

## Contents

### American National Standards

<b>Call for Comment on Standards Proposals</b> .....	<b>2</b>
<b>Call for Members (ANS Consensus Bodies)</b> .....	<b>32</b>
<b>Final Actions</b> .....	<b>39</b>
<b>Project Initiation Notification System (PINS)</b> .....	<b>40</b>
<b>ANS Maintained Under Continuous Maintenance</b> .....	<b>45</b>
<b>ANSI-Accredited Standards Developers Contact Information</b> .....	<b>46</b>

### International Standards

<b>ISO and IEC Draft Standards</b> .....	<b>47</b>
<b>ISO and IEC Newly Published Standards</b> .....	<b>50</b>
<b>Proposed Foreign Government Regulations</b> .....	<b>52</b>
<b>Information Concerning</b> .....	<b>53</b>

## 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: July 9, 2017

### ASME (American Society of Mechanical Engineers)

#### Revision

BSR/ASME QE1-1-201x, Standard for the Qualification of Elevator Inspectors (revision of ANSI/ASME QE1-1-2013)

This Standard applies to the qualification and duties of inspectors and inspection supervisors engaged in the inspection and testing of equipment to determine compliance with the requirements of ASME A17.1/CSA B44; ASME A17.3; CSA B44.1/ASME A17.5; ASME A17.6; ASME A18.1 or CSA B355, CSA B311, and ANSI/ASSE A10.4 or CSA Z185.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Geraldine Burdeshaw, (212) 591-8523, [burdeshawg@asme.org](mailto:burdeshawg@asme.org)

### NSF (NSF International)

#### Revision

BSR/NSF 14-201x (i85r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14-2016a)

The physical, performance, and health effects requirements in this Standard apply to thermoplastic and thermoset plastic piping system components including, but not limited to, pipes, fittings, valves, joining materials, gaskets, and appurtenances.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Lauren Panoff, (734) 769-5197, [lpnoff@nsf.org](mailto:lpnoff@nsf.org)

### UL (Underwriters Laboratories, Inc.)

#### Revision

BSR/UL 340-201x, Standard for Safety for Comparative Flammability of Liquids (revision of ANSI/UL 340-2009 (R2014))

This proposal covers the addition of requirements for Transformer Mineral Oil, Natural and Synthetic Ester Liquids, and Silicone Liquid to Tables 3.1 and 13.1. The original version of this proposal was published on April 14, 2017.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Derrick Martin, (510) 319-4271, [Derrick.L.Martin@ul.com](mailto:Derrick.L.Martin@ul.com)

### UL (Underwriters Laboratories, Inc.)

#### Revision

BSR/UL 567-201x, Standard for Safety for Emergency Breakaway Fittings, Swivel Connectors and Pipe-Connection Fittings for Petroleum Products and LP-Gas (revision of ANSI/UL 567-2014)

The following is being proposed: (1) Revision to the Hydrostatic-Strength Test - single-break emergency breakaway fittings.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Jeff Prusko, (847) 664-3416, [jeffrey.prusko@ul.com](mailto:jeffrey.prusko@ul.com)

### UL (Underwriters Laboratories, Inc.)

#### Revision

BSR/UL 923-201x, Standard for Safety for Microwave Cooking Appliances (revision of ANSI/UL 923-2017)

(1) Clarify the test load of the Leakage Current Test and the Power Input Test.

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

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

### UL (Underwriters Laboratories, Inc.)

#### Revision

BSR/UL 1278-201x, Standard for Safety for Electric Baseboard Heating Equipment (revision of ANSI/UL 1278-2016)

(1) Connected (smart enabled) heaters.

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

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

## Comment Deadline: July 24, 2017

### ABYC (American Boat and Yacht Council)

#### Revision

BSR/ABYC S-30-201x, Outboard Engine and Related Equipment Weights (revision of ANSI/ABYC S-30-2012)

This industry conformity standard is a guide for outboard engine and related equipment weights for use in determining vessel capacity and flotation.

Single copy price: \$50.00

Obtain an electronic copy from: [www.abycinc.org](http://www.abycinc.org)

Order from: [www.abycinc.org](http://www.abycinc.org)

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

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

#### Revision

BSR/ASHRAE Standard 127-201X, Method of Testing for Rating Air Conditioning Units Serving Data Center (DC) and Other Information Technology Equipment (ITE) Spaces (revision of ANSI/ASHRAE Standard 127-2012)

This revision of Standard 127-2012 establishes a uniform set of test requirements for rating air conditioning units that are applied in Data Center (DC) and other Information Technology Equipment (ITE) spaces.

Single copy price: \$35.00

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

Order from: [standards.section@ashrae.org](mailto:standards.section@ashrae.org)

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: <http://www.ashrae.org/standards-research-technology/public-review-drafts>

**ASTM (ASTM International)*****New Standard***

BSR/ASTM WK42727-201x, Test Methods for Determining the Effectiveness of Fire Retardant Treatments for Natural Christmas Trees (new standard)

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

Single copy price: Free

Obtain an electronic copy from: [cleonard@astm.org](mailto:cleonard@astm.org)

Order from: [accreditation@astm.org](mailto:accreditation@astm.org)

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

**ASTM (ASTM International)*****Revision***

BSR/ASTM D2276-201x, Test Method for Particulate Contaminant in Aviation Fuel by Line Sampling (revision of ANSI/ASTM D2276-2006 (R2014))

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

Single copy price: Free

Obtain an electronic copy from: [cleonard@astm.org](mailto:cleonard@astm.org)

Order from: [accreditation@astm.org](mailto:accreditation@astm.org)

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

**ASTM (ASTM International)*****Revision***

BSR/ASTM D5452-201x, Test Method for Particulate Contamination in Aviation Fuels by Laboratory Filtration (revision of ANSI/ASTM D5452-2012)

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

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Order from: [accreditation@astm.org](mailto:accreditation@astm.org)

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**ASTM (ASTM International)*****Revision***

BSR/ASTM D6299-201x, Practice for Applying Statistical Quality Assurance and Control Charting Techniques to Evaluate Analytical Measurement System Performance (revision of ANSI/ASTM D6299-2017)

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

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

**ASTM (ASTM International)*****Revision***

BSR/ASTM D6300-201x, Practice for Determination of Precision and Bias Data for Use in Test Methods for Petroleum Products and Lubricants (revision of ANSI/ASTM D6300-2017)

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

Single copy price: Free

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Order from: [accreditation@astm.org](mailto:accreditation@astm.org)

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

**ASTM (ASTM International)*****Revision***

BSR/ASTM E84-201x, Test Method for Surface Burning Characteristics of Building Materials (revision of ANSI/ASTM E84-2016)

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

Single copy price: Free

Obtain an electronic copy from: [cleonard@astm.org](mailto:cleonard@astm.org)

Order from: [accreditation@astm.org](mailto:accreditation@astm.org)

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

**ASTM (ASTM International)*****Revision***

BSR/ASTM E603-201x, Guide for Room Fire Experiments (revision of ANSI/ASTM E603-2013)

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

Single copy price: Free

Obtain an electronic copy from: [cleonard@astm.org](mailto:cleonard@astm.org)

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

**ASTM (ASTM International)*****Revision***

BSR/ASTM E648-201x, Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source (revision of ANSI/ASTM E648-2017)

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

Single copy price: Free

Obtain an electronic copy from: [cleonard@astm.org](mailto:cleonard@astm.org)

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**ASTM (ASTM International)*****Revision***

BSR/ASTM E662-201x, Test Method for Specific Optical Density of Smoke Generated by Solid Materials (revision of ANSI/ASTM E662-2017)

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

Single copy price: Free

Obtain an electronic copy from: [cleonard@astm.org](mailto:cleonard@astm.org)

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**ASTM (ASTM International)*****Revision***

BSR/ASTM E1354-201x, Test Method for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter (revision of ANSI/ASTM E1354-2016A)

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

Single copy price: Free

Obtain an electronic copy from: [cleonard@astm.org](mailto:cleonard@astm.org)

Order from: [accreditation@astm.org](mailto:accreditation@astm.org)

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**ASTM (ASTM International)****Revision**

BSR/ASTM E2102-201x, Test Method for Measurement of Mass Loss and Ignitability for Screening Purposes Using a Conical Radiant Heater (revision of ANSI/ASTM E2102-2015)

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

Single copy price: Free

Obtain an electronic copy from: [cleonard@astm.org](mailto:cleonard@astm.org)

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

**ASTM (ASTM International)****Revision**

BSR/ASTM E2335-201x, Guide for Laboratory Monitors (revision of ANSI/ASTM E2335-2012)

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

Single copy price: Free

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

**ASTM (ASTM International)****Revision**

BSR/ASTM E2404-201x, Practice for Specimen Preparation and Mounting of Textile, Paper or Polymeric (Including Vinyl) and Wood Wall or Ceiling Coverings, Facings and Veneers, to Assess Surface Burning Characteristics (revision of ANSI/ASTM E2404-2015A)

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

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**ASTM (ASTM International)****Revision**

BSR/ASTM E2573-201x, Practice for Specimen Preparation and Mounting of Site-Fabricated Stretch Systems to Assess Surface Burning Characteristics (revision of ANSI/ASTM E2573-2012)

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

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**ASTM (ASTM International)****Revision**

BSR/ASTM E2574-201x, Test Method for Fire Testing of School Bus Seat Assemblies (revision and redesignation of ANSI/ASTM E2574/E2574M -2012A)

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

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**ASTM (ASTM International)****Revision**

BSR/ASTM E2690-201x, Practice for Specimen Preparation and Mounting of Caulks and Sealants to Assess Surface Burning Characteristics (revision of ANSI/ASTM E2690-2017)

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

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**ASTM (ASTM International)****Revision**

BSR/ASTM E2912-201x, Test Method for Fire Test of Non-Mechanical Fire Dampers Used in Vented Construction (revision of ANSI/ASTM E2912-2013)

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

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**ASTM (ASTM International)****Revision**

BSR/ASTM E2965-201x, Test Method for Determination of Low Levels of Heat Release Rate for Materials and Products Using an Oxygen Consumption Calorimeter (revision of ANSI/ASTM E2965-2016A)

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

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**ASTM (ASTM International)****Revision**

BSR/ASTM E3048-201x, Test Method for Determination of Time to Burn-Through Using the Intermediate Scale Calorimeter (ICAL) Radiant Panel (revision of ANSI/ASTM E3048-2016)

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

Single copy price: Free

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## **ATIS (Alliance for Telecommunications Industry Solutions)**

### ***New Standard***

BSR/ATIS 1000059-201x, Emergency Telecommunications Service Wireline Access Requirements (new standard)

This standard specifies Emergency Telecommunications Service (ETS) network element requirements for wireline access in support of ETS Voice and ETS Video. These requirements are based on the procedures defined in the ETS in IP Networks Phase 1 standard [ATIS-1000010]. In addition, OAM&P requirements are specified.

Single copy price: \$145.00

Order from: Alexandra Blasgen, (202) 434-8840, ablasgen@atis.org

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

## **AWS (American Welding Society)**

### ***Revision***

BSR/AWS D17.1/D17.1M-201x, Specification for Fusion Welding for Aerospace Applications (revision of ANSI/AWS D17.1/D17.1M-2010)

This specification provides the general welding requirements for welding aircraft and space hardware. It includes but is not limited to the fusion welding of aluminum-based, nickel-based, iron-based, cobalt-based, magnesium-based, and titanium-based alloys using electric arc and high-energy beam processes. There are requirements for welding design, personnel and procedure qualification, inspection, and acceptance criteria for aerospace, support, and nonflight hardware. Additional requirements cover repair welding of existing hardware. A commentary for the specification is included.

Single copy price: \$84.00

Order from: Annik Babinski, (800) 443-9353, ababinski@aws.org

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

## **NECA (National Electrical Contractors Association)**

### ***New Standard***

BSR/NECA 781-201X, Recommended Practice for Installing and Maintaining Lightning Protection Systems (new standard)

This standard covers quality and performance criteria and best practices for lightning protection system design and installation for both new construction and existing structures. The basic components of lightning protection systems are covered as well as basic information related to lightning protection system design and system maintenance.

Single copy price: \$40.00

Obtain an electronic copy from: neis@necanet.org

Order from: neis@necanet.org

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

## **NEMA (ASC C29) (National Electrical Manufacturers Association)**

### ***Revision***

BSR C29.1-201x, Test Methods for Electrical Power Insulators (revision of ANSI C29.1-1988 (R2012))

This standard comprises a manual of test methods to be followed in making tests to determine the characteristics of electrical power insulators, as defined herein. Individual tests shall be made only when specified.

Single copy price: Free download from NEMA website

Obtain an electronic copy from: Gerard.Winstanley@Nema.org

Order from: Gerard Winstanley, (703) 841-3231, Gerard.Winstanley@Nema.org

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

## **NEMA (ASC C29) (National Electrical Manufacturers Association)**

### ***Revision***

BSR C29.8-201x, Wet Process Porcelain Insulators - Apparatus, Cap and Pin Type (revision of ANSI C29.8-1985 (R2012))

This standard covers outdoor high-voltage cap-and-pin type apparatus insulators made of wet-process porcelain and used in the transmission and distribution of electrical energy.

Single copy price: Free download (<http://www.nema.org/Standards/Pages/American-National-Standard-for-Wet-Process-Porcelain-Insulators-Apparatus-Cap-and-Pin-Type.aspx>); \$68.00 (Hardcopy)

Obtain an electronic copy from: Gerard.Winstanley@Nema.org

Order from: Gerard Winstanley, (703) 841-3231, Gerard.Winstanley@Nema.org

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

## **NEMA (ASC C29) (National Electrical Manufacturers Association)**

### ***Revision***

BSR C29.9-201x, Wet Process Porcelain Insulators - Apparatus, Post Type (revision of ANSI C29.9-1983 (R2012))

This standard covers outdoor high-voltage post-type apparatus insulators made of wet-process porcelain and used in the transmission and distribution of electrical energy.

Single copy price: Free download (<http://www.nema.org/Standards/Pages/American-National-Standard-for-Wet-Process-Porcelain-Insulators-Apparatus-Post-Type.aspx>); \$53.00 (Hardcopy)

Obtain an electronic copy from: Gerard.Winstanley@Nema.org

Order from: Gerard Winstanley, (703) 841-3231, Gerard.Winstanley@Nema.org

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## **NEMA (ASC C29) (National Electrical Manufacturers Association)**

### ***Revision***

BSR C29.10-201x, Wet Process Porcelain Insulators - Indoor Apparatus Type (revision of ANSI C29.10-1989 (R2012))

This standard covers high-voltage indoor-apparatus insulators made of wet-process porcelain and used in the transmission and distribution of electrical energy.

Single copy price: Free download (<http://www.nema.org/Standards/Pages/American-National-Standard-for-Wet-Process-Porcelain-Insulators-Indoor-Apparatus-Type.aspx>); \$53.00 (Hardcopy)

Obtain an electronic copy from: Gerard.Winstanley@Nema.org

Order from: Gerard Winstanley, (703) 841-3231, Gerard.Winstanley@Nema.org

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

### **New Standard**

BSR NEMA WC76-201x, Standard for Controlled Impedance Shielded Twisted Pairs in Internal Electrical Cable (new standard)

This Standards Publication was developed to cover specific requirements for finished cables with controlled impedance shielded twisted pair(s). This standard uniquely enables a user to specify various numbers of shielded pairs (1 - 61) with a required Impedance requirement, and tailor the materials to meet a specific end application. The cables are intended for wiring of electrical equipment.

Single copy price: Free download from NEMA website

Obtain an electronic copy from: Gerard Winstanley

Order from: Gerard Winstanley, (703) 841-3231, Gerard.Winstanley@Nema.org

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

## **NSF (NSF International)**

### **Revision**

BSR/NSF 173-201x (i69r1), Dietary Supplements (revision of ANSI/NSF 173-2016)

The purpose of NSF/ANSI 173 is to serve as an evaluation tool for analyzing dietary supplements. Certification to this Standard serves as a communication tool between manufacturers of ingredients and finished product, retailers, healthcare practitioners, and consumers. This Standard provides test methods and evaluation criteria to allow for the determination that a dietary supplement contains the ingredients claimed on the label, either qualitatively or quantitatively, and that it does not contain specific undeclared contaminants. In some instances, validated laboratory methods are not yet available for analyzing certain ingredients.

Single copy price: Free

Obtain an electronic copy from: [http://standards.nsf.org/apps/group\\_public/download.php/37810/173i69r1%20JC%20memo%20&%20ballot.pdf](http://standards.nsf.org/apps/group_public/download.php/37810/173i69r1%20JC%20memo%20&%20ballot.pdf)

Order from: Rachel Brooker, (734) 827-6866, rbrooker@nsf.org

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

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

### **Reaffirmation**

BSR/UL 299-2012 (R201x), Standard for Safety for Dry Chemical Fire Extinguishers (reaffirmation of ANSI/UL 299-2012)

Reaffirmation of ANSI/UL 299-2012.

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: Mark Ramlochan, (613) 368-4422, Mark.Ramlochan@ul.com

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

### **Reaffirmation**

BSR/UL 437-2013 (R201x), Standard for Safety for Key Locks (reaffirmation of ANSI/UL 437-2013)

Reaffirmation of ANSI/UL 437-2013.

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

Order from: comm2000

Send comments (with copy to psa@ansi.org) to: Mark Ramlochan, (613) 368-4422, Mark.Ramlochan@ul.com

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

### **Reaffirmation**

BSR/UL 626-2012 (R201x), Standard for Safety for Water Fire Extinguishers (reaffirmation of ANSI/UL 626-2012)

Reaffirmation of ANSI/UL 626-2012.

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

### **Reaffirmation**

BSR/UL 887-2004 (R201x), Standard for Safety for Delayed-Action Timelocks (reaffirmation of ANSI/UL 887-2004 (R2013))

Reaffirmation of ANSI/UL 887-2004.

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

### **Reaffirmation**

BSR/UL 1484-2008 (R201x), Standard for Safety for Residential Gas Detectors (reaffirmation of ANSI/UL 1484-2008 (R2013))

Reaffirmation of current American National Standard that covers electrically operated gas detectors intended for installation in residential occupancies and recreational vehicles (RVs).

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

### **Reaffirmation**

BSR/UL 1803-2012 (R201x), Standard for Safety for Factory Follow-Up on Third Party Certified Portable Fire Extinguishers (reaffirmation of ANSI/UL 1803-2012)

Reaffirmation of ANSI/UL 1803-2012.

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

BSR/UL 746B-201x, Standard for Safety for Polymeric Materials - Long Term Property Evaluations (revision of ANSI/UL 746B-2016)

This proposal covers the inclusion of Specialized Analysis of Polymer Variation (One-Temperature, Single-Point Thermal-Aging Program) with technical information and analytical tests to Section 20.2.

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

BSR/UL 121201-201X, Standard for Safety for Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations (Proposal dated 06-09-17) (revision and redesignation of ANSI/ISA 12.12.01-2015 / CAN/CSA C22.2 No. 213)

UL adoption of the proposed third edition of the Standard for Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations.

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**WCMA (Window Covering Manufacturers Association)****Revision**

BSR/WCMA A100.1-201x, Standard for Safety of Window Covering Products (revision of ANSI/WCMA A100.1-2014)

This Standard applies to all interior window covering products. Types of window covering products covered include, but are not limited to, cellular shades, horizontal blinds, pleated shades, roll-up style blinds, roller shades, sheer shades, Roman-style shades, traverse rods (including products that are used with traverse rods, e.g., curtains and drapes), panel tracks, and vertical blinds. These products can be manufactured and distributed as either stock or custom products.

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**Comment Deadline: August 8, 2017****ITI (INCITS) (InterNational Committee for Information Technology Standards)****Reaffirmation**

INCITS 4-1986 [R201x], Information Systems - Coded Character Sets - 7-Bit Standard Code for Information Interchange (7-Bit ASCII) (reaffirmation of INCITS 4-1986 [R2012])

Details information interchange among information processing systems, communication systems, and associated equipment. Specifies a set of 128 characters (control characters and graphics characters such as letters, digits, and symbols) with their coded representation.

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

INCITS 149-1986 [R201x], Financial Transaction Card Formsets - Location of Imprinted Information (reaffirmation of INCITS 149-1986 [R2012])

Provides the location of the imprinted account number, area for source ID, amount of transaction, and date of transaction as they appear on 51-column and 80-column card size financial transaction card formsets.

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

INCITS 358-2002 [R201x], Information technology - BioAPI Specification (Version 1.1) (reaffirmation of INCITS 358-2002 [R2012])

Defines the application programming interface and service provider interface for a standard biometric technology interface. It is beyond the scope of this specification to define security requirements for biometric applications and service providers, although some related information is included by way of explanation of how the API is intended to support good security practices.

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

### Reaffirmation

INCITS 358-2002/AM 1-2007 [R201x], Information technology - BioAPI Specification (Version 1.1) - Amendment 1: Support for Biometric Fusion (reaffirmation of INCITS 358-2002/AM 1-2007 [R2012])

Amendment 1 to INCITS 358-2002.

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

### Reaffirmation

INCITS 359-2012 [R201x], Information technology - Role Based Access Control (reaffirmation of INCITS 359-2012)

This standard consists of two main parts: the RBAC Reference Model and the RBAC System and Administrative Functional Specification. The RBAC Reference Model defines sets of basic RBAC elements (i.e., users, roles, permissions, operations, and objects) and relations as types and functions that are included in this standard. The RBAC System and Administrative Functional Specification specifies the features that are required of an RBAC system.

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

### Reaffirmation

INCITS 365-2002 [R201x], Information Technology - SCSI RDMA Protocol (SRP) (reaffirmation of INCITS 365-2002 [R2012])

Defines the rules for exchanging information between SCSI devices using an RDMA communication service. 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 415-2006 [R201x], Information technology - Homeland Security Mapping Standard - Point Symbolology for Emergency Management (reaffirmation of INCITS 415-2006 [R2012])

The primary purpose of this standard, Homeland Security Mapping Standard - Point Symbolology for Emergency Management, is to establish a common set of symbols for use by mapmakers in support of emergency managers and first responders. It will allow users to rapidly interpret map data and to be able to disseminate consistent, usable information. This American National Standard is applicable to all organizations that create maps or otherwise display features for the Emergency Management or First Responder communities. It is limited at this time to support portrayal of point features that relate to the emergency management and hazard mapping disciplines.

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

### Reaffirmation

INCITS 431-2007 [R201x], Information technology - SCSI/ATA Translation (SAT) (reaffirmation of INCITS 431-2007 [R2012])

Defines standard mappings and behaviors among implementations that effect the behavior of SCSI devices as viewed by a host driver where the physical devices are ATA class devices presented to the host by applying a translation layer between the Serial ATA or Parallel ATA device and the SCSI interface.

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

### Reaffirmation

INCITS 434-2007 [R201x], Information technology - Tenprint Capture Using BioAPI (reaffirmation of INCITS 434-2007 [R2012])

Specifies requirements for the use of ISO/IEC 19784-1, BioAPI Specification (also known as BioAPI 2.0), a software interface standard, for the purpose of performing a tenprint capture operation. This includes one or more of the following: (1) Identification of BioAPI functions to be utilized and the order (if any) in which they are to be called; (2) Specification of values for function parameters; (3) Definition of GUI (graphical user interface) events (for use with an application-controlled GUI); (4) User interface specifications for use with a BSP (biometric service provider)-controlled GUI; and (5) Sample calling sequences and example inputs/outputs.

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

### **Reaffirmation**

INCITS 462-2010/AM1-2012 [R201x], Information technology - Fibre Channel - Backbone - 5 (FC-BB-5) - Amendment 1 (reaffirmation of INCITS 462-2010/AM1-2012)

Amendment 1 to INCITS 462-2010.

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

### **Reaffirmation**

INCITS 468-2010/AM1-2012 [R201x], Information technology - Multi-media Command Set - 6 (MMC-6) - Amendment 1 (reaffirmation of INCITS 468-2010/AM1-2012)

Amendment 1 to INCITS 468-2010

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

### **Reaffirmation**

INCITS 482-2012 [R201x], Information technology - ATA/ATAPI Command Set - 2 (ACS-2) (reaffirmation of INCITS 482-2012)

The set of AT Attachment standards consists of this standard and the ATA implementation standards described in AT Attachment 8 ATA ATAPI Architecture Model (ATA8 AAM). The ATA ATAPI Command Set 2 ACS 2 standard specifies the command set host systems use to access storage devices. It provides a common command set for systems manufacturers, system integrators, software suppliers, and suppliers of intelligent storage devices. Figure 1 in the standard shows the relationship of this standard to the other standards and related projects in the ATA and SCSI families of standards and specifications.

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

### **Reaffirmation**

INCITS 483-2012 [R201x], Information Technology - Virtualization Management Specification (reaffirmation of INCITS 483-2012)

The information in this standard should be sufficient for a provider or consumer of this data to unambiguously identify the classes, properties, methods, and values that shall be instantiated to subscribe, advertise, produce, or consume an indication using the DMTF Common Information Model (CIM) Schema. The target audience for this standard is implementers who are writing CIM-based providers or consumers of management interfaces that represent the components described in this document.

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

### **Reaffirmation**

INCITS 484-2012 [R201x], Information Technology - SCSI Media Changer Commands - 3 (reaffirmation of INCITS 484-2012)

Defines the command set extensions to facilitate operation of SCSI media changer devices. The clauses of this standard, implemented in conjunction with the requirements of the SCSI Architecture Model 4 standard and SPC-4, fully specify the standard command set for SCSI media changer devices. The objectives of the SCSI-3 Media Changer Commands 3 standard are: (a) to permit an application client to communicate with a logical unit that declares itself to be a media changer device in the PERIPHERAL DEVICE TYPE field of the INQUIRY command response data; and (b) to define commands and parameter data to manage the operation of SCSI media changer devices.

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

### **Reaffirmation**

INCITS 493-2012 [R201x], Information Technology - AT Attachment-8 - Serial Transport (ATA8-AST) (reaffirmation of INCITS 493-2012)

Specifies the AT Attachment Interface between host systems and storage devices using a serial electrical interface. It provides a common attachment interface for systems manufacturers, system integrators, software suppliers, and suppliers of intelligent storage devices. This standard 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 494-2012 [R201x], Information Technology - Role Based Access Control - Policy Enhanced (reaffirmation of INCITS 494-2012)

This RBAC Policy-Enhanced standard (to be referenced as RPE) provides a framework and functional specifications to handle the relationship between roles and dynamic constraints. Some of the administrative and user permission review advantages of RBAC are retained while allowing the access control system to work in a rapidly changing environment.

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

### **Reaffirmation**

INCITS 495-2012 [R201x], Information Technology - Platform Management Volumes 1 and 2 (reaffirmation of INCITS 495-2012)

The Platform Management Specification describes an open, secure, portable, efficient and extensible infrastructure for management of physical systems. The key properties of Platform Management Specification are as follows: It provides a top-level object model needed for the representation of physical platforms or systems and the discovery of physical computer systems; It specifies services for the manipulation of physical computer systems and their components, including operations for the boot control, software update, power control, power utilization management, text console, etc.

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

### **Reaffirmation**

INCITS 496-2012 [R201x], Information Technology - Fibre Channel - Security Protocols - 2 (FC-SP-2) (reaffirmation of INCITS 496-2012)

Describes the protocols used to implement security in a Fibre Channel fabric. This standard includes the definition of protocols to authenticate Fibre Channel entities, protocols to set up session keys, protocols to negotiate the parameters required to ensure frame-by-frame integrity and confidentiality, and protocols to establish and distribute policies across a Fibre Channel fabric.

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

### **Reaffirmation**

INCITS 497-2012 [R201x], Information Technology - Automation/Drive Interface Commands - 3 (ADC-3) (reaffirmation of INCITS 497-2012)

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-4, fully specify the standard command set for automation/drive interface 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 an automation/drive interface device in the peripheral device type field of the standard inquiry data (see SPC-4); (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 and the operation of logical units of other specific device types that are present in the same device as the automation/drive interface logical unit.

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

### **Reaffirmation**

INCITS 498-2012 [R201x], Information technology - CIM Representations of Management Specification (reaffirmation of INCITS 498-2012)

The information in this standard should be sufficient for a provider or consumer of this data to unambiguously identify the classes properties methods and values that shall be instantiated to subscribe, advertise, produce, or consume an indication using the DMTF Common Information Model CIM Schema. The target audience for this standard is implementers who are writing CIM-based providers or consumers of management interfaces that represent the components described in this document.

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

### Reaffirmation

INCITS/ISO 19111:2007 [R201x], Geographic information - Spatial referencing by coordinates (reaffirmation of INCITS/ISO 19111:2007 [R2012])

Defines the conceptual schema for the description of spatial referencing by coordinates, optionally extended to spatio-temporal referencing. It describes the minimum data required to define one-, two-, and three-dimensional spatial coordinate reference systems with an extension to merged spatial-temporal reference systems. It allows additional descriptive information to be provided. It also describes the information required to change coordinates from one coordinate reference system to another. In it, a coordinate reference system does not change with time. For coordinate reference systems defined on moving platforms such as cars, ships, aircraft, and spacecraft, the transformation to an Earth-fixed coordinate reference system can include a time element applicable to producers and users of geographic information. Although it is applicable to digital geographic data, its principles can be extended to many other forms of geographic data such as maps, charts, and text documents. The schema described can be applied to the combination of horizontal position with a third non-spatial parameter, which varies monotonically with height or depth. This extension to non-spatial data is beyond the scope but can be implemented through profiles.

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

### Reaffirmation

INCITS/ISO 19134:2007 [R201x], Geographic information - Location-based services - Multimodal routing and navigation (reaffirmation of INCITS/ISO 19134:2007 [R2012])

Specifies the data types and their associated operations for the implementation of multimodal location-based services for routing and navigation. It is designed to specify web services that may be made available to wireless devices through web-resident proxy applications, but is not limited to that environment.

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

### Reaffirmation

INCITS/ISO 19137:2007 [R201x], Geographic information - Core profile of the spatial schema (reaffirmation of INCITS/ISO 19137:2007 [R2012])

Defines a core profile of the spatial schema specified in ISO 19107 that specifies, in accordance with ISO 19106, a minimal set of geometric elements necessary for the efficient creation of application schemata. Supports many of the spatial data formats and description languages already developed and in broad use within several nations or liaison organizations.

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

### Reaffirmation

INCITS/ISO 19148:2012 [R201x], Geographic information - Linear referencing (reaffirmation of INCITS/ISO 19148:2012 [2012])

Specifies a conceptual schema for locations relative to a one-dimensional object as measurement along and optionally offset from that object. It defines a description of the data and operations required to use and support linear referencing. Applicable to transportation utilities, location-based services, and other applications which define locations relative to linear objects.

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

### Reaffirmation

INCITS/ISO 19149:2011 [R201x], Geographic information - Rights expression language for geographic information - GeoREL (reaffirmation of INCITS/ISO 19149:2011 [2012])

Defines an XML-based vocabulary or language to express rights for geographic information in order that digital licenses can be created for such information and related services. This language, GeoREL, is an extension of the rights expression language in ISO/IEC 21000-5 and is to be used to compose digital licenses. Each digital license will unambiguously express those particular rights that the owners (or their agent) of a digital geographic resource extend to the holders of that license. The digital rights management system in which these licenses are used can then offer ex ante (before the fact) protection for all such resources. (NOTE: The proper use of a GeoREL includes the preservation of rights access by formula expressed in usage licenses. Thus, data in the public or private domain, when protected, remain in their respective domains if the usage rights granted so state. These "rights" are not always covered by copyright law, and are often the result of contracts between individuals that specify the proper and allowed uses of resources, as opposed to the threat of copyright litigations which is an ex post facto (after the fact) remediation measure, not an ex ante protection measure. It is not a reflection of, or extension of, copyright law. Mechanisms for the enforcement and preservation of those contract rights are specified in ISO/IEC 21000, and it is not the intention of this document to replace nor redefine those mechanisms, but to use them as previously standardized.)

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

### Reaffirmation

INCITS/ISO 19156:2011 [R201x], Geographic information - Observations and measurements (reaffirmation of INCITS/ISO 19156:2011 [2012])

Defines a conceptual schema for observations, and for features involved in sampling when making observations. These provide models for the exchange of information describing observation acts and their results, both within and between different scientific and technical communities. Observations commonly involve sampling of an ultimate feature-of-interest. Defines a common set of sampling feature types classified primarily by topological dimension, as well as samples for ex-situ observations. The schema includes relationships between sampling features (sub-sampling, derived samples). Concerns only externally visible interfaces and places no restriction on the underlying implementations other than what is needed to satisfy the interface specifications in the actual situation.

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

### Reaffirmation

INCITS/ISO 19131:2007/AM1:2011 [R201x], Geographic information - Data product specifications - Amendment 1: Requirements relating to the inclusion of an application schema and feature catalogue and the treatment of coverages in an application schema. (reaffirmation of INCITS/ISO 19131:2007/AM1:2011 [2012])

Amendment 1 to ISO 19131:2007.

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

### Reaffirmation

INCITS/ISO/IEC 7816-3:2006 [R201x], Identification cards - Integrated circuit (s) cards with contacts - Part 3: Electronic interface and transmission protocols (reaffirmation of INCITS/ISO/IEC 7816-3:2006 [R2012])

Specifies the power and signal structures, and information exchange between an integrated circuit card and an interface device such as a terminal. It also covers signal rates, voltage levels, current values, parity convention, operating procedure, transmission mechanisms, and communication with the card. It does not cover information and instruction content, such as identification of issuers and users, services and limits, security features, journaling, and instruction definitions.

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

### Reaffirmation

INCITS/ISO/IEC 9796-2:2010 [R201x], Information technology - Security techniques - Digital signature schemes giving message recovery - Part 2: Integer factorization based mechanisms (reaffirmation of INCITS/ISO/IEC 9796-2:2010 [2012])

Specifies three digital signature schemes giving message recovery, two of which are deterministic (non-randomized) and one of which is randomized. The security of all three schemes is based on the difficulty of factorizing large numbers. All three schemes can provide either total or partial message recovery. Specifies the method for key production for the three signature schemes. However, techniques for key management and for random number generation (as required for the randomized signature scheme) are outside the scope. The first mechanism specified is only applicable for existing implementations and is retained for reasons of backward compatibility.

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

### Reaffirmation

INCITS/ISO/IEC 9797-2:2011 [R201x], Information technology - Security techniques - Message Authentication Codes (MACs) - Part 2: Mechanisms using a dedicated hash-function (reaffirmation of INCITS/ISO/IEC 9797-2:2011 [2012])

Message Authentication Code (MAC) algorithms are data-integrity mechanisms that compute a short string (the Message Authentication Code or MAC) as a complex function of every bit of the data and of a secret key. Their main security property is unforgeability: someone who does not know the secret key should not be able to predict the MAC on any new data string. MAC algorithms can be used to provide data integrity. Their purpose is the detection of any unauthorized modification of the data such as deletion, insertion, or transportation of items within data. This includes both malicious and accidental modifications. MAC algorithms can also provide data origin authentication. This means that they can provide assurance that a message has been originated by an entity in possession of a specific secret key.

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

### Reaffirmation

INCITS/ISO/IEC 9797-3:2011 [R201x], Information technology - Security techniques - Message Authentication Codes (MACs) - Part 3: Mechanisms using a universal hash-function (reaffirmation of INCITS/ISO/IEC 9797-3:2011 [2012])

Specifies the following Message Authentication Code (MAC) algorithms that use a secret key and a universal hash-function with an n-bit result to calculate an m-bit MAC based on the block ciphers specified in ISO/IEC 18033-3 and the stream ciphers specified in ISO/IEC 18033-4: UMAC; Badger; Poly1305-AES; GMAC.

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

### Reaffirmation

INCITS/ISO/IEC 9798-1:2010 [R201x], Information technology - Security techniques - Entity authentication - Part 1: General (reaffirmation of INCITS/ISO/IEC 9798-1:2010 [2012])

Specifies an authentication model and general requirements and constraints for entity authentication mechanisms which use security techniques. These mechanisms are used to corroborate that an entity is the one that is claimed. An entity to be authenticated proves its identity by showing its knowledge of a secret. The mechanisms are defined as exchanges of information between entities and, where required, exchanges with a trusted third party. The details of the mechanisms and the contents of the authentication exchanges are given in subsequent parts of ISO/IEC 9798.

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

### Reaffirmation

INCITS/ISO/IEC 9798-6:2010 [R201x], Information technology - Security techniques - Entity authentication - Part 6: Mechanisms using manual data transfer (reaffirmation of INCITS/ISO/IEC 9798-6:2010 [2012])

Specifies eight entity authentication mechanisms based on manual data transfer between authenticating devices. Four of these mechanisms are improved versions of mechanisms specified in ISO/IEC 9798-6:2005 since they use less user input and achieve more security. Such mechanisms can be appropriate in a variety of circumstances where there is no need for an existing public key infrastructure, shared secret keys or passwords. One such application occurs in personal networks, where the owner of two personal devices capable of wireless communications wishes them to perform an entity authentication procedure as part of the process of preparing them for use in the network. These mechanisms can also be used to support key management functions.

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

### Reaffirmation

INCITS/ISO/IEC 10746-1:1998 [R201x], Information Technology - Open Distributed Processing - Reference Model: Overview (reaffirmation of INCITS/ISO/IEC 10746-1:1998 [R2012])

Gives an introduction and motivation for ODP; provides an overview of the RM-ODP and an explanation of its key concepts; gives guidance on the application of the RM-ODP.

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

### Reaffirmation

INCITS/ISO/IEC 10746-4:1998 [R201x], Information Technology - Open Distributed Processing - Reference Model: Architectural Semantics - Part 4: Architectural Semantics (reaffirmation of INCITS/ISO/IEC 10746-4:1998 [R2012])

Provides an architectural semantics for ODP.

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

### Reaffirmation

INCITS/ISO/IEC 10746-4:1998/AM1:2001 [R201x], Information Technology - Open Distributed Processing - Reference Model: Architectural Semantics - Part 4 - Amendment1: Computational Formalization (reaffirmation of INCITS/ISO/IEC 10746-4:1998/AM1:2001 [R2012])

Amendment 1 to ISO/IEC 10746-4:1998.

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

### Reaffirmation

INCITS/ISO/IEC 11770-5:2011 [R201x], Information technology - Security techniques - Key management - Part 5: Group key management (reaffirmation of INCITS/ISO/IEC 11770-5:2011 [2012])

Specifies key establishment mechanisms for multiple entities to provide procedures for handling cryptographic keying material used in symmetric or asymmetric cryptographic algorithms according to the security policy in force. It defines the symmetric key based key establishment mechanisms for multiple entities with a key distribution center (KDC), and defines symmetric key establishment mechanisms based on general tree-based structure with both individual rekeying and batched rekeying. It also defines key establishment mechanisms based on key chain with both unlimited forward key chain and limited forward key chain. Both key establishment mechanisms can be combined by applications. Also describes the required content of messages which carry keying material or are necessary to set up the conditions under which the keying material can be established.

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

### Reaffirmation

INCITS/ISO/IEC 13211-1:1995 [R201x], Information technology - Prolog Language Standard - Part 1: General Core (reaffirmation of INCITS/ISO/IEC 13211-1:1995 [R2012])

Specifies: (a) The representation of Prolog text, (b) The syntax and constraints of the Prolog language, (c) The semantic rules for interpreting Prolog text, (d) the representation of input data to be processed by Prolog, (e) The representation of output produced by Prolog, and (f) The restrictions and limits imposed on a conforming Prolog processor.

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

### Reaffirmation

INCITS/ISO/IEC 13235-1:1998 [R201x], Information technology - Open Distributed Processing - Trading function: Specification - Part 1: Specification (reaffirmation of INCITS/ISO/IEC 13235-1:1998 [R2012])

An enterprise specification for the trading function; an information specification for the trading function; a computational specification for traders; conformance requirements in terms of conformance points.

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

### Reaffirmation

INCITS/ISO/IEC 13235-3:1998 [R201x], Information technology - Open Distributed Processing - Trading Function - Part 3: Provision of Trading Function using OSI Directory service (reaffirmation of INCITS/ISO/IEC 13235-3:1998 [R2012])

Describes how the ODP trading function can be realized using information entries and support mechanisms of the OSI Directory.

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

### Reaffirmation

INCITS/ISO/IEC 13249-6:2006 [R201x], Information technology - Database languages - SQL multimedia and application packages - Part 6: Data mining (reaffirmation of INCITS/ISO/IEC 13249-6:2006 [R2012])

Defines a number of packages of generic data types common to various kinds of data used in multimedia and application areas, to enable that data to be stored and manipulated in an SQL database. Introduces the data-mining package, gives the necessary references, defines notations and conventions specific to this part, defines concepts specific to this part, and defines data-mining user-defined types and their associated routines.

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

### Reaffirmation

INCITS/ISO/IEC 13818-3:1998 [R201x], Information Technology - Generic Coding of Moving Pictures and Associated Audio Information - Part 3: Audio (reaffirmation of INCITS/ISO/IEC 13818-3:1998 [R2012])

Specifies the extension of ISO/IEC 11172-3 to lower sampling frequencies, the coded representation of multilingual high-quality audio for broadcasting, transmission, and storage media, and the method for decoding of multichannel and multilingual high-quality audio signals. The input of the encoder and the output of the decoder are compatible with existing PCM standards.

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

### Reaffirmation

INCITS/ISO/IEC 13818-6:1998 [R201x], Information technology - Generic coding of moving pictures and associated audio information - Part 6: Extensions for DSM-CC (reaffirmation of INCITS/ISO/IEC 13818-6:1998 [R2012])

Provides the general capability to browse, select, download, and control a variety of bit stream types. DSM-CC also provides a mechanism to manage network and application resources through the concept of a Session, an associated collection of resources required to deliver a Service. The Session complements a "Service Domain", a collection of interfaces to browse and select services, and control the delivery of bit streams.

DSM-CC defines the syntax and semantics for a set of User-to-Network and User-to-User protocols:

DSM-CC Message Header;

U-N Configuration messages;

U-N Session messages and flow diagrams for Session and Resource management;

U-N Download messages;

U-N Switched Digital Broadcast Channel Change Protocol;

U-N Pass Thru messages;

The transport of DSM-CC U-N messages using ISO/IEC 13818-1;

The transport of generic IP messages using DSM-CC sections and ISO/IEC 13818-1, clause 9;

U-U Remote Procedure Call;

U-U Session interface;

U-U Download interface;

U-U Object Carousel interface;

U-U Local Object interface;

U-U Stream Descriptors.

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

### Reaffirmation

INCITS/ISO/IEC 13818-9:1996 [R201x], Information technology - Generic coding of moving pictures and associated audio information - Part 9: Extension for real time interface for systems decoders (reaffirmation of INCITS/ISO/IEC 13818-9:1996 [R2012])

Indicates that the accuracy requirements in ISO/IEC 13818-1 for PCRs in Transport Streams is not changed by the requirements of this part of ISO/IEC 13818. All Transport Streams, whether or not they are delivered in accordance with the RTI shall comply with ISO/IEC 13818-1. Compliance with this part of ISO/IEC 13818 is not required for compliance with ISO/IEC 13818-1. This part of ISO/IEC 13818 does not change or supersede any of the requirements in ISO/IEC 13818-1.

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

### Reaffirmation

INCITS/ISO/IEC 13818-6:1998/AM3:2001 [R201x], Information technology - Generic coding of moving pictures and associated audio information - Part 6: Extensions for DSM-CC - Amendment 3: Transport buffer model in support of synchronized user-to-network download protocol (reaffirmation of INCITS/ISO/IEC 13818-6:1998/AM3:2001 [R2012])

Amendment 3 to ISO/IEC 13818-6:1998.

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

### Reaffirmation

INCITS/ISO/IEC 13888-2:2010 [R201x], Information technology - Security techniques - Non-repudiation - Part 2: Mechanisms using symmetric techniques (reaffirmation of INCITS/ISO/IEC 13888-2:2010 [2012])

The goal of the non-repudiation service is to generate, collect, maintain, make available, and validate evidence concerning a claimed event or action in order to resolve disputes about the occurrence or non-occurrence of the event or action. Provides descriptions of generic structures that can be used for non-repudiation services, and of some specific communication-related mechanisms which can be used to provide non-repudiation of origin (NRO) and non-repudiation of delivery (NRD). Other non-repudiation services can be built using the generic structures described in this standard in order to meet the requirements defined by the security policy. Relies on the existence of a trusted third party (TTP) to prevent fraudulent repudiation or accusation.

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

### Reaffirmation

INCITS/ISO/IEC 14496-1:2010 [R201x], Information technology - Coding of audio-visual objects - Part 1: Systems (reaffirmation of INCITS/ISO/IEC 14496-1:2010 [2012])

Specifies system level functionalities for the communication of interactive audio-visual scenes, i.e., the coded representation of information related to the management of data streams (synchronization, identification, description, and association of stream content).

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

### Reaffirmation

INCITS/ISO/IEC 14496-2:2004 [R201x], Information technology - Coding of audio-visual objects - Part 2: Visual (reaffirmation of INCITS/ISO/IEC 14496-2:2004 [R2012])

Specifies the coded representation of picture information in the form of natural or synthetic visual objects like video sequences of rectangular or arbitrarily shaped pictures, moving 2D meshes, animated 3D face and body models and texture for synthetic objects. The coded representation allows for content-based access for digital storage media, digital video communication, and other applications. ISO/IEC 14496 specifies also the decoding process of the aforementioned coded representation. The representation supports constant bitrate transmission; variable bitrate transmission; robust transmission; content-based random access (including normal random access); object-based scalable decoding (including normal scalable decoding); object-based bitstream editing; as well as special functions such as fast forward playback, fast reverse playback, slow motion, pause, and still pictures. Synthetic objects and coding of special 2D/3D meshes, texture, and animation parameters are provided for use with downloadable models to exploit mixed media and the bandwidth improvement associated with remote manipulation of such models. ISO/IEC 14496 is intended to allow some level of interoperability with ISO/IEC 11172-2:1993, ISO/IEC 13818-2:1996, and ITU-T Recommendation H.263.

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

### Reaffirmation

INCITS/ISO/IEC 14496-3:2009 [R201x], Information technology - Coding of audio-visual objects - Part 3: Audio (reaffirmation of INCITS/ISO/IEC 14496-3:2009 [2012])

Integrates many different types of audio coding: natural sound with synthetic sound, low-bitrate delivery with high-quality delivery and lossless coding, speech with music, complex soundtracks with simple ones, and traditional content with interactive and virtual-reality content. By standardizing individually sophisticated coding tools - as well as a novel, flexible framework for audio synchronization, mixing and downloaded post-production - ISO/IEC 14496-3:2009 creates adequate technology for a new, interactive world of digital audio.

ISO/IEC 14496-3:2009, unlike previous audio standards created by ISO/IEC and other groups, does not target a single application such as real-time telephony or high-quality audio compression. Rather, it applies to every application requiring the use of advanced sound compression, synthesis, manipulation, or playback. ISO/IEC 14496-3:2009 specifies state-of-the-art coding tools in several domains. As these tools are integrated with the other parts of ISO/IEC 14496, new possibilities for object-based audio coding, interactive presentation, dynamic soundtracks, and other sorts of new media are enabled.

Since a single set of tools is used to cover the needs of a broad range of applications, interoperability is a natural feature of systems that build on ISO/IEC 14496-3:2009.

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

### Reaffirmation

INCITS/ISO/IEC 14776-372:2011 [R201x], Information technology - Small Computer System Interface (SCSI) - Part 372: SCSI Enclosure Services - 2 (SES-2) (reaffirmation of INCITS/ISO/IEC 14776-372:2011 [2012])

Documents the commands and parameters necessary to manage and sense the state of the power supplies, cooling devices, displays, indicators, individual drives, and other non-SCSI elements installed in an enclosure. The command set uses the SCSI Send Diagnostic and Receive Diagnostic Results command to obtain configuration information for the enclosure and to set and sense standard bits for each type of element that may be installed in the enclosure.

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

### Reaffirmation

INCITS/ISO/IEC 15408-1:2009 [R201x], Information technology - Security techniques - Evaluation criteria for IT security - Part 1: Introduction and general model (reaffirmation of INCITS/ISO/IEC 15408-1:2009 [2012])

Establishes the general concepts and principles of IT security evaluation and specifies the general model of evaluation given by various parts of ISO/IEC 15408 which in its entirety is meant to be used as the basis for evaluation of security properties of IT products. It provides an overview of all parts of ISO/IEC 15408. It describes the various parts of ISO/IEC 15408; defines the terms and abbreviations to be used in all parts ISO/IEC 15408; establishes the core concept of a Target of Evaluation (TOE); the evaluation context; and describes the audience to which the evaluation criteria are addressed.

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

### Reaffirmation

INCITS/ISO/IEC 15938-1:2002 [R201x], Information technology - Multimedia content description interface - Part 1: Systems (reaffirmation of INCITS/ISO/IEC 15938-1:2002 [R2012])

Defines a Multimedia Content Description Interface, specifying a series of interfaces from system to application level to allow disparate systems to interchange information about multimedia content. It describes the architecture for systems, a language for extensions and specific applications, description tools in the audio and visual domains, as well as tools that are not specific to audio-visual domains. This part of ISO/IEC 15938 specifies system level functionalities for the communication of multimedia content descriptions. ISO/IEC 15938-1 provides a specification which will:

- enable development of ISO/IEC 15938 receiving sub-systems, called ISO/IEC 15938 Terminal, or Terminal in short, to receive and assemble possibly partitioned and compressed multimedia content descriptions;
- provide rules for the preparation of multimedia content descriptions consisting of the tools specified in Parts 3, 4, and 5 of ISO/IEC 15938 for efficient transport and storage.

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

### Reaffirmation

INCITS/ISO/IEC 15938-2:2002 [R201x], Information Technology - Multimedia Content Description Interface - Part 2: Description Definition Language (reaffirmation of INCITS/ISO/IEC 15938-2:2002 [R2012])

Specifies a metadata system for describing multimedia content. It specifies the Description Definition Language (DDL) that comprises part 2 of the standard (ISO/IEC 15938-2). The goal of this part of the MPEG-7 International Standard is to specify a language that will enable MPEG-7 users and developers to: create valid MPEG-7 description schemes and descriptors; develop tools such as editors and parsers for processing descriptions, description schemes and descriptors; and generate refinements, extensions, and modifications to the DDL. Describes the features of the DDL. It defines the syntax of the DDL constructs and datatypes and provides optional (informative) examples that illustrate the application of the DDL to the specification and instantiation of MPEG-7 descriptions.

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

### Reaffirmation

INCITS/ISO/IEC 15938-3:2002 [R201x], Information technology - Multimedia content description interface - Part 3: Visual (reaffirmation of INCITS/ISO/IEC 15938-3:2002 [R2012])

Specifies tools for description of visual content, including still images, video, and 3D models. These tools are defined by their syntax in DDL and binary representations and semantics associated with the syntactic elements. They enable description of the visual features of the visual material, such as color, texture, shape, and motion, as well as localization of the described objects in the image or video sequence. An overview of the visual description tools is shown in Figure 1.

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

### Reaffirmation

INCITS/ISO/IEC 15938-4:2002 [R201x], Information technology - Multimedia content description interface - Part 4: Audio (reaffirmation of INCITS/ISO/IEC 15938-4:2002 [R2012])

Defines a Multimedia Content Description Interface, specifying a series of interfaces from system- to application-level to allow disparate systems to interchange information about multimedia content. It describes the architecture for systems, a language for extensions and specific applications, description tools in the audio and visual domains, as well as tools that are not specific to audio-visual domains. As a whole, this International Standard encompassing all of the aforementioned components is known as "MPEG-7." MPEG-7 is

divided into eight parts (as defined in the Foreword). This part of the MPEG-7 Standard (Part 4: Audio) specifies description tools that pertain to multimedia in the audio domain.

This part of the MPEG-7 Standard is intended to be implemented in conjunction with other parts of the standard. In particular, MPEG-7, Part 4: Audio, assumes knowledge of Part 2: Description Definition Language (DDL) in its normative syntactic definitions of Descriptors and Description Schemes. This part of the standard also has dependencies upon clauses in Part 5: Multimedia Description Schemes, namely many of the fundamental Description Schemes that extend the basic type capabilities of the DDL.

MPEG-7 is an extensible standard. The method to extend the standard beyond the Description Schemes provided in the standard is to define new ones in the DDL, and to make those DSs available with the instantiated descriptions. Further details are available in Part 2.

To avoid duplicate functionality with other parts of the standard, the DDL is the only extension facility provided.

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

### Reaffirmation

INCITS/ISO/IEC 15944-8:2012 [R201x], Information technology - Business Operational View - Part 8: Identification of privacy protection requirements as external constraints on business transactions (reaffirmation of INCITS/ISO/IEC 15944-8:2012 [2012])

Developed to support modeling generic international requirements for identifying and providing privacy protection of personal information throughout any kind of information and communications technology (ICT)-based business transaction where the individual has the role of a buyer. It provides users and designers with a methodology and tools addressing requirements imposed by jurisdictional domains.

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

### Reaffirmation

INCITS/ISO/IEC 15946-5:2009 [R201x], Information technology - Security techniques - Cryptographic techniques based on elliptic curves - Part 5: Elliptic curve generation (reaffirmation of INCITS/ISO/IEC 15946-5:2009 [2012])

Defines the elliptic curve generation techniques useful for implementing the mechanisms defined in ISO/IEC 9796-3, ISO/IEC 11770-3, ISO/IEC 14888-3, and ISO/IEC 18033-2. The scope is restricted to cryptographic techniques based on elliptic curves defined over finite fields of prime power order (including the special cases of prime order and characteristic two). The representation of elements of the underlying finite field (i.e., which basis is used) is outside the scope. ISO/IEC 15946 does not specify the implementation of the techniques it defines. Interoperability of products complying with ISO/IEC 15946 will not be guaranteed.

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

### Reaffirmation

INCITS/ISO/IEC 18023-1:2006/AM1:2012 [R201x], Information technology - SEDRIS - Part 1: Functional specification - Amendment 1 (reaffirmation of INCITS/ISO/IEC 18023-1:2006/AM1:2012)

Amendment 1 to ISO/IEC 18023-1:2006.

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

### Reaffirmation

INCITS/ISO/IEC 18023-3:2006/AM 1:2012 [R201x], Information technology - Synthetic Environment Data Representation and Interchange Specification (SEDRIS): Part 3: Transmittal format binary encoding - Amendment 1 (reaffirmation of INCITS/ISO/IEC 18023-3:2006/AM1:2012 [2012])

Amendment 1 to ISO/IEC 18023-3:2006.

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

### Reaffirmation

INCITS/ISO/IEC 18024-4:2006/AM1:2012 [R201x], Information technology - Synthetic Environment Data Representation and Interchange Specification (SEDRIS) Language Bindings - Part 4: C - Amendment 1 (reaffirmation of INCITS/ISO/IEC 18024-4:2006/Amd 1:2012)

Amendment 1 to ISO/IEC 18024-4:2006.

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

### Reaffirmation

INCITS/ISO/IEC 18033-3:2010 [R201x], Information technology - Security techniques - Encryption algorithms - Part 3: Block ciphers (reaffirmation of INCITS/ISO/IEC 18033-3:2010 [2012])

Specifies block ciphers. A block cipher is a symmetric encipherment system with the property that the encryption algorithm operates on a block of plaintext, i.e., a string of bits of a defined length, to yield a block of ciphertext.

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

### Reaffirmation

INCITS/ISO/IEC 18033-4:2011 [R201x], Information technology - Security techniques - Encryption algorithms - Part 4: Stream ciphers (reaffirmation of INCITS/ISO/IEC 18033-4:2011 [2012])

Specifies output functions to combine a keystream with plaintext, keystream generators for producing keystream, and object identifiers assigned to dedicated keystream generators in accordance with ISO/IEC 9834.

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

### Reaffirmation

INCITS/ISO/IEC 18042-4:2006/AM1:2011 [R201x], 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 18042-4:2006/Amd 1:2012)

Amendment 1 to ISO/IEC 18042-4:2006.

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

### Reaffirmation

INCITS/ISO/IEC 19784-1:2006 [R201x], Information technology - Biometric application programming interface - Part 1: BioAPI specification (reaffirmation of INCITS/ISO/IEC 19784-1:2006 [R2012])

Provides a defined interface that allows a software application to communicate with (utilize the services of) one or more biometric technologies. It includes a high-level generic biometric authentication model suited to a broad range of biometrically enabled applications and to most forms of biometric technology. An architectural model is described which enables components of a biometric system to be provided by different vendors, and to interwork through fully defined Application Programming Interfaces (APIs), corresponding Service Provider Interfaces (SPIs), and associated data structures. Covers the basic biometric functions of enrollment, verification and identification, and includes a database interface to allow an application to manage the storage of biometric records. Conformance requirements are identified and informative annexes, including sample code, are provided. Specifies a biometric data structure which is compatible with ISO/IEC 19785 and 19794.

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

### Reaffirmation

INCITS/ISO/IEC 19794-1:2006 [R201x], Information technology - Biometric data interchange formats - Part 1: Framework (reaffirmation of INCITS/ISO/IEC 19794-1:2006 [R2012])

Standardized biometric data interchange formats are crucial to the interoperability of biometric components. Describes general aspects of biometric data interchange formats and specifies requirements to be taken into account in standardizing specific formats. It classifies biometric data according to their processing level and establishes a naming concept for biometric data interchange formats on this basis.

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

### Reaffirmation

INCITS/ISO/IEC 19794-2:2005 [R201x], Information technology - Biometric data interchange formats - Part 2: Finger minutiae data (reaffirmation of INCITS/ISO/IEC 19794-2:2005 [R2012])

Specifies a concept and data formats for representation of fingerprints using the fundamental notion of minutiae. It is generic, in that it may be applied and used in a wide range of application areas where automated fingerprint recognition is involved. Contains definitions of relevant terms, a description of how minutiae shall be determined, data formats for containing the data for both general use and for use with cards, and conformance information. Guidelines and values for matching and decision parameters are provided in an informative annex. Specifies the fundamental data elements used for minutiae-based representation of a fingerprint; three data formats for interchange and storage of this data: a record-based format, and normal and compact formats for use on a smart card in a match-on-card application; optional extended data formats for including additional data such as ridge counts and core and delta location.

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

### Reaffirmation

INCITS/ISO/IEC 19794-3:2006 [R201x], Information technology - Biometric data interchange formats - Part 3: Finger pattern spectral data (reaffirmation of INCITS/ISO/IEC 19794-3:2006 [R2012])

Specifies requirements for the representation of local or global spectral data derived from a fingerprint image. The format is designed to provide flexibility in the choice of spectral representation in that spectral components may be based on quantized co-sinusoidal triplets, Discrete Fourier Transformations or Gabor filters. The format also allows for a variable number of spectral components to be retained, which enables data representations in a form that is more compact than storage of the entire fingerprint image. Provides example data records for each of the spectral representations.

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

### Reaffirmation

INCITS/ISO/IEC 19794-4:2005 [R201x], Information technology - Biometric data interchange formats - Part 4: Finger image data (reaffirmation of INCITS/ISO/IEC 19794-4:2005 [R2012])

Specifies a data record interchange format for storing, recording, and transmitting the information from one or more finger or palm image areas within an ISO/IEC 19785-1 CBEFF data structure. This can be used for the exchange and comparison of finger image data. It defines the content, format, and units of measurement for the exchange of finger image data that may be used in the verification or identification process of a subject. The information consists of a variety of mandatory and optional items, including scanning parameters, compressed or uncompressed images, and vendor-specific information. This information is intended for interchange among organizations that rely on automated devices and systems for identification or verification purposes based on the information from finger image areas. Information compiled and formatted in accordance with it can be recorded on machine-readable media or may be transmitted by data communication facilities.

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

### Reaffirmation

INCITS/ISO/IEC 19794-5:2005 [R201x], Information technology - Biometric data interchange formats - Part 5: Face image data (reaffirmation of INCITS/ISO/IEC 19794-5:2005 [R2012])

Specifies scene, photographic, digitization and format requirements for images of faces to be used in the context of both human verification and computer automated recognition. The approach to specifying scene and photographic requirements in this format is to carefully describe constraints on how a photograph should appear rather than to dictate how the photograph should be taken. The format is designed to allow for the specification of visible information discernable by an observer pertaining to the face, such as gender, pose, and eye color. The digital image format can be either ISO standard JPEG or JPEG2000. Finally, the "best practice" appendices provide guidance on photo capture for travel documents and face recognition performance versus digital compression.

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

### Reaffirmation

INCITS/ISO/IEC 19794-6:2005 [R201x], Information technology - Biometric data interchange formats - Part 6: Iris image data (reaffirmation of INCITS/ISO/IEC 19794-6:2005 [R2012])

Specifies two alternative image interchange formats for biometric authentication systems that utilize iris recognition. The first is based on a rectilinear image storage format that may be a raw, uncompressed array of intensity values or a compressed format such as that specified by ISO/IEC 15444. The second format is based on a polar image specification that requires certain pre-processing and image segmentation steps, but produces a much more compact data structure that contains only iris information. Data that comply with either one of the specified iris image formats are intended to be embedded in a CBEFF-compliant structure in the CBEFF Biometric Data Block (BDB) as specified in ISO/IEC 19785-1.

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

### Reaffirmation

INCITS/ISO/IEC 19794-7:2007 [R201x], Information technology - Biometric data interchange formats - Part 7: Signature/sign time series data (reaffirmation of INCITS/ISO/IEC 19794-7:2007 [R2012])

Specifies two data interchange formats for signature/sign behavioral data captured in the form of time series using devices such as digitizing tablets or advanced pen systems. One data interchange format is for general use and the other one is a compact format for use with smart cards or other tokens. Both data interchange formats can be used for both acquired signature/sign samples (serving as a starting point for feature extraction) and for time-series features (to be compared directly by time-series-based comparison algorithms). Abstract syntax notation one (ASN.1) specifications of the data interchange formats and encoding instructions are provided in an informative annex.

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

### Reaffirmation

INCITS/ISO/IEC 19794-9:2007 [R201x], Information technology - Biometric data interchange formats - Part 9: Vascular image data (reaffirmation of INCITS/ISO/IEC 19794-9:2007 [R2012])

Defines the exchange of human vascular biometric image information. It defines a specific definition of attributes, a data record format for storing and transmitting vascular biometric images and certain attributes, a sample record and conformance criteria. Intended for applications requiring the exchange of raw or processed vascular biometric images. It is intended for applications not limited by the amount of storage required. It is a compromise or a trade-off between the resources required for data storage or transmission and the potential for improved data quality/accuracy. Basically, it is to enable various algorithms to identify or verify the vascular biometric image data transferred from other image sources. Currently available vascular biometric technologies that may utilize it for image exchange are technologies that use the back of the hand, palm, and finger.

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

### Reaffirmation

INCITS/ISO/IEC 19794-10:2007 [R201x], Information technology - Biometric data interchange formats - Part 10: Hand geometry silhouette data (reaffirmation of INCITS/ISO/IEC 19794-10:2007 [R2012])

Specifies a data record interchange format for storing, recording, and transmitting the information from one or more hand silhouettes within a Common Biometric Exchange Formats Framework (CBEFF) data structure. It defines the content, format, and units of measurement for the exchange of hand silhouette data that may be used in the verification or identification process of a subject. The information consists of a variety of mandatory and optional items, including data capture parameters, standardized hand-position and vendor-specific information. This information is intended for interchange among organizations that rely on automated devices and systems for identification or verification purposes based on the information from hand-geometry measurements.

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

### Reaffirmation

INCITS/ISO/IEC 19795-1:2006 [R201x], Information technology - Biometric performance testing and reporting - Part 1: Principles and framework (reaffirmation of INCITS/ISO/IEC 19795-1:2006 [R2012])

Establishes general principles for testing the performance of biometric systems in terms of error rates and throughput rates for purposes including prediction of performance, comparison of performance, and verifying compliance with specified performance requirements. Specifies performance metrics for biometric systems. Specifies requirements on test methods, recording of data and reporting of results. Provides a framework for developing and describing test protocols, to help avoid bias due to inappropriate data collection or analytic procedures, to help achieve the best estimate of field performance for the expended effort, and to improve understanding of the limits of applicability of the test results. Applicable to empirical performance testing of biometric systems and algorithms through analysis of the matching scores and decisions output by the system, without detailed knowledge of the system's algorithms or of the underlying distribution of biometric characteristics in the population of interest.

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

### Reaffirmation

INCITS/ISO/IEC 27033-3:2010 [R201x], Information technology - Security techniques - Network security - Part 3: Reference networking scenarios - Threats, design techniques and control issues (reaffirmation of INCITS/ISO/IEC 27033-3:2010 [2012])

Describes the threats, design techniques, and control issues associated with reference network scenarios. For each scenario, it provides detailed guidance on the security threats and the security design techniques and controls required to mitigate the associated risks. Where relevant, it includes references to ISO/IEC 27033-4 to ISO/IEC 27033-6 to avoid duplicating the content of those documents.

The information is for use when reviewing technical security architecture/design options and when selecting and documenting the preferred technical security architecture/design and related security controls, in accordance with ISO/IEC 27033-2.

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

### Reaffirmation

INCITS/ISO/IEC 29192-2:2012 [R201x], Information technology - Security techniques - Lightweight cryptography - Part 2: Block ciphers (reaffirmation of INCITS/ISO/IEC 29192-2:2012 [2012])

Specifies two block ciphers suitable for applications requiring lightweight cryptographic implementations: PRESENT: a lightweight block cipher with a block size of 64 bits and a key size of 80 or 128 bits; and CLEFIA: a lightweight block cipher with a block size of 128 bits and a key size of 128, 192, or 256 bits.

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

### Reaffirmation

INCITS/ISO/IEC 6937:2001 [R201x], Information technology - Coded graphic character set for text communication - Latin alphabet (reaffirmation of INCITS/ISO/IEC 6937:2001 [R2012])

Specifies (a) the coded representation of the character; (b) a repertoire of the Latin alphabetic and non-alphabetic characters for the communication of text in many European languages using the Latin script; and (c) the rules for the definitions and use of graphic character subrepertoires, i.e., subsets of the specified character repertoire.

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

### Reaffirmation

INCITS/ISO/IEC 9542:2002 (R201x), Information processing systems - Telecommunications and information exchange between systems - End system to Intermediate system routing exchange protocol for use in conjunction with the Protocol for providing the connectionless-mode network service (ISO 8473) (reaffirmation of INCITS/ISO/IEC 9542:2002 [R2012])

Specifies a protocol used by Network Layer entities in End Systems (ES) and Intermediate Systems (IS) to maintain routing information. Defines transmission procedures for configuration and routing information between ES and IS; the encoding of protocol data units; procedures for protocol control information interpretation; and functional requirements for implementations conforming with this standard. References: ISO 7498; 7498 Add. 1 and 4; 8208; 8348 Add. 1 and 2; ISO 8473; 8648; 8802; CCITT X.25.

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

### Reaffirmation

INCITS/ISO/IEC 9899:2011 [R201x], Information technology - Programming languages - C (reaffirmation of INCITS/ISO/IEC 9899:2011 [2012])

Specifies the form and establishes the interpretation of programs written in the C programming language. It specifies the representation of C programs; the syntax and constraints of the C language; the semantic rules for interpreting C programs; the representation of input data to be processed by C programs; the representation of output data produced by C programs; and the restrictions and limits imposed by a conforming implementation of C. ISO/IEC 9899:2011 is designed to promote the portability of C programs among a variety of data-processing systems. It is intended for use by implementers and programmers.

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

### Reaffirmation

INCITS/ISO/IEC 10030:1995 [R201x], Information technology - Telecommunications and information exchange between systems - End System Routing Information Exchange Protocol for use in conjunction with ISO/IEC 8878 (reaffirmation of INCITS/ISO/IEC 10030:1995 [R2012])

Cancels and replaces the first edition (1990). Defines a protocol for the exchange of routing information between an End System and a Subnetwork Address Resolution Entity, and between an Intermediate System and a Subnetwork Address Resolution Entity. Applicable to: End Systems which operate according to the main body of ISO/IEC 8878 to provide and support the OSI Connection-mode Network Service using ISO/IEC 8208; Subnetwork Address Resolution Entities which operate ISO/IEC 8208; and Intermediate Systems which operate ISO/IEC 8208.

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

### Reaffirmation

INCITS/ISO/IEC 10589:2002 [R201x], Intermediate System to Intermediate System Intra-Domain-Routing Routine Information Exchange Protocol for Use in Conjunction with the Protocol for Providing the Connectionless-Mode Network Service (ISO 8473) (reaffirmation of INCITS/ISO/IEC 10589:2002 [R2012])

Specifies a protocol which is used by Network Layer entities operating the protocol specified in ISO 8473 in Intermediate Systems to maintain routing information for the purpose of routing within a single routing domain. The protocol specified in this International Standard relies upon the provision of a connectionless-mode underlying service.

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

### Reaffirmation

INCITS/ISO/IEC 13568:2002 [R201x], Information technology - Z formal specification notation - Syntax, type system and semantics (reaffirmation of INCITS/ISO/IEC 13568:2002 [R2012])

The following are within the scope of this International Standard: the syntax of the Z notation; the type system of the Z notation; the semantics of the Z notation; a toolkit of widely used mathematical operators; L A T E X and e-mail mark-up.

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

### Reaffirmation

INCITS/ISO/IEC 14492:2001 [R201x], Information technology - Lossy/lossless coding of bi-level images (reaffirmation of INCITS/ISO/IEC 14492:2001 [R2012])

Defines methods for coding bi-level images and sets of images (documents consisting of multiple pages). It is particularly suitable for bi-level images consisting of text and dithered (halftone) data. The methods defined permit lossless (bit-preserving) coding, lossy coding, and progressive coding. In progressive coding, the first image is lossy; subsequent images may be lossy or lossless. Also defines file formats to enclose the coded bi-level image data.

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

### Reaffirmation

INCITS/ISO/IEC 16262:2011 [R201x], Information technology - Programming languages, their environments and system software interfaces - ECMAScript language specification (reaffirmation of INCITS/ISO/IEC 16262:2011 [2012])

Defines the ECMAScript scripting language.

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

### Reaffirmation

INCITS/ISO/IEC 16680:2012 [R201x], Information technology - The Open Group Service Integration Maturity Model (OSIMM) (reaffirmation of INCITS/ISO/IEC 16680:2012 [2012])

The Open Group Service Integration Maturity Model (OSIMM) specifies:

- a model against which the degree of service integration maturity of an organization can be assessed, and
- a process for assessing the current and desired degree of service integration maturity of an organization, using the model.

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

### Reaffirmation

INCITS/ISO/IEC 17203:2011 [R201x], Information technology - Open Virtualization Format (OVF) specification (reaffirmation of INCITS/ISO/IEC 17203:2011 [2012])

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

### Reaffirmation

INCITS/ISO/IEC 18031:2011 [R201x], Information technology - Security techniques - Random bit generation (reaffirmation of INCITS/ISO/IEC 18031:2011 [2012])

Specifies a conceptual model for a random-bit generator for cryptographic purposes, together with the elements of this model. Specifies the characteristics of the main elements required for a non-deterministic random bit generator, specifies the characteristics of the main elements required for a deterministic random bit generator, establishes the security requirements for both the non-deterministic and the deterministic random bit generator. Where there is a requirement to produce sequences of random numbers from random bit strings, this standard gives guidelines on how this can be performed.

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

### Reaffirmation

INCITS/ISO/IEC 19118:2011 [R201x], Geographic information - Encoding (reaffirmation of INCITS/ISO/IEC 19118:2011 [2012])

This standard specifies the requirements for defining encoding rules to be used for the interchange of geographic data within the ISO 19100 series of International Standards.

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

### Reaffirmation

INCITS/ISO/IEC 19773:2011 [R201x], Information technology - Metadata Registries (MDR) modules (reaffirmation of INCITS/ISO/IEC 19773:2011 [2012])

Specifies small modules of data that can be used or reused in applications. These modules have been extracted from ISO/IEC 11179-3, ISO/IEC 19763, and OASIS EBXML, and have been refined further. These modules are intended to harmonize with current and future versions of the ISO/IEC 11179 series and the ISO/IEC 19763 series. These modules include: reference-or-literal (reflit) for on-demand choices of pointers or data; multitext, multistring, etc. for recording internationalized and localized data within the same structure; slots and slot arrays for standardized extensible data structures; internationalized contact data, including UPU postal addresses, ITU-T E.164 phone numbers, internet E-mail addresses, etc.; generalized model for context-data-based upon who-what-where-when-why-how (W5H); and data structures for reified relationships and entity-person-groups. Conformity can be selected on a per-module basis.

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

### Reaffirmation

INCITS/ISO/IEC 19792:2009 [R201x], Information technology - Security techniques - Security evaluation of biometrics (reaffirmation of INCITS/ISO/IEC 19792:2009 [2012])

Specifies the subjects to be addressed during a security evaluation of a biometric system. It covers the biometric-specific aspects and principles to be considered during the security evaluation of a biometric system. It does not address the non-biometric aspects which might form part of the overall security evaluation of a system using biometric technology (e.g., requirements on databases or communication channels).

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

### Reaffirmation

INCITS/ISO/IEC 24745:2011 [R201x], Information technology - Security techniques - Biometric information protection (reaffirmation of INCITS/ISO/IEC 24745:2011 [2012])

Provides guidance for the protection of biometric information under various requirements for confidentiality, integrity, and renewability/revocability during storage and transfer. Additionally provides requirements and guidelines for the secure and privacy-compliant management and processing of biometric information.

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

### Reaffirmation

INCITS/ISO/IEC 26300:2006 [R201x], Information technology - Open Document Format for Office Applications (OpenDocument) v1.0 (reaffirmation of INCITS/ISO/IEC 26300:2006 [R2012])

Defines an XML schema for office applications and its semantics. The schema is suitable for office documents, including text documents, spreadsheets, charts and graphical documents like drawings or presentations, but is not restricted to these kinds of documents. Provides for high-level information suitable for editing documents. It defines suitable XML structures for office documents and is friendly to transformations using XSLT or similar XML-based tools.

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

### Reaffirmation

INCITS/ISO/IEC 27007:2011 [R201x], Information technology - Security techniques - Guidelines for information security management systems auditing (reaffirmation of INCITS/ISO/IEC 27007:2011 [2012])

Provides guidance on managing an information security management system (ISMS) audit programme, on conducting the audits, and on the competence of ISMS auditors, in addition to the guidance contained in ISO 19011. Is applicable to those needing to understand or conduct internal or external audits of an ISMS or to manage an ISMS audit programme.

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

### Reaffirmation

INCITS/ISO/IEC 29100:2011 [R201x], Information technology - Security techniques - Privacy Framework (reaffirmation of INCITS/ISO/IEC 29100:2011 [2012])

Provides a privacy framework which specifies a common privacy terminology; defines the actors and their roles in processing personally identifiable information (PII); describes privacy safeguarding considerations; and provides references to known privacy principles for information technology. Applicable to natural persons and organizations involved in specifying, procuring, architecting, designing, developing, testing, maintaining, administering, and operating information and communication technology systems or services where privacy controls are required for the processing of PII.

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

### Reaffirmation

INCITS/ISO/IEC 29103:2011 [R201x], Information technology - Office equipment - Colour photo test pages for measurement of ink cartridge yield for colour photo printing (reaffirmation of INCITS/ISO/IEC 29103:2011 [2012])

Defines a set of test images in a common file format, JPEG, that are used in the testing of cartridge yield for printing of photographs. The defined documents are used in ISO/IEC 29102 to determine the photo yield of cartridges in an inkjet-based printing system.

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

### Reaffirmation

INCITS/ISO/IEC 29128:2011 [R201x], Information technology - Security techniques - Verification of cryptographic protocols (reaffirmation of INCITS/ISO/IEC 29128:2011 [2012])

Establishes a technical base for the security proof of the specification of cryptographic protocols. It specifies design evaluation criteria for these protocols, as well as methods to be applied in a verification process for such protocols. It also provides definitions of different protocol assurance levels consistent with evaluation assurance components in ISO/IEC 15408.

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

### Reaffirmation

INCITS/ISO/IEC 29136:2012 [R201x], Information technology - User interfaces - Accessibility of personal computer hardware (reaffirmation of INCITS/ISO/IEC 29136:2012 [2012])

Provides requirements and recommendations for the accessibility of personal computer hardware, to be used when planning, developing, designing, and distributing these computers. While it does not cover the behaviour of, or requirements for, assistive technologies, it does address connectivity of assistive technologies as an integrated component of interactive systems. Some requirements or recommendations require software support; however, requirements and recommendations that solely focus on software are not included.

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

### Reaffirmation

INCITS/ISO/IEC 29150:2011 [R201x], Information technology - Security techniques - Signcryption (reaffirmation of INCITS/ISO/IEC 29150:2011 [2012])

Specifies four mechanisms for signcryption that employ public key cryptographic techniques requiring both the originator and the recipient of protected data to have their own public and private key pairs. The specified methods have been designed to maximize the level of security and provide efficient processing of data. All the mechanisms defined have mathematical "proofs of security", i.e., rigorous arguments supporting their security claims. Is not applicable to infrastructures for management of public keys which are defined in ISO/IEC 11770-1 and ISO/IEC 9594.

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

### Stabilized Maintenance

INCITS 256-2007 [S201x], Radio Frequency Identification (RFID) (stabilized maintenance of INCITS 256-2007 [R2012])

Establishes a technical standard for a family of compatible RFID devices, specifically, RFID devices operating in freely available international frequency bands at license-free power levels. Its purposes are as follows: Promote interoperability and compatibility between RFID devices by defining a common API and limited physical and data link layer options. Support item management applications and provide flexibility in the physical layer definitions to allow additional features for uses that value such enhancements. The scope includes the following: Frequency Interface definitions, RDID system definition, Minimum features, Compliance requirements, Document structure and references, Tag identification number, Manufacturer's tag identification number: MfrTagID, and User's tag identification number: UserTagID.

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

### **Stabilized Maintenance**

INCITS 360-2002 [S201x], Information Technology - SCSI Multimedia Commands - 3 (MMC-3) (stabilized maintenance of INCITS 360-2002 [R2012])

Defines 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 and these extensions are 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 Fibre Channel, SCSI Parallel Interface, High-Performance Serial Bus (IEEE 1394), Serial Storage Architecture, and ATA/ATAPI.

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

### **Stabilized Maintenance**

INCITS 411-2007 [S201x], Information technology - iSCSI Management API, Version 1.1.6 (stabilized maintenance of INCITS 411-2007 [R2012])

This API provides interfaces to discover and manage iSCSI resources on a system. The intended audience is vendors that deliver drivers that provide these resources to a system.

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

### **Stabilized Maintenance**

INCITS 413-2007 [S201x], Information technology - RapidIO(TM) Interconnect Specification (version 1.3) (stabilized maintenance of INCITS 413-2007 [R2012])

The RapidIO architecture was developed to address the need for a high-performance low-pin-count packet-switched system-level interconnect to be used in a variety of applications as an open standard. The architecture is targeted toward networking, telecom, and high-performance embedded applications. It is intended primarily as an intra-system interconnect, allowing chip-to-chip and board-to-board communications at Gigabyte-per-second performance levels.

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

### **Stabilized Maintenance**

INCITS 424-2007 [S201x], Information technology - Fibre Channel Framing and Signaling - 2 (FC-FS-2) (stabilized maintenance of INCITS 424-2007 [R2012])

Describes the framing and signaling interface of a high-performance serial link for support of FC-4s associated with upper level protocols (e.g., SCSI, IP, SBCCS, VI). This standard is based on FC-FS with subsequent modifications approved by the T11 committee. Extended Link Services (ELSS) are not specified in this standard. FC-LS should be consulted for the functional description of all ELSS referenced in this specification.

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

### **Stabilized Maintenance**

INCITS 426-2007 [S201x], Information technology - Fibre Channel Security Protocols (FC-SP) (stabilized maintenance of INCITS 426-2007 [R2012])

Describes the protocols used to implement security in a Fibre Channel fabric. This standard includes the definition of protocols to authenticate Fibre Channel entities, protocols to set up session keys, protocols to negotiate the parameters required to ensure frame-by-frame integrity and confidentiality, and protocols to establish and distribute policies across a Fibre Channel fabric.

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

### **Stabilized Maintenance**

INCITS 427-2007 [S201x], Information technology - Fibre Channel Generic Services-5 (FC-GS-5) (stabilized maintenance of INCITS 427-2007 [R2012])

Describes in detail the services accessed by well-known addresses defined in FC-FS- 2. Generic Services described in this document are: (a) Directory Service; (b) Management Service; (c) Event Service; and (d) Alias Service.

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

### ***Stabilized Maintenance***

INCITS 428-2007 [S201x], Information technology - Storage Management - Host Bus Adapter Application Programming Interface (SM-HBA) (stabilized maintenance of INCITS 428-2007 [R2012])

A standard application programming interface (API) defines a scope within which, and a grammar by which it is possible to write application software without attention to vendor-specific infrastructure behavior. SM-HBA specifies a standard API the scope of which is management of FC and SAS HBAs, and the use of FC and SAS capabilities for discovery and management of the components of the respective fabric or domain. This standard is to be used in conjunction with the Fibre Channel, Serial-Attached SCSI, and SCSI families of standards.

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

### ***Stabilized Maintenance***

INCITS 430-2007 [S201x], Information technology - Multi-Media Commands - 5 (MMC-5) (stabilized maintenance of INCITS 430-2007 [R2012])

Defines the rules for exchanging information between SCSI devices using an RDMA communication service. 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)**

### ***Stabilized Maintenance***

INCITS 432-2007 [S201x], Information technology - Fabric Application Interface Standard (FAIS) (stabilized maintenance of INCITS 432-2007 [R2012])

Describes extensions to the Fibre Channel signaling and physical layer requirements defined in INCITS 404-2005, Information Technology - Fibre Channel - Physical Interfaces-2, to transport Fibre Channel over the commonly available 4-pair balanced copper cabling specified in ISO/IEC 11801:2002 and TIA/EIA 568-B.2-2001. This standard is one of the Fibre Channel family of standards.

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

### ***Stabilized Maintenance***

INCITS 433-2007 [S201x], Information technology - Fibre Channel - Link Services (FC-LS) (stabilized maintenance of INCITS 433-2007 [R2012])  
FC-LS describes in detail the Fibre Channel Extended Link Services.

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

### ***Stabilized Maintenance***

INCITS 435-2007 [S201x], Information technology - Fibre Channel BaseT (FC-BaseT) (stabilized maintenance of INCITS 435-2007 [R2012])

Describes extensions to the Fibre Channel signaling and physical layer requirements defined in INCITS 404-2005, Information Technology - Fibre Channel - Physical Interfaces-2, to transport Fibre Channel over the commonly available 4-pair balanced copper cabling specified in ISO/IEC 11801:2002 and TIA/EIA 568-B.2-2001.

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

### ***Stabilized Maintenance***

INCITS 364:2003/AM1:2007 [S201x], Information technology - Fibre Channel - 10 Gigabit (10GFC/AM1) - Amendment 1 (stabilized maintenance of INCITS 364:2003/AM1:2007 [R2012])

Corrects the definition of the clock synchronization primitives to comply with INCITS 424-2007, Information Technology - Fibre Channel - Framing and Signaling - 2.

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

### **Stabilized Maintenance**

INCITS 374:2003/AM1:2007 [S201x], Information technology - Fibre Channel Single - Byte Command Set-3 (FC-SB-3) - Amendment 1 (stabilized maintenance of INCITS 374:2003/AM1:2007 [R2012])

Describes persistent IU pacing, a method for allowing an FC-SB-3 channel to retain a pacing count that can be used at the start of execution of a channel program. This may improve performance of long I/O programs at higher link speeds and long distances by allowing the Channel to send more IUs to the control unit and eliminating the delay of waiting for the first Command Response.

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

### **Stabilized Maintenance**

INCITS 424:2007/AM1:2007 [S201x], Information technology - Fibre Channel Framing and Signaling - 2 (FC-FS-2) - Amendment 1 (stabilized maintenance of INCITS 424:2007/AM1:2007 [R2012])

Amendment 1 to INCITS 424-2007.

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

### **Stabilized Maintenance**

INCITS/ISO/IEC 14165-414:2007 [S201x], Information technology - Fibre Channel Generic Services-4 (FC-GS-4) (stabilized maintenance of INCITS/ISO/IEC 14165-414:2007 [R2012])

Describes in detail the basic Fibre Channel services introduced in FC-FS. The Fibre Channel services described in this document are: Directory Service, Management Service and Alias Service. In addition to the aforementioned Fibre Channel services, the Common Transport (CT) protocol is described. The Common Transport service provides a common FC-4 for use by the Fibre Channel services.

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

### **Stabilized Maintenance**

INCITS/ISO/IEC 17345:2006 [S201x], Information technology - Data Interchange on 130 mm Rewritable and Write Once Read Many Ultra Density Optical (UDO) Disk Cartridges - Capacity: 30 Gbytes per Cartridge - First Generation (stabilized maintenance of INCITS/ISO/IEC 17345:2006 [R2012])

Specifies the mechanical, physical, and optical characteristics of a 130-mm optical disk cartridge (ODC) that employs thermo-optical Phase Change effects to enable data interchange between such disks. It specifies two types: Type RW (Rewritable) and Type WORM (Write Once Read Many).

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

### **Stabilized Maintenance**

INCITS/ISO/IEC 25062:2006 [S201x], Software engineering - Software product Quality Requirements and Evaluation (SQuaRE) - Common Industry Format (CIF) for usability test reports (stabilized maintenance of INCITS/ISO/IEC 25062:2006 [R2012])

This Standard is intended to be used to report the measures obtained from a test of usability as defined in ISO 9241-11: effectiveness, efficiency and satisfaction in a specified context of use. (NOTE: Metrics for other more-detailed usability requirements can be found in ISO/IEC 9126 parts 2 and 3.) This Standard is intended to be used by: usability professionals within supplier organizations to generate reports that can be used by customer organizations; customer organizations to verify that a particular report conforms to this International Standard; human factors or other usability professionals in customer organizations who are evaluating both the technical merit of usability tests and the usability of the products; and other technical professionals and managers in the customer organization who are using the test results to make business decisions about product suitability and purchase.

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

### ***Withdrawal***

INCITS 361-2002 [R2012], Information Technology - AT Attachment with Packet Interface - 6 (ATA/ATAPI-6) (withdrawal of INCITS 361-2002 [R2012])

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. 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 INCITS 340-2000 (ATA/ATAPI-5) 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)

### ***Withdrawal***

INCITS 500-2012, Information Technology - Database Language SQL - Row Pattern Recognition (SQL-RPR) (withdrawal of INCITS 500-2012)

Specifies the syntax and semantics of database language facilities that support row pattern matching using regular expressions. The database language facilities that support row pattern recognition include: A subset of regular expression syntax; Row pattern variables that span subsequences of rows, defined using conditions on individual rows and on aggregates of rows; and a major new syntax element, the MATCH\_RECOGNIZE clause, that can be applied to table expressions and can be used in definitions of windows.

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

### ***Withdrawal***

INCITS 397:2005/AM 1-2007 [R2012], Information technology - AT Attachment with Packet Interface - 7 (ATA/ATAPI-7) - Amendment 1 (withdrawal of INCITS 397:2005/AM1:2007 [R2012])

Amendment 1 to INCITS 397-2005.

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

### ***Withdrawal***

INCITS 370:2004/AM1:2007 [R2012], Information technology - ATA/ATAPI Host Adapters Standard (ATA - Adapter) - Amendment 1 (withdrawal of INCITS 370:2004/AM1:2007 [R2012])

Amendment 1 to INCITS 370-2004

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

### ***Withdrawal***

INCITS 361:2002, Erratum 1-2004 [R2009], Information Technology - AT Attachment with Packet Interface - 6 (ATA/ATAPI-6) - Erratum 1 (withdrawal of INCITS 361:2002, Erratum 1-2004 [R2009])

Corrections to INCITS 361-2002.

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

### ***Withdrawal***

INCITS/ISO/IEC 24739-1:2009 [2012], Information technology - AT Attachment with Packet Interface - 7 - Part 1: Register Delivered Command Set, Logical Register Set (ATA/ATAPI-7 V1) (withdrawal of INCITS/ISO/IEC 24739-1:2009 [2012])

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. It defines the register-delivered commands used by devices implementing the standard.

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

### **Withdrawal**

INCITS/ISO/IEC 24739-2:2009 [2012], Information technology - AT Attachment with Packet Interface - 7 - Part 2: Parallel transport protocols and physical interconnect (ATA/ATAPI-7) (withdrawal of INCITS/ISO/IEC 24739-2:2009 [2012])

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.

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

### **Withdrawal**

INCITS/ISO/IEC 24739-3:2010 [2012], Information technology - AT Attachment with Packet Interface - 7 - Part 3: Serial transport protocols and physical interconnect (ATA/ATAPI-7 V3) (withdrawal of INCITS/ISO/IEC 24739-3:2010 [2012])

Specifies the connectors and cables for physical interconnection between host and storage device, the electrical and logical characteristics of the interconnecting signals, and the protocols for the transporting of commands, data, and status over the interface for the serial interface.

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

### **Withdrawal**

INCITS/ISO/IEC 27005:2011 [2012], Information technology - Security techniques - Information security risk management (withdrawal of INCITS/ISO/IEC 27005:2011 [2012])

Provides guidelines for information security risk management. It supports the general concepts specified in ISO/IEC 27001 and is designed to assist the satisfactory implementation of information security based on a risk management approach. Knowledge of the concepts, models, processes, and terminologies described in ISO/IEC 27001 and ISO/IEC 27002 is important for a complete understanding of this part. Is applicable to all types of organizations (e.g., commercial enterprises, government agencies, non-profit organizations) which intend to manage risks that could compromise the organization's information security.

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## UL (Underwriters Laboratories, Inc.)

### **New National Adoption**

BSR/UL 61730-2-201x, Standard for Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements for Testing (national adoption with modifications of IEC 61730-2)

(1) Proposed new Standard for Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements for Testing, UL 61730-2. This part of 61730 describes the testing requirements for photovoltaic (PV) modules in order to provide safe electrical and mechanical operation during their expected lifetime. The object of this document is to provide the testing sequence intended to verify the safety of PV modules whose construction has been assessed by 61730-1.

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## UL (Underwriters Laboratories, Inc.)

### **New Standard**

BSR/UL 61730-1-201x, Standard for Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements for Construction (new standard)

(1) Proposed new Standard for Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements for Construction, UL 61730-1. This part of 61730 describes the fundamental construction requirements for photovoltaic (PV) modules in order to provide safe electrical and mechanical operation during their expected lifetime. The object of this document is to provide basic guidance in evaluating the fundamental construction of photovoltaic modules presented for safety testing under 61730-2.

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## Projects Withdrawn from Consideration

An accredited standards developer may abandon the processing of a proposed new or revised American National Standard or portion thereof if it has followed its accredited procedures. The following projects have been withdrawn accordingly:

### **ASTM (ASTM International)**

BSR/ASTM WK56625-201x, New practice for procedures to prevent contamination in PE pipe and fittings (new standard)

<https://www.astm.org/DATABASE.CART/WORKITEMS/WK56625.htm>

Inquiries may be directed to Corice Leonard, (610) 832-9744, [accreditation@astm.org](mailto:accreditation@astm.org)

## **30 Day Notice of Withdrawal: ANS 5 to 10 years past approval date**

In accordance with clause 4.7.1 Periodic Maintenance of American National Standards of the ANSI Essential Requirements, the following American National Standards have not been reaffirmed or revised within the five-year period following approval as an ANS. Thus, they shall be withdrawn at the close of this 30-day public review notice in Standards Action.

### **ANS (American Nuclear Society)**

ANSI/ANS 55.4-1993 (R2007), Gaseous Radioactive Waste Processing Systems for Light Water Reactor Plants

### **ANS (American Nuclear Society)**

ANSI/ANS 55.6-1993 (R2007), Liquid Radioactive Waste Processing System for Light Water Reactor Plants

# 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.

## AMCA (Air Movement and Control Association)

**Office:** 30 West University Drive  
Arlington Heights, IL 60004-1893

**Contact:** Erin Moore

**Phone:** (847) 704-6285

**E-mail:** emoore@amca.org

BSR/AMCA Standard 610-201x, Laboratory Methods of Testing Airflow Measurement Stations for Performance Rating (revision of ANSI/AMCA 610-2006 [R2012])

## ASSE (Safety) (American Society of Safety Engineers)

**Office:** 520 N. Northwest Hwy  
Park Ridge, IL 60068

**Contact:** Lauren Bauerschmidt

**Phone:** (847) 768-3475

**E-mail:** lbauerschmidt@asse.org

BSR/ASSE TR Z490.3-201X, Technical Report for Quality Training on Requirements for Entering Confined Spaces (new standard)

BSR/ASSE Z16-201x, Leading and Lagging Indicators (new standard)

## AWS (American Welding Society)

**Office:** 8669 NW 36th Street, #130  
Miami, Florida 33166-6672

**Contact:** Annik Babinski

**Phone:** (800) 443-9353

**Fax:** (305) 443-5951

**E-mail:** ababinski@aws.org

BSR/AWS D17.1/D17.1M-201x, Specification for Fusion Welding for Aerospace Applications (revision of ANSI/AWS D17.1/D17.1M-2010)

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

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

**Contact:** INCITS Secretariat

**Phone:** (202) 626-5737

**E-mail:** comments@itic.org

INCITS 4-1986 [R201x], Information Systems - Coded Character Sets - 7-Bit Standard Code for Information Interchange (7-Bit ASCII) (reaffirmation of INCITS 4-1986 [R2012])

INCITS 149-1986 [R201x], Financial Transaction Card Formsets - Location of Imprinted Information (reaffirmation of INCITS 149-1986 [R2012])

INCITS 256-2007 [S201x], Radio Frequency Identification (RFID) (stabilized maintenance of INCITS 256-2007 [R2012])

INCITS 358-2002 [R201x], Information technology - BioAPI Specification (Version 1.1) (reaffirmation of INCITS 358-2002 [R2012])

INCITS 358-2002/AM 1-2007 [R201x], Information technology - BioAPI Specification (Version 1.1) - Amendment 1: Support for Biometric Fusion (reaffirmation of INCITS 358-2002/AM 1-2007 [R2012])

INCITS 359-2012 [R201x], Information technology - Role Based Access Control (reaffirmation of INCITS 359-2012)

INCITS 360-2002 [S201x], Information Technology -SCSI Multimedia Commands - 3 (MMC-3) (stabilized maintenance of INCITS 360-2002 [R2012])

INCITS 361-2002 [R2012], Information Technology - AT Attachment with Packet Interface - 6 (ATA/ATAPI-6) (withdrawal of INCITS 361-2002 [R2012])

INCITS 365-2002 [R201x], Information Technology - SCSI RDMA Protocol (SRP) (reaffirmation of INCITS 365-2002 [R2012])

INCITS 411-2007 [S201x], Information technology - iSCSI Management API, Version 1.1.6 (stabilized maintenance of INCITS 411-2007 [R2012])

INCITS 413-2007 [S201x], Information technology - RapidIO(TM) Interconnect Specification (version 1.3) (stabilized maintenance of INCITS 413-2007 [R2012])

INCITS 415-2006 [R201x], Information technology - Homeland Security Mapping Standard - Point Symbolology for Emergency Management (reaffirmation of INCITS 415-2006 [R2012])

INCITS 424-2007 [S201x], Information technology - Fibre Channel Framing and Signaling - 2 (FC-FS-2) (stabilized maintenance of INCITS 424-2007 [R2012])

INCITS 426-2007 [S201x], Information technology - Fibre Channel Security Protocols (FC-SP) (stabilized maintenance of INCITS 426-2007 [R2012])

INCITS 427-2007 [S201x], Information technology - Fibre Channel Generic Services-5 (FC-GS-5) (stabilized maintenance of INCITS 427-2007 [R2012])

INCITS 428-2007 [S201x], Information technology - Storage Management - Host Bus Adapter Application Programming Interface (SM-HBA) (stabilized maintenance of INCITS 428-2007 [R2012])



INCITS 430-2007 [S201x], Information technology - Multi-Media Commands - 5 (MMC-5) (stabilized maintenance of INCITS 430-2007 [R2012])

INCITS 431-2007 [R201x], Information technology - SCSI/ATA Translation (SAT) (reaffirmation of INCITS 431-2007 [R2012])

INCITS 432-2007 [S201x], Information technology - Fabric Application Interface Standard (FAIS) (stabilized maintenance of INCITS 432-2007 [R2012])

INCITS 433-2007 [S201x], Information technology - Fibre Channel - Link Services (FC-LS) (stabilized maintenance of INCITS 433-2007 [R2012])

INCITS 434-2007 [R201x], Information technology - Tenprint Capture Using BioAPI (reaffirmation of INCITS 434-2007 [R2012])

INCITS 435-2007 [S201x], Information technology - Fibre Channel BaseT (FC-BaseT) (stabilized maintenance of INCITS 435-2007 [R2012])

INCITS 462-2010/AM1-2012 [R201x], Information technology - Fibre Channel - Backbone - 5 (FC-BB-5) - Amendment 1 (reaffirmation of INCITS 462-2010/AM1-2012)

INCITS 468-2010/AM1-2012 [R201x], Information technology - Multi-media Command Set - 6 (MMC-6) - Amendment 1 (reaffirmation of INCITS 468-2010/AM1-2012)

INCITS 482-2012 [R201x], Information technology - ATA/ATAPI Command Set - 2 (ACS-2) (reaffirmation of INCITS 482-2012)

INCITS 483-2012 [R201x], Information Technology - Virtualization Management Specification (reaffirmation of INCITS 483-2012)

INCITS 484-2012 [R201x], Information Technology - SCSI Media Changer Commands - 3 (reaffirmation of INCITS 484-2012)

INCITS 493-2012 [R201x], Information Technology - AT Attachment-8 - Serial Transport (ATA8-AST) (reaffirmation of INCITS 493-2012)

INCITS 494-2012 [R201x], Information technology - Role Based Access Control - Policy Enhanced (reaffirmation of INCITS 494-2012)

INCITS 495-2012 [R201x], Information Technology - Platform Management Volumes 1 and 2 (reaffirmation of INCITS 495-2012)

INCITS 496-2012 [R201x], Information Technology - Fibre Channel - Security Protocols - 2 (FC-SP-2) (reaffirmation of INCITS 496-2012)

INCITS 497-2012 [R201x], Information Technology - Automation/Drive Interface Commands - 3 (ADC-3) (reaffirmation of INCITS 497-2012)

INCITS 498-2012 [R201x], Information technology - CIM Representations of Management Specification (reaffirmation of INCITS 498-2012)

INCITS 500-2012, Information Technology - Database Language SQL - Row Pattern Recognition (SQL-RPR) (withdrawal of INCITS 500-2012)

INCITS 397:2005/AM 1-2007 [R2012], Information technology - AT Attachment with Packet Interface - 7 (ATA/ATAPI-7) - Amendment 1 (withdrawal of INCITS 397:2005/AM1:2007 [R2012])

INCITS 364:2003/AM1:2007 [S201x], Information technology - Fibre Channel - 10 Gigabit (10GFC/AM1) - Amendment 1 (stabilized maintenance of INCITS 364:2003/AM1:2007 [R2012])

INCITS 374:2003/AM1:2007 [S201x], Information technology - Fibre Channel Single - Byte Command Set-3 (FC-SB-3) - Amendment 1 (stabilized maintenance of INCITS 374:2003/AM1:2007 [R2012])

INCITS 424:2007/AM1:2007 [S201x], Information technology - Fibre Channel Framing and Signaling - 2 (FC-FS-2) - Amendment 1 (stabilized maintenance of INCITS 424:2007/AM1:2007 [R2012])

INCITS 370:2004/AM1:2007 [R2012], Information technology - ATA/ATAPI Host Adapters Standard (ATA - Adapter) - Amendment 1 (withdrawal of INCITS 370:2004/AM1:2007 [R2012])

INCITS 361:2002, Erratum 1-2004 [R2009], Information Technology - AT Attachment with Packet Interface - 6 (ATA/ATAPI-6) - Erratum 1 (withdrawal of INCITS 361:2002, Erratum 1-2004 [R2009])

INCITS/ISO 19111:2007 [R201x], Geographic information - Spatial referencing by coordinates (reaffirmation of INCITS/ISO 19111:2007 [R2012])

INCITS/ISO 19134:2007 [R201x], Geographic information - Location-based services - Multimodal routing and navigation (reaffirmation of INCITS/ISO 19134:2007 [R2012])

INCITS/ISO 19137:2007 [R201x], Geographic information - Core profile of the spatial schema (reaffirmation of INCITS/ISO 19137:2007 [R2012])

INCITS/ISO 19148:2012 [R201x], Geographic information - Linear referencing (reaffirmation of INCITS/ISO 19148:2012 [2012])

INCITS/ISO 19149:2011 [R201x], Geographic information - Rights expression language for geographic information - GeoREL (reaffirmation of INCITS/ISO 19149:2011 [2012])

INCITS/ISO 19156:2011 [R201x], Geographic information - Observations and measurements (reaffirmation of INCITS/ISO 19156:2011 [2012])

INCITS/ISO 19131:2007/AM1:2011 [R201x], Geographic information - Data product specifications - Amendment 1: Requirements relating to the inclusion of an application schema and feature catalogue and the treatment of coverages in an application schema (reaffirmation of INCITS/ISO 19131:2007/AM1:2011 [2012])

INCITS/ISO/IEC 7816-3:2006 [R201x], Identification cards - Integrated circuit(s) cards with contacts - Part 3: Electronic interface and transmission protocols (reaffirmation of INCITS/ISO/IEC 7816-3:2006 [R2012])

INCITS/ISO/IEC 9796-2:2010 [R201x], Information technology - Security techniques - Digital signature schemes giving message recovery - Part 2: Integer factorization based mechanisms (reaffirmation of INCITS/ISO/IEC 9796-2:2010 [2012])

INCITS/ISO/IEC 9797-2:2011 [R201x], Information technology - Security techniques - Message Authentication Codes (MACs) - Part 2: Mechanisms using a dedicated hash-function (reaffirmation of INCITS/ISO/IEC 9797-2:2011 [2012])

INCITS/ISO/IEC 9797-3:2011 [R201x], Information technology - Security techniques - Message Authentication Codes (MACs) - Part 3: Mechanisms using a universal hash-function (reaffirmation of INCITS/ISO/IEC 9797-3:2011 [2012])

INCITS/ISO/IEC 9798-1:2010 [R201x], Information technology - Security techniques - Entity authentication - Part 1: General (reaffirmation of INCITS/ISO/IEC 9798-1:2010 [2012])

INCITS/ISO/IEC 9798-6:2010 [R201x], Information technology - Security techniques - Entity authentication - Part 6: Mechanisms using manual data transfer (reaffirmation of INCITS/ISO/IEC 9798-6:2010 [2012])

INCITS/ISO/IEC 10746-1:1998 [R201x], Information technology - Open Distributed Processing - Reference model: Overview (reaffirmation of INCITS/ISO/IEC 10746-1:1998 [R2012])

INCITS/ISO/IEC 10746-4:1998 [R201x], Information technology - Open Distributed Processing - Reference Model: Architectural semantics - Part 4: Architectural Semantics (reaffirmation of INCITS/ISO/IEC 10746-4:1998 [R2012])

INCITS/ISO/IEC 10746-4:1998/AM1:2001 [R201x], Information Technology - Open Distributed Processing - Reference Model: Architectural Semantics - Part 4 - Amendment1: Computational Formalization (reaffirmation of INCITS/ISO/IEC 10746-4:1998/AM1:2001 [R2012])

INCITS/ISO/IEC 11770-5:2011 [R201x], Information technology - Security techniques - Key management - Part 5: Group key management (reaffirmation of INCITS/ISO/IEC 11770-5:2011 [2012])

INCITS/ISO/IEC 13211-1:1995 [R201x], Information technology - Prolog Language Standard - Part 1: General Core (reaffirmation of INCITS/ISO/IEC 13211-1:1995 [R2012])

INCITS/ISO/IEC 13235-1:1998 [R201x], Information technology - Open Distributed Processing - Trading function: Specification - Part 1: Specification (reaffirmation of INCITS/ISO/IEC 13235-1:1998 [R2012])

INCITS/ISO/IEC 13235-3:1998 [R201x], Information Technology - Open Distributed Processing - Trading Function - Part 3: Provision of Trading Function using OSI Directory service (reaffirmation of INCITS/ISO/IEC 13235-3:1998 [R2012])

INCITS/ISO/IEC 13249-6:2006 [R201x], Information technology - Database languages - SQL multimedia and application packages - Part 6: Data mining (reaffirmation of INCITS/ISO/IEC 13249-6:2006 [R2012])

INCITS/ISO/IEC 13818-3:1998 [R201x], Information Technology - Generic Coding of Moving Pictures and Associated Audio Information - Part 3: Audio (reaffirmation of INCITS/ISO/IEC 13818-3:1998 [R2012])

INCITS/ISO/IEC 13818-6:1998 [R201x], Information technology - Generic coding of moving pictures and associated audio information - Part 6: Extensions for DSM-CC (reaffirmation of INCITS/ISO/IEC 13818-6:1998 [R2012])

INCITS/ISO/IEC 13818-9:1996 [R201x], Information technology - Generic coding of moving pictures and associated audio information - Part 9: Extension for real time interface for systems decoders (reaffirmation of INCITS/ISO/IEC 13818-9:1996 [R2012])

INCITS/ISO/IEC 13818-6:1998/AM3:2001 [R201x], Information technology - Generic coding of moving pictures and associated audio information - Part 6: Extensions for DSM-CC - Amendment 3: Transport buffer model in support of synchronized user-to-network download protocol (reaffirmation of INCITS/ISO/IEC 13818-6:1998/AM3:2001 [R2012])

INCITS/ISO/IEC 13888-2:2010 [R201x], Information technology - Security techniques - Non-repudiation - Part 2: Mechanisms using symmetric techniques (reaffirmation of INCITS/ISO/IEC 13888-2:2010 [2012])

INCITS/ISO/IEC 14165-414:2007 [S201x], Information technology - Fibre Channel Generic Services-4 (FC-GS-4) (stabilized maintenance of INCITS/ISO/IEC 14165-414:2007 [R2012])

INCITS/ISO/IEC 14496-1:2010 [R201x], Information technology - Coding of audio-visual objects - Part 1: Systems (reaffirmation of INCITS/ISO/IEC 14496-1:2010 [2012])

INCITS/ISO/IEC 14496-2:2004 [R201x], Information technology - Coding of audio-visual objects - Part 2: Visual (reaffirmation of INCITS/ISO/IEC 14496-2:2004 [R2012])

INCITS/ISO/IEC 14496-3:2009 [R201x], Information technology - Coding of audio-visual objects - Part 3: Audio (reaffirmation of INCITS/ISO/IEC 14496-3:2009 [2012])

INCITS/ISO/IEC 14776-372:2011 [R201x], Information technology - Small Computer System Interface (SCSI) - Part 372: SCSI Enclosure Services - 2 (SES-2) (reaffirmation of INCITS/ISO/IEC 14776-372:2011 [2012])

INCITS/ISO/IEC 15408-1:2009 [R201x], Information technology - Security techniques - Evaluation criteria for IT security - Part 1: Introduction and general model (reaffirmation of INCITS/ISO/IEC 15408-1:2009 [2012])

INCITS/ISO/IEC 15938-1:2002 [R201x], Information technology - Multimedia content description interface - Part 1: Systems (reaffirmation of INCITS/ISO/IEC 15938-1:2002 [R2012])

INCITS/ISO/IEC 15938-2:2002 [R201x], Information Technology - Multimedia Content Description Interface - Part 2: Description Definition Language (reaffirmation of INCITS/ISO/IEC 15938-2:2002 [R2012])

INCITS/ISO/IEC 15938-3:2002 [R201x], Information technology - Multimedia content description interface - Part 3: Visual (reaffirmation of INCITS/ISO/IEC 15938-3:2002 [R2012])

INCITS/ISO/IEC 15938-4:2002 [R201x], Information technology - Multimedia content description interface - Part 4: Audio (reaffirmation of INCITS/ISO/IEC 15938-4:2002 [R2012])

INCITS/ISO/IEC 15944-8:2012 [R201x], Information technology - Business operational view - Part 8: Identification of privacy protection requirements as external constraints on business transactions (reaffirmation of INCITS/ISO/IEC 15944-8:2012 [2012])

INCITS/ISO/IEC 15946-5:2009 [R201x], Information technology - Security techniques - Cryptographic techniques based on elliptic curves - Part 5: Elliptic curve generation (reaffirmation of INCITS/ISO/IEC 15946-5:2009 [2012])

INCITS/ISO/IEC 18023-1:2006/AM1:2012 [R201x], Information technology - SEDRIS - Part 1: Functional specification - Amendment 1 (reaffirmation of INCITS/ISO/IEC 18023-1:2006/AM1:2012)

INCITS/ISO/IEC 18023-3:2006/AM 1:2012 [R201x], Information technology - Synthetic Environment Data Representation and Interchange Specification (SEDRIS): Part 3: Transmittal format binary encoding - Amendment 1 (reaffirmation of INCITS/ISO/IEC 18023-3:2006/AM1:2012 [2012])

INCITS/ISO/IEC 18024-4:2006/AM1:2012 [R201x], Information technology - Synthetic Environment Data Representation and Interchange Specification (SEDRIS) Language Bindings - Part 4: C - Amendment 1 (reaffirmation of INCITS/ISO/IEC 18024-4:2006/Amd 1:2012)

INCITS/ISO/IEC 18033-3:2010 [R201x], Information technology - Security techniques - Encryption algorithms - Part 3: Block ciphers (reaffirmation of INCITS/ISO/IEC 18033-3:2010 [2012])

INCITS/ISO/IEC 18033-4:2011 [R201x], Information technology - Security techniques - Encryption algorithms - Part 4: Stream ciphers (reaffirmation of INCITS/ISO/IEC 18033-4:2011 [2012])

INCITS/ISO/IEC 18042-4:2006/AM1:2011 [R201x], 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 18042-4:2006/Amd 1:2012)

INCITS/ISO/IEC 19784-1:2006 [R201x], Information technology - Biometric application programming interface - Part 1: BioAPI specification (reaffirmation of INCITS/ISO/IEC 19784-1:2006 [R2012])

INCITS/ISO/IEC 19794-1:2006 [R201x], Information technology - Biometric data interchange formats - Part 1: Framework (reaffirmation of INCITS/ISO/IEC 19794-1:2006 [R2012])

INCITS/ISO/IEC 19794-2:2005 [R201x], Information technology - Biometric data interchange formats - Part 2: Finger minutiae data (reaffirmation of INCITS/ISO/IEC 19794-2:2005 [R2012])

INCITS/ISO/IEC 19794-3:2006 [R201x], Information technology - Biometric data interchange formats - Part 3: Finger pattern spectral data (reaffirmation of INCITS/ISO/IEC 19794-3:2006 [R2012])

INCITS/ISO/IEC 19794-4:2005 [R201x], Information technology - Biometric data interchange formats - Part 4: Finger image data (reaffirmation of INCITS/ISO/IEC 19794-4:2005 [R2012])

INCITS/ISO/IEC 19794-5:2005 [R201x], Information technology - Biometric data interchange formats - Part 5: Face image data (reaffirmation of INCITS/ISO/IEC 19794-5:2005 [R2012])

INCITS/ISO/IEC 19794-6:2005 [R201x], Information technology - Biometric data interchange formats - Part 6: Iris image data (reaffirmation of INCITS/ISO/IEC 19794-6:2005 [R2012])

INCITS/ISO/IEC 19794-7:2007 [R201x], Information technology - Biometric data interchange formats - Part 7: Signature/sign time series data (reaffirmation of INCITS/ISO/IEC 19794-7:2007 [R2012])

INCITS/ISO/IEC 19794-9:2007 [R201x], Information technology - Biometric data interchange formats - Part 9: Vascular image data (reaffirmation of INCITS/ISO/IEC 19794-9:2007 [R2012])

INCITS/ISO/IEC 19794-10:2007 [R201x], Information technology - Biometric data interchange formats - Part 10: Hand geometry silhouette data (reaffirmation of INCITS/ISO/IEC 19794-10:2007 [R2012])

INCITS/ISO/IEC 19795-1:2006 [R201x], Information technology - Biometric performance testing and reporting - Part 1: Principles and framework (reaffirmation of INCITS/ISO/IEC 19795-1:2006 [R2012])

INCITS/ISO/IEC 24739-1:2009 [2012], Information technology - AT Attachment with Packet Interface - 7 - Part 1: Register Delivered Command Set, Logical Register Set (ATA/ATAPI-7 V1) (withdrawal of INCITS/ISO/IEC 24739-1:2009 [2012])

INCITS/ISO/IEC 24739-2:2009 [2012], Information technology - AT Attachment with Packet Interface - 7 - Part 2: Parallel transport protocols and physical interconnect (ATA/ATAPI-7) (withdrawal of INCITS/ISO/IEC 24739-2:2009 [2012])

INCITS/ISO/IEC 24739-3:2010 [2012], Information technology - AT Attachment with Packet Interface - 7 - Part 3: Serial transport protocols and physical interconnect (ATA/ATAPI-7 V3) (withdrawal of INCITS/ISO/IEC 24739-3:2010 [2012])

INCITS/ISO/IEC 27033-3:2010 [R201x], Information technology - Security techniques - Network security - Part 3: Reference networking scenarios - Threats, design techniques and control issues (reaffirmation of INCITS/ISO/IEC 27033-3:2010 [2012])

INCITS/ISO/IEC 29192-2:2012 [R201x], Information technology - Security techniques - Lightweight cryptography - Part 2: Block ciphers (reaffirmation of INCITS/ISO/IEC 29192-2:2012 [2012])

INCITS/ISO/IEC 6937:2001 [R201x], Information technology - Coded graphic character set for text communication - Latin alphabet (reaffirmation of INCITS/ISO/IEC 6937:2001 [R2012])

INCITS/ISO/IEC 9542:2002 (R201x), Information processing systems - Telecommunications and information exchange between systems - End system to Intermediate system routing exchange protocol for use in conjunction with the Protocol for providing the connectionless-mode network service (ISO 8473) (reaffirmation of INCITS/ISO/IEC 9542:2002 [R2012])

INCITS/ISO/IEC 9899:2011 [R201x], Information technology - Programming languages - C (reaffirmation of INCITS/ISO/IEC 9899:2011 [2012])

INCITS/ISO/IEC 10030:1995 [R201x], Information technology - Telecommunications and information exchange between systems - End System Routing Information Exchange Protocol for use in conjunction with ISO/IEC 8878 (reaffirmation of INCITS/ISO/IEC 10030:1995 [R2012])

INCITS/ISO/IEC 10589:2002 [R201x], Intermediate System to Intermediate System Intra-Domain-Routing Routine Information Exchange Protocol for Use in Conjunction with the Protocol for Providing the Connectionless-Mode Network Service (ISO 8473) (reaffirmation of INCITS/ISO/IEC 10589:2002 [R2012])

INCITS/ISO/IEC 13568:2002 [R201x], Information technology - Z formal specification notation - Syntax, type system and semantics (reaffirmation of INCITS/ISO/IEC 13568:2002 [R2012])

INCITS/ISO/IEC 14492:2001 [R201x], Information technology - Lossy/lossless coding of bi-level images (reaffirmation of INCITS/ISO/IEC 14492:2001 [R2012])

INCITS/ISO/IEC 16262:2011 [R201x], Information technology - Programming languages, their environments and system software interfaces - ECMAScript language specification (reaffirmation of INCITS/ISO/IEC 16262:2011 [2012])

INCITS/ISO/IEC 16680:2012 [R201x], Information technology - The Open Group Service Integration Maturity Model (OSIMM) (reaffirmation of INCITS/ISO/IEC 16680:2012 [2012])

INCITS/ISO/IEC 17203:2011 [R201x], Information technology - Open Virtualization Format (OVF) specification (reaffirmation of INCITS/ISO/IEC 17203:2011 [2012])

INCITS/ISO/IEC 17345:2006 [S201x], Information technology - Data Interchange on 130 mm Rewritable and Write Once Read Many Ultra Density Optical (UDO) Disk Cartridges - Capacity: 30 Gbytes per Cartridge - First Generation (stabilized maintenance of INCITS/ISO/IEC 17345:2006 [R2012])

INCITS/ISO/IEC 18031:2011 [R201x], Information technology - Security techniques - Random bit generation (reaffirmation of INCITS/ISO/IEC 18031:2011 [2012])

INCITS/ISO/IEC 19118:2011 [R201x], Geographic information - Encoding (reaffirmation of INCITS/ISO/IEC 19118:2011 [2012])

INCITS/ISO/IEC 19773:2011 [R201x], Information technology - Metadata Registries (MDR) modules (reaffirmation of INCITS/ISO/IEC 19773:2011 [2012])

INCITS/ISO/IEC 19792:2009 [R201x], Information technology - Security techniques - Security evaluation of biometrics (reaffirmation of INCITS/ISO/IEC 19792:2009 [2012])

INCITS/ISO/IEC 24745:2011 [R201x], Information technology - Security techniques - Biometric information protection (reaffirmation of INCITS/ISO/IEC 24745:2011 [2012])

INCITS/ISO/IEC 25062:2006 [S201x], Software engineering - Software product Quality Requirements and Evaluation (SQuARE) - Common Industry Format (CIF) for usability test reports (stabilized maintenance of INCITS/ISO/IEC 25062:2006 [R2012])

INCITS/ISO/IEC 26300:2006 [R201x], Information technology - Open Document Format for Office Applications (OpenDocument) v1.0 (reaffirmation of INCITS/ISO/IEC 26300:2006 [R2012])

INCITS/ISO/IEC 27007:2011 [R201x], Information technology - Security techniques - Guidelines for information security management systems auditing (reaffirmation of INCITS/ISO/IEC 27007:2011 [2012])

INCITS/ISO/IEC 29100:2011 [R201x], Information technology - Security techniques - Privacy Framework (reaffirmation of INCITS/ISO/IEC 29100:2011 [2012])

INCITS/ISO/IEC 29103:2011 [R201x], Information technology - Office equipment - Colour photo test pages for measurement of ink cartridge yield for colour photo printing (reaffirmation of INCITS/ISO/IEC 29103:2011 [2012])

INCITS/ISO/IEC 29128:2011 [R201x], Information technology - Security techniques - Verification of cryptographic protocols (reaffirmation of INCITS/ISO/IEC 29128:2011 [2012])

INCITS/ISO/IEC 29136:2012 [R201x], Information technology - User interfaces - Accessibility of personal computer hardware (reaffirmation of INCITS/ISO/IEC 29136:2012 [2012])

INCITS/ISO/IEC 29150:2011 [R201x], Information technology - Security techniques - Signcryption (reaffirmation of INCITS/ISO/IEC 29150:2011 [2012])

INCITS/ISO/IEC 27005:2011 [2012], Information technology - Security techniques - Information security risk management (withdrawal of INCITS/ISO/IEC 27005:2011 [2012])

### **MSS (Manufacturers Standardization Society)**

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**E-mail:** boneill@mss-hq.org

BSR/MSS SP-25-201x, Standard Marking System for Valves, Fittings, Flanges, and Unions (revision of ANSI/MSS SP-25-2013)

### **NECA (National Electrical Contractors Association)**

**Office:** 3 Bethesda Metro Center  
Suite 1100  
Bethesda, MD 20814

**Contact:** Agnieszka Golriz

**Phone:** (301) 215-4549

**E-mail:** Aga.golriz@necanet.org

BSR/NECA 781-201X, Recommended Practice for Installing and Maintaining Lightning Protection Systems (new standard)

### **NEMA (ASC C29) (National Electrical Manufacturers Association)**

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Rosslyn, VA 22209

**Contact:** Gerard Winstanley

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**E-mail:** Gerard.Winstanley@Nema.org

BSR C29.1-201x, Test Methods for Electrical Power Insulators (revision of ANSI C29.1-1988 (R2012))

BSR C29.8-201x, Wet Process Porcelain Insulators - Apparatus, Cap and Pin Type (revision of ANSI C29.8-1985 (R2012))

BSR C29.9-201x, Wet Process Porcelain Insulators - Apparatus, Post Type (revision of ANSI C29.9-1983 (R2012))

BSR C29.10-201x, Wet Process Porcelain Insulators - Indoor Apparatus Type (revision of ANSI C29.10-1989 (R2012))

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

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BSR NEMA WC76-201x, Standard for Controlled Impedance Shielded  
Twisted Pairs in Internal Electrical Cable (new standard)

**WCMA (Window Covering Manufacturers Association)**

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Niantic, CT 06357

**Contact:** Michael Tierney

**Phone:** (860) 944-4264

**E-mail:** mtierney@kellenccompany.com

BSR/WCMA A100.1-201x, Standard for Safety of Window Covering  
Products (revision of ANSI/WCMA A100.1-2014)

**NSF (NSF International)**

**Office:** 789 N. Dixboro Road  
Ann Arbor, MI 48105-9723

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BSR/NSF 14-201x (i85r1), Plastics Piping System Components and  
Related Materials (revision of ANSI/NSF 14-2016a)

BSR/NSF 173-201x (i69r1), Dietary Supplements (revision of ANSI/NSF  
173-2016)

**RESNA (Rehabilitation Engineering and Assistive Technology  
Society of North America)**

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BSR/RESNA SS-1-201x, RESNA Standard for Support Surfaces -  
Volume 1: Requirements and Test Methods for Full Body Support  
Surfaces (revision of ANSI/RESNA SS-1-2014)

**SDI (ASC A250) (Steel Door Institute)**

**Office:** 30200 Detroit Road  
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**Contact:** Linda Hamill

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BSR A250.11-201x, Recommended Erection Instructions for Steel  
Frames (revision of ANSI A250.11-2012)

## **Call for Members (ANS Consensus Bodies)**

### **Call for Committee Members**

#### **ASC O1 – Safety Requirements for Woodworking Machinery**

Are you interested in contributing to the development and maintenance of valuable industry safety standards? The ASC O1 is currently looking for members in the following categories:

- General Interest
- Government
- Producer
- User

If you are interested in joining the ASC O1, contact WMMA Associate Director Jennifer Miller at [jennifer@wmma.org](mailto:jennifer@wmma.org).

# 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)

### Reaffirmation

ANSI/AAMI/ISO 27185-2012 (R2017), Cardiac rhythm management devices - Symbols to be used with cardiac rhythm management device labels, and information to be supplied - General requirements (reaffirmation of ANSI/AAMI/ISO 27185-2012): 6/1/2017

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

### Withdrawal

ANSI/ASAE EP455-JUL91, Environmental Considerations in Development of Mobile Agricultural Electrical/Electronic Components (withdrawal of ANSI/ASAE EP455-JUL91 (R2012)): 6/1/2017

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

### Reaffirmation

ANSI/ASHRAE Standard 78-1985 (R2017), Method of Testing Flow Capacity of Suction Line Filters and Filter-Driers (reaffirmation of ANSI/ASHRAE Standard 78-1985 (R2007)): 6/1/2017

ANSI/ASHRAE Standard 97-2007 (R2017), Sealed Glass Tube Method to Test the Chemical Stability of Materials for Use within Refrigerant Systems (reaffirmation of ANSI/ASHRAE Standard 97-2007): 6/1/2017

ANSI/ASHRAE Standard 206-2013 (R2017), Method of Testing for Rating of Multi-Purpose Heat Pumps for Residential Space Conditioning and Water Heating (reaffirmation of ANSI/ASHRAE Standard 206-2013): 6/1/2017

### Revision

ANSI/ASHRAE Standard 63.2-2017, Method of Testing Liquid-Line Filter Drier Filtration Capability (revision of ANSI/ASHRAE Standard 63.2-1996 (R2010)): 6/1/2017

ANSI/ASHRAE Standard 171-2017, Method of Testing for Rating Seismic and Wind Restraints (revision of ANSI/ASHRAE Standard 171-2008): 6/1/2017

## ASME (American Society of Mechanical Engineers)

### Revision

ANSI/ASME A112.4.14/CSA B125.14-2017, Manually Operated Valves for Use in Plumbing Systems (revision and redesignation of ANSI/ASME A112.4.14-2004 (R2010)): 6/1/2017

ANSI/ASME B18.16.6-2017, Prevailing Torque Locknuts (Inch Series) (revision of ANSI/ASME B18.16.6-2014): 6/1/2017

## IEEE (Institute of Electrical and Electronics Engineers)

### Revision

ANSI/IEEE C57.12.90-2015, Standard Test Code for Liquid-Immersed Distribution, Power, and Regulating Transformers (revision of ANSI/IEEE C57.12.90-2010): 5/31/2017

ANSI/IEEE C57.94-2015, Recommended Practice for Installation, Application, Operation, and Maintenance of Dry-Type Distribution and Power Transformers (revision of ANSI/IEEE C57.94-2000 (R2006)): 6/1/2017

ANSI/IEEE C57.106-2015, Guide for Acceptance and Maintenance of Insulating Mineral Oil in Electrical Equipment (revision of ANSI/IEEE C57.106-2006): 5/31/2017

## SCTE (Society of Cable Telecommunications Engineers)

### Revision

ANSI/SCTE 63-2015, Test Method for Voltage Withstand of Outer Jacket (revision of ANSI/SCTE 63-2009): 6/1/2017

## UL (Underwriters Laboratories, Inc.)

### New National Adoption

ANSI/UL 60730-2-12-2017, Standard for Automatic Electrical Controls - Part 2-12: Particular Requirements for Electrically Operated Door Locks (national adoption of IEC 60730-2-12 with modifications and revision of ANSI/UL 60730-2-12-2014): 5/11/2017

### Reaffirmation

ANSI/UL 1676-2013 (R2017), Standard for Conductive-Path and Discharge-Path Resistors for Use in Radio-, Video-, or Television-Type Appliances (reaffirmation of ANSI/UL 1676-2013): 5/30/2017

ANSI/UL 60079-15-2013 (R2017), Standard for Safety for Explosive Atmospheres - Part 15: Equipment Protection by Type of Protection "n" (proposal dated 03-03-17) (reaffirmation of ANSI/UL 60079-15-2013): 5/5/2017

\* ANSI/UL 60745-2-5-2012 (R2017), Standard for Safety for Hand-Held, Motor-Operated Electric Tools - Safety - Particular Requirements for Circular Saws (reaffirmation of ANSI/UL 60745-2-5-2012): 5/24/2017

### Revision

ANSI/UL 758-2017, Standard for Safety for Appliance Wiring Material (Proposal dated 9/9/16) (revision of ANSI/UL 758-2016): 3/21/2017

ANSI/UL 758-2017a, Standard for Safety for Appliance Wiring Material (Proposals dated 2/10/17) (revision of ANSI/UL 758-2016): 3/21/2017

ANSI/UL 758-2017b, Standard for Safety for Appliance Wiring Material (Proposal dated 2/17/17) (revision of ANSI/UL 758-2016): 3/21/2017

ANSI/UL 969-2017, Standard for Safety for Marking and Labeling Systems (revision of ANSI/UL 969-2014): 5/30/2017

ANSI/UL 1069-2017, Standard for Safety for Hospital Signaling and Nurse Call Equipment (revision of ANSI/UL 1069-2016): 5/26/2017

\* ANSI/UL 1081-2017, Standard for Safety for Swimming Pool Pumps, Filters, and Chlorinators (revision of ANSI/UL 1081-2016): 5/26/2017

\* ANSI/UL 1081-2017a, Standard for Safety for Swimming Pool Pumps, Filters, and Chlorinators (revision of ANSI/UL 1081-2016): 5/26/2017

\* ANSI/UL 2108-2017, Standard for Low Voltage Lighting Systems (revision of ANSI/UL 2108-2015): 5/30/2017

\* ANSI/UL 60745-2-15-2017, Standard for Safety for Hand-Held Motor-Operated Electric Tools - Safety - Part 2-15: Particular Requirements for Hedge Trimmers (revision of ANSI/UL 60745-2-15-2010a): 4/28/2017

# 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](http://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.

## **AAFS (American Academy of Forensic Sciences)**

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BSR/ASB BPR 037-201x, Guidelines for Opinions and Testimony in Forensic Toxicology (new standard)

Stakeholders: Forensic toxicologists providing testimony in criminal and civil proceedings.

Project Need: The field of forensic toxicology often requires expert testimony and opinions to be offered in criminal and civil proceedings. This document will serve as a guide for those employed in the field, setting boundaries as to what is scientifically supportable and what is not.

This document delineates the guidelines for practices in forensic toxicology opinions and testimony.

BSR/ASB Std 036-201x, Standard Practices for Method Validation in Forensic Toxicology (new standard)

Stakeholders: Forensic toxicologists and toxicology laboratories.

Project Need: The field of forensic toxicology does not have a single resource available to explain the expectations of method validation. Instead, laboratories rely on documents from related fields or develop their own validation practices. This document will serve as the standard for laboratories validating methods in the field and will help ensure consistency from laboratory to laboratory.

This document delineates minimum standards of practice for validating analytical methods in the field of forensic toxicology.

## **AMCA (Air Movement and Control Association)**

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\* BSR/AMCA Standard 610-201x, Laboratory Methods of Testing Airflow Measurement Stations for Performance Rating (revision of ANSI/AMCA 610-2006 (R2012))

Stakeholders: Airflow Measurement Station manufacturers, building engineers, product consumers, Airflow Measurement testing labs.

Project Need: A standard needed to establish uniform test methods for the determination of the performance characteristics and accuracy of airflow measurement stations under varied airflow rates and conditions.

This standard covers field-installed airflow measurement stations for heating, ventilating, and air-conditioning applications. This standard establishes uniform test methods for the determination of the performance characteristics and accuracy of airflow measurement stations under varied airflow rates and conditions. It is not the purpose of this standard to specify testing procedures to be used for design, production or in field measurement practice.

## **ASSE (Safety) (American Society of Safety Engineers)**

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BSR/ASSE TR Z490.3-201X, Technical Report for Quality Training on Requirements for Entering Confined Spaces (new standard)

Stakeholders: Injuries from confined space can be caused by fires and explosions, falls, and most often from hazardous atmospheres.

Project Need: This is an ASSE Technical Report providing organizations with a document for the development of policies, procedures, and management processes to assist in the training of a confined-space entry team, including the entry supervisor, authorized entrant, attendant, atmospheric tester, and rescue personnel. It will be developed to assist organizations in defining and developing an effective safety training program for requirements on entering confined spaces.

Due to the serious nature of confined space work, ANSI/ASSE Z117.1-2016 outlines basic training requirements, including specifications based on the person's role. The training specified in this technical report would elaborate on the ANSI/ASSE Z117-2016 standard's training sections and provide more detail to help ensure that employees receive proper and effective confined space training.



**BSR/ASSE Z16-201x, Leading and Lagging Indicators (new standard)**

Stakeholders: Safety and health professionals addressing the issues of recording and reducing injuries and illnesses in the workplace.

Project Need: While record keeping is a requirement of OSHA, Safety and Health professionals know that more needs to be done to understand injuries and to keep workers safe.

(1) Historical lagging indicators of measuring work-related injuries and illnesses. It will address clarification of guidelines used by BLS for recordability and formulas used to traditionally track employee injury/illness statistics. (2) Methodologies to utilize leading indicators to measure management effectiveness in reducing risk in the workplace. The use of leading indicators has been promoted in all systems management approaches. This portion of the standard will identify what leading indicators should be used and how to measure their effectiveness and turn such indicators into a statistical database. (3) Expanding metrics beyond the traditional tracking of employee injuries/illnesses. In this section, metrics will be developed that apply to areas such as property loss, general liability, fleet, business interruption, and other nontraditional metrics. It will also address using financial terms to speak the language of business in addressing such losses.

**ASTM (ASTM International)**

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**Contact:** Corice Leonard

**Fax:** (610) 834-3683

**E-mail:** [accreditation@astm.org](mailto:accreditation@astm.org)

BSR/ASTM WK59159-201x, New Test Method for Determining a Potential Ignitable Substance in a Heated Atmospheric Tank (new standard)

Stakeholders: Health and safety standards for Metal Working Fluids industry.

Project Need: This test method is used to indicate the fire-producing or fire-sustaining potential of a liquid. This test method can be applied to liquid or sludge. Rationalized SI units, followed by rationalized inch-pound units in parenthesis, are the standard units of measure.

<http://www.astm.org/DATABASE.CART/WORKITEMS/WK59159.htm>

**AWS (American Welding Society)**

**Office:** 8669 NW 36th Street  
Suite #130  
Miami, FL 33166-6672

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BSR/AWS C2.19/C2.19M-201x, Specification for the Application of Thermal Spray Coatings to Machine Elements for OEM and Repair (revision of ANSI/AWS C2.19/C2.19M-2013)

Stakeholders: U.S. Navy, manufacturers, thermal spray operators, and thermal spray inspectors.

Project Need: To provide members of the thermal spray industry guidelines for applying thermal spray coatings to equipment and components.

This standard defines requirements for thermal spray coating systems for OEM and repair applications. Included are HVOF (High Velocity Oxygen Fuel) coatings that can be used as an alternative to hard chrome plating. The essential equipment, procedures for surface preparation, and the application of specific thermal spray coatings and sealers are detailed with in-process quality-control checkpoints. This standard also presents management requirements and procedures for qualification, procedure approval, and documentation. Also covered are approved applications for thermal spray processes used for OEM and repair of machinery components along with minimum training requirements.

**AWS (American Welding Society)**

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BSR/AWS C3.7M/C3.7-201x, Specification for Aluminum Brazing (revision of ANSI/AWS C3.7M/C3.7-2011)

Stakeholders: Aerospace and commercial brazing operations.

Project Need: To provide specific fabrication, equipment, material, process procedure, and inspection requirements for the brazing of aluminum.

This specification presents the minimum fabrication, equipment, material, process procedure and inspection requirements for the brazing of aluminum by all of the processes commonly used - atmosphere furnace, vacuum furnace, and flux processes. Its purpose is to standardize aluminum brazing requirements for all applications in which brazed aluminum joints of assured quality are required. It provides criteria for classifying aluminum-brazed joints based on loading and the consequences of failure and quality assurance criteria defining the limits of acceptability of each class.

BSR/AWS C3.9M/C3.9-201x, Specification for Resistance Brazing  
(revision of ANSI/AWS C3.9M/C3.9-2008)

Stakeholders: Electrical component and other manufacturers conducting resistance brazing.

Project Need: Provide specific fabrication, equipment, material, and process procedure requirements, as well as discontinuity limits for the resistance brazing.

This specification provides the minimum fabrication, equipment, material, and process procedure requirements, as well as discontinuity limits for the resistance brazing of steels, copper, copper alloys, heat- and corrosion-resistant alloys, and other materials that can be adequately resistance brazed (the resistance brazing of aluminum alloys is addressed in AWS C3.7M/C3.7, Specification for Aluminum Brazing). This specification provides criteria for classifying resistance brazed joints based on loading and the consequences of failure and quality assurance criteria defining the limits of acceptability in each class.

BSR/AWS C3.11M/C3.11-201x, Specification for Torch Soldering  
(revision of ANSI/AWS C3.11M/C3.11-2011)

Stakeholders: Plumbing industry, food handling equipment manufacturers, and the heating and air conditioning industry.

Project Need: Provide requirements for torch soldering of materials.

This specification describes relevant equipment, fabrication procedures, and quality (inspection) requirements for the torch soldering of materials. This document includes criteria for classifying torch-soldered joints based on loading and the consequences of failure and quality-assurance criteria defining the limits of acceptability in each class.

#### **MedBiq (MedBiquitous Consortium)**

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Davis 3110C  
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**Contact:** Valerie Smothers

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BSR/MEDBIQ PAPI.10.1-201x, Program API (new standard)

Stakeholders: Accrediting bodies, professional associations, credentialing boards, clinicians, educational researchers, healthcare entities, credentialing organizations.

Project Need: Up-to-date information about educational programs of study or training is essential for the day-to-day conduct of business within many organizations. The data may be used within the credentials verification process or in creating tools that connect learners to appropriate educational programs. Providing electronic access to program data in real time would allow this data to be used more freely in credentials verification processes and would save the organizations that use this data time and money.

We propose developing APIs specifications for the integration of health professions education or training program data into other systems.

#### **MSS (Manufacturers Standardization Society )**

**Office:** 127 Park Street, NE  
Vienna, VA 22180-4602

**Contact:** Robert O'Neill

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**E-mail:** boneill@mss-hq.org

BSR/MSS SP-25-201x, Standard Marking System for Valves, Fittings, Flanges, and Unions (revision of ANSI/MSS SP-25-2013)

Stakeholders: Paper, food, chemical, petrochemical, nuclear power, hydroelectric power, industrial, and fossil fuel power valve and fittings systems.

Project Need: Revise the current American National Standard. This American National Standard has been widely used since 1935 in multiple valve and piping industries and normatively referenced in many current industry and ANSI-approved standards.

This standard marking system applies to valves, fittings, flanges, and unions used in piping connections that include (but are not limited to) flanged, soldered, brazed, threaded, or welded joints. The markings specified within this standard serve to identify the manufacturer, the rating designation, materials of construction, and special service limitations imposed by the manufacturer. They are used for product identification and to assist in proper application. This standard applies to marking for new valves. Marking for remanufactured and refurbished valves is outside the scope of SP-25.

#### **NEMA (ASC ESS) (National Electrical Manufacturers Association)**

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**E-mail:** Brian.Marchionini@nema.org

\* BSR/ESS 1-201x, Protocol for Uniformly Measuring and Expressing the Performance of Electrical Energy Storage Systems (new standard)

Stakeholders: Energy, electrical.

Project Need: Measuring and expressing the performance characteristics for electrical energy storage systems.

Enables a more informed manner of considering the performance of electrical energy storage systems, and provides a platform for more comparable consideration of system options.

**RESNA (Rehabilitation Engineering and Assistive Technology Society of North America)**

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Arlington, VA 22209-1903

**Contact:** Yvonne Meding

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**E-mail:** YMeding@resna.org

- \* BSR/RESNA SS-1-201x, RESNA Standard for Support Surfaces -  
Volume 1: Requirements and Test Methods for Full Body Support  
Surfaces (revision of ANSI/RESNA SS-1-2014)

Stakeholders: Clinicians, manufacturers, and vendors of full-body support surfaces; researchers; test laboratories; patients; caregivers; hospital managers; and purchasing agents.

Project Need: Since no one full-body support surface is best for all patients, a wide variety of surfaces are available. There is a need for consistent information to evaluate characteristics of support surfaces based on standardized testing that simulates body loading.

This standard applies to full-body support surfaces (i.e., mattresses, mattress overlays, and integrated bed systems). Revisions will address the following methods: measuring horizontal stiffness, measuring envelopment or conformation to the irregularities of a body to distribute pressure, characterizing how well a support surface envelopes a dual semispherical indenter, and measuring heat and water vapor dissipation properties of full-body support surfaces. This information intends to help differentiate performance characteristics of support surfaces and is not intended to determine overall performance, ranking, or scoring of such surfaces.

**SCTE (Society of Cable Telecommunications Engineers)**

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**E-mail:** kcooney@scte.org

- BSR/SCTE DVS 1272-201x, Next Generation Audio Coding  
Constraints for Cable Systems: Part 2 - AC-4 Audio Coding  
Constraints (new standard)

Stakeholders: Cable Telecommunications industry.

Project Need: Create new standard.

This document is part two of a three-part standard that specifies the coding constraints of Next Generation Audio system for cable television. In conjunction with DVS 1301 Part 1, this document defines the coding constraints on AC-4 for cable television. The carriage of the streams described in this specification is defined in DVS 1299 in conjunction with DVS 1300.

- BSR/SCTE DVS 1276-201x, Next Generation Audio Coding  
Constraints for Cable Systems: Part 3 - MPEG-H Audio Coding  
Constraints (new standard)

Stakeholders: Cable Telecommunications industry.

Project Need: Create new standard.

This document is part of a suite documenting coding constraints of Next Generation Audio (NGA) systems for cable television. In conjunction with Part 1 of this standard, it defines the coding constraints on MPEG-H Audio system for cable television. The carriage of the streams described in this specification is defined in DVS 1280 in conjunction with DVS 1300.

- BSR/SCTE DVS 1280-201x, Next Generation Audio Carriage  
Constraints for Cable Systems: Part 3 - MPEG-H Audio Carriage  
Constraints (new standard)

Stakeholders: Cable Telecommunications industry.

Project Need: Create new standard.

This standard is part of a suite documenting carriage constraints of Next Generation Audio (NGA) codecs in MPEG-2 transport systems and in MPEG DASH. This part of the standard, in conjunction with Part 1, defines carriage of MPEG-H Audio in MPEG-2 transport systems and in MPEG DASH. The descriptors necessary to signal MPEG-H Audio in MPEG-2 transport systems are defined in ISO/IEC 13818-1 and ETSI EN 300 468, and their usage is described in this document. Multiplexing and transport for cable using MPEG-2 systems are defined in SCTE 54. Coding constraints for MPEG-H Audio elementary streams are defined in DVS 1276.

- BSR/SCTE DVS 1299-201x, Next Generation Audio Carriage  
Constraints for Cable Systems: Part 2 - AC-4 Audio Carriage  
Constraints (new standard)

Stakeholders: Cable Telecommunications industry.

Project Need: Create new standard.

This document is part of a three-part standard that specifies carriage constraints of Next Generation Audio (NGA) codecs in MPEG-2 transport systems and in MPEG DASH. In conjunction with DVS 1300 Part 1, this document defines the carriage of AC-4 audio in MPEG-2 transport systems and MPEG DASH.

- BSR/SCTE DVS 1300-201x, Next Generation Audio Carriage  
Constraints for Cable Systems: Part 1 - Common Transport  
Signaling (new standard)

Stakeholders: Cable Telecommunications industry.

Project Need: Create new standard.

This standard is part of a suite documenting carriage constraints of Next Generation Audio (NGA) codecs in MPEG-2 transport systems and in MPEG DASH. It is intended to be used in conjunction with the specific audio technologies described in subsequent parts of this standard. The common descriptors necessary to signal NGA in MPEG-2 transport systems are defined in ISO/IEC 13818-1 and ETSI EN 300 468, and their usage is described in this part of the standard. Additional codec-specific descriptors are defined in subsequent parts (which defines codec-specific carriage constraints). Multiplexing and transport for cable using MPEG-2 transport systems are defined in SCTE.

- BSR/SCTE DVS 1301-201x, Next Generation Audio Coding  
Constraints for Cable Systems: Part 1 - Introduction and Common  
Constraints (new standard)

Stakeholders: Cable Telecommunications industry.

Project Need: Create new standard.

This document is part of a suite documenting coding constraints of Next Generation Audio (NGA) systems for cable television. It is intended to be used in conjunction with the specific audio technologies described in subsequent parts of this standard.

**SDI (ASC A250) (Steel Door Institute)**

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BSR A250.11-201x, Recommended Erection Instructions for Steel Frames (revision of ANSI A250.11-2012)

Stakeholders: Steel door manufacturers, users, and distributors.

Project Need: Review current standard for updates.

Recommended methods for the installation of steel frames for swinging doors in a variety of wall conditions, commonly used in commercial buildings.

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

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Northbrook, IL 60062

**Contact:** *Megan Sepper*

**Fax:** (847) 664-3411

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BSR/UL 3400-201X, Standard for Additive Manufacturing Facility Safety Management (new standard)

Stakeholders: Additive manufacturing industry, including additive manufacturing facility owners, users, and regulators.

Project Need: To obtain national recognition of a standard covering additive manufacturing facility safety management.

This standard covers additive manufacturing facility safety management. It addresses the various hazards associated with material, equipment and facility where parts are manufactured using powder-based additive manufacturing techniques. It covers the potential hazards and risk mitigation measures for the safe functioning of the facility. These foreseeable hazards include, but are not limited to, fire and explosion, toxic exposure, and other workplace hazards. It also includes recommendations for the design, installation, and maintenance of AM facilities.

# 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)
- AARST (The AARST Consortium on National Radon Standards)
- AGA (American Gas Association)
- AGSC-AGRSS (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](http://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](http://www.ansi.org/publicreview).

Alternatively, you may contact the Procedures & Standards Administration department (PSA) at [psa@ansi.org](mailto: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](mailto:standact@ansi.org).

## AAFS

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## AAMI

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Fax: (703) 276-0793  
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## ABYC

American Boat and Yacht Council  
613 Third Street, Suite 10  
Annapolis, MD 21403  
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## AMCA

Air Movement and Control Association  
30 West University Drive  
Arlington Heights, IL 60004-1893  
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## ASABE

American Society of Agricultural and Biological Engineers  
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Fax: (269) 429-3852  
Web: [www.asabe.org](http://www.asabe.org)

## ASHRAE

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.  
1791 Tullie Circle, NE  
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## ASME

American Society of Mechanical Engineers  
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## ASSE (Safety)

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## ATIS

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## AWS

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## IEEE

Institute of Electrical and Electronics Engineers (IEEE)  
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Piscataway, NJ 08854  
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## ITI (INCITS)

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## MedBiq

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## MSS

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## NECA

National Electrical Contractors Association  
3 Bethesda Metro Center  
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Phone: (301) 215-4549  
Web: [www.neca-neis.org](http://www.neca-neis.org)

## NEMA (ASC C29)

National Electrical Manufacturers Association  
1300 North 17th Street  
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## NEMA (ASC C8)

National Electrical Manufacturers Association  
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## RESNA

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## SCTE

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## SDI (ASC A250)

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## UL

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Phone: (847) 664-3411  
Fax: (847) 664-3411  
Web: [www.ul.com](http://www.ul.com)

## WCMA

Window Covering Manufacturers Association  
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Niantic, CT 06357  
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# ISO & IEC Draft International Standards

This section lists proposed standards that the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC) are considering for approval. The proposals have received substantial support within the technical committees or subcommittees that developed them and are now being circulated to ISO and IEC members for comment and vote. 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); those regarding IEC documents should be sent to Tony Zertuche, General Secretary, USNC/IEC, at ANSI's New York offices (tzertuche@ansi.org). The final date for offering comments is listed after each draft.

## Ordering Instructions

**ISO and IEC Drafts can be made available by contacting ANSI's Customer Service department. Please e-mail your request for an ISO or IEC 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.**

## ISO Standards

### AGRICULTURAL FOOD PRODUCTS (TC 34)

ISO/DIS 13301, Sensory analysis - Methodology - General guidance for measuring odour, flavour and taste detection thresholds by a three-alternative forced-choice (3-AFC) procedure - 8/19/2017, \$146.00

### CLEAN COOKSTOVES AND CLEAN COOKING SOLUTIONS (TC 285)

ISO/DIS 19867-1, Clean cookstoves and clean cooking solutions - Harmonized laboratory test protocols - Part 1: Standard test sequence for emissions and performance, safety and durability - 8/21/2017, \$165.00

### DIMENSIONAL AND GEOMETRICAL PRODUCT SPECIFICATIONS AND VERIFICATION (TC 213)

ISO/DIS 21204, Geometrical product specifications (GPS) - Specification of defined transitions between features - 8/18/2017, \$119.00

### FASTENERS (TC 2)

ISO/DIS 4042, Fasteners - Electroplated coating systems - 6/24/2017, \$125.00

### FERROUS METAL PIPES AND METALLIC FITTINGS (TC 5)

ISO 49/DAMd1, Malleable cast iron fittings threaded to ISO 7-1 - Amendment 1: Chemical composition of the zinc coating - Adjustment to actual requirements regarding hazardous substances - 6/24/2017, \$29.00

### FIRE SAFETY (TC 92)

ISO/DIS 21925-1, Fire resistance tests - Fire dampers for air distribution systems - Part 1: Mechanical dampers - 8/24/2017, \$119.00

### FORENSIC SCIENCES (TC 272)

ISO/DIS 21043-1, Forensic Sciences - Part 1: Terms, definitions and framework - 8/16/2017, \$62.00

### INDUSTRIAL AUTOMATION SYSTEMS AND INTEGRATION (TC 184)

ISO/DIS 8000-115, Data quality - Part 115: Master data: Exchange of quality identifiers: Syntactic, semantic and resolution requirements - 8/24/2017, \$46.00

### INDUSTRIAL FANS (TC 117)

ISO/DIS 12759-2, Fans - Efficiency classification for fans - Part 2: Standard losses for drive components - 8/20/2017, \$77.00

### MATERIALS, EQUIPMENT AND OFFSHORE STRUCTURES FOR PETROLEUM AND NATURAL GAS INDUSTRIES (TC 67)

ISO/DIS 20815, Petroleum, petrochemical and natural gas industries - Production assurance and reliability management - 8/18/2017, \$155.00

### MECHANICAL VIBRATION AND SHOCK (TC 108)

ISO 10816-8/DAMd1, Mechanical vibration - Evaluation of machine vibration by measurements on non-rotating parts - Part 8: Reciprocating compressor systems - Amendment 1 - 6/14/2017, \$46.00

### NON-DESTRUCTIVE TESTING (TC 135)

ISO/DIS 20769-1, Non-destructive testing - Radiographic inspection of corrosion and deposits in pipes by X- and gamma rays - Part 1: Tangential radiographic inspection - 8/23/2017, \$112.00

ISO/DIS 20769-2, Non-destructive testing - Radiographic inspection of corrosion and deposits in pipes by X- and gamma rays - Part 2: Double wall radiographic inspection - 8/23/2017, \$102.00

### OPTICS AND OPTICAL INSTRUMENTS (TC 172)

ISO/DIS 19741, Optics and photonics - Optical materials and components - Test method for striae of infrared optical materials - 8/24/2017, \$46.00

ISO/DIS 21575, Optics and photonics - Optical materials and components - The powder test method for the water resistance of optical glass - 8/19/2017, \$46.00

ISO/DIS 9211-5, Optics and photonics - Minimum requirements for optical coatings - Part 5: Antireflecting coatings - 8/18/2017, \$40.00

ISO/DIS 9211-6, Optics and photonics - Minimum requirements for optical coatings - Part 6: Reflecting coatings - 8/18/2017, \$40.00

ISO/DIS 9211-7, Optics and photonics - Minimum requirements for optical coatings - Part 7: Neutral beam splitting coatings - 8/18/2017, \$40.00

ISO/DIS 10110-18, Optics and photonics - Preparation of drawings for optical elements and systems - Part 18: Material imperfections - Stress birefringence, bubbles and inclusions, and homogeneity and striae - 6/25/2017, \$82.00

## **OTHER**

ISO/DIS 4045, Leather - Chemical tests - Determination of pH and difference figure - 8/17/2017, \$33.00

ISO/DIS 4048, Leather - Chemical tests - Determination of matter soluble in dichloromethane and free fatty acid content - 8/18/2017, \$46.00

ISO/DIS 5398-3, Leather - Chemical determination of chromic oxide content - Part 3: Quantification by atomic absorption spectrometry - 8/18/2017, \$46.00

## **PERSONAL SAFETY - PROTECTIVE CLOTHING AND EQUIPMENT (TC 94)**

ISO/DIS 18889, Protective gloves for pesticide operators - Performance requirements - 8/19/2017, \$53.00

## **PLASTICS (TC 61)**

ISO/DIS 20457, Plastics moulded parts - Tolerances and acceptance conditions - 6/14/2017, \$98.00

## **PLASTICS PIPES, FITTINGS AND VALVES FOR THE TRANSPORT OF FLUIDS (TC 138)**

ISO/DIS 10468, Glass-reinforced thermosetting plastics (GRP) pipes - Determination of the ring creep properties under wet or dry conditions - 8/16/2017, \$46.00

ISO/DIS 10471, Glass-reinforced thermosetting plastics (GRP) pipes - Determination of the long-term ultimate bending strain and the long-term ultimate relative ring deflection under wet conditions - 8/23/2017, \$58.00

ISO/DIS 21225-1, Plastics piping systems for the trenchless replacement of underground pipeline networks - Part 1: Replacement on the line by pipe bursting and pipe extraction - 6/14/2017, \$77.00

ISO/DIS 21225-2, Plastics piping systems for the trenchless replacement of underground pipeline networks - Part 2: Replacement off the line by horizontal directional drilling and impact moling - 6/14/2017, \$77.00

## **PROJECT, PROGRAMME AND PORTFOLIO MANAGEMENT (TC 258)**

ISO/DIS 21508, Earned value management in project and programme management - 8/17/2017, \$82.00

ISO/DIS 21511, Work breakdown structures for project and programme management - 8/17/2017, \$71.00

## **PUMPS (TC 115)**

ISO/ASME DIS 14414, Pump system energy assessment - 6/15/2017, \$125.00

## **QUALITY MANAGEMENT AND QUALITY ASSURANCE (TC 176)**

ISO/DIS 10001, Quality management - Customer satisfaction - Guidelines for codes of conduct for organizations - 6/25/2017, \$82.00

ISO/DIS 10002, Quality management - Customer satisfaction - Guidelines for complaints handling in organizations - 6/25/2017, \$102.00

ISO/DIS 10003, Quality management - Customer satisfaction - Guidelines for dispute resolution external to organizations - 6/25/2017, \$107.00

ISO/DIS 10004, Quality management - Customer satisfaction - Guidelines for monitoring and measuring - 6/25/2017, \$107.00

ISO/DIS 10005, Quality management systems - Guidelines for quality plans - 6/14/2017, \$93.00

## **RUBBER AND RUBBER PRODUCTS (TC 45)**

ISO/DIS 13226, Rubber - Standard reference elastomers (SREs) for characterizing the effect of liquids on vulcanized rubbers - 6/15/2017, \$102.00

ISO/DIS 22762-1, Elastomeric seismic-protection isolators - Part 1: Test methods - 8/19/2017, \$146.00

ISO/DIS 22762-2, Elastomeric seismic-protection isolators - Part 2: Applications for bridges - Specifications - 8/19/2017, \$125.00

ISO/DIS 22762-3, Elastomeric seismic-protection isolators - Part 3: Applications for buildings - Specifications - 8/19/2017, \$134.00

## **SHIPS AND MARINE TECHNOLOGY (TC 8)**

ISO/DIS 21984, Ships and marine technology - Guidelines for measurement, evaluation and reporting of vibration with regard to habitability on specific ships - 6/14/2017, \$53.00

## **SURFACE CHEMICAL ANALYSIS (TC 201)**

ISO/DIS 20579-1, Surface chemical analysis - Guidelines to sample handling, preparation and mounting - Part 1: Guidelines to handling of specimens prior to analysis - 8/24/2017, \$53.00

ISO/DIS 20579-2, Surface chemical analysis - Guidelines to sample handling, preparation and mounting - Part 2: Guidelines to preparation and mounting of specimens prior to analysis - 8/24/2017, \$77.00

ISO/DIS 20579-4, Surface chemical analysis - Guidelines to sample handling, preparation and mounting - Part 4: Reporting information related to the history, preparation, handling and mounting of nano-objects prior to surface analysis - 8/24/2017, \$82.00

## **TERMINOLOGY (PRINCIPLES AND COORDINATION) (TC 37)**

ISO/DIS 24623-1, Language resource management - Corpus query lingua franca (CQLF) - Part 1: Metamodel - 6/25/2017, \$62.00

## **TOBACCO AND TOBACCO PRODUCTS (TC 126)**

ISO/DIS 20768, Vapour products - Routine analytical vaping machine - Definitions and standard conditions - 6/17/2017, \$46.00

## **TRACTORS AND MACHINERY FOR AGRICULTURE AND FORESTRY (TC 23)**

ISO/DIS 789-6, Agricultural tractors - Test procedures - Part 6: Centre of gravity - 8/19/2017, \$93.00

## **TRADITIONAL CHINESE MEDICINE (TC 249)**

ISO/DIS 20493, Traditional Chinese medicine - Infrared moxibustion-like instrument - 8/13/2017, \$46.00

## **TRANSPORT INFORMATION AND CONTROL SYSTEMS (TC 204)**

ISO/DIS 17419, Intelligent transport systems - Cooperative systems - Globally unique identification - 6/15/2017, \$125.00

ISO/DIS 17423, Intelligent transport systems - Cooperative systems - Application requirements and objectives - 6/15/2017, \$112.00

ISO/DIS 22418, Intelligent transport systems - Fast service announcement protocol (FSAP) - 6/16/2017, \$93.00

## **ISO/IEC JTC 1, Information Technology**

ISO/IEC 23008-2/DAmD3, Information technology - High efficiency coding and media delivery in heterogeneous environments - Part 2: High efficiency video coding - Amendment 3 - 12/25/2041, \$88.00



ISO/IEC DIS 29147, Information technology - Security techniques - Vulnerability disclosure - 8/16/2017, \$107.00

ISO/IEC DIS 12034-1, Information technology - Archive eXchange Format (AXF) - Part 1: Structure and semantics - 6/25/2017, \$155.00

ISO/IEC DIS 29109-5, Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 5: Face image data - 6/15/2017, \$82.00

ISO/IEC DIS 14543-5-11, Information technology - Home electronic systems (HES) architecture - Part 5-11: Intelligent Grouping and Resource Sharing for HES Class 2 and Class 3 - Remote user interface - 6/18/2017, \$98.00

ISO/IEC/IEEE DIS 42020, Enterprise, systems and software - Architecture processes - 6/25/2017, \$175.00

## IEC Standards

1/2329A/CDV, IEC 60050-426 ED3: International Electrotechnical Vocabulary - Part 426: Equipment for explosive atmospheres, 2017/8/11

29/952/CDV, IEC 60118-4/AMD1 ED3: Electroacoustics - Hearing aids - Part 4: Induction-loop systems for hearing aid purposes - System performance requirements, 2017/8/25

34C/1335/CDV, IEC 62442-1/AMD1 ED1: Amendment 1 - Energy performance of lamp controlgear - Part 1: Controlgear for fluorescent lamps - Method of measurement to determine the total input power of controlgear circuits and the efficiency of the controlgear, 2017/8/25

34C/1336/CDV, IEC 62442-2/AMD1 ED1: Amendment 1 - Energy performance of lamp controlgear - Part 2: Controlgear for high intensity discharge lamps (excluding fluorescent lamps) - Method of measurement to determine the efficiency of the controlgear, 2017/8/25

34D/1288/CD, IEC 60570/AMD2 ED4: Electrical supply track systems for luminaires, 2017/7/28

44/791/CDV, IEC 60204-11 ED2: Safety of machinery - Electrical equipment of machines - Part 11: Requirements for HV equipment for voltages above 1 000 V a.c. or 1 500 V d.c. and not exceeding 36 kV, 2017/8/25

45B/870/CD, IEC 62963 ED1: Radiation protection instrumentation - Bottle / can liquid X-ray computed tomography (CT) inspection systems, 2017/8/25

45B/871/CD, IEC 63121 ED1: Radiation protection instrumentation - Vehicle-mounted mobile systems for the detection of illicit trafficking of radioactive materials, 2017/8/25

47/2405/DTR, IEC TR 63133 ED1: Semiconductor devices - Scan based ageing level estimation for semiconductor devices, 2017/7/28

49/1217/CDV, IEC 62604-2 ED2: Surface acoustic wave (SAW) and bulk acoustic wave (BAW) duplexers of assessed quality - Part 2: Guidelines for the use, 2017/8/25

51/1187/CDV, IEC 62024-1 ED3: High frequency inductive components - Electrical characteristics and measuring methods - Part 1: Nanohenry range chip inductor, 2017/8/25

55/1617/NP, PNW 55-1617: Specifications for particular types of winding wires - Part 80: Polyvinyl acetal enamelled rectangular copper wire, class 120, with a bonding layer, 2017/7/28

55/1616/FDIS, IEC 60317-56 ED2: Specifications for particular types of winding wires - Part 56: Solderable fully insulated (FIW) zero-defect polyurethane enamelled round copper wire, class 180, 2017/7/14

59K/292/CD, IEC 61591 ED2: Cooking fume extractors - Methods for measuring performance, 2017/8/25

59K/289/CDV, IEC 60705/AMD2 ED4: Amendment 2 - Household microwave ovens - Methods for measuring performance, 2017/8/25

59L/144/FDIS, IEC 62863 ED1: Methods of measuring performances of electric hair clippers or trimmers for household use, 2017/7/14

61H/349/CDV, IEC 60335-2-86 ED3: Household and similar electrical appliances - Safety - Part 2-86: Particular requirements for electric fishing machines, 2017/8/25

61H/350/CDV, IEC 60335-2-87/AMD1 ED3: Household and similar electrical appliances - Safety - Part 2-87: Particular requirements for electrical animal stunning equipment, 2017/8/25

61H/348/CDV, IEC 60335-2-71 ED3: Household and similar electrical appliances - Safety - Part 2-71: Particular requirements for electrical heating appliances for breeding and rearing animals, 2017/8/25

62B/1060/CD, IEC 61223-3-6 ED1: Evaluation and routine testing in medical imaging departments - Part 3-6 Acceptance and Constancy tests - Imaging performance of mammographic tomosynthesis mode of operation of mammographic X-Ray equipment, 2017/8/25

62D/1496/CDV, ISO 80601-2-13/AMD2 ED1: Amendment 2 - Medical electrical equipment - Part 2-13: Particular requirements for basic safety and essential performance of an anaesthetic workstation, 2017/8/25

72/1079/FDIS, IEC 60730-2-14 ED2: Automatic electrical controls - Part 2-14: Particular requirements for electric actuators, 2017/7/14

72/1080/FDIS, IEC 60730-2-15 ED3: Automatic electrical controls - Part 2-15: Particular requirements for automatic electrical air flow, water flow and water level sensing controls, 2017/7/14

81/562/DTS, IEC TS 62561-8 ED1: Lightning Protection System Components (LPSC) - Part 8: Requirements for components for isolated LPS, 2017/8/25

82/1291/DTS, IEC TS 62738 ED1: Design guidelines and recommendations for ground-mounted photovoltaic power plants, 2017/8/25

82/1292/DTS, IEC TS 60904-13 ED1: Photovoltaic devices - Part 13: Electroluminescence of photovoltaic modules, 2017/8/25

86C/1449/CDV, IEC 62343-5-2 ED1: Dynamic modules - Part 5-2: Test methods - 1xN fixed-grid WSS - Dynamic crosstalk measurement, 2017/8/25

91/1442/CDV, IEC 60194-2 ED1: Printed boards design, manufacture and assembly - Vocabulary - Part 2: Common usage in electronic technologies as well as printed board and electronic assembly technologies, 2017/8/25

94/422/NP, PNW 94-422: Electromechanical elementary relays - Part 4: Reed relays - General and safety requirements (Proposed as 61810-4), 2017/8/25

100/2916/CDV, IEC 62087-7 ED1: Audio, video and related equipment - Methods of measurement for power consumption - Part 7: Computer Monitors, 2017/8/25

100/2915/CDV, IEC 62216 ED2: Digital terrestrial television receivers for the DVB-T system (TA 1), 2017/8/25

113/368/NP, PNW TS 113-368 ED1: IEC TS 62607-6-5 Ed.1.0: Nanomanufacturing - Key control characteristics Part 6-5: Graphene - Sheet resistance and contact resistance of two-dimensional materials including graphene, 2017/8/25

119/169/CD, IEC 62899-503 ED1: Printed Electronics - Part 503: Quality Assessment - Test method for the channel properties of the printed thin-film transistor, 2017/7/28

CIS/A/1215/CD, CISPR 16-1-1 ED4: Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-1: Radio disturbance and immunity measuring apparatus - Measuring apparatus, 2017/8/25

CIS/A/1213/CDV, CISPR 16-2-3/AMD1 ED4: Amendment 1 - Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements, 2017/8/25



# Newly Published ISO & IEC Standards

Listed here are new and revised standards recently approved and promulgated by ISO - the International Organization for Standardization – and IEC – the International Electrotechnical Commission. Most are available at the ANSI Electronic Standards Store (ESS) at [www.ansi.org](http://www.ansi.org). All paper copies are available from Standards resellers (<http://webstore.ansi.org/faq.aspx#resellers>).

## ISO Standards

### AGRICULTURAL FOOD PRODUCTS (TC 34)

[ISO 19020:2017](#), Microbiology of the food chain - Horizontal method for the immunoenzymatic detection of staphylococcal enterotoxins in foodstuffs, \$138.00

### BUILDING CONSTRUCTION (TC 59)

[ISO 10563:2017](#), Buildings and civil engineering works - Sealants - Determination of change in mass and volume, \$45.00

### COSMETICS (TC 217)

[ISO 18415:2017](#), Cosmetics - Microbiology - Detection of specified and non-specified microorganisms, \$138.00

[ISO 21148:2017](#), Cosmetics - Microbiology - General instructions for microbiological examination, \$138.00

[ISO 21149:2017](#), Cosmetics - Microbiology - Enumeration and detection of aerobic mesophilic bacteria, \$138.00

### DOCUMENT IMAGING APPLICATIONS (TC 171)

[ISO 18829:2017](#), Document management - Assessing ECM/EDRM implementations - Trustworthiness, \$68.00

### FIRE SAFETY (TC 92)

[ISO 3008-2:2017](#), Fire-resistance tests - Part 2: Lift landing door assemblies, \$138.00

### FLOOR COVERINGS (TC 219)

[ISO 10833:2017](#), Textile floor coverings - Determination of resistance to damage at cut edges using the modified Vettermann drum test, \$45.00

### GAS CYLINDERS (TC 58)

[ISO 13338:2017](#), Gas cylinders - Gases and gas mixtures - Determination of tissue corrosiveness for the selection of cylinder valve outlets, \$68.00

### MECHANICAL TESTING OF METALS (TC 164)

[ISO 1099:2017](#), Metallic materials - Fatigue testing - Axial force-controlled method, \$138.00

### PAINTS AND VARNISHES (TC 35)

[ISO 3668:2017](#), Paints and varnishes - Visual comparison of colour of paints, \$68.00

### RUBBER AND RUBBER PRODUCTS (TC 45)

[ISO 36:2017](#), Rubber, vulcanized or thermoplastic - Determination of adhesion to textile fabrics, \$68.00

[ISO 5600:2017](#), Rubber - Determination of adhesion to rigid materials using conical shaped parts, \$68.00

[ISO 6806:2017](#), Rubber hoses and hose assemblies for use in oil burners - Specification, \$103.00

### SMALL TOOLS (TC 29)

[ISO 2725-1:2017](#), Assembly tools for screws and nuts - Square drive sockets - Part 1: Hand-operated sockets, \$68.00

[ISO 2725-2:2017](#), Assembly tools for screws and nuts - Square drive sockets - Part 2: Machine-operated sockets (impact), \$68.00

[ISO 2725-3:2017](#), Assembly tools for screws and nuts - Square drive sockets - Part 3: Machine-operated sockets (non-impact), \$45.00

### STEEL (TC 17)

[ISO 14404-3:2017](#), Calculation method of carbon dioxide emission intensity from iron and steel production - Part 3: Steel plant with electric arc furnace (EAF) and coal-based or gas-based direct reduction iron (DRI) facility, \$138.00

### TRANSPORT INFORMATION AND CONTROL SYSTEMS (TC 204)

[ISO 12813/Amd1:2017](#), Electronic fee collection - Compliance check communication for autonomous systems - Amendment 1, \$19.00

[ISO 15638-18:2017](#), Intelligent transport systems - Framework for cooperative telematics applications for regulated commercial freight vehicles (TARV) - Part 18: ADR (Dangerous Goods), \$209.00

### WELDING AND ALLIED PROCESSES (TC 44)

[ISO 636:2017](#), Welding consumables - Rods, wires and deposits for tungsten inert gas welding of non-alloy and fine-grain steels - Classification, \$103.00

[ISO 15614-1:2017](#), Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 1: Arc and gas welding of steels and arc welding of nickel and nickel alloys, \$185.00

## ISO Technical Reports

### ENVIRONMENTAL MANAGEMENT (TC 207)

[ISO/TR 14073:2017](#), Environmental management - Water footprint - Illustrative examples on how to apply ISO 14046, \$209.00

### HEALTH INFORMATICS (TC 215)

[ISO/TR 18638:2017](#), Health informatics - Guidance on health information privacy education in healthcare organizations, \$162.00

### MECHANICAL VIBRATION AND SHOCK (TC 108)

[ISO/TR 19664:2017](#), Human response to vibration - Guidance and terminology for instrumentation and equipment for the assessment of daily vibration exposure at the workplace according to the requirements of health and safety, \$68.00

**NANOTECHNOLOGIES (TC 229)**

[ISO/TR 18401:2017](#), Nanotechnologies - Plain language explanation of selected terms from the ISO/IEC 80004 series, \$103.00

**ISO Technical Specifications****NANOTECHNOLOGIES (TC 229)**

[ISO/TS 80004-11:2017](#), Nanotechnologies - Vocabulary - Part 11: Nanolayer, nanocoating, nanofilm, and related terms, \$68.00

**ISO/IEC JTC 1, Information Technology**

[ISO/IEC 20741:2017](#), Systems and software engineering - Guideline for the evaluation and selection of software engineering tools, \$162.00

[ISO/IEC 18477-7:2017](#), Information technology - Scalable compression and coding of continuous-tone still images - Part 7: HDR Floating-Point Coding, \$185.00

[ISO/IEC 29341-1-2:2017](#), Information technology - UPnP Device Architecture - Part 1-2: UPnP Device Architecture Version 2.0, \$232.00

[ISO/IEC 29341-30-1:2017](#), Information technology - UPnP Device Architecture - Part 30-1: IoT management and control device control protocol - IoT management and control architecture overview, \$185.00

[ISO/IEC 29341-30-2:2017](#), Information technology - UPnP Device Architecture - Part 30-2: IoT management and control device control protocol - IoT management and control device, \$68.00

[ISO/IEC 29341-30-10:2017](#), Information technology - UPnP Device Architecture - Part 30-10: IoT management and control device control protocol - Data store service, \$185.00

[ISO/IEC 29341-30-11:2017](#), Information technology - UPnP Device Architecture - Part 30-11: IoT management and control device control protocol - IoT management and control data model service, \$232.00

[ISO/IEC 29341-30-12:2017](#), Information technology - UPnP Device Architecture - Part 30-12: IoT management and control device control protocol - IoT management and control transport generic service, \$138.00

[ISO/IEC/IEEE 15289:2017](#), Systems and software engineering - Content of life-cycle information items (documentation), \$232.00

**IEC Standards****ELECTRICAL EQUIPMENT IN MEDICAL PRACTICE (TC 62)**

[IEC 60601-2-43 Amd.1 Ed. 2.0 b:2017](#), Amendment 1 - Medical electrical equipment - Part 2-43: Particular requirements for the basic safety and essential performance of X-ray equipment for interventional procedures, \$47.00

[IEC 60601-2-43 Ed. 2.1 b:2017](#), Medical electrical equipment - Part 2-43: Particular requirements for the basic safety and essential performance of X-ray equipment for interventional procedures, \$469.00

# 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 notified by Member countries of the World Trade Organization (WTO). In accordance with the WTO Agreement on Technical Barriers to Trade (TBT Agreement), Members are required to notify proposed technical regulations that may significantly affect trade to the WTO Secretariat in Geneva, Switzerland. In turn, the Secretariat issues and makes available these notifications. The purpose of the notification requirement is to provide global trading partners with an opportunity to review and comment on the regulations before they become final.

The USA Inquiry Point for the WTO TBT Agreement is located at the National Institute of Standards and Technology (NIST) in the Standards Coordination Office (SCO). The Inquiry Point distributes the notified proposed foreign technical regulations (notifications) and makes the associated full-texts available to U.S. stakeholders via its online service, Notify U.S. Interested U.S. parties can register with Notify U.S. to receive e-mail alerts when notifications are added from countries and industry sectors of interest to them.

To register for Notify U.S., please visit <http://www.nist.gov/notifyus/>.

The USA WTO TBT Inquiry Point is the official channel for distributing U.S. comments to the network of WTO TBT Enquiry Points around the world. U.S. business contacts interested in commenting on the notifications are asked to review the comment guidance available on Notify U.S. at <https://tsapps.nist.gov/notifyus/data/guidance/guidance.cfm> prior to submitting comments.

For further information about the USA TBT Inquiry Point, please visit:

<https://www.nist.gov/standardsgov/what-we-do/trade-regulatory-programs/usa-wto-tbt-inquiry-point>

Contact the USA TBT Inquiry Point at: (301) 975-2918; Fax: (301) 926-1559; E-mail: [usatbtep@nist.gov](mailto:usatbtep@nist.gov) or [notifyus@nist.gov](mailto:notifyus@nist.gov).

# Information Concerning

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## American National Standards

### Call for Members

#### 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 oversight of its 40+ Technical Committees. Additionally, the INCITS Executive Board has the international leadership role as the US Technical Advisory Group (TAG) to ISO/IEC JTC 1, Information Technology.

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, contact Jennifer Garner at [jgarner@itic.org](mailto:jgarner@itic.org) or visit <http://www.incits.org/participation/membership-info> for more information.

Membership in all interest categories is always welcome; however, the INCITS Executive Board seeks to broaden its membership base in the following categories:

- Service Providers
- Users
- Standards Development Organizations and Consortia
- Academic Institutions

## 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](http://www.scte.org) or by e-mail from [standards@scte.org](mailto:standards@scte.org).

## ANSI Accredited Standards Developers

### Approval of Reaccreditation

#### National Fenestration Rating Council (NFRC)

The reaccreditation of the National Fenestration Rating Council (NFRC), an ANSI Member and Accredited Standards Developer, has been approved at the direction of ANSI's Executive Standards Council under its recently revised operating procedures for documenting consensus on NFRC-sponsored American National Standards, effective June 1, 2017. For additional information, please contact: Ms. Robin R. Merrifield, Manager, Communications, National Fenestration Rating Council, 6305 Ivy Lane, Greenbelt, MD 20770; phone: 240.821.9513; e-mail: [rmerrifield@nfrf.org](mailto:rmerrifield@nfrf.org).

#### Structural Building Components Association (SBCA)

The reaccreditation of the Structural Building Components Association (SBCA), an ANSI Member and Accredited Standards Developer, has been approved at the direction of ANSI's Executive Standards Council under its recently revised operating procedures for documenting consensus on SBCA-sponsored American National Standards, effective June 2, 2017. For additional information, please contact: Mr. Ryan Dexter, Director of Technical Projects, Structural Building Components Association, 6300 Enterprise Lane, Madison, WI 53719; phone: 608.274.4849; e-mail: [rdexter@qualtim.com](mailto:rdexter@qualtim.com).

## Reaccreditation

### IPC – Association Connecting Electronics Industries

#### Comment Deadline: July 10, 2017

IPC – Association Connecting Electronics Industries, an ANSI member and Accredited Standards Developer (ASD), has submitted revisions to its currently accredited operating procedures for documenting consensus on IPC-sponsored American National Standards, under which it was last reaccredited in 2015. As the current 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: Ms. Jeanne Cooney, Manager, ANSI Programs, IPC – Association Connecting Electronics Industries, 3000 Lakeside Drive, Suite 105N, Bannockburn, IL 60015; phone: 847.597.2842; e-mail: [Jeanne.Cooney@ipc.org](mailto:Jeanne.Cooney@ipc.org). You may view/download a copy of the revisions during the public review period at the following URL: [www.ansi.org/accredPR](http://www.ansi.org/accredPR). Please submit any public comments on the revised procedures to IPC by July 10, 2017, with a copy to the ExSC Recording Secretary in ANSI's New York Office ([jthompso@ANSI.org](mailto:jthompso@ANSI.org)).

## International Organization for Standardization (ISO)

### Call for U.S. TAG Administrator

#### ISO/TC 17/SC 7 – Methods of Testing (Other than Mechanical Tests and Chemical Analysis)

#### Reply Deadline: June 22, 2017

ANSI has been informed that ASTM International, the ANSI-accredited U.S. TAG Administrator for ISO/TC 17, wishes to relinquish their membership in ISO/TC 17/SC 7.

ISO/TC 17/SC 7 operates under the following scope:

Standardization of methods of testing steel other than:

- mechanical tests
- chemical analysis
- non-destructive tests covered by other ISO/TC 17/SCs and ISO/TC 135.

Organizations interested in serving as the U.S. TAG Administrator or participating on a U.S. TAG should contact ANSI's ISO Team ([isot@ansi.org](mailto:isot@ansi.org)).

### ISO/TC 17/SC 20 – General Technical Delivery Conditions, Sampling and Mechanical Testing Methods

#### Reply Deadline: June 22, 2017

ANSI has been informed that ASTM International, the ANSI-accredited U.S. TAG Administrator for ISO/TC 17, wishes to relinquish their membership in ISO/TC 17/SC 20.

ISO/TC 17/SC 20 operates under the following scope:

Standardization of general technical delivery conditions, inspection documents and general rules for selection and preparation of samples and test pieces for mechanical testing of wrought steels.

Organizations interested in serving as the U.S. TAG Administrator or participating on a U.S. TAG should contact ANSI's ISO Team ([isot@ansi.org](mailto:isot@ansi.org)).

## U.S. Technical Advisory Groups

### Call for Participation

#### U.S. TAG to IEC TC 124 – Wearable Electronic Devices and Technologies

The Consumer Technology Association (CTA)™, administrator for the U.S. TAG to IEC TC 124, Wearable Electronic Devices and Technologies, is seeking interested parties to participate in the TAG. The TAG will be responsible for the development and coordination of U.S. positions related to standardization in the field of wearable electronic devices and technologies which include patchable materials and devices, implantable materials and devices, edible materials and devices, and electronic textile materials and devices. Membership is open to all parties who have a national interest in the work of TC 124. For more information or to get involved, contact Kerri Haresign ([kharesign@cta.tech](mailto:kharesign@cta.tech)).

# Information Concerning

## International Organization for Standardization (ISO)

### Call for International (ISO) Secretariat

### ISO/TC 118/SC 1 – *Process Compressors*

### Reply Deadline: June 23, 2017

ANSI has been informed by the ISO Technical Management Board (ISO/TMB) that Netherlands (NEN), the ISO delegated Secretariat of ISO/TC 118/SC 1, wishes to relinquish the role of the Secretariat.

ISO/TC 118/SC 1 operates under the following scope:

*Standardization in the field of compressors for the process, petroleum, chemical and gas industry services.*

*Note: Expander-compressor units are included.*

ANSI is seeking organizations in the U.S. that may be interested in assuming the role of the U.S. delegated Secretariat for ISO/TC 118/SC 1. Alternatively, ANSI may be assigned the responsibility for administering an ISO Secretariat. Any request that ANSI accept the direct administration of an ISO Secretariat shall demonstrate that:

1. The affected interests have made a financial commitment for not less than three years covering all defined costs incurred by ANSI associated with holding the Secretariat;
2. the affected technical sector, organizations or companies desiring that the U.S. hold the Secretariat request that ANSI perform this function;
3. the relevant U.S. TAG has been consulted with regard to ANSI's potential role as Secretariat; and
4. ANSI is able to fulfill the requirements of a Secretariat.

Information concerning the United States acquiring the role of international Secretariat may be obtained by contacting ANSI's ISO Team ([isot@ansi.org](mailto:isot@ansi.org)).

May 2017 Draft for Public Review

# QEI-1-201X, Standard for the Qualification of Elevator Inspectors

(Proposed Revisions of ASME QEI-1-2013)

TENTATIVE

SUBJECT TO REVISION OR WITHDRAWAL

Specific Authorization Required for Reproduction or Quotation

ASME Codes and Standards



(Record 12-2302)

**Proposal: Define “effective date”**

Effective Date: 1.(As it relates to the certification documentation), the start date of the most recent certification of the inspector or inspection supervisor.

2. (As it relates to the issuance and use of the QEI-1 Standard and ASME Standards); Generally, six (6) months after the issuance of the standard or as otherwise stated in that standard.

3. (As it relates to other standards); the date, as determined by the publishing agency, when the document may be used by jurisdictions adopting the standard.

(Record 15-2172)

**inspection inspector supervisor:** a person certified by an accredited certifying organization as meeting the qualifications of Section 3.4 requirements of Part 3 of ASME QEI-1 Standard for the Qualification of Elevator Inspectors and who is responsible for the supervision provides direct supervision or management oversight of QEI certified of inspectors and inspector trainees in the performance of their assigned responsibilities.

(Record 15-1849)

**Proposal:** Clarify reference to Safety Handbook.

Revise 1.3 (j) to read:

*(j)-References to the Elevator Industry Field Employees’ Safety Handbook refer to the latest edition of the Elevator Industry Field Employees’ Safety Handbook.*

*Rationale: The operative term in 1.3(j) is “latest edition” as in preceding and subsequent paragraphs in Section 1.3. The term “Safety Handbook” appeared only in Section 2.1 paragraph (a). Changing to the full official title of the document is consistent with the manner in which the EIFESH is referenced throughout the QEI Standard.*

Revise 2.1(a) to read as follows:

(a) knowledge of personal safety practices, including, but not limited to, the safety practices contained in the Elevator Industry Field Employees’ Safety Handbook necessary to perform the following:

(Record 16-1810)

Add to 1.5.2

**1.5.2 Access To**

(a) CSA B44.1/ASME A17.5, Elevator and Escalator Electrical Equipment....

(g) ASME A17.6 Standard for Elevator Suspension, Compensation, and Governor Systems.

(Record 12-2299)

**Section 2.2**

**Duties**

(c). . .

(1) . . .

(2) the report shall be signed by the certified inspector and shall include his or her certification number and certifying agency. Electronic or written signatures are acceptable to meet the requirement.

(3) . . .

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## NSF/ANSI 14-2016a

### Plastics piping system components and related materials

**Table XX – Corrugated Polyethylene Pipe and Fittings for Storm Drainage, Land drainage and Sanitary Sewer Applications**

Test	Corrugated PE	Annular Corrugated PE
Pipe OD or ID	2h	
Inner liner thickness		2h
Stiffness	Annually	Annually
Elongation	Qualification	
Pipe stiffness while elongated	Qualification	
Impact	Weekly	Weekly
Bond	Annually	
Flattening		Weekly
NCLS		Qualification
Product Standard	ASTM F667	ASTM F2648

**Table XX – Corrugated Polyethylene Pipe and Fittings for Non-Pressure Storm Sewer, Land drainage and Sanitary Sewer Applications**

Test	Corrugated PP Single and Double Wall	Corrugated PP Triple Wall	PP Dual Wall
Inside Diameter	2h	2h	2h
Minimum wall thickness	2h	2h	2h
Stiffness	Annually	Annually	Annually
Impact	Weekly	Weekly	Annually
Flattening	Annually	Annually	Annually
Long term strength	Qualification	Qualification	Qualification
Joint tightness	Annually	Qualification	
OIT	Annually		
Product Standard	F2736	F2764, CSA B182.13	F2881

## BSR/UL 340, Standard for Tests for Comparative Flammability of Liquids

## PROPOSAL

## 1. Addition of Requirements for Transformer Mineral Oil, Vegetable Oil, and Natural Ester Oil to Tables 3.1 and 13.1

Table 13.1

## Fire hazard classification scale

Numerical fire hazard rating	General classification	Flammability temperature limit °F (°C) <sup>a, b</sup>
100	With diethyl ether	-49 (-45) or lower
90 to 100	With gasoline	13 (-10.6) to -48 (-44.4)
80 to 90	Between gasoline and ethyl alcohol	38 (3.3) to 14 (-10)
70 to 80	Between ethyl alcohol and gasoline	51 (10.6) to 39 (3.9)
60 to 70	With ethyl alcohol	67 (19.4) to 52 (11.1)
50 to 60	Between ethyl alcohol and kerosene	83 (28.3) to 68 (20.0)
40 to 50	Between kerosene and ethyl alcohol	99 (37.2) to 84 (28.9)
30 to 40	With kerosene	129 (53.9) to 100 (37.8)
20 to 30	Between kerosene and paraffin oil	256 (124.4) to 130 (54.4)
10 to 20	With paraffin oil	440 (226.7) to 257 (125)
0 to 10	Less hazardous than paraffin oil	441 (227) or greater
0 or nonflammable	With water or nonflammable	Noncombustible <sup>a, c</sup>

NOTE: Dielectric Media/Transformer Fluids including mineral oil, natural and synthetic esters, silicone oil and refined petroleum oil exhibiting flammability temperature limits > 464°F (240°C) may be assigned a Numerical Fire Hazard Rating of "4-5 Less Hazardous than paraffin oil".

<sup>a</sup> In this classification scale, materials which do not burn under any conditions are rated nonflammable. Flammability temperature limits are just one measure of liquid flammability, and do not indicate the propensity for ignition when the liquid is dispersed as a spray or mist. A more fundamental consideration for a burning pool of liquid is the heat release rate per unit surface area at a given imposed heat flux, as measured in a cone calorimeter.

<sup>b</sup> Liquids can be ignited at temperatures below the indicated temperature limits when they are dispersed as a mist or are decomposed by an arc. Furthermore, the temperature of an arc can be well above the flammability point of the liquid, on the order of 700 °C.

<sup>c</sup> In this classification scale, materials which do not burn under any conditions are rated nonflammable.

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## BSR/UL 567, Standard for Safety for Emergency Breakaway Fittings, Swivel Connectors and Pipe-Connection Fittings for Petroleum Products and LP-Gas

### 1. Revision to the hydrostatic-strength test - single-break emergency breakaway fittings

#### 18 Hydrostatic-Strength Test

18.2 Three samples of swivel connectors, emergency breakaway fittings and pipe-connecting fittings are to be tested. Emergency breakaway fittings shall be tested as follows:

- a) For reconnectable emergency breakaway fittings both halves of the fitting are to be tested separately and then tested as a completely assembled unit; or
- b) For single-break emergency breakaway fittings they are tested as a completely assembled unit and then both halves of the fitting are to be tested separately. It is acceptable if the assembled unit separates during the test as long as each half meets the requirement.

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## BSR/UL 923, Standard for Microwave Cooking Appliances

### 1. Clarify the Test Load of Leakage Current Test and Power Input Test

#### PROPOSAL

38.6 A sample of the appliance is to be tested for leakage current starting with the as-received condition with all its switches and thermostats closed, but with its grounding conductor, open at the attachment plug (open at receptacle - see Figure 38.1). The as-received condition is without prior energization except as may occur as part of the production-line testing. The supply voltage is to be adjusted to 120, 208, or 240 V as appropriate. The test sequence, with reference to the measuring circuit (Figure 38.1) is to be as follows:

- a) With switch S1 open, the appliance is to be connected to the measuring circuit. Leakage current is to be measured using both positions of switch S2, thermostats set for maximum heating, and with switching devices in all their operating positions.
- b) Switch S1 is then to be closed, energizing the appliance, and within a period of 5 s the leakage current is to be measured using both positions of switch S2, and with the appliance operated at the maximum heat setting of thermostats and with switching devices in all their operating positions. The load in the oven cavity shall be as described in 39.3.1 41.5. The water load and container shall be of such quantity to enable completion of a continuous cooking cycle without necessitating replenishment to prevent boil dry of the water load.
- c) Leakage current is to be monitored until thermal stabilization under the maximum-heat conditions and the maximum value is to be recorded. Both positions of switch S2 are to be used. The equivalent of thermal stabilization is considered to be obtained as in the temperature test. If an adjustable temperature-regulating thermostat does not cycle at the maximum heat setting, it is to be adjusted until it does cycle before the final measurements at thermal stabilization are taken. Measurements are to be made with the heating-element thermostat, if any, open and closed and with switching devices in all their operating positions. Upon evidence of stabilizing readings, monitoring periods may be increased.
- d) Switch S1 is then to be opened and monitoring of a leakage current is to continue, using both positions of switch S2, until the leakage current stabilizes or decreases during cool down.

40.3.1 For the input test, the load shall be the same as the load specified in 39.3.1 41.5. The water load and the container shall be of such quantity, to enable completion of a continuous cooking cycle without necessitating replenishment to prevent boil dry of the water load.

## BSR/UL 1278, Standard for Movable and Wall- or Ceiling-Hung Electric Room Heaters

### 1. Connected (Smart Enabled) Heaters

#### PROPOSAL

#### SUPPLEMENT SE - CONNECTED HEATERS

#### INTRODUCTION

##### SE1 Scope

SE1.1 These requirements apply to connected (smart enabled) appliances with a control to receive and respond to a command from a wireless or remote location control device. These requirements add to the applicable requirements in the body of this Standard.

SE1.2 These requirements are not applicable to handheld wireless controls that can only transmit commands within line-of-sight, such as infrared transmitters.

#### CONSTRUCTION

##### SE2 General

SE2.1 The appliance shall require the main power switch at the appliance to be in the ON position after connection to the source of supply before enabling a control at the appliance to receive and respond to a wireless or remote location command.

SE2.2 Controls of Table SE2.1 shall be incorporated at the appliance. See Table SE2.1.

**Table SE2.1**

**Control Designations**

<b><u>Controls<sup>1</sup></u></b>	<b><u>Reference</u></b>	<b><u>Control Evaluation<sup>2</sup></u></b>
<u>Manual enable</u>	<u>SE2.4</u>	<u>Operating</u>
<u>Manual disable</u>	<u>SE2.5</u>	<u>Protective</u>
<u>Visual indicator</u>	<u>SE2.6</u>	<u>Operating</u>
<u>Disable as a result of a manual operation</u>	<u>SE2.7</u>	<u>Protective</u>
<u>Movement detection</u>	<u>SE2.8</u>	<u>Protective</u>
<u>Ambient temperature detection</u>	<u>SE2.9(c)</u>	<u>Protective</u>
<u>Maximum 24 hour disable timer</u>	<u>SE2.12</u>	<u>Protective</u>
<u>Manual timer reset (refresh)</u>	<u>SE2.13</u>	<u>Operating</u>
<u>Maximum 24 hour limit operation</u>	<u>SE2.14</u>	<u>Protective</u>
<u>Manual continued operation reset (refresh)</u>	<u>SE2.15</u>	<u>Operating</u>
<sup>1</sup> Auxiliary control functions related to connected functions are not referenced here and shall comply with auxiliary controls requirements in accordance with Section 4.3.		
<sup>2</sup> See SE2.16.		

SE2.3 Controls of Table SE2.1 shall be automatic, except where manual activation is indicated. See Table SE2.1.

SE2.4 A control at the appliance shall require a momentary-contact manual activation prior to enabling the appliance to receive and respond to a wireless or remote location command that initiates a heating function or increases a temperature setting. The control shall be independent of a power ON switch.

SE2.5 A manually activated control or switch shall be provided to disable any wireless or remote commands that initiate a heating function or increase a temperature setting, until manually enabled per SE2.4. This control or switch and the control of SE2.4 are permitted to be a single control.

SE2.6 A visual indicator shall be provided to indicate when the appliance is in the enabled mode. The visual indicator color shall be other than red or amber. The visual indicator shall be located on the front or top surface of the heater. The visual indicator shall be visible from a point 10 feet (3 m) in front of the center of the heater and 5 feet (1.5 m) above the floor. Compliance with this requirement shall be determined while the heater is:

- a) Standing on the floor if the heater is intended for placement on the floor while in operation;
- b) Elevated from the floor by 3 feet (0.91 m) if the heater is intended for use at an elevated location (see 3.11); or
- c) Standing on the floor and also when it is elevated by 3 feet (0.91 m) for a heater intended to be used either on the floor or at an elevated location.

SE2.7 Manual activation of any control at the appliance shall disable the appliance from receiving and responding to a wireless or remote command that initiates a heating function or increases a temperature setting.

SE2.8 A movement detection system shall be provided with a moveable heater that senses if the enclosure of the appliance has moved. Upon detection of movement, the appliance shall disable any wireless or remote commands that initiate a heating function or increase a temperature setting. The movement detection system shall not be readily defeatable.

SE2.9 A control shall not permit the appliance to initiate a heating function or increase a temperature setting from a wireless or remote command at any time if any of the following are detected at the appliance:

- a) Actuation of a control of SE2.5;
- b) Activation of a protective control;
- c) An ambient temperature in excess of 30°C (86°F); or
- d) Detection of movement of the enclosure per SE2.8.

SE2.10 If any condition of SE2.9 is detected in the enabled mode, a control shall disable any wireless or remote commands that initiate a heating function from a wireless or remote control device. If a condition of SE2.9(b) or (c) is detected at any time, the appliance shall additionally disconnect the heating element from its source of supply without automatic reset. The control shall not permit the appliance to initiate a heating function or increase a temperature setting from a wireless or remote command until the condition of SE2.9 is no longer detected and the appliance is manually enabled per SE2.4.

SE2.11 Once a wireless or remote command has activated a heating function, a control shall continue to monitor the conditions of SE2.9 and comply with SE2.10.



SE2.12 If a wireless or remote command has not been received at the appliance within 24 hours after manually enabling per SE2.4, a control shall not permit the appliance to initiate a heating function or increase a temperature setting from the a wireless or remote command. See SE5.

SE2.13 A wireless or remote command to reset (refresh) the 24 hour period of SE2.12 is permitted if the user manually selects a reset function at the wireless or remote control device or at the appliance before 24 hours has elapsed. An automatic timer reset function is not permitted.

SE2.14 Within 24 hours of initiating a heating function or increasing temperature setting as a result of a wireless or remote command:

- a) The appliance shall disconnect the heating element from its source of supply; and
- b) The appliance shall become disabled from receiving and responding to a wireless or remote location command. See SE6.

SE2.15 Operation of the appliance per SE2.14 is permitted to be extended for an additional 24 hours if the user manually selects a wireless or remote command within that time period. An automatic timer reset function is not permitted.

SE2.16 Controls for connected functions are considered operating controls with respect to 3.19 but shall be evaluated as and comply with the applicable requirements for operating or protective controls as indicated in Table SE2.1 in accordance with Controls, Section 4.3.

SE2.17 All controls of Table SE2.1 that rely on software to comply with the requirements of this Standard shall not be programmable or adjustable by individuals or through communication after its factory setting. See SE9.1.

## **PERFORMANCE**

### **SE3 Movement Detection Test, Moveable Heaters**

SE3.1 For each condition of SE3.2 - SE3.3, a movement detection system of SE2.8 shall:

- a) Sense when the enclosure of the appliance has moved; and
- b) Disable any wireless or remote commands that initiate a heating function or increase a temperature setting.

SE3.2 The appliance shall be enabled in accordance with SE2.1 while under a non-heated state. The appliance shall be placed on a supporting surface and then lifted a minimum 4 inches (102 mm) vertically above the supporting surface within one second. A wireless or remote command to initiate a heating function shall then be selected to confirm the command was not accepted at the appliance.

SE3.3 The appliance shall then be operated in accordance with the Normal Temperature Test. The appliance shall then be enabled in accordance with SE2.1. The appliance shall be placed on a supporting surface and then lifted a minimum 4 inches (102 mm) vertically above the supporting surface within one second. A wireless or remote command to increase a temperature setting shall be selected to confirm the command was not accepted at the appliance.

### **SE4 Ambient Temperature Test**

SE4.1 When tested under the conditions of SE4.2 - SE4.4 under any mode of operation, an automatic control of SE2.9(c) shall:

- a) Sense when the ambient environment exceeds 30°C (86°F);
- b) Disable any wireless or remote command that initiates a heating function or increase a temperature setting; and
- c) Disconnect the heating element from its source of supply without automatic reset.

SE4.2 The heating element of the appliance shall be substituted with an equivalent non-heating resistive load or equivalent method so that the appliance does not thermally affect the test environment. All other circuits and controls shall be operable for the purpose of this test.

SE4.3 The appliance shall be placed in a suitable conditioning chamber with the temperature maintained within  $\pm 1.0^{\circ}\text{C}$  ( $\pm 1.8^{\circ}\text{F}$ ) of the temperatures specified for the test. Uniform temperatures of the appliance are to be maintained by holding the ambient temperature at 25°C (77°F) or 9°C (13°F) less than the set-point temperature of the automatic control of SE2.9(c), whichever is less, until conditions of equilibrium have been established.

SE4.4 The ambient temperature is then to be raised at a rate of not more than 0.5°C (1.0°F) per minute until the automatic control of SE2.9(c) disconnects the heating element load without automatic reset and does not permit the appliance to initiate a heating function or increase a temperature setting from the a wireless or remote command or until an ambient temperature of 30°C (86°F) is exceeded, whichever occurs first.

#### **SE5 Enabled Timeout Test, Initiating a Heating Function**

SE5.1 When tested under the conditions of SE5.2 - SE5.3 under any mode of operation, an automatic control of SE2.12 shall:

- a) Sense when a wireless or remote command has not been received at the appliance within 24 hours after manually enabling per SE2.4 and SE2.12; and
- b) Disable any wireless or remote command that initiates a heating function.

SE5.2 The appliance shall be connected to its source of supply and manually enabled per SE2.4. The appliance shall continuously remain in this condition without receiving a remote command until 24 hours has been exceeded.

SE5.3 Within 5 minutes of exceeding 24 hours of operation, a wireless or remote command shall be transmitted to initiate a heating function to confirm the command was not accepted at the appliance.

#### **SE6 Enabled Timeout Test, Increasing a Temperature Setting**

SE6.1 When tested under the conditions of SE6.2 - SE6.3 under any mode of operation, an automatic control of SE2.12 shall:

- a) Sense when a wireless or remote command has not been received at the appliance within 24 hours after manually enabling per SE2.4 and SE2.12; and
- b) Disable any wireless or remote command that increases a temperature setting.

SE6.2 The appliance shall be connected to its source of supply and manually enabled per SE2.4. The appliance shall be operated with the heating element energized at a setting that does not permit the automatic control of SE2.9(c) from activating. The appliance shall continuously remain in this condition without transmitting a remote command until 24 hours has been exceeded.

SE6.3 Within 5 minutes of exceeding 24 hours of operation, a wireless or remote command shall be transmitted to increase the temperature setting to confirm the command was not accepted at the appliance.

### **SE7 Resistance to Electro Magnetic Phenomena (Immunity)**

SE7.1 The appliance operating control and protective control functions shall remain operable when tested in accordance with SE7.2 - SE7.3.

SE7.2 Compliance with SE7.1 is determined using the communication circuit source(s) adjusted to its maximum factory setting(s) in addition to any intermediate settings that are determined to present a risk to the acceptable operation of the protective control and operating control functions. Control functions shall be tested in accordance with H.26.4 - H.26.14 of the Standard for Automatic Controls for Household and Similar Use, Part 1: General Requirements, UL 60730-1, as appropriate.

SE7.3 With respect to SE7.2, if it is determined that the source within the appliance or its accessory(ies) produces emissions addressed by the standard test conditions of H.26 of the Standard for Automatic Controls for Household and Similar Use, Part 1: General Requirements, UL 60730-1, it is not necessary to repeat the tests.

### **MARKINGS**

#### **SE8 Details**

SE8.1 The manual means of actuating the enabled mode of operation of SE2.4 on the appliance shall be clearly indicated via marking on or adjacent to the user actuator.

#### **SE9 Instructions**

SE9.1 User instructions provided with the appliance shall identify the means to enable the wireless or remote operation, including an illustration depicting the location of the actuating means with information on how to enable or disable the function.