BIOFUELS (TC 238)

[ISO 18134-1:2015](#), Solid biofuels - Determination of moisture content - Oven dry method - Part 1: Total moisture - Reference method, \$51.00

SURFACE CHEMICAL ANALYSIS (TC 201)

[ISO 13083:2015](#), Surface chemical analysis - Scanning probe microscopy - Standards on the definition and calibration of spatial resolution of electrical scanning probe microscopes (ESPMs) such as SSRM and SCM for 2D-dopant imaging and other purposes, \$123.00

TIMBER STRUCTURES (TC 165)

[ISO 16598:2015](#), Timber structures - Structural classification for sawn timber, \$149.00

TRACTORS AND MACHINERY FOR AGRICULTURE AND FORESTRY (TC 23)

[ISO 6535:2015](#), Portable chain-saws - Chain brake performance, \$51.00

TRANSFUSION, INFUSION AND INJECTION EQUIPMENT FOR MEDICAL USE (TC 76)

[ISO 13926-2/Amd1:2015](#), Pen systems - Part 2: Plunger stoppers for pen-injectors for medical use - Amendment 1, \$22.00

ISO Technical Reports**IRON ORES (TC 102)**

[ISO/TR 18230:2015](#), Iron ores - Determination of loss on ignition - Non-oxidised ores, \$88.00

TRANSPORT INFORMATION AND CONTROL SYSTEMS (TC 204)

[ISO/TR 17465-3:2015](#), Intelligent transport systems - Cooperative ITS - Part 3: Release procedures for standards documents, \$51.00

ISO Technical Specifications**TEXTILES (TC 38)**

[ISO/TS 19336:2015](#), Fibre ropes for offshore station keeping - Polyarylate, \$200.00

TRACTORS AND MACHINERY FOR AGRICULTURE AND FORESTRY (TC 23)

[ISO/TS 19858:2015](#), Forestry machines - Portable chain-saws - Test method for evaluating saw chain oil lubricity, \$88.00

ISO/IEC JTC 1, Information Technology

[ISO/IEC 23003-3/Cor4:2015](#), Information technology - MPEG audio technologies - Part 3: Unified speech and audio coding - Corrigendum, FREE

[ISO/IEC 19785-1:2015](#), Information technology - Common Biometric Exchange Formats Framework - Part 1: Data element specification, \$200.00

IEC Standards**CABLES, WIRES, WAVEGUIDES, R.F. CONNECTORS, AND ACCESSORIES FOR COMMUNICATION AND SIGNALLING (TC 46)**

[IEC 61156-1 Ed. 3.0 b cor.1:2015](#), Corrigendum 1 - Multicore and symmetrical pair/quad cables for digital communications - Part 1: Generic specification, \$0.00

[IEC 61196-1-103 Ed. 2.0 en:2015](#), Coaxial communication cables - Part 1-103: Electrical test methods - Test for capacitance of cable, \$24.00

[IEC 61196-1-104 Ed. 2.0 en:2015](#), Coaxial communication cables - Part 1-104: Electrical test methods - Test for the stability of the capacitance of cable versus temperature, \$24.00

[IEC 61196-1-305 Ed. 1.0 en:2015](#), Coaxial communication cables - Part 1-305: Mechanical test methods - Solderability and resistance to soldering, \$24.00

[IEC 61196-1-314 Ed. 2.0 en:2015](#), Coaxial communication cables - Part 1-314: Mechanical test methods - Test for bending, \$121.00

ELECTROMAGNETIC COMPATIBILITY (TC 77)

[IEC 61000-6-5 Ed. 1.0 b:2015](#), Electromagnetic compatibility (EMC) - Part 6-5: Generic standards - Immunity for equipment used in power station and substation environment, \$278.00

INDUSTRIAL-PROCESS MEASUREMENT AND CONTROL (TC 65)

[IEC 62443-2-4 Ed. 1.0 b cor.1:2015](#), Corrigendum 1 - Security for industrial automation and control systems - Part 2-4: Security program requirements for IACS service providers, \$0.00

MAGNETIC COMPONENTS AND FERRITE MATERIALS (TC 51)

[IEC 62317-13 Ed. 2.0 b:2015](#), Ferrite cores - Dimensions - Part 13: PQ-cores for use in power supply applications, \$73.00

MARITIME NAVIGATION AND RADIOCOMMUNICATION EQUIPMENT AND SYSTEMS (TC 80)

[IEC 61174 Ed. 4.0 en:2015](#), Maritime navigation and radiocommunication equipment and systems - Electronic chart display and information system (ECDIS) - Operational and performance requirements, methods of testing and required test results, \$411.00

[IEC 61174 Ed. 4.0 en:2015](#), Maritime navigation and radiocommunication equipment and systems - Electronic chart display and information system (ECDIS) - Operational and performance requirements, methods of testing and required test results, \$530.00

[IEC 61162-460 Ed. 1.0 en:2015](#), Maritime navigation and radiocommunication equipment and systems - Digital interfaces - Part 460: Multiple talkers and multiple listeners - Ethernet interconnection - Safety and security, \$339.00

PIEZOELECTRIC AND DIELECTRIC DEVICES FOR FREQUENCY CONTROL AND SELECTION (TC 49)

[IEC 60862-1 Ed. 3.0 b:2015](#), Surface acoustic wave (SAW) filters of assessed quality - Part 1: Generic specification, \$278.00

POWER ELECTRONICS (TC 22)

[IEC 62823 Ed. 1.0 b:2015](#), Thyristor valves for thyristor controlled series capacitors (TCSC) - Electrical testing, \$254.00

IEC Technical Reports**ELECTROMAGNETIC COMPATIBILITY (TC 77)**

[IEC/TR 61000-4-38 Ed. 1.0 en:2015](#), Electromagnetic compatibility (EMC) - Part 4-38: Testing and measurement techniques - Test, verification and calibration protocol for voltage fluctuation and flicker compliance test systems, \$182.00

IEC Technical Specifications

NANOTECHNOLOGY STANDARDIZATION FOR ELECTRICAL AND ELECTRONIC PRODUCTS AND SYSTEMS (TC 113)

[IEC/TS 62607-4-1 Ed. 2.0 en:2015](#), Nanomanufacturing - Key control characteristics - Part 4-1: Cathode nanomaterials for nano-enabled electrical energy storage - Electrochemical characterisation, 2-electrode cell method, \$97.00

[IEC/TS 62607-4-3 Ed. 1.0 en:2015](#), Nanomanufacturing - Key control characteristics - Part 4-3: Nano-enabled electrical energy storage - Contact and coating resistivity measurements for nanomaterials, \$121.00

Proposed Foreign Government Regulations

Call for Comment

U.S. manufacturers, exporters, regulatory agencies and standards developing organizations may be interested in proposed foreign technical regulations issued 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 report proposed technical regulations that may significantly affect trade to the WTO Secretariat in Geneva, Switzerland. In turn, the Secretariat disseminates the information to all WTO Members. The purpose of this requirement is to provide global trading partners with an opportunity to review and comment on the regulations before they become final.

The National Center for Standards and Certification Information (NCSCI) at the National Institute of Standards and Technology

(NIST), distributes these proposed foreign technical regulations to U.S. stakeholders via an online service, Notify U.S. Notify U.S. is an e-mail and Web service that allows interested U.S. parties to register, obtain notifications, and read full texts of regulations from countries and for industry sectors of interest to them. To register for Notify U.S., please go to Internet URL:

<http://www.nist.gov/notifyus/> and click on "Subscribe".

NCSCI is the WTO TBT Inquiry Point for the U.S. and receives all notifications and full texts of regulations to disseminate to U.S. Industry. For further information, please contact: NCSCI, NIST, 100 Bureau Drive, Gaithersburg, MD 20899-2160; Telephone: (301) 975-4040; Fax: (301) 926-1559; E-mail: ncsci@nist.gov or notifyus@nist.gov.

Information Concerning

American National Standards

INCITS Executive Board

ANSI Accredited SDO and US TAG to ISO/IEC JTC 1, Information Technology

The InterNational Committee for Information Technology Standards (INCITS), an ANSI accredited SDO, is the forum of choice for information technology developers, producers and users for the creation and maintenance of formal de jure IT standards. INCITS' mission is to promote the effective use of Information and Communication Technology through standardization in a way that balances the interests of all stakeholders and increases the global competitiveness of the member organizations.

The INCITS Executive Board serves as the consensus body with its oversight of programs of its 40+ Technical Committees. Additionally, the INCITS Executive Board exercises international leadership in its role as the US Technical Advisory Group (TAG) to ISO/IEC JTC 1, Information Technology.

The INCITS Executive Board has eleven membership categories that can be viewed at <http://www.incits.org/participation/membership-info>. Membership in all categories is always welcome. INCITS also seeks to broaden its membership base and looks to recruit new participants in the following under-represented membership categories:

- **Producer – Hardware**

This category primarily produces hardware products for the ITC marketplace.

- **Producer – Software**

This category primarily produces software products for the ITC marketplace.

- **Distributor**

This category is for distributors, resellers or retailers of conformant products in the ITC industry.

- **User**

This category includes entities that primarily rely on standards in the use of a product/service, as opposed to producing or distributing conformant products/services.

- **Consultants**

This category is for organizations whose principal activity is in providing consulting services to other organizations.

- **Standards Development Organizations and Consortia**

- o "Minor" an SDO or Consortia that (a) holds no TAG assignments; or (b) holds no SC TAG assignments, but does hold one or more Work Group (WG) or other subsidiary TAG assignments.

- **Academic Institution**

This category is for organizations that include educational institutions, higher education schools or research programs.

- **Other**

This category includes all organizations who do not meet the criteria defined in one of the other interest categories.

Membership in the INCITS Executive Board is open to all directly and materially affected parties in accordance with INCITS membership rules. To find out more about participating on the INCITS Executive Board, please contact Jennifer Garner at 202-626-5737 or jgarner@itic.org. Visit www.INCITS.org for more information regarding INCITS activities.

Calls for Members

Society of Cable Telecommunications

ANSI Accredited Standards Developer

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 ANSI 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.

Membership in the SCTE Standards Program is open to all directly and materially affected parties as defined in SCTE's membership rules and operating procedures. More information is available at www.scte.org or by e-mail from standards@scte.org.

PINS Notices

Withdrawal of PINS by ASTM

ASTM has withdrawn the following projects from consideration:

WK47006, Specification For Impact Attenuation of Turf Playing Fields designated for IRB Rugby as Measured in the Field.

WK36211, Test Method For Measurement of Synthetic Turf System Infill Material Depths in the Laboratory and Field Using a Constant Ground Pressure 3-Prong Gauge

WK45742, Specification for Indoor Basketball Backboard Suspension Systems

WK46151, Test Method for a Laboratory Evaluation of Capture and Containment and Turn-Down Performance of Commercial Kitchen Demand Controlled Ventilation System

WK48087, Test Method for Standard Test Method for Fire Resistance of Utility Poles

Questions may be directed to accreditation@astm.org.

ANSI Accredited Standards Developers

Approval of Accreditation as an ANSI ASD/ASC

ASC A11 – Design, Manufacturing and Performance Testing related to Scaffolding, Shoring and Forming Products and Related Components and Accessories

ANSI's Executive Standards Council has approved the application for accreditation for a new Accredited Standards Committee A11 on Design, Manufacturing and Performance Testing related to Scaffolding, Shoring and Forming Products and Related Components and Accessories (with the Scaffold and Access Industry Association, an ANSI Organizational Member, appointed as Secretariat) under its proposed operating procedures for documenting consensus on ASC A11-sponsored American National Standards, effective August 25, 2015. For additional information, please contact: Ms. DeAnna Martin, Associate Director, Scaffold & Access Industry Association, 400 Admiral Boulevard, Kansas City, MO 64106; phone: 816.595.4860; e-mail: deanna@saionline.org.

Reaccreditation

PLASA North America

Comment Deadline: September 28, 2015

PLASA North America, an ANSI organizational member and Accredited Standards Developer, has submitted to ANSI revisions to its currently accredited operating procedures for documenting consensus on PLASA-sponsored American National Standard, under which it was last reaccredited in 2013. As the revisions appear to be substantive in nature, the reaccreditation process is initiated.

To obtain a copy of the revised procedures or to offer comments, please contact: Mr. Karl G. Ruling, PLASA Technical Standards Manager, Sr. Technical Editor, Protocol, PLASA North America, 630 Ninth Avenue, Suite 609, New York, NY 10036; phone: 212.244.1505; e-mail: karl.ruling@plasa.org. You may view/download a copy of the revisions during the public review period at the following URL: www.ansi.org/accredPR. Please submit any public comments on the revised procedures to PLASA by September 28, 2015, with a copy to the ExSC Recording Secretary in ANSI's New York Office (ithompso@ANSI.org).

International Organization for Standardization (ISO)

ISO Proposal for a New Field of ISO Technical Activity

Solid Recovered Fuels

Comment Deadline: September 4, 2015

SFS (Finland) has submitted to ISO a proposal for a new field of ISO technical activity on the subject of Solid recovered fuels, with the following scope statement:

Elaboration of standards and other deliverables on solid recovered fuels prepared from non-hazardous waste to be utilized for energy recovery in waste incineration or co-incineration plants or in industrial processes (like cement manufacturing), excluding fuels that are included in the scope of ISO/TC 238.

Anyone wishing to review this new proposal can request a copy by contacting ANSI's ISO Team via email: isot@ansi.org with submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, September 4, 2015.

U.S. Technical Advisory Groups

Approval of TAG Accreditation

U.S. TAG to ISO TC 135 – Non-Destructive Testing (including SC 2, Surface Methods; SC 3, Ultrasonic Testing; SC 4, Eddy Current Methods; SC 5, Radiation Methods; SC 6, Leak Detection Methods; SC 8, Infrared Thermography for Nondestructive Testing; and SC 9, Acoustic Emission Testing)

ANSI's Executive Standards Council (ExSC) has formally approved the accreditation of the U.S. Technical Advisory Group to ISO TC 135, Non-destructive testing (including SC 2, Surface methods; SC 3, Ultrasonic testing; SC 4, Eddy current methods; SC 5, Radiation methods; SC 6, Leak detection methods; SC 8, Infrared thermography for nondestructive testing; and SC 9, Acoustic emission testing), under its proposed operating procedures and with the American Society of Nondestructive Testing serving as TAG Administrator, effective August 25, 2015. For additional information, please contact: Mr. Charles Longo, Technical Services Supervisor, American Society of Nondestructive Testing, 1711 Arlingate Lane, Columbus, OH 43228; phone: 800.222.2768, ext. 241; e-mail: clongo@asnt.org.

U.S. TAG to ISO TC 292 – Security and Resilience

ANSI's Executive Standards Council (ExSC) has formally approved the accreditation of the U.S. Technical Advisory Group to ISO TC 292, Security and resilience, under the Model Operating Procedures for U.S. Technical Advisory Groups to ANSI for ISO Activities (Annex A of the ANSI International Procedures) and with ASIS International serving as TAG Administrator, effective August 25, 2015. For additional information, please contact: Ms. Aivelis Opicka, Manager, Standards & Guidelines, ASIS International, 1625 Prince Street, Alexandria, VA 22314; phone: 703.518.1439; e-mail: Aivelis.Opicka@asisonline.org.

Meeting Notices

AHRI Meetings

AHRI Standard 410-2001

Please note this meeting runs once per week from September 9 to December 23.

Revision of AHRI Standard 410-2001, Forced Circulation Air-Cooling and Air-Heating Coils.

The Air-Conditioning, Heating, and Refrigeration Institute (AHRI) will be holding an online meeting every Wednesday from September 9 to December 23 from 12 p.m. to 1 p.m. If you are interested in participating in the meeting or providing comments on the standard, please contact AHRI staff Mary Opalka at mopalka@ahrinet.org.

AHRI Standards 430 (I-P) and 431 (S)-2014

Please note there are two dates:

Revision of AHRI Standards 430 (I-P) and 431 (S)-2014, Performance Rating of Central Station Air-Handling Unit Supply Fans

The Air-Conditioning, Heating, and Refrigeration Institute (AHRI) will be holding an online meeting on September 10 from 2 p.m. to 4 p.m., and September 24 from 2 p.m. to 3 p.m. If you are interested in participating in the meeting or providing comments on the standard, please contact AHRI staff member Mary Opalka at mopalka@ahrinet.org.

The following meeting covers the same standard as the action above, but it's held by a different committee, at a different time, and they are making it a bi-weekly meeting from October 8 to December 17.

Revision of AHRI Standards 430 (I-P) and 431 (S)-2014, Performance Rating of Central Station Air-Handling Unit Supply Fans

The Air-Conditioning, Heating, and Refrigeration Institute (AHRI) will be holding bi-weekly online meetings on October 8, October 22, November 5, November 19, December 3, and December 17 from 2 p.m. to 4 p.m. If you are interested in participating in the meetings or providing comments on the standard, please contact AHRI staff member Mary Opalka at mopalka@ahrinet.org.

Revision of AHRI Standard 700-2015, Specifications for Refrigerants.

The Air-Conditioning, Heating, and Refrigeration Institute (AHRI) will be holding an online meeting on September 22 from 2 p.m. to 3 p.m. If you are interested in participating in the meeting or providing comments on the standard, please contact AHRI staff member Mikelann Scerbo at mscerbo@ahrinet.org.

Revision of AHRI Standard 1350 (I-P)-2014, Mechanical Performance Rating of Central Station Air-Handling Unit Casings

The Air-Conditioning, Heating, and Refrigeration Institute (AHRI) will be holding an online meeting on September 24 from 3 p.m. to 4 p.m. If you are interested in participating in the meeting or providing comments on the standard, please contact AHRI staff member Mary Opalka at mopalka@ahrinet.org.

Revision of AHRI Standard 1360 (I-P)-2013, Performance Rating of Computer and Data Processing Room Air Conditioners.

The Air-Conditioning, Heating, and Refrigeration Institute (AHRI) will be holding a face-to-face meeting at Schneider Electric in St. Louis, MO, on September 1 from 10 a.m. to 5 p.m. If you are interested in participating in the meeting or providing comments on the standard please contact AHRI staff member Justin Prosser at jprosser@ahrinet.org.

The following marked substantive changes in AISI S220-15 Section A7, Reference Documents, are required to go through the public review:

4. ASCE 7-10 Including Supplement No. 1, *Minimum Design Loads for Buildings and Other Structures*, American Society of Civil Engineers, Reston, VA.
5. ASTM A653/A653M-~~11~~13, *Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process*, ASTM International, West Conshohocken, PA.
6. ASTM A792/A792M-~~11~~10, *Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process*, ASTM International, West Conshohocken, PA.
7. ASTM A1003/A1003M-~~13b~~15, *Standard Specification for Sheet Steel, Carbon, Metallic and Non-Metallic Coated for Cold-Formed Framing Members*, ASTM International, West Conshohocken, PA.
8. ASTM C475/C475M-~~12~~15, *Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board*, ASTM International, West Conshohocken, PA.
9. ASTM C754-~~11~~15, *Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products*, ASTM International, West Conshohocken, PA.
10. ASTM C954-~~11~~15, *Standard Specification for Steel Drill Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Steel Studs From 0.033 in. (0.84 mm) to 0.112 in. (2.84 mm) in Thickness*, ASTM International, West Conshohocken, PA.
11. ASTM C1002-~~07 (2013)~~14, *Standard Specification for Steel Self-Piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs*, ASTM International, West Conshohocken, PA.
12. ASTM C1396/C1396M-14a, *Standard Specification for Gypsum Board*, ASTM International, West Conshohocken, PA.

Public Review 2 for North American Standard For Cold-Formed Steel Structural Framing, 2015 Edition

The following marked substantive changes in AISI S240-15 Section A6, Reference Documents, are required to go through the public review:

| ASTM A653/A653M-~~13~~15, *Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process*

| ASTM C954-~~15~~11, *Standard Specification for Steel Drill Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Steel Studs From 0.033 in. (0.84 mm) to*

| AWS, D1.3, *Structural Welding Code-Sheet Steel*, ~~1998~~2008 edition

AG-1-201X
Revision of ASME AG-1-2012

Code on Nuclear Air and Gas Treatment

DRAFT

8/13/2015

**Proposed Addition of Non-Mandatory Appendix FC-B
has been withdrawn from publication in the next
edition.**

**Proposed revisions to Section FC-B have been
withdrawn from publication in the next edition.**

Tentative
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Non-Mandatory Appendix FC-B (DRAFT April 2013)

Guidelines for the Determination of HEPA Filter Service Life

FC-B-1000 SCOPE

This nonmandatory appendix provides recommended guidelines for setting limits on the maximum service life of HEPA filters having non-reinforced glass-fiber media, based upon filter age and adverse operating conditions involving potential and actual filter exposure to moisture.

FC-B-1100 PURPOSE

The purpose of this nonmandatory appendix is to provide empirically-based guidance to Owners or designees to help ensure continuous, high-efficiency fine-particle removal throughout filter service life.

FC-B-1200 APPLICABILITY

These guidelines are relevant to aged, particle-loaded HEPA filters in nuclear facility air and gas treatment systems used to protect plant personnel, the public, and the environment from exposure to hazardous aerosol particles.

Recommended allowable filter service lives can be expected to shorten with increasingly adverse filter operating conditions, or with increasingly critical, required system protection levels.

FC-B-1300 LIMITATIONS

The guidelines of this nonmandatory appendix are not directed toward aged, particle loaded HEPA filters in applications that do not provide protection from exposure to hazardous aerosol particles. They also do not apply to HEPA filters having reinforced glass-fiber filter media.

FC-B-1400 BACKGROUND

Underlying the need to impose dissimilar filter service intervals for different filter operating conditions are the performance and behavioral characteristics of non-reinforced glass-fiber filter media. For one, they are inherently fragile and brittle; to a degree that makes them susceptible to damage beginning with filter manufacture through filter transport and handling. Additionally, they are prone to performance degradations; not only with increasing filter age and service time, but also via exposure to moisture. Both filter media tensile strength and water repellency have been shown to significantly decrease with the above three factors of influence.

The appearance of liquid water in the filter medium represent a particularly acute and direct threat to filter structural integrity and thus, to filter reliability in removing entrained fine particles from air and gas flows.

Potential mechanisms of water transfer into the filter media are varied and can involve capillary and dew-point condensation, droplet interception, and surface water run-off resulting from spillage, leaks, and condensation.

Capillary condensation represents a root cause of water incorporation into HEPA filter media and thus also one that underlies filter performance degradations resulting from airflows at elevated air relative humidity up to 100%.

In the case of submicron glass fibers or particles, pore-bound water mass due to physical absorption generally begins to rise exponentially with increasing air relative humidity at values between 80 and 100%. Hygroscopic particles and hydrophilic fiber surfaces accentuate the extent and effects of capillary condensation.

**Proposed Addition of Non-Mandatory
Appendix FC-B Withdrawn**

Record # 06-934

Two major direct consequences of water exposure are:

- an increase in filter pressure drop and
- Significant, partially irreversible decreases in filter media strength.

Together with the typical moisture-accelerated loosening of the pleated filter pack, they can readily facilitate tearing of the filter media at design flow. Unacceptable decreases in filter removal efficiency can result from only slight physical damage to a glass-fiber media.

Particle loading of filter media during service typically induces three significantly adverse effects in the context of possible subsequent moisture exposure.

- It reduces the water repellency of the filter media.
- It enhances the transfer of liquid water into the media via capillary condensation at lower air relative humidities, as compared to clean media.
- It can initiate rapid increases in filter differential pressure caused by both the presence of water within the fiber matrix and a resulting accelerated relaxation and deformation of the filter media.

Misapplication of positive results from routine in-place filter leak tests on dry, used filters can create a false sense of security that filters will function reliably during upset or accident conditions; after having been degraded during prior service time, or preceding exposure to moisture. Results of investigations into age- and moisture-related deterioration show that filtration efficiency measurements cannot provide a dependable measure of service-related degradation in filter robustness and hence reliability.

This set of guidelines provides one means by which the progression of age and moisture related degradations in filter system reliability can be stayed, via earlier filter change-out: thereby helping to better maintain overall system reliability during both routine service and possible off-design operating conditions.

Capillary condensation: The phase change of vapor molecules and their capture as a liquid within the micro-capillaries or pores of a solid porous medium. A phenomenon of physical absorption, capillary condensation initially proceeds from physical adsorption; at relative humidities higher than those at which physical adsorption begins and at vapor partial pressures below the saturation vapor pressure of the liquid. Capillary condensation occurs at air relative humidities (RH) greater than 40%.

HEPA Filter Service Life is defined as: The time from the date of the manufacture's test of the filter to the time at which the filter is removed from service.

Potential wet operation of a filter is defined as: any filter operating condition or service installation where a filter may be exposed to liquid water; or be exposed to high air humidity; as specified in a-d below;

- a. Direct spray of nozzle-generated water droplets, at any temperature, and of any time duration.
- b. Airborne droplets of condensed water (fog) at any temperature, and of any time duration.
- c. Moist air flow at a relative humidity greater than 70%.
- d. Gravity-driven surface water in the form of seepage or flood, that originates from any source to include, for example, liquid spills, dew-point related condensation, or leakage from a water line.

Dry operation of a filter is defined as: any operating condition or installation where there is no potential for filter direct exposure to liquid water or to air relative humidities above 70%.

**Proposed Addition of Non-Mandatory
Appendix FC-B Withdrawn**

Record # 06-934

Physical absorption: A phenomenon that can involve the attraction of vapor molecules to the surface of a liquid and their subsequent phase change and incorporation into the liquid.

Physical adsorption: A process that proceeds with increasing air relative humidity during which vapor molecules are attracted to form initially a single layer and subsequently multiple layers upon a solid surface under the influence of *van der Waals* forces.

**FC-B-2000
REFERENCE DOCUMENTS**

The recommendations presented in this Non-Mandatory Appendix are primarily based upon the following references.

Lawrence Livermore National Laboratory, *Maximum HEPA-filter Life*, UCRL-AR-134141, June 1999.

DOE, *Nuclear Air Cleaning Handbook*, DOE HDBK-1169-2003, Appendix C, Determination of HEPA Filter Life, <http://www.hss.doe.gov/hssnew/nuclearsafety/techstds/docs/handbook/appendixc.pdf>.

Fretthold, J., "Evaluation of HEPA Filter Service Life RFP-5141, 1997", Rocky Flats technical report <http://www.osti.gov/bridge/servlets/purl/519156-jB0cRd/webviewable/519156.pdf>.

Also in Proceedings of 8th International Conference on Nuclear Engineering, April 2000, Baltimore, MD, Paper No. 8630.

Aging of HEPA Filters in Service and in Storage, Journal of the American Biological Safety Association, 1(1) pp. 52-62, 1996. www.absa.org/abj/abj/960101First.pdf

Sandia National Laboratories Construction Special Specification, Section 15861-S, HEPA Filter In-Service Life, March, 2003, www.sandia.gov/engstds/ConstSpecs/Special/Miscellaneous/Div_15/15861S_HEPA_Filter_InService_Life_0303.doc.

cellaneous/Div_15/15861S_HEPA_Filter_InService_Life_0303.doc.

32nd International Nuclear Air Cleaning Conference, 2012 , *Development of a Loading Test for Use in Qualifying AG-1 HEPA Filters*, Charles Waggoner

**FC-B-3000 AGE AND ADVERSE
OPERATING CONDITION LIMITS**

Test data from the referenced literature, relevant to filter reliability during service, were evaluated to determine recommended **HEPA Filter Service Life** limits on age and on operating conditions involving moisture exposure. The limits on service life were set based primarily upon data derived from observed decreases in tensile strength and water repellency of dry filter media samples with age and cumulative reductions in strength with repeated exposure to water.

**FC-B-3100 AGE LIMIT FOR DRY
CONDITIONS**

It is recommended that the maximum allowable limit on service life for HEPA filters under dry conditions be set at no greater than 10 years.

**FC-B-3200 AGE LIMIT FOR
POTENTIAL EXPOSURE TO WATER**

It is recommended that the maximum allowable limit on service life for HEPA filters that have the potential to become wetted be set at no greater than 5 years.

**FC-B-3300 ADVERSE OPERATING
CONDITION LIMIT FOR MOISTURE
EXPOSURE**

It is recommended that when HEPA filters become wet, or are reasonably assumed to have become wet, they should be replaced as soon as practically possible.

FC-B-3400 RESPONSIBILITY

**Proposed Addition of Non-Mandatory
Appendix FC-B Withdrawn**

Record # 06-934

The Owner or designee of the facility should determine a filter service life for each filter application based upon relevant operating conditions specific to each individual air or gas treatment system.

FD-4400 SAMPLING OF INSTALLED ADSORBENTS

FD-4410 GENERAL

Provision shall be made to periodically remove a representative sample of adsorbent from an installed system for laboratory testing.

A representative sample is a sample of the same lot and batch installed in the main carbon bed that has been exposed in parallel to the same process stream as the main carbon bed, with a bed depth equal to the design bed depth of the main carbon bed, and at a ~~superficial~~ face velocity- within $\pm 10\%$ of the design ~~superficial~~ face velocity of the system main carbon bed-. The detailed means to achieve this is left to the designer of each system, but detailed supporting data (either theoretical or empirical) shall be presented to substantiate that the flow is representative and the sample is, therefore, representative of the entire adsorber bank.

FD-4420 DESIGN FOR SAMPLERS

The design criterion can be met only when the sampler bed depth is equal to the system design bed depth and the calculated residence time- is within $\pm 10\%$ of the system design residence time at the system design bed depth. All flow restrictions must be taken into account when designing a sampler to assure that the pressure drop across the sampler is consistent with a volumetric flow rate through the sampler that produces a ~~superficial~~ face velocity and residence time within $\pm 10\%$ of the main bed design. Pipe stubs, valves, unions, fittings, elbows, nozzle effects, and similar items or effects add pressure drop to the flow path and tend to make a sampler non-representative. This paragraph does not restrict any specific approach or hardware but requires that the flow criterion for equal bed thickness must be met.

FD-4430 GENERAL TYPES OF SAMPLERS

FD-4431 Test Canisters

An adsorbent test canister should be designed to hold adsorbent for testing. The canister shall be the same depth as the main bed, a ~~nominal 2 in. (50 mm cm)-minimum~~ of 2.25 in. (57 mm) in diameter. If there is a guard bed it shall be duplicated for the sampler.

The sampler shall be filled with adsorbent from the same lot and batch as the main bed.

The details of test canister designs are provided in Mandatory Appendix FD-II and shall include provisions to ensure that no bypass will occur, that the sampler(s) will be halide leak tested concurrently with main bank leak testing, and that the flow path shall be sealed leak tight after the sampler is removed.

FD-4432 Test Tray Assemblies

Proposed Revisions to Section FD Withdrawn**Revision
Record # 12-1231**

Letter Ballot 12-1706RC1

Record No. 12-1231

Incorporation of Comments from LB 12-1706

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A test tray assembly is an adsorber cell modified to provide for removal of a portion of the adsorbent (usually one-eighth) in a section without disturbing the remainder of the adsorbent. Its use is acceptable as an alternative to individual test canisters described in Paragraph FD-4431 for obtaining representative samples.

When a test tray assembly is removed, an entire section is emptied into a clean plastic container or bag and mixed to ensure uniformity. The section shall be refilled with such makeup adsorbent as required. Plugging of the section is not allowed. This makeup carbon shall meet the same requirements as the original adsorbent.

The section sampled shall be marked to indicate when a sample was taken and the section number and position noted both in the field test report and permanent plant records to ensure that this section is not sampled again. The use of a grain thief or slotted sampler is not recommended for obtaining a sample from a Type II adsorber cell.

FD-4433 Sampling by Adsorber Cell Removal

An entire adsorber cell or bed may be removed to obtain a sample. It shall be emptied into a clean plastic container or bag, the adsorbent mixed to ensure uniformity, a sample taken, the cell refilled or replaced. If the adsorber cell is refilled it shall be marked as having been refilled and to indicate a sample was taken. The tray location within the bank shall be noted both in the field test report and permanent plant records and shall be marked to not be used for future samples as they are not representative of the adsorbent in the rest of the bank. The adsorber cell may be replaced provided that the replacement cell is of the same design as the removed cell and has been filled and tested to the requirements of FD-5000.

The use of a grain thief is not recommended for obtaining a sample from a Type II adsorber cell.

BSR/UL 325, Standard for Door, Drapery, Gate, Louver, and Window Operators and Systems

1. Editorial corrections for Section 32.2 Secondary Entrapment Protection for Residential Garage Door Operators

32.3.3 With respect to 32.3.1 and 32.3.2, the operator shall monitor for the presence and correct operation of the device at least once during each close cycle. Should the device not be present, or a fault condition occur that precludes the sensing of an obstruction, including an interruption of the wireless signal to the wireless device or an open- or short-circuit in the wiring that connects an external entrapment protection device to the operator and the device's supply source, the operator shall be constructed such that:

- a) For a vertically moving door, the closing door shall open and an open door shall not close more than 1 ft (305 mm) below the upmost position;
- b) For a horizontally sliding door, the door shall not move in the opening or closing direction; or
- c) The operator shall function as required by 32.1.2(a).

32.3.6 An inherent secondary entrapment protection device described in ~~3-3~~ 32.1.2(c) shall comply with the applicable requirements in Inherent Secondary Force Activated Door Sensors, Section 47, independent of the primary entrapment protection. The independent primary and secondary entrapment protection devices shall not use the same detection means nor measure the same physical properties.

2. Revision to Door Operator Installation Instructions, 58.4 and 58.6

58.4.1 The installation instructions shall include the following or equivalent text:

IMPORTANT INSTALLATION INSTRUCTIONS

WARNING - To reduce the risk of severe injury or death:

1. READ AND FOLLOW ALL INSTALLATION INSTRUCTIONS.
2. Install only on a properly operating and balanced garage door. An improperly balanced door has the potential to inflict severe injury. Have a qualified service person make repairs to cables, spring assemblies, and other hardware before installing the opener.
3. Remove all pull ropes and remove, or make inoperative, all locks connected to the garage door before installing ~~opener~~ the operator.
4. Where possible, install the door ~~opener~~ operator 7 feet or more above the floor. For products having an emergency release, mount the emergency release within reach, but at least 6 feet above the floor and avoiding contact with vehicles to avoid accidental release.
5. Do not connect the ~~opener~~ door operator to source of power until instructed to do so.
6. Locate the control button: (a) within sight of the door, (b) at a minimum height of 5 feet above floors, landings, steps or any other adjacent walking surface so small children are not able to reach it, and (c) away from all moving parts of the door.

7. Install the Entrapment Warning Label next to the control button in a prominent location. Install the Emergency Release Marking. Attach the marking on or next to the emergency release.
8. After installing the opener, the door must reverse when it contacts a 1-1/2-inch high object (or a 2 by 4 board laid flat) on the floor.
9. For products having a manual release, instruct the end user on the operation of the manual release.

Exception: For horizontally sliding doors, Item 2 shall be replaced with "Have a qualified service person make repairs and hardware adjustments before installing the opener".

58.6.7 The Installation Instructions shall include the following instructions or their equivalent text:

IMPORTANT INSTALLATION INSTRUCTIONS

WARNING - To reduce the risk of severe injury or death:

- 1) READ AND FOLLOW ALL INSTALLATION INSTRUCTIONS.
- 2) Install only on a properly operating and balanced door. A door that is operating improperly could cause severe injury. Have qualified service personnel make repairs to cables, spring assemblies, and other hardware before installing the operator.
- 3) Remove all pull ropes and remove, or make inoperative, all locks (unless mechanically and/or electrically interlocked to the power unit) ~~that are~~ connected to the door before installing the operator.
- 4) Install the door operator at least 8 ft (2.44 m) or more above the floor if the operator has exposed moving parts. If the operator must be installed less than 8 ft (2.44 m) above the floor, then exposed moving parts must be protected by covers or guarding, provided by the operator manufacturer.
- 5) Do not connect the door operator to the source of power until instructed to do so.
- 6) Locate the control station: (a) within sight of the door, and (b) at a minimum height of 5 feet above floors, landings, steps, or any other adjacent walking surface and (c) away from all moving parts of the door so small children cannot reach it.
- 7) Install the Entrapment Warning Placard next to the control station in a prominent location.
- 8) For products having a manual release, instruct the end user on the operation of the manual release.

3. Revision of markings and instructions for Commercial Door Operators

58.6.7 The Installation Instructions shall include the following instructions or their equivalent:

IMPORTANT INSTALLATION INSTRUCTIONS

WARNING - To reduce the risk of severe injury or death:

- 1) READ AND FOLLOW ALL INSTALLATION INSTRUCTIONS.
- 2) Install only on a properly operating and balanced door. A door that is operating improperly could cause severe injury. Have qualified service personnel make repairs to cables, spring assemblies, and other hardware before installing the operator.
- 3) Remove all pull ropes and remove, or make inoperative, all locks (unless mechanically and/or electrically interlocked to the power unit) that are connected to the door before installing the operator.
- 4) A commercial/industrial door operator that has exposed moving parts capable of causing injury to persons or employs a motor deemed indirectly accessible by 9.6 by virtue of its location above the floor shall include:
 - a) Install the door operator at least 8 ft (2.44 m) or more above the floor if the operator has exposed moving parts; or
 - b) If the operator must be installed less than 8 ft (2.44 m) above the floor, then exposed moving parts must be protected by covers or guarding, provided by the operator manufacturer; or
 - c) Both a) and b).
- 5) Do not connect the door operator to the source of power until instructed to do so.
- 6) Locate the control station: (a) within sight of the door, and (b) at a minimum height of 5 feet so small children cannot reach it.
- 7) Install the Entrapment Warning Placard next to the control station in a prominent location.
- 8) For products having a manual release, instruct the end user on the operation of the manual release.

61.5.1 A commercial/industrial door operator that has exposed moving parts capable of causing injury to persons or employs a motor deemed indirectly accessible by 9.6 by virtue of its location above the floor shall be marked to indicate that:

- a) The operator is to be mounted more than 8 ft (2.44 m) above the floor if it has exposed moving parts capable of causing injury to person or employs a motor deemed indirectly accessible by 9.6 by virtue of its location above the floor. Alternatively, an operator with exposed moving parts shall be marked to indicate that; or
- b) Covers or guarding, provided by the manufacturer, must be installed when the operator is mounted less than 8 ft (2.44 m) above the floor; or
- c) Both a) and b).

4. Proposed Changes to Commercial Door Operator Rating Markings to be Consistent with Other Markings Required by UL 325.

61.5.2 A commercial/industrial door operator shall be marked to indicate the maximum power in ~~foot-pounds per second~~ or the maximum pull in ~~pounds~~ that it is intended to develop.

BSR/UL 758, Standard for Safety for Appliance Wiring Material**1. Addition of Composite Conductor, New 5.2.2, 5.5.3, 5.6.4, 5.7.11; Revised 5.6.2 and 51.2**

(NEW)

5.2.2 The composite conductor's maximum temperature limits shall use the lowest temperature of composite material in Table 5.3.

(NEW)

5.5.3 A joint between the variety metal is prohibited in composite conductor of copper and hard-drawn copper alloy strands.

5.6.2 For conductors having a conductivity other than 100 percent as noted in Table 5.3, the maximum resistance is to be determined by multiplying the maximum resistance for uncoated copper by the ratio of 100 percent IACS (International Annealed Copper Standard) to the percent conductivity applicable to the conductor under consideration. For a composite conductor of copper and hard-drawn copper alloy strands, the maximum resistance is to be determined by multiplying the maximum resistance for uncoated copper by the ratio of 100 percent IACS (International Annealed Copper Standard) to the percent conductivity applicable to the finished conductor under consideration. For example, to determine the maximum resistance of a 12 AWG (6530 cmil or 3.31 mm²) solid 40-percent-conductivity copper-clad steel conductor:

- a) $R[12 \text{ AWG copper-clad steel at } 20^{\circ}\text{C (68}^{\circ}\text{F)}] = R(12 \text{ AWG copper at } 20^{\circ}\text{C}) \times 100/40 = R(12 \text{ AWG copper at } 20^{\circ}\text{C or } 68^{\circ}\text{F}) \times 2.5.$
- b) $R[12 \text{ AWG copper at } 20^{\circ}\text{C (68}^{\circ}\text{F)}] = 1.62 \text{ ohms/1000 feet or } 5.31 \text{ ohms/kilometer.}$
- c) $R[12 \text{ AWG copper-clad at } 20^{\circ}\text{C (68}^{\circ}\text{F)}] = 1.62 \times 2.5 = 4.05 \text{ ohms/1000 feet or } 5.31 \times 2.5 = 13.28 \text{ ohms-kilometer.}$

(NEW)

5.6.4 The conductivity of a composite conductor composed of copper strands and hard-drawn copper alloy strands shall not be less than 85 percent of 100 percent IACS (International Annealed Copper Standard) conductor.

(NEW)

5.7.11 A composite conductor composed of copper strands and hard-drawn copper alloy strands specified in Table 5.3 is not prohibited, and the placement of the hard-drawn copper alloy wires within a finished composite conductor is not specified. Furthermore, the composite conductor shall comply with the following:

- a) The strands used in a composite conductor shall comply with the Standard Specification for Soft or Annealed Copper Wire, ANSI/ASTM B3 or the Standard Specification for Hard-Drawn Copper Alloy Wires for Electric Conductors, ANSI/ASTM B105 (Alloy 55, 74, 80, and 85) in Table 5.3, as applicable.
- b) The cross-sectional area of the copper alloy strands shall not exceed 25 percent of the cross-sectional area of the complete conductor.

51.2 Markings on the tag, reel, or carton shall contain the following elements:

- a) Wire/cable designation: "AWM."

b) Statement that describes the intended use of the AWM [location of the wire (internal or external), the equipment in which the wire is intended to be used, and conditions to which the wire is exposed (i.e. gasoline, oil, or sunlight)], the temperature rating, and the minimum voltage rating of any insulated conductor used in the cable wires or cables meeting the requirements for -20, -30, -40, or -50°C as described in 23.1 shall be allowed to be marked at -20, -30, -40, or -50°C respectively.

c) Name of the organization responsible for the AWM, trade name, other applicable mark or file number. When the organization responsible for the AWM produces AWM in more than one location, an additional distinctive marking shall be provided that identifies the specific manufacturing location of the AWM.

d) Size and quantity of conductors. The quantity and "AWG" "cmil", "kcmil" or metric size in mm² of the conductors in a wire or cable shall be provided. Single conductor cables do not require the quantity of conductors. For a cable containing a mixture of sizes of individual or paired conductors, the size and quantity of each size conductor shall be provided (Example: 2/18 AWG and 4/24 AWG). In addition, for AWM employing metallic resistance wire conductors, the words "Resistance Wire" and the designed DC resistance per unit length at a particular temperature (Example: Maximum 20 ohm/ 1000 feet at 20°C) shall be marked.

Exception No. 1: For AWM employing magnet wire conductor, the words "Magnet wire conductor" shall be marked and the size of the magnet wire conductor shall be identified by its maximum DC resistance at a particular temperature (Example: Maximum ____ ohm/feet at ____ °C).

Exception No. 2: For AWM employing carbon fiber filament conductor, the words "Carbon fiber filament conductor" shall be marked and the size of the carbon fiber filament conductor shall be identified by its maximum DC resistance at a particular temperature (Example: Maximum ____ ohm/feet at ____ °C).

Exception No. 3: For non-metallic conductors, the conductor size shall not be marked.

Exception No. 4: For AWM employing conductor composed of or containing conductive fibrous yarns, the words "Conductor composed of or containing conductive fibrous yarns" shall be marked and the size of the conductor composed of or containing conductive fibrous yarns shall be identified by its maximum DC resistance at a particular temperature (Example: Maximum ____ ohm/feet at ____ °C).

Exception No. 5: For AWM employing tinsel conductor, the words "Tinsel conductor" and its maximum DC resistance at a particular temperature (Example: Maximum ____ ohm/feet at ____ °C).

Exception No. 6: For a conductor composed of a round, solid metallic wire, the size of conductor may be identified by its diameter.

Exception No. 7: For a conductor composed of a rectangular, solid metallic wire, the size of conductor may be identified by its width and thickness.

e) Conductor material.

Exception: Conductor material marking is not required for unalloyed copper which is at least 97 percent unalloyed copper as referenced in IACS (International Annealed Copper Standard) unless the conductor is a composite conductor composed of copper and hard-drawn copper alloy strands. Composite conductors shall be marked "Conductor composed of composite of copper and hard-drawn copper alloy".

f) The conductivity of the conductor in percent of unalloyed copper. Reference IACS (International Annealed Copper Standard). For a composite conductor of copper and hard-drawn copper alloy strands, the finished conductor's conductivity shall be shown.

Exception: Not applicable for minimum 97 percent IACS unalloyed copper, or 61 percent IACS aluminum, or carbon fiber filament conductor, or magnet wire conductor, or where the resistance of the conductor is identified as indicated in Exceptions 1, 2, and 4 to 51.2(d) and Exception 5 to 51.2(d).

g) Insulation and jacket material and average wall thickness (example: Insulation SRPVC 0.009 inch; Jacket: PVC 0.030 inch). If more than one jacket is required, all materials and thicknesses shall be marked.

h) Date of manufacture by month and year. As an option, the date code may be printed on the cable.

i) For a cable that contains one or more optical fibers, the following statement or equivalent:

"Optical-fiber portion(s) of cable are for installation as described in Article 770 and other applicable parts of the National Electrical Code, NFPA 70. Where optical fiber is installed in a laser system, the system shall comply with the LIA/ANSI Z136 laser system safety standards."

j) For a cable that contains one or more optical fiber members, or group of such members, having a metal or other electrically conductive part, the following statement or equivalent:

"Optical-fiber portion(s) of cable contain non-current-carrying metal or other electrically conductive parts."

k) For a cable that contains a conductive polymeric shield, the following wording or equivalent shall be included on the tag: "Conductive shield" or "Contains Polymeric Conductive Shield."

l) For a cable that employs stranded conductor with tin overcoating as described in Table 5.3, the following wording or equivalent shall be included on the tag: "Stranded conductor with tin overcoating".

m) When the direction of lay of single-bunch, bunch-stranded conductor, and lay of outermost layer in the other stranded conductors is right-hand, the direction of lay shall be indicated on the tag.

n) For a cable employing a composite conductor as described in 5.7.9, the following statement or equivalent shall be included on the tag: "Stranded copper with steel core, for use only in electronic equipment in dry locations where not subject to flexing and where not terminated with wire nut connectors."

In addition to the markings noted above, a cable that contains other markings complies with the intent of this requirement as long as they are not confusing or misleading.

BSR/UL 858, Standard for Household Electric Ranges**1. Change to Polymeric Materials Specification and Nichrome Wire Evaluation****PROPOSAL**

2.4.1 ELECTRICAL CONNECTION - The physical interface between two points in a circuit such as spade terminals, pin terminals, micro switch contacts, relay contacts, timer contacts, crimped connections, and connections that are welded or soldered.

2.4.2 FLAME CYLINDER - A projection of a vertical cylinder having a diameter of 20 mm and a height of 50 mm.

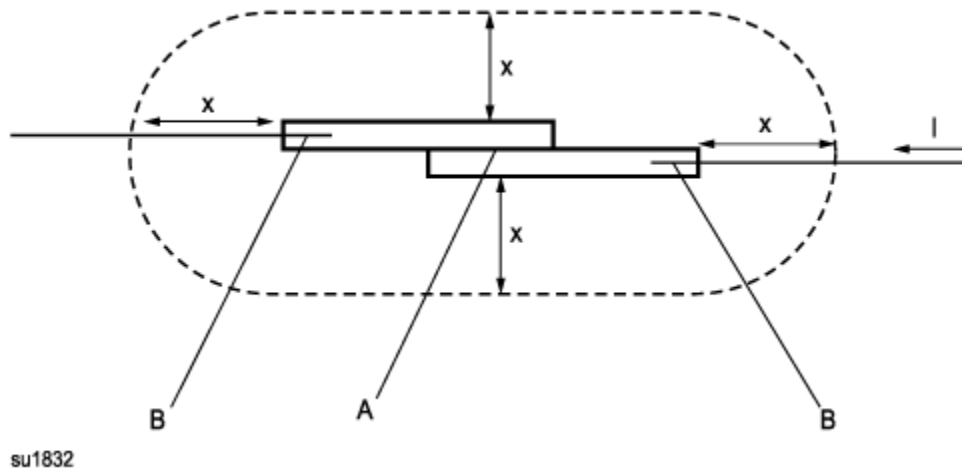
10.24.1 All electrical connections where the total circuit load is greater than 60 W during normal operation shall:

- a) Comply with 10.24.3, 10.24.4, and 10.24.5, or
- b) Be evaluated as specified in Abnormal Operation - Nichrome Wire Test, Section 77A.

10.24.2 The requirements in 10.24.1 shall not apply to welded connections and connections within low voltage circuits.

10.24.3 With reference to 10.24.1, components such as wire, tubing, sleeving, or tape that are located within 3 mm of an electrical connection shall have a flammability classification as follows:

- a) VW-1 for wire evaluated in accordance with the Reference Standard for Electrical Wires, Cables, and Flexible Cords, UL 1581;
- b) VW-1 for tubing and sleeving evaluated in accordance with the Standard for Extruded Insulating Tubing, UL 224 or the Standard for Coated Electrical Sleeving, UL 1441; or
- c) Evaluated in accordance with the Standard for Polyvinyl Chloride, Polyethylene, and Rubber Insulating Tape, UL 510 for flame-retardant insulating tape.

Figure 10.1**Definition of “within 3 mm of an electrical connection”**

“Within 3 mm of an electrical connection” means falling within the dotted boundary formed by the cylinder with hemispherical ends, as shown in the above drawing.

A - Terminal connection zone

B - Wire crimp connection zone

I - Current through the connection

X - Distance from the connection

10.24.4 With reference to 10.24.1, polymeric materials located within 3 mm of an electrical connection shall have a flammability classification as follows:

a) A minimum V-0 or VTM-0, in accordance with the Standard for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances, UL 94, or

b) A minimum SC-0 or SCTC-0, in accordance with Standard for Tests for Flammability of Small Polymeric Component Materials, UL 1694, or

c) A minimum glow wire ignition temperature (GWIT) of 775°C according to Fire Hazard Testing - Part 2-13: Glowing/Hot-wire Based Test Methods - Glow-wire Ignition Temperature (GWIT) Test Method for Materials, IEC 60695-2-13, or

d) The material withstands glow-wire test (GWT) according to Fire Hazard Testing - Part 2-11: Glowing/Hot-wire Based Test Methods - Glow-wire Flammability Test Method for End-products (GWEPT), IEC 60695-2-11 with a minimum test severity of 750°C, and during the test flames persists for no longer than 2 seconds.

10.24.5 With reference to 10.24.1, all polymeric materials located within the envelope of a vertical cylinder having a diameter of 20 mm and a height of 50 mm, placed above the center of the connection zone and on top of the polymeric parts that are supporting current-carrying electrical connections shall have a flammability classification as follows:

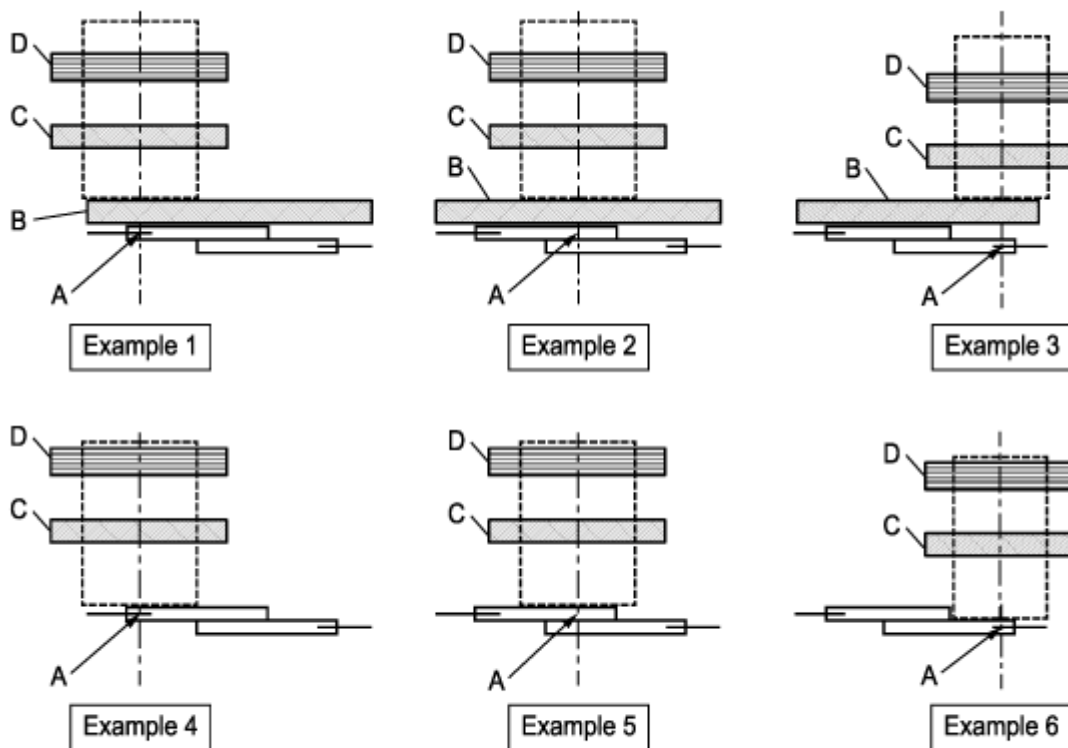
a) minimum of V-0, VTM-0, or HF-1, in accordance with the Standard for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances, UL 94, and Fire Hazard Testing - Part 11-10: Test Flames - 50 W Horizontal and Vertical Flame Test methods, IEC 60695-11-10, or

b) A minimum of SC-0 or SCTC-0, in accordance with the Standard for Tests for Flammability of Small Polymeric Component Materials, UL 1694, or

c) A minimum VW-1 for wire, tubing, sleeving and tape in accordance with 10.24.2 (a), (b), and (c).

10.24.6 With reference to 10.24.5 and Figure 10.2, the flame cylinder shall be placed above the center of each connection zone and on top of any polymeric parts that are supporting current-carrying connections as shown in Examples 1-3 of Figure 10.2. In the case of uninsulated connections, the flame cylinder shall be placed above the center of each connection zone and directly on top of current-carrying conductors as shown in Examples 4-6 of Figure 10.2. The flame cylinder shall project through all metallic and polymeric material. If "C" is intended to act as a barrier to "D", then the adequacy of the barrier shall be demonstrated by testing as described in Abnormal Operation - Nichrome Wire Test, Section 77A.

Figure 10.2
Placement of flame cylinder



su1833

A - Center of connection zone

B - Non-metallic material supporting current carrying connection

C - Metallic or non-metallic material

D - Metallic or non-metallic material

77A Abnormal Operation - Nichrome Wire Test

77A.1 If required per 10.24.1 (b), an electrical connection shall be tested as specified in 77A.6.2 - 77A.6.9. One sample shall be evaluated per connection. Multiple connections may be independently evaluated within the same appliance if they are located such that they do not influence the outcome or evaluation of the test. As a result of the test, there shall be no evidence of the following conditions:

- a) Ignition of the external cheese cloth surrounding the appliance;
- b) Fracture or shorting of the nichrome wire prior to completion of the test; or
- c) A shift in the position of the nichrome wire sufficient to alter the severity of the test.

77A.2 This test intentionally attempts to cause a fire. Appropriate safety precautions to prevent the spread of fire should be taken. The test location shall have sufficient fresh air to sustain the flame. This test shall be conducted at an elevation of less than 2,000 ft (610 m) above sea level.

77A.3 A floor-supported appliance shall be placed on a surface of concrete, calcium silicate board, fiber cement board, or other material that is noncombustible. Metal shall not be used. The top, sides, front and back of appliance shall be completely covered by single-layer cheesecloth panels held in close contact with the exterior of the appliance. A mechanical means, such as small pieces of metal foil adhesive tape shall be used to secure the cheesecloth panels so there are no gaps between the panels. A single layer of cheesecloth slightly larger than the appliance bottom surface shall cover the surface beneath the appliance. Cheesecloth may be placed only in the area of anticipated breach if there is no risk of breach in other areas.

77A.4 Wall-mounted and counter-mounted appliances shall be placed in enclosures as shown in Temperature Test - Wall-mounted Ovens and Counter-mounted Cooking Units, Section 59.5, except the base for wall-mounted products shall be solid, and the enclosure may be constructed from non-combustible material such as calcium silicate board or cement board if preferred. The surfaces of the test enclosure are to be completely covered with two layers of cheesecloth secured as tightly as practicable to the enclosure surface. A single layer of cheesecloth shall be held in close contact with exposed surfaces of the product.

77A.5 Counter-supported ranges shall be supported by 3/8 inch thick minimum plywood or non-combustible material such as calcium silicate board or cement board on the sides and rear of the appliance. Enclosure walls shall be placed as close as possible to the sides and rear of the product with the side walls remaining parallel. The surfaces of the test enclosure are to be completely covered with two layers of cheesecloth secured as tightly as practicable to the enclosure surface. A single layer of cheesecloth shall be held in close contact with exposed surfaces of the product. The floor beneath the product shall be covered with a single layer of cheesecloth.

77A.6 All labels that are applied by the manufacturer shall be applied to the intended surfaces of the test appliance. Printing on the labels is not required. The manufacturer shall place the wiring diagram in the test appliance as intended.

77A.7 The appliance shall be de-energized during the test unless equipped with a protective control or device. The connection under evaluation shall be electrically isolated from the appliance circuitry during the test. If the appliance is energized during the test, a duplicate connection that is electrically isolated from live parts shall be evaluated. Thermocouples shall be placed around the part (but not in direct contact) such that when ignition occurs, an increase in temperature can be detected. When appropriate, windows made of glass, or other clear non-combustible material may be used in the product to allow viewing of the component being tested. Windows must be 'sealed' to prevent extraneous drafts or air

leaks. Windows shall be located in areas not likely to be involved in or influence flame propagation. Video cameras may be employed to assist in verification of ignition. A constant current power supply shall be used and current shall be monitored for evidence of shorting or resistance wire breaks during testing.

77A.8 An appliance control or device employed to provide protection from risk of fire shall be evaluated as a protective control and may be used to de-energize the nichrome wire if found to actuate during the test.

77A.9 Nichrome wire [80% Nickel, 20% Chrome, 22 AWG, in accordance with ASTM 344-11,] shall be applied to a connector or switching contact such that the adjacent polymeric materials will be ignited during the test.

77A.10 A single strand of nichrome wire with an approximate length of 2.0 - 4.0 in (50 mm - 100 mm) shall be formed into a coil with a diameter and length that approximates the connection under evaluation. The coil shall be inserted in place of the connection under evaluation. In the case of a multi-pin connector, a single terminal pin shall be removed from the connector such that the coil can be inserted in the worst case location (typically the lowest position). If worst case position is not obvious, then multiple positions must be evaluated. Insulated wire leads shall be used to supply power to the nichrome wire and shall be supported and strain-relieved to prevent the nichrome wire from shifting during testing. The preferred method of wrapping a coil is wrapping nichrome wire around the threads of a #6-18 wood screw with a root diameter of 0.094 in (2.39 mm) and a thread per inch count of 18. Alternate wrapping methods such as wrapping the connector externally may be employed if it is deemed necessary to achieve complete consumption of the adjacent material. Uninsulated terminals shall be wrapped with a non-flammable tape or sleeve prior to wrapping with nichrome wire to prevent shorting out portions of the nichrome wire. In the case of switching devices, a coil of nichrome wire shall be placed inside the device in the position of the contacts and appropriately supported to prevent movement during the test.

77A.11 The nichrome wire shall be energized such that current in the circuit is immediately increased to 11 A. Power shall be held constant until burning of the polymeric material ceases naturally or there is ignition of the cheesecloth. If ignition of the cheesecloth occurs, the fire shall be extinguished as soon as possible. If no ignition is detected, the current shall be held for 20 min. If the nichrome wire fractures prematurely, the test shall be repeated.

77A.12 After the appliance has cooled, there shall be no charring, burning, or broken fibers of cheesecloth. Smoke discoloration is acceptable. Upon inspection of the appliance, there shall be no evidence of a shift in the position of the nichrome wire sufficient to influence the test

BSR/UL 913, Standard for Safety for *Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations*

1. Clarifying the issue of temperature classification for Class II and Class III intrinsically safe apparatus per responses to comments

PROPOSAL

Special Note for 7.1.2 and Table 7.1 - Included for references only as no additional changes were made beyond what was originally proposed in the May 1, 2015 proposal bulletin.

7.1.2 * The temperature of exposed surfaces of apparatus shall ~~not exceed the values given in Table 7.4~~ be determined when tested according to the procedures described in 9.1 - 9.3. For this requirement, "exposed" means exposed to the flammable or combustible atmosphere or material. Parts within a dust-tight enclosure are not considered exposed; the outside surfaces of the enclosure are exposed.

Exception: Temperatures of small components under fault conditions shall be permitted to exceed these limits if it is shown by test that such higher temperatures will not result in ignition or charring.

Table 7.1

Maximum apparatus surface temperatures

Class II, Group E - 200°C (392°F)
Class II, Group F - 200°C (392°F)
Class II, Group G and Class III - 165°C (329°F)

9.3 The apparatus is to be operated under fault conditions appropriate to the apparatus in accordance with 7.1.1 - 7.1.4 until all temperatures become constant. ~~See 7.1.1 - 7.1.4.~~

9.4 ~~The temperature of surfaces exposed to dust shall not exceed the values in 7.1.2 and Table 7.4.~~ Temperatures classifications are to be based on the temperature rise above ambient in the test chamber determined during the tests of 9.1 - 9.3 at and 40°C (104°F) or higher marked ambient temperature. For Class III, the temperature of surfaces exposed to fibers and flyings shall not exceed 165°C (329°F).

Exception: Temperatures of small components under fault conditions shall be permitted to exceed the limits specified in Table 7.4 10.1 if it is shown by test that such higher temperatures will not result in ignition or charring.

10.1 The minimum marking shall include the following:

- a) Identification of the apparatus, including manufacturer's name or trademark and type or model designation;

- b) Hazardous location class and group;
- c) Maximum surface temperature or temperature class based on operation at 40°C (104°F) or higher ambient temperature;

Exception: Apparatus having a maximum surface temperature no greater than 100°C (212°F) need not have a marked maximum surface temperature or temperature class.

NOTE: Apparatus intended for use in more than one class, group, or division of hazardous locations may require multiple markings.

- d) The ambient temperature for equipment rated for a temperature range other than minus 25 - +40°C. The marking shall include either the symbol "Ta" or "Tamb".
- e) For shunt diode and similar protective barrier assemblies which are intended for field or panel installation, the maximum nonhazardous location voltage.
- f) Control drawing number, except for apparatus not intended to be connected to other apparatus or circuits.

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