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American National Standards

Call for comment on proposals listed

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

Ordering Instructions for "Call-for-Comment" Listings

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

Comments should be addressed to the organization indicated, with a copy to the Board of Standards Review, American National Standards Institute, 25 West 43rd Street, New York, NY 10036. Fax: 212-840-2298; e-mail: psa@ansi.org

★ Standard for consumer products

Comment Deadline: September 23, 2007

UL (Underwriters Laboratories, Inc.)

Revisions

BSR/UL 508-200x, Standard for Safety for Industrial Control Equipment (revision of ANSI/UL 508-2005)

Covers industrial control devices, and devices accessory thereto, for starting, stopping, regulating, controlling, or protecting electric motors. This standard also covers industrial control devices or systems that store or process information and are provided with an output motor control function(s). This equipment is for use in ordinary locations in accordance with the NEC, NFPA 70. These devices rated 1500 volts or less. This equipment is intended for use in an ambient temperature of 0 - 40 C (32 - 104 F), unless specifically indicated for use in other conditions.

[Click here to see these changes in full, or look at the end of "Standards Action."](#)

Send comments (with copy to BSR) to: Warren Casper, UL-NC;
Warren.Casper@us.ul.com

Comment Deadline: October 8, 2007

API (American Petroleum Institute)

New Standards

- ★ BSR/API MPMS Ch. 14.10, 1st Edition-200x, Measurement of Flow to Flares (new standard)

Addresses measurement of flow to flares, and includes:

- Application considerations;
- Meter and related instrumentation selection and considerations;
- Installation considerations;
- Limitations of flare measurement technologies;
- Calibration;
- Operation uncertainty; and
- Propagation of error calculations.

Single copy price: \$25.00

Obtain an electronic copy from: kurylac@api.org

Order from: Carriann Kuryla, API (Organization); kurylac@api.org

Send comments (with copy to BSR) to: Same

BSR/GPA 2172/API MPMS CH. 14.5, 3rd Edition-200x, Calculation of Gross Heating Value, Specific Gravity, and Compressibility of Natural Gas Mixtures from Compositional Analysis (new standard)

Outlines the procedure for calculating, from compositional analysis, the following properties of natural gas mixtures:

- heating value;
- specific gravity; and
- compressibility factor.

Single copy price: \$25.00

Obtain an electronic copy from: kurylac@api.org

Order from: Carriann Kuryla, API (Organization); kurylac@api.org

Send comments (with copy to BSR) to: Same

ASME (American Society of Mechanical Engineers)

Revisions

BSR/ASME NQA-1-200x, Quality Assurance Requirements for Nuclear Facility Applications (revision of ANSI/ASME NQA-1-2004)

Reflects industry experience and current understanding of the quality assurance requirements necessary to achieve safe, reliable, and efficient utilization of nuclear energy, and management and processing of radioactive materials. The Standard focuses on the achievement of results, emphasizes the role of the individual and line management in the achievement of quality, and fosters the application of these requirements in a manner consistent with the relative importance of the item or activity.

Single copy price: \$40.00

Obtain an electronic copy from: <http://cstools.asme.org/publicreview>

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

Send comments (with copy to BSR) to: Eun Sil Yoo, ASME;
choe@asme.org

AWS (American Welding Society)

Addenda

BSR/AWS B5.15 Addenda-200x, Specification for the Qualification of Radiographic Interpreters (addenda to ANSI/AWS B5.15-2003)

Defines the requirements for the qualification of Radiographic Interpreters. The qualification of radiographic interpreters requires experience, knowledge, and skills unique to the interpretation of radiographic media and the determination of acceptance criteria for weldments and adjacent base metal.

Single copy price: \$25.00

Obtain an electronic copy from: roneill@aws.org

Order from: Rosalinda O'Neill, AWS; roneill@aws.org

Send comments (with copy to BSR) to: Andrew Davis, AWS;
adavis@aws.org

NALFA (North American Laminate Flooring Association)

Revisions

- ★ BSR/NALFA LF 01-200x, Laminate Flooring Specifications and Test Methods (revision of ANSI/NALFA LF 01-2003)

Applies to the performance of residential, commercial and industrial-use laminate flooring. The standard will be useful in guiding manufacturers and educating suppliers and consumers about the minimum performance of laminate flooring in residential, light commercial, commercial, and industrial use settings.

Single copy price: Free

Obtain an electronic copy from: dgoch@wc-b.com

Order from: David Goch, NALFA; dgoch@wc-b.com

Send comments (with copy to BSR) to: Same

NEMA (ASC C81) (National Electrical Manufacturers Association)

Revisions

BSR/ANSLG C81.61-200x, Electrical Lamp Bases (revision of ANSI/IEC C81.61-2006)

This document sets forth the specifications for bases (caps) used on electric lamps.

Single copy price: \$360.00

Obtain an electronic copy from: Mat_clark@nema.org

Order from: Randolph Roy, NEMA (ASC C81); ran_roy@nema.org

Send comments (with copy to BSR) to: Same

BSR/ANSLG C81.62-200x, Lampholders for Electric Lamps (revision of ANSI C81.62-2006)

This document sets forth the specifications for lampholders for electric lamps.

Single copy price: \$300.00

Obtain an electronic copy from: Mat_clark@nema.org

Order from: Randolph Roy, NEMA (ASC C81); ran_roy@nema.org

Send comments (with copy to BSR) to: Same

BSR/ANSLG C81.63-200x, Gauges for Electric Lamp Bases and Gauges for Electric Lamp Bases and Lampholders (revision of ANSI C81.63-2006)

This document sets forth the specifications for gauges for bases (caps) and lampholders for electric lamps.

Single copy price: \$430.00

Obtain an electronic copy from: Mat_clark@nema.org

Order from: Randolph Roy, NEMA (ASC C81); ran_roy@nema.org

Send comments (with copy to BSR) to: Same

SIA (Security Industry Association)

New Standards

BSR/SIA OSIPS-01-200x, Open, Systems Integration and Performance Standards - Framework (new standard)

The OSIPS Framework defines how security components may interoperate with other security components. It is used to communicate over any transport mechanism. The transmission of messages across various transport mechanisms permit common messaging with co-operating devices to interoperate. The Framework is six interfaces and additional fundamental elements that define the elements that are shared among all OSIPS interface models. They are

- Component Connection;
- Capabilities Exchange;
- Event Reporting;
- Authentication and Authorization;
- IO Point; and
- Schedule Exchange.

Single copy price: N/A

Obtain an electronic copy from:

http://www.siaonline.org/standards/pan/OSIPS_01_200x_20070813_doc.zip

Order from: Monica Vago, SIA; mvago@siaonline.org

Send comments (with copy to BSR) to: Same

UL (Underwriters Laboratories, Inc.)

New Standards

BSR/UL 123-200x, Standard for Oxy-Fuel Gas Torches (new standard)

Covers oxy-fuel gas torches used in operations such as welding, cutting, heating, scarfing, powder cutting, or other allied processes.

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 BSR) to: Marcia Kawate, UL-CA, Marcia.M.Kawate@us.ul.com

New National Adoptions

BSR/UL 60947-5-1-200x, Standard for Safety for Low-Voltage Switchgear and Controlgear - Part 5-1: Control Circuit Devices and Switching Elements - Electromechanical Control Circuit Devices (national adoption with modifications of IEC 60947-5-1)

Harmonizes as far as practical all rules and requirements applicable to control circuit devices and switching elements in order to obtain uniformity of requirements and tests throughout the corresponding range of equipment and to avoid the need for testing to different standards. This standard is intended to be used in conjunction with the Standard for Safety for Low-Voltage Switchgear and Controlgear - Part 1: General Rules, UL 60947-1, where applicable.

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 BSR) to: Warren Casper, UL-NC; Warren.Casper@us.ul.com

Revisions

BSR/UL 10B-200x, Standard for Safety for Fire Tests of Door Assemblies (revision of ANSI/UL 10B-2001)

- (1) Revises the location of furnace thermocouples during the fire test;
- (2) Revises the frequency of recording furnace temperatures;
- (3) Revises the frequency of recording unexposed surface temperatures;
- (4) Removes references to asbestos and updates source for refractory material;
- (5) Revises the application of the hose stream;
- (6) Clarifies the acceptance criteria for the hose stream test; and
- (7) Deletes the scope paragraph and clarifies the reference to the standard.

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 BSR) to: Elizabeth H. Sheppard, UL-IL; Elizabeth.H.Sheppard@us.ul.com

Comment Deadline: October 23, 2007

Reaffirmations and withdrawals available electronically may be accessed at: webstore.ansi.org

ASME (American Society of Mechanical Engineers)

New Standards

BSR/ASME A17.6-200x, Standard for Elevator Suspension, Compensation and Governor Systems (new standard)

Covers the means and members of suspension, compensation and governor systems for elevators within the Scope of ASME A17.1. This Standard includes the material properties, design, testing, inspection, and replacement criteria for these means. It includes the requirements for Steel Wire Rope, Aramid Fiber Rope and Elastomeric Coated Steel Belts and provides direction for future constructions as new technology develops.

Single copy price: \$40.00

Obtain an electronic copy from: <http://cstools.asme.org/publicreview>

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

Send comments (with copy to BSR) to: Eun Sil Yoo, ASME; choe@asme.org

Revisions

BSR/ASME B107.37-200x, Pliers: Wire Cutters/Strippers (revision of ANSI/ASME B107.37-2003)

Provides performance and safety requirements for wire strippers, and the cutting and stripping functions of multi-purpose tools, for use on solid and stranded copper wire. Inclusion of dimensional data in this Standard does not mean that all pliers described herein are stock production sizes. Consumers should consult with the manufacturers concerning lists of stock production sizes.

Single copy price: \$20.00

Obtain an electronic copy from: <http://cstools.asme.org/publicreview>

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

Send comments (with copy to BSR) to: Jack Karian, ASME; karianj@asme.org

BSR/ASME B107.58-200x, Riveting, Scaling, and Tinner's Setting Hammers (revision and redesignation of ANSI/ASME B107.58M-1998 (R2005))

Provides performance and safety requirements for riveting, scaling, and tinner's setting hammers that are used in specific applications.

Single copy price: \$20.00

Obtain an electronic copy from: <http://cstools.asme.org/publicreview>

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

Send comments (with copy to BSR) to: Jack Karian, ASME; karianj@asme.org

EIA (Electronic Industries Alliance)**Revisions**

BSR/EIA 364-105-A-200x, Altitude - Low Temperature Test Procedure for Electrical Connectors (revision of ANSI/EIA 364-105-1999)

Establishes a test method to simulate actual service usage by inducing low temperatures and applying the test voltage at simulated altitudes.

Single copy price: \$57.00

Obtain an electronic copy from: global@ihs.com

Order from: Global Engineering Documents; <http://global.ihs.com>

Send comments (with copy to BSR) to: Cecelia Yates, EIA; cyates@eca.us.org

IEEE (Institute of Electrical and Electronics Engineers)**Revisions**

BSR/IEEE 802.11-200x, LAN/MAN - Specific Requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications (revision of ANSI/IEEE 802.11-1999 (R2003), 802.11a, 802.11b, 802.11b/Cor1, 802.11d, 802.11e, 802.11g, 802.11h, 802.11i, and 802.11j)

Revises and consolidates ANSI/IEEE 802.11-1999 (R2003), 802.11a, 802.11b, 802.11b/Cor1, 802.11d, 802.11e, 802.11g, 802.11h, 802.11i, and 802.11j.

Single copy price: N/A

Order from: IEEE Customer Service - phone: +1-800-678-4333; fax: +1-732-981-9667; online: <http://shop.ieee.org/ieeestore/>

Send comments (with copy to BSR) to: David Ringle, IEEE; d.ringle@ieee.org

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:

API (American Petroleum Institute)

ANSI/API 676-1992, Positive Displacement Pumps - Rotary (withdrawal of ANSI/API 676-1992)

BSR/API 9B-200x, Specification for Wire Rope (11th Edition) (new standard)

BSR/API 552-199x, Transmission Systems (new standard)

BSR/API 589-199x, Fire Test for Evaluation of Valve Stem Packing (revision of ANSI/API 589-1993)

BSR/API 602-199x, Compact Steel Gate Valves (new standard)

BSR/API 611-199x, General Purpose Steam Turbines for Petroleum, Chemical and Gas Industry Services (revision of ANSI/API 611-1988)

BSR/API 618-199x, Reciprocating Compressors for General Refinery Services (revision of ANSI/API 618-1992)

BSR/API 650-200x, Welded Steel Tanks for Oil Storage (Tenth Edition, Including Addendum 1) (revision of ANSI/API 650-1992)

BSR/API 650-200x, Welded Steel Tanks for Oil Storage (new standard)

BSR/API 653-200x, Tank Inspection, Repair, Alteration, and Reconstruction (new standard)

BSR/API 675-199x, Positive Displacement Pumps - Controlled Volume (new standard)

BSR/API 676-199x, Positive Displacement Pumps - Rotary (revision of ANSI/API 676-1992)

BSR/API 684-199x, Rotor Dynamics and Balancing (new standard)

BSR/API 1542-199x, Airport Equipment Marking for Fuel Identification (new standard)

BSR/API 2510-1996, Design and Construction of LPG Installations (revision of ANSI/API 2510-1996)

BSR/API 620, 10th Edition, Design and Construction of Large, Welded, Low-Pressure Storage Tanks (new standard)

BSR/API MPMS 2.2D-2003, Calibration of Upright Cylindrical Tanks Using the Internal Electro-Optical Distance-Ranging Method (identical national adoption of ISO 7507-4:1995(E))

BSR/API RP-14F-xx-200x, Design and Installation of Electrical Systems for Offshore Production Platforms (revision of ANSI/API RP 14F-1991)

BSR/API RP-4G-1993, Maintenance and Use of Drilling and Well Servicing Structures (reaffirmation and redesignation of ANSI/API RP 4G-1993)

BSR/API RP-43-1998, Recommended Practice for Evaluation of Well Perforators (new standard)

BSR/API RP-531M-xx-200x, Measurement of Noise from Fired Process Heaters (new standard)

BSR/API RP-540-199x, Electrical Installations at Petroleum Facilities (new standard)

Correction

Incorrect Attachment

In the Call-for-Comment section of the August 17, 2007 issue of Standards Action, BSR/UL 879-200x was accidentally linked to the wrong attachment. The correct attachment appears on [page 22](#) of this week's Standards Action.

BSR/API RP-554-199x, Process Instrumentation and Control (new standard)

BSR/API RP-556-199x, Fired Heaters and Steam Generators (new standard)

BSR/API RP-1110-199x, Pressure Testing of Liquid Petroleum Pipelines (new standard)

BSR/API RP-1111-199x, Design, Construction, Operation and Maintenance of Offshore Hydrocarbon Pipelines (new standard)

★ BSR/API RP-1112-199x, Developing a Highway Emergency Response Plan for Incidents Involving Hazardous Materials (new standard)

BSR/API RP-1117-199x, Movement of In-Service Pipelines (new standard)

BSR/API RP-11S2-1998, Recommended Practice for Electric Submersible Pump Testing (new standard)

BSR/API RP-1129-199x, Assurance of Hazardous Liquid Pipeline System Integrity (new standard)

BSR/API RP-1133-199x, Design, Construction, Operation and Maintenance of Onshore Hydrocarbon Pipelines Crossing Floodplains (new standard)

BSR/API RP-11V6-1998, Design of Continuous Flow Gas Lift Installations Using Injection Pressure Operated Valves (reaffirmation of ANSI/API RP 11V6-1992)

BSR/API RP-1525-199x, Bulk Oil Handling (new standard)

BSR/API RP-1631-199x, Interior Lining of Underground Storage Tanks (new standard)

BSR/API RP-1633-199x, Handling Water Discharges from Automotive Service Facilities Located at Petroleum Marketing Operations (new standard)

BSR/API RP 13B-2/ISO 10414-2-200x, Standard Procedure for Field Testing Oil-Based Drilling Fluids (identical national adoption of ISO 10414-2)

BSR/API RP 579-200x, Fitness-for-Service (revision of ANSI/API RP 579-2000)

BSR/API RP651-200x, Cathodic Protection of Aboveground Petroleum Storage Tanks (new standard)

BSR/API RP 1123-200x, Development of Public Awareness Programs by Pipeline Operators (new standard)

BSR/API RP 1646-200x, Safety Practices for Service Station Contractors (new standard)

BSR/API Spec 4F-200x, Specification for Drilling and Well Servicing Structures (identical national adoption of ISO 13636)

BSR/API Spec 16D-200x, Control Systems for Drilling Well Control Equipment (revision of ANSI/API Spec 16D-1993)

BSR/API Spec 16C-200x, Specification for Choke and Kill Systems (revision of ANSI/API Spec 16C-1993 (R2001))

Call for Comment Contact Information

The addresses listed in this section are to be used in conjunction with standards listed in Call for Comment. This section is a list of developers who have submitted standards for public review in this issue of *Standards Action* – it is not intended to be a list of all ANSI developers. Please send all address corrections to: Standards Action Editor, American National Standards Institute, 25 West 43rd Street, New York, NY 10036 or standact@ansi.org.

Order from:

API (Organization)

American Petroleum Institute
1220 L Street, N.W.
Washington, DC 20005
Phone: (202) 682-8565
Fax: (202) 962-4797
Web: www.api.org

ASME

American Society of Mechanical
Engineers
3 Park Avenue, 20th Floor (20N2)
New York, NY 10016
Phone: (212) 591-8521
Fax: (212) 591-8501
Web: www.asme.org

AWS

American Welding Society
550 N.W. LeJeune Road
Miami, FL 33126
Phone: (800) 443-9353 x451
Fax: (800) 443-5951
Web: www.aws.org

comm2000

1414 Brook Drive
Downers Grove, IL 60515

Global Engineering Documents

Global Engineering Documents
15 Inverness Way East
Englewood, CO 80112-5704
Phone: (800) 854-7179
Fax: (303) 379-2740

IEEE

Institute of Electrical and
Electronics Engineers (IEEE)
445 Hoes Lane, P.O.Box 1331
Piscataway, NJ 08855-1331
Phone: (732) 562-3806
Fax: (732) 796-6966
Web: www.ieee.org

NALFA

North American Laminate Flooring
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1747 Pennsylvania Avenue N.W.
Suite 1000
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NEMA (ASC C82)

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Association (ASC C82)
1300 North 17th Street, Suite 1847
Rosslyn, VA 22209
Phone: (703) 841-3277
Fax: (703) 841-3377
Web: www.nema.org

SIA

Security Industry Association
635 Slaters Lane, Suite 110
Alexandria, VA 22307
Phone: 703-683-0393
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Web: www.siaonline.org

Send comments to:

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ASME

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Web: www.asme.org

AWS

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Web: www.aws.org

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UL-CA

Underwriters Laboratories, Inc.
455 E Trimble Road
San Jose, CA 95131-1230
Phone: (408) 754-6500
Fax: (408) 689-6500

UL-NC

Underwriters Laboratories, Inc.
12 Laboratory Drive
Research Triangle Park, NC
27709-3995
Phone: (919) -549-1543
Fax: (919) 547-6185

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.

AFPA (American Forest & Paper Association)

New Standards

ANSI/AF&PA PWF-2007, Permanent Wood Foundation Design Specification (new standard): 8/7/2007

ASTM (ASTM International)

New Standards

ANSI/ASTM F2569-2007, Test Method for Evaluating the Force Reduction Properties of Surfaces for Athletic Use (new standard): 5/22/2007

Reaffirmations

ANSI/ASTM D1662-1992 (R2007), Test Method for Active Sulfur in Cutting Oils (reaffirmation of ANSI/ASTM D1662-1992 (R2002)): 5/22/2007

ANSI/ASTM D2711-2001a (R2007), Test Method for Demulsibility Characteristics of Lubricating Oils (reaffirmation of ANSI/ASTM D2711-2001a): 5/22/2007

Revisions

ANSI/ASTM D156-2007, Test Method for Saybolt Color of Petroleum Products Saybolt Chromometer Method (revision of ANSI/ASTM D156-2002): 5/22/2007

ANSI/ASTM D2622-2007, Test Method for Sulfur in Petroleum Products by Wavelength Dispersive X-ray Fluorescence Spectrometry (revision of ANSI/ASTM D2622-2005): 5/22/2007

ANSI/ASTM D6304-2007, Test Method for Determination of Water in Petroleum Products, Lubricating Oils, and Additives by Coulometric Karl Fischer Titration (revision of ANSI/ASTM D6304-2004): 5/22/2007

ANSI/ASTM F1045-2007, Performance Specification for Ice Hockey Helmets (revision of ANSI/ASTM F1045-2005): 5/22/2007

AWWA (American Water Works Association)

Revisions

ANSI/AWWA C205-2007, Cement-Mortar Protective Lining and Coating for Steel Water Pipe - 4 In. (100 mm) and Larger - Shop Applied (revision of ANSI/AWWA C205a-1996): 8/2/2007

BIFMA (Business and Institutional Furniture Manufacturers Association)

New Standards

ANSI/BIFMA X7.1-2007, Standard for Formaldehyde and TVOC Emissions of Low-Emitting Office Furniture Systems and Seating (new standard): 8/2/2007

HPS (ASC N43) (Health Physics Society)

Revisions

ANSI N43.6-2007, Sealed Radioactive Sources - Classification (revision of ANSI N43.6-1997): 8/9/2007

IEEE (Institute of Electrical and Electronics Engineers)

Addenda

ANSI/IEEE 802.16k-2007, Standard for Local and Metropolitan Area Networks: Media Access Control (MAC) Bridges - Amendment 2: Bridging of IEEE 802.16 (addenda to ANSI/IEEE 802.16-2004): 8/9/2007

ANSI/IEEE 1015/Cor1-2007, Recommended Practice for Applying Low Voltage Circuit Breakers Used in Industrial and Commercial Power Systems - Corrigendum 1 (addenda to ANSI/IEEE 1015-2006): 8/9/2007

New Standards

ANSI/IEEE 1451.0-2007, Standard for a Smart Transducer Interface for Sensors and Actuators - Common Functions, Communication Protocols, and Transducer Electronic Data Sheet (TEDS) Formats (new standard): 8/9/2007

ANSI/IEEE C37.45-2007, Standard Specifications for High Voltage Distribution Class Enclosed Single-Pole Air Switches with Rated Voltages from 1 through 8.3 kV (new standard): 8/9/2007

ANSI/IEEE C37.232-2007, Recommended Practice for Naming Time Sequence Data Files (new standard): 8/9/2007

ANSI/IEEE C57.127-2007, Guide for the Detection and Location of Acoustic Emissions from Partial Discharges in Oil-Immersed Power Transformers and Reactors (new standard): 8/9/2007

Reaffirmations

ANSI/IEEE 308-2001 (R2007), Standard Criteria for Class 1E Power Systems for Nuclear Power Generating Stations (reaffirmation of ANSI/IEEE 308-2001): 8/9/2007

ANSI/IEEE 528-2001 (R2007), Standard for Inertial Sensor Terminology (reaffirmation of ANSI/IEEE 528-2001): 8/9/2007

ANSI/IEEE 1205-2000 (R2007), Guide for Assessing, Monitoring, and Mitigating Aging Effects on Class 1E Equipment Used in Nuclear Power Generating Stations (reaffirmation of ANSI/IEEE 1205-2000): 8/9/2007

ANSI/IEEE C37.083-1999 (R2007), Guide for Synthetic Capacitive Current Switching Tests of AC High-Voltage Circuit Breakers (reaffirmation of ANSI/IEEE C37.083-1999): 8/9/2007

Revisions

ANSI/IEEE 937-2007, Recommended Practice for Installation and Maintenance of Lead-Acid Batteries for Photovoltaic (PV) Systems (revision of ANSI/IEEE 937-2000): 8/9/2007

ANSI/IEEE 1013-2007, Recommended Practice for Sizing Lead-Acid Batteries for Stand-Alone Photovoltaic (PV) Systems (revision of ANSI/IEEE 1013-2000): 8/9/2007

ANSI/IEEE C37.102-2006, Guide for AC Generator Protection (revision of ANSI/IEEE C37.102-1997 (R2001)): 8/14/2007

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

New Standards

ANSI INCITS 427-2007, Information technology - Fibre Channel - Generic Services - 5 (FC-GS-5) (new standard): 8/10/2007

ANSI INCITS 430-2007, Information technology - Multi-Media Commands - 5 (MMC-5) (new standard): 8/9/2007

ANSI INCITS 431-2007, Information technology - SCSI/ATA
Translation (SAT) (new standard): 8/9/2007

ANSI INCITS 432-2007, Information technology - Fabric Application
Interface Standard (FAIS) (new standard): 8/9/2007

Supplements

ANSI INCITS 424/Amendment 1-2007, Information Technology - Fibre
Channel Framing and Signaling - 2 - Amendment 1 (FC-FS-2/AM 1)
(supplement to ANSI INCITS 424-2007): 8/9/2007

NCPDP (National Council for Prescription Drug Programs)

Revisions

ANSI/NCPDP TC VD.0-2007, Telecommunication Standard Version
D.0 (revision and redesignation of ANSI/NCPDP TC VC.4-2007):
8/7/2007

NFPA (National Fire Protection Association)

Revisions

ANSI/NFPA 12-2008, Standard on Carbon Dioxide Extinguishing
Systems (revision of ANSI/NFPA 12-2005): 8/15/2007

ANSI/NFPA 25-2008, Standard for the Inspection, Testing, and
Maintenance of Water-Based Fire Protection Systems (revision of
ANSI/NFPA 25-2002): 8/15/2007

ANSI/NFPA 30-2008, Flammable and Combustible Liquids Code
(revision of ANSI/NFPA 30-2003): 8/15/2007

ANSI/NFPA 58-2008, Liquefied Petroleum Gas Code (revision of
ANSI/NFPA 58-2004): 8/15/2007

ANSI/NFPA 70-2008, National Electrical Code® (revision of
ANSI/NFPA 70-2005): 8/15/2007

ANSI/NFPA 96-2008, Standard for Ventilation Control and Fire
Protection of Commercial Cooking Operations (revision of
ANSI/NFPA 96-2004): 8/15/2007

ANSI/NFPA 301-2008, Code for Safety to Life from Fire on Merchant
Vessels (revision of ANSI/NFPA 301-2001): 8/15/2007

ANSI/NFPA 415-2008, Standard on Airport Terminal Buildings, Fueling
Ramp Drainage, and Loading Walkways (revision of ANSI/NFPA
415-2002): 8/15/2007

ANSI/NFPA 780-2008, Standard for the Installation of Lightning
Protection Systems (revision of ANSI/NFPA 780-2004): 8/15/2007

ANSI/NFPA 2001-2008, Standard on Clean Agent Fire Extinguishing
Systems (revision of ANSI/NFPA 2001-2004): 8/15/2007

NSC (National Safety Council)

New Standards

- ★ ANSI/NSC D16.1-2007, Manual on Classification of Motor Vehicle
Traffic Accidents, Sixth Edition (new standard): 8/2/2007

TIA (Telecommunications Industry Association)

Addenda

ANSI/TIA 102-AABC-B-2-2007, Project 25 Trunking Control Channel
Messages - Addendum - ISSI (addenda to ANSI/TIA
102.AABC-B-2005): 8/9/2007

Supplements

ANSI/TIA 568-B.2-7-2007, Reliability Requirements for Connecting
Hardware used in Balanced Twisted-Pair Cabling (supplement to
ANSI/TIA 568-B.2-2001): 8/2/2007

UL (Underwriters Laboratories, Inc.)

Revisions

ANSI/UL 514A-2007, Standard for Safety for Metallic Outlet Boxes
(revision of ANSI/UL 514A-2004): 8/10/2007

ANSI/UL 982-2007, Standard for Safety for Motor-Operated Household
Food Preparing Machines (revision of ANSI/UL 982-2004):
8/10/2007

- ★ ANSI/UL 1086-2007, Standard for Safety for Household Trash
Compactors (revision of ANSI/UL 1086-2005): 8/8/2007

Project Initiation Notification System (PINS)

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

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

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

API (American Petroleum Institute)

Office: 1220 L Street, N.W.
Washington, DC 20005

Contact: *Carriann Kuryla*

Fax: (202) 962-4797

E-mail: kurylac@api.org

BSR/API Spec 7-1 Addenda-200x, Specification for Rotary Drill Stem Elements (addenda to ANSI/API Spec 7-1-2006)

Stakeholders: Drill stem element users.

Project Need: To revise the section on non-magnetic drill collars.

Defines the design and the mechanical properties of the material required for rotary drill stem elements.

ASC X9 (Accredited Standards Committee X9, Incorporated)

Office: 1212 West Street, Suite 200
Annapolis, MD 21401

Contact: *Janet Busch*

Fax: (410) 267-0961

E-mail: janet.busch@x9.org

BSR X9.110-200x, Transfer of Location of Electronic Contracts (new standard)

Stakeholders: Financial services industry.

Project Need: To develop an authoritative source that defines the broad constraints and standards of the process for selling and purchasing electronic contracts (prime auto loans).

Describes a method of transfer for electronic contracts, or electronic records between two disparate Electronic Vaults, across a private or public network. The methods and approach described in this standard prescribe the requirements necessary to maintain compliance with legislation for Electronic Chattel Paper, defined in revised UCC Article 9, Section 105.

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

Office: 1791 Tullie Circle NE
Atlanta, GA 30329

Contact: *Stephanie Reiniche*

E-mail: sreiniche@ashrae.org;
cramspeck@ashrae.org; RBarnes@ashrae.org

BSR/ASHRAE STANDARD 32.1-200x, Methods of Testing for Rating Vending Machines for Bottled, Canned and Other Sealed Beverages (revision of ANSI/ASHRAE 32.1-2004)

Stakeholders: Manufacturers, testing laboratories.

Project Need: To specify methods of testing for rating the capacity and efficiency of self-contained, mechanically refrigerated vending machines for bottled, canned, or other sealed beverages.

This standard:

- defines standard bottled, canned, or other sealed beverage storage capacity;
- establishes uniform methods of testing for determining laboratory performance of vending machines for bottled, canned, or other sealed beverages;
- lists and defines the terms used in the methods of testing; and
- establishes test conditions for rating.

BSR/ASHRAE Standard 119-200x, Air Leakage Performance for Detached Single-Family Residential Buildings (revision of ANSI/ASHRAE 119-1988 (R2004))

Stakeholders: Homebuilders, home energy raters, weatherization programs.

Project Need: To establish performance requirements for air leakage of residential buildings to reduce the air infiltration load.

Sets upper limits of leakage area and provides a method of classifying air tightness for detached, single-family residential buildings.

BSR/ASHRAE Standard 129-200x, Measure Air-Change Effectiveness (revision of ANSI/ASHRAE 129-1997 (R2002))

Stakeholders: Design engineers.

Project Need: To prescribe a method for measuring air-change effectiveness in mechanically ventilated spaces and buildings that meet specified criteria.

Compares the age of air where occupants breathe to the age of air that would occur throughout the test space if the indoor air were perfectly mixed. The standard includes measurement procedures and criteria for assessing the suitability of the test space for measurements of air-change effectiveness.

ESTA (Entertainment Services and Technology Association)

Office: 875 Sixth Avenue, Suite 1005
New York, NY 10001

Contact: Karl Ruling

Fax: (212) 244-1502

E-mail: kruling@esta.org

BSR E1.11-200x, Entertainment Technology - USITT DMX512-A, Asynchronous Serial Digital Data Transmission Standard for Controlling Lighting Equipment and Accessories (revision of ANSI E1.11-2004)

Stakeholders: Entertainment lighting manufacturers and designers, consultants and equipment specifiers.

Project Need: To correct errors in the published standard and to clarify requirements that have proven to be confusing.

Describes a protocol for transmitting digital data used to control entertainment lighting equipment and accessories. Entertainment lighting equipment and accessories includes, but is not limited to,

- dimmers;
- robotic luminaires;
- color changers;
- robotic mirrors;
- dousers;
- color wheels;
- motion effects wheels; and
- pattern rotators.

The protocol is not intended to be used to control equipment where injury to people or damage to property could result.

GEI (Greenguard Environmental Institute)

Office: 1341 Capital Circle Suite A
Marietta, GA 30067

Contact: Ethleen Howell

Fax: (770) 980-0072

E-mail: ehowell@greenguard.org

BSR/GEI Electronic Office Equipment Sustainability Performance-200x, A standard for the sustainability of electronic office equipment products and applications (new standard)

Stakeholders: Electronic office equipment manufacturers, distributors, suppliers, purchasers, specifiers and users.

Project Need: Studies continue to demonstrate that electronic office products such as computers, scanners, printers and copiers can adversely affect the environment, based on their raw materials, manufacturing processes, chemical emissions and disposal, which ultimately affects human health.

Describes the sustainability of electronic office equipment, including printers, copiers, scanners, multifunction devices, computers, faxes, servers, appliances, and the consumables used to operate them. Sustainability measures span the environmental impacts of products' lifecycle including raw material acquisition, manufacturing, use, maintenance, recyclability, and ultimate disposal.

NEMA (ASC C18) (National Electrical Manufacturers Association)

Office: 1300 North 17th Street, Suite 1752
Rosslyn, VA 22209

Contact: Eric Schweitzer

Fax: (703) 841-3376

E-mail: Eric.Schweitzer@NEMA.org

BSR C18.3M, Part 1-200x, Portable Lithium Primary Cells and Batteries - General and Specifications (revision of ANSI C18.3M, Part 1-2005)

Stakeholders: Manufacturers, users/consumers, general interest parties.

Project Need: This standard was last revised in 2005 and has been in the process of revision to include chemistries and newer dimensions for portable lithium primary cells and batteries.

This edition of an American National Standard for Portable Lithium Primary Cells and Batteries is based in part on the previous American National Standard for Lithium Primary Cells and Batteries-General and Specifications, ANSI C18.3M-2005, and recognizes the work of the International Electrotechnical Commission (refer to IEC Publications 60086-1 and 60086-2) in establishing world-wide standard requirements for portable lithium primary batteries. This edition includes three chemistries: Lithium/carbon monofluoride, Lithium/manganese dioxide, and Lithium/iron disulfide. After review, some select performance tests and dimensions were revised or added.

BSR C18.3M, Part 2-200x, Portable Lithium Primary Cells and Batteries - Safety Standard (revision of ANSI C18.3M, Part 2-2004)

Stakeholders: Manufacturers, users/consumers, general interest parties.

Project Need: This standard was last revised in 2003 and has been in the process of revision to include new safety tests such as Partial Use and Mechanical Shock.

Specifies tests and requirements for portable primary lithium cells and batteries, both the chemical systems and the types covered in ANSI C18.3M, Part 1, to ensure their safe operation under normal use and reasonably foreseeable misuse. For reference, the chemical systems standardized in ANSI C18.3M, Part 1 are: Lithium/carbon monofluoride, Lithium/manganese dioxide, and Lithium/iron disulfide.

NEMA (ASC C78) (National Electrical Manufacturers Association)

Office: 1300 North 17th Street, Suite 1847
Rosslyn, VA 22209

Contact: Matt Clark

E-mail: Mat_clark@nema.org; ran_roy@nema.org

BSR C78.375-1997 (R200x), Guide for Electrical Measurements (reaffirmation of ANSI C78.375-1997 (R2003))

Stakeholders: Manufacturers.

Project Need: This project is needed as a reaffirmation.

Describes the procedures to be followed and the precautions to be observed in obtaining uniform and reproducible measurements of the electrical characteristics of fluorescent lamps under standard conditions when operated on alternating current (AC) circuits.

NEMA (ASC C78) (National Electrical Manufacturers Association)

Office: 1300 North 17th Street, Suite 1847
Rosslyn, VA 22209

Contact: Randolph Roy

Fax: (703) 841-3377

E-mail: ran_roy@nema.org; Mat_clark@nema.org

BSR C78.180-2003 (R200x), Specifications for Fluorescent Lamp Starters (reaffirmation of ANSI C78.180-2003)

Stakeholders: Manufacturers.

Project Need: This project is needed as a reaffirmation.

Covers performance of glow switch starters used with preheat-type fluorescent and similar discharge lamps. It does not include starters that are an integral part of a lamp or manually operated switches that may be used for lamp starting.

NFSI (National Floor Safety Institute)

Office: P.O. Box 92607
Southlake, TX 76092

Contact: *Russell Kendzior*

Fax: (817) 749-1702

E-mail: russk@nfsi.org; laurac@nfsi.org

BSR/NFSI B101.2-200x, Test Method for Measuring the Wet SCOF of Chemical Treatments and Cleaning Compounds as used on Common Hard-Surface Flooring Materials (new standard)

Stakeholders: General public, consumers, leisure/recreational, commercial, mercantile, household, and manufacturers.

Project Need: To provide a measurement procedure setting forth traction ranges, which facilitates remediation of walkway surfaces, when warranted.

Specifies the procedures and devices used for both laboratory and field testing to measure the impact on wet static coefficient of friction (SCOF) for various chemical walkway surface treatments and cleaning compounds.

BSR/NFSI B101.3-200x, Test Method for Measuring Wet DCOF of Common Hard-Surface Floor Materials (new standard)

Stakeholders: General public, consumers, leisure/recreational, commercial, mercantile, household, and manufacturers.

Project Need: To provide a test measurement procedure setting forth traction ranges, which facilitates remediation of walkway surfaces, when warranted.

Specifies the procedures and devices used for both laboratory and field testing to measure the wet dynamic coefficient of friction (DCOF) on common walkway surfaces.

BSR/NFSI B101.4-200x, Test Method for Measuring the Wet Barefoot Condition of Flooring Materials or Products (new standard)

Stakeholders: General public, consumers, leisure/recreational, commercial, mercantile, household, and manufacturers.

Project Need: To provide a measurement procedure setting forth slip resistance ranges, which facilitates remediation of walkway surfaces, when warranted.

Specifies the testing procedures and devices used for both laboratory and field testing to measure wet barefoot slip resistance and to establish a product specification for flooring materials or products that are designed to be used under wet barefoot conditions (i.e., bathing areas, swimming pool decks, boat decks, etc.).

BSR/NFSI B101.5-200x, Uniform Product Labeling Guideline for Floor Coverings, Coatings, Cleaning Agents and Treatments (new standard)

Stakeholders: General public, consumers, leisure/recreational, commercial, mercantile, household, and manufacturers.

Project Need: To create a uniform product label identifying the products slip resistance, which will assist the consumers in their buying decision.

Develops a uniform product labeling method that will identify the wet slip resistance (traction) of floor coverings, coatings, cleaning agents, and treatments.

NSF (NSF International)

Office: P.O. Box 130140
789 N. Dixboro Road
Ann Arbor, MI 48113-0140

Contact: *Lorna Badman*

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E-mail: badman@nsf.org;durbin@nsf.org

BSR/NSF 247-200x, Restaurant and Supermarket Food Safety and Quality (new standard)

Stakeholders: Food service industries; federal, state, and local regulatory and public health officials; consumers.

Project Need: A national standard for food safety practices in the restaurant and supermarket industries does not currently exist.

Encourages food service facilities to achieve the best practices in food safety, food quality, and risk management. The Standard shall increase minimum acceptable practices for the food service industry and recognize improved food safety and risk management practices.

TIA (Telecommunications Industry Association)

Office: 2500 Wilson Blvd., Suite 300
Arlington, VA 22201

Contact: *Marianna Kramarikova*

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E-mail: mkramarikova@tiaonline.org

BSR/TIA 455-56C-200x, Test method for evaluating fungus resistance of optical fiber and cable (revision of ANSI/TIA 455-56B-1995 (R1999))

Stakeholders: Telecommunications Industry Association.

Project Need: To add a preferred procedure for US Military applications as requested by US Navy.

Add a preferred procedure for US Military applications. Requested by US Navy.

American National Standards Maintained Under Continuous Maintenance

The ANSI Essential Requirements: Due Process Requirements for American National Standards provide 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 □□□□
- AAMVA □□□□
- AGA □□□□
- AGRSS, Inc □□□□
- ASHRAE □□□□
- ASME □□□□
- ASTM □□□□
- MHI (ASC MH10) □□□□
- NBBPVI □□□□
- NCPDP □□□□
- NSF International □□□□
- TIA □□□□
- Underwriters Laboratories, Inc. (UL) □□□□

To obtain additional information with regard to these standards, such as contact information at the ANSI accredited standards developer, please visit ANSI Online at www.ansi.org, select Internet Resources, click on "Standards Information," and see "American National Standards Maintained Under Continuous Maintenance". This information is also available directly at www.ansi.org/publicreview.

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

ISO and 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 Henrietta Scully at ANSI's New York offices, those regarding IEC documents to Charles T. Zegers, also at ANSI New York offices. The final date for offering comments is listed after each draft.

Ordering Instructions

ISO and IEC Drafts can be made available via ANSI's ESS "on-demand" service. Please e-mail your request for an ISO or IEC Draft to Customer Service at sales@ansi.org. The document will be posted to the ESS within 3 working days of the request. When making your request, please provide the date of the Standards Action issue in which the draft document you are requesting appears.

ISO Standards

AIRCRAFT AND SPACE VEHICLES (TC 20)

ISO/DIS 27025, Space systems - Programme management - Quality assurance requirements - 11/22/2007, \$119.00

ANAESTHETIC AND RESPIRATORY EQUIPMENT (TC 121)

IEC/DIS 80601-2-30, Medical electrical equipment - Part 2-30: Particular requirements for basic safety and essential performance of non-invasive sphygnomanometers, automatic measurement type, \$107.00

HEALTH INFORMATICS (TC 215)

ISO/DIS 13606-2, Health informatics - Electronic health record communication - Part 2: Archetype interchange specification - 11/19/2007, \$175.00

PLASTICS PIPES, FITTINGS AND VALVES FOR THE TRANSPORT OF FLUIDS (TC 138)

ISO/DIS 11414, Plastics pipes and fittings - Preparation of polyethylene (PE) pipe/pipe or pipe/fitting test piece assemblies by butt fusion - 11/18/2007, \$46.00

QUANTITIES, UNITS, SYMBOLS, CONVERSION FACTORS (TC 12)

ISO/DIS 80000-9, Quantities and units - Part 9: Physical chemistry and molecular physics - 11/22/2007, \$107.00

ROAD VEHICLES (TC 22)

ISO/DIS 28981, Mopeds - Methods for setting the running resistance on a chassis dynamometer - 11/22/2007, \$93.00

22G/183/FDIS, IEC 61800-7-1: Adjustable speed electrical power drive systems - Part 7-1: Generic interface and use of profiles for power drive systems - Interface definition, 10/12/2007

22G/184/FDIS, IEC 61800-7-200: Adjustable speed electrical power drives systems - Part 7 200: Generic interface and use of profiles for power drive systems - Profile specifications, 10/12/2007

22G/185/FDIS, IEC 61800-7-300: Adjustable speed electrical power drives systems - Part 7 300: Generic interface and use of profiles for power drive systems - Mapping of profiles to network technologies, 10/12/2007

62A/576/FDIS, IEC 60601-1-10 Ed.1: Medical electrical equipment - Part 1-10: General requirements for basic safety and essential performance - Collateral Standard: Requirements for the development of physiologic closed-loop controllers, 10/12/2007

72/748/FDIS, IEC 60730-2-14 A2 Ed 1: Automatic controls for household and similar use - Part 2-14: Particular requirements for electric acutators, 10/12/2007

2/1461/FDIS, IEC 60034-3 Ed.6: Rotating electrical machines - Part 3: Specific requirements for synchronous generators driven by steam turbines or combustion gas turbines, 10/19/2007

26/362/FDIS, IEC 60974-2 Ed.2: Arc welding equipment - Part 2: Liquid cooling systems, 10/19/2007

26/363/FDIS, IEC 60974-3 Ed.2: Arc welding equipment - Part 3: Arc striking and stabilizing devices, 10/19/2007

26/364/FDIS, IEC 60974-5 Ed.2: Arc welding equipment - Part 5: Wire feeders, 10/19/2007

86A/1168/FDIS, IEC 60793-2 Ed. 6.0: Optical fibres - Part 2: Product specifications - General, 10/19/2007

105/152/FDIS, IEC 62282-3-3 Ed.1: Fuel cell technologies - Part 3-3: Stationary fuel cell power systems - Installation, 10/19/2007

112/74/FDIS, IEC 60085 Ed.4: Electrical insulation - Thermal Evaluation and designation, 10/19/2007

IEC Standards

62B/663/FDIS, Amendment 2 to IEC 60601-2-33: Medical electrical equipment - Part 2-33: Particular requirements for the safety of magnetic resonance equipment for medical diagnosis, 10/05/2007

77B/546/FDIS, IEC 61000-4-3 A1 Ed.3: Calibration of E-field probes, 10/05/2007

105/151/FDIS, IEC 62282-6-2 Ed.1: Fuel cell technologies - Part 6-2: Micro fuel cell power systems - Performance test methods, 10/05/2007

Newly Published ISO and IEC Standards



Listed here are new and revised standards recently approved and promulgated by ISO - the International Organization for Standardization – and IEC – the International Electrotechnical Commission. Most are available at the ANSI Electronic Standards Store (ESS) at www.ansi.org. All paper copies are available from Global Engineering Documents.

ISO Standards

AGRICULTURAL FOOD PRODUCTS (TC 34)

[ISO 6647-1:2007](#), Rice - Determination of amylose content - Part 1: Reference method, \$61.00

[ISO 6647-2:2007](#), Rice - Determination of amylose content - Part 2: Routine methods, \$61.00

AIRCRAFT AND SPACE VEHICLES (TC 20)

[ISO 22666:2007](#), Space data and information transfer systems - AOS (advanced orbiting systems) space data link protocol, \$150.00

ANAESTHETIC AND RESPIRATORY EQUIPMENT (TC 121)

[ISO 8835-2:2007](#), Inhalational anaesthesia systems - Part 2: Anaesthetic breathing systems, \$87.00

[ISO 8835-3:2007](#), Inhalational anaesthesia systems - Part 3: Transfer and receiving systems of active anaesthetic gas scavenging systems, \$87.00

EQUIPMENT FOR FIRE PROTECTION AND FIRE FIGHTING (TC 21)

[ISO 7240-8:2007](#), Fire detection and alarm systems - Part 8: Carbon monoxide fire detectors using an electro-chemical cell in combination with a heat sensor, \$124.00

[ISO 7240-19:2007](#), Fire detection and alarm systems - Part 19: Design, installation, commissioning and service of sound systems for emergency purposes, \$107.00

[ISO 14520-1/Cor1:2007](#), Gaseous fire-extinguishing systems - Physical properties and system design - Part 1: General requirements - Corrigendum, FREE

FLUID POWER SYSTEMS (TC 131)

[ISO 1179-1:2007](#), Connections for general use and fluid power - Ports and stud ends with ISO 228-1 threads with elastomeric or metal-to-metal sealing - Part 1: Threaded ports, \$41.00

[ISO 1179-2:2007](#), Connections for general use and fluid power - Ports and stud ends with ISO 228-1 threads with elastomeric or metal-to-metal sealing - Part 2: Heavy-duty (S series) and light-duty (L series) stud ends with elastomeric sealing (type E), \$54.00

[ISO 1179-3:2007](#), Connections for general use and fluid power - Ports and stud ends with ISO 228-1 threads with elastomeric or metal-to-metal sealing - Part 3: Light-duty (L series) stud ends with sealing by O-ring with retaining ring (types G and H), \$66.00

[ISO 1179-4:2007](#), Connections for general use and fluid power - Ports and stud ends with ISO 228-1 threads with elastomeric or metal-to-metal sealing - Part 4: Stud ends for general use only with metal-to-metal sealing (type B), \$48.00

GAS CYLINDERS (TC 58)

[ISO 11625:2007](#), Gas cylinders - Safe handling, \$66.00

INFORMATION AND DOCUMENTATION (TC 46)

[ISO 3297:2007](#), Information and documentation - International standard serial number (ISSN), \$82.00

MATERIALS, EQUIPMENT AND OFFSHORE STRUCTURES FOR PETROLEUM AND NATURAL GAS INDUSTRIES (TC 67)

[ISO 23251/Cor1:2007](#), Petroleum, petrochemical and natural gas industries - Pressure-relieving and depressuring systems - Corrigendum, FREE

OPTICS AND OPTICAL INSTRUMENTS (TC 172)

[ISO 15795/Cor1:2007](#), Optics and optical instruments - Quality evaluation of optical systems - Assessing the image quality degradation due to chromatic aberrations - Corrigendum, FREE

PUMPS (TC 115)

[ISO 21630:2007](#), Pumps - Testing - Submersible mixers for wastewater and similar applications, \$87.00

RUBBER AND RUBBER PRODUCTS (TC 45)

[ISO 13226/Cor1:2007](#), Rubber - Standard reference elastomers (SREs) for characterizing the effect of liquids on vulcanized rubbers - Corrigendum, FREE

SOIL QUALITY (TC 190)

[ISO 18512:2007](#), Soil quality - Guidance on long and short term storage of soil samples, \$71.00

TEXTILES (TC 38)

[ISO 105-X18:2007](#), Textiles - Tests for colour fastness - Part X18: Assessment of the potential to phenolic yellowing of materials, \$35.00

WATER QUALITY (TC 147)

[ISO 22743/Cor1:2007](#), Water quality - Determination of sulfates - Method by continuous flow analysis (CFA) - Corrigendum, FREE

ISO/IEC JTC 1, Information Technology

[ISO/IEC 14496-21/Cor1:2007](#), Information technology - Coding of audio-visual objects - Part 21: MPEG-J Graphics Framework eXtensions (GFX) - Corrigendum, FREE

[ISO/IEC 14888-3/Cor1:2007](#), Information technology - Security techniques - Digital signatures with appendix - Part 3: Certificate-based mechanisms - Corrigendum, FREE

[ISO/IEC 15444-6/Amd1:2007](#), Information technology - JPEG 2000 image coding system - Part 6: Compound image file format - Amendment 1: Hidden text metadata, \$124.00

[ISO/IEC 15444-12/Cor3:2007](#), Information technology - JPEG 2000 image coding system - Part 12: ISO base media file format - Corrigendum, FREE

[ISO/IEC 15938-3/Amd2/Cor1:2007](#), Information technology - Multimedia content description interface - Part 3: Visual - Amendment 2: Perceptual 3D Shape Descriptor - Corrigendum, FREE

[ISO/IEC 18033-3/Cor2:2007](#), Information technology - Security techniques - Encryption algorithms - Part 3: Block ciphers - Corrigendum, FREE

IEC Standards

AUDIO, VIDEO AND MULTIMEDIA SYSTEMS AND EQUIPMENT (TC 100)

[IEC 60728-4 Ed. 3.0 en:2007](#), Cable networks for television signals, sound signals and interactive services - Part 4: Passive wideband equipment for coaxial cable networks, \$110.00

[IEC 60728-5 Ed. 2.0 en:2007](#), Cable networks for television signals, sound signals and interactive services - Part 5: Headend equipment, \$201.00

ELECTRIC CABLES (TC 20)

[IEC/TR 62125 Ed. 1.0 b:2007](#), Environmental statement specific to IEC TC 20 - Electric cables, \$54.00

ELECTRICAL APPARATUS FOR EXPLOSIVE ATMOSPHERES (TC 31)

[IEC 60079-29-1 Ed. 1.0 b:2007](#), Explosive atmospheres - Part 29-1: Gas detectors - Performance requirements of detectors for flammable gases, \$139.00

ELECTRICAL EQUIPMENT IN MEDICAL PRACTICE (TC 62)

[IEC 60601-2-37 Ed. 2.0 b:2007](#), Medical electrical equipment - Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment, \$139.00

ELECTRICAL INSTALLATIONS OF BUILDINGS (TC 64)

[IEC 60364-4-44 Ed. 2.0 b:2007](#), Low-voltage electrical installations - Part 4-44: Protection for safety - Protection against voltage disturbances and electromagnetic disturbances, \$157.00

ELECTRICAL INSTALLATIONS OF SHIPS AND OF MOBILE AND FIXED OFFSHORE UNITS (TC 18)

[IEC 60092-501 Ed. 4.0 en:2007](#), Electrical installations in ships - Part 501: Special features - Electric propulsion plant, \$110.00

ELECTROSTATICS (TC 101)

[IEC/TR 61340-5-2 Ed. 1.0 b:2007](#), Electrostatics - Part 5-2: Protection of electronic devices from electrostatic phenomena - User guide, \$184.00

[IEC 61340-5-1 Ed. 1.0 b:2007](#), Electrostatics - Part 5-1: Protection of electronic devices from electrostatic phenomena - General requirements, \$76.00

FIBRE OPTICS (TC 86)

[IEC 60793-2-30 Ed. 2.0 b:2007](#), Optical fibres - Part 2-30: Product specifications - Sectional specification for category A3 multimode fibres, \$54.00

[IEC 60794-3-11 Ed. 1.0 b:2007](#), Optical fibre cables - Part 3-11: Outdoor cables - Detailed specification for duct and directly buried single-mode optical fibre telecommunication cables, \$101.00

METHODS FOR THE ASSESSMENT OF ELECTRIC, MAGNETIC AND ELECTROMAGNETIC FIELDS ASSOCIATED WITH HUMAN EXPOSURE (TC 106)

[IEC 62311 Ed. 1.0 b:2007](#), Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz), \$184.00

NUCLEAR INSTRUMENTATION (TC 45)

[IEC 61453 Ed. 2.0 b:2007](#), Nuclear instrumentation - Scintillation gamma ray detector systems for the assay of radionuclides - Calibration and routine tests, \$76.00

POWER SYSTEM CONTROL AND ASSOCIATED COMMUNICATIONS (TC 57)

[IEC 61850-SER Ed. 1.0 en:2007](#), Communication networks and systems in substations - All Parts, \$1894.00

[IEC 61850-7-410 Ed. 1.0 en:2007](#), Communication networks and systems for power utility automation - Part 7-410: Hydroelectric power plants - Communication for monitoring and control, \$201.00

[IEC 61970-404 Ed. 1.0 en:2007](#), Energy management system application program interface (EMS-API) - Part 404: High Speed Data Access (HSDA), \$82.00

[IEC 61970-405 Ed. 1.0 en:2007](#), Energy management system application program interface (EMS-API) - Part 405: Generic Eventing and Subscription (GES), \$101.00

[IEC 61970-407 Ed. 1.0 en:2007](#), Energy management system application program interface (EMS-API) - Part 407: Time Series Data Access (TSDA), \$82.00

SWITCHGEAR AND CONTROLGEAR (TC 17)

[IEC 62271-SER Ed. 1.0 b:2007](#), High-voltage switchgear and controlgear - All Parts, \$1700.00

[IEC 62271-209 Ed. 1.0 b:2007](#), High-voltage switchgear and controlgear - Part 209: Cable connections for gas-insulated metal-enclosed switchgear for rated voltages above 52 kV - Fluid-filled and extruded insulation cables - Fluid-filled and dry-type cable-terminations, \$60.00

ULTRASONICS (TC 87)

[IEC 61157 Ed. 2.0 en:2007](#), Standard means for the reporting of the acoustic output of medical diagnostic ultrasonic equipment, \$110.00

[IEC 61689 Ed. 2.0 en:2007](#), Ultrasonics - Physiotherapy systems - Field specifications and methods of measurement in the frequency range 0,5 MHz to 5 MHz, \$184.00

Proposed Foreign Government Regulations

Call for Comment

U.S. manufacturers, exporters, regulatory agencies and standards developing organizations may be interested in proposed foreign technical regulations issued by Member countries of the World Trade Organization (WTO). In accordance with the WTO Agreement on Technical Barriers to Trade (TBT Agreement), Members are required to report proposed technical regulations that may significantly affect trade to the WTO Secretariat in Geneva, Switzerland. In turn, the Secretariat disseminates the information to all WTO Members. The purpose of this requirement is to provide global trading partners with an opportunity to review and comment on the regulations before they become final.

The National Center for Standards and Certification Information (NCSCI) at the National Institute of Standards and Technology

(NIST), distributes these proposed foreign technical regulations to U.S. stakeholders via an online service, Notify U.S. Notify U.S. is an e-mail and Web service that allows interested U.S. parties to register, obtain notifications, and read full texts of regulations from countries and for industry sectors of interest to them. To register for Notify U.S., please go to Internet URL:

<http://www.nist.gov/notifyus/> and click on "Subscribe".

NCSCI is the WTO TBT Inquiry Point for the U.S. and receives all notifications and full texts of regulations to disseminate to U.S. Industry. For further information, please contact: NCSCI, NIST, 100 Bureau Drive, Gaithersburg, MD 20899-2160; Telephone: (301) 975-4040; Fax: (301) 926-1559; E-mail: ncsci@nist.gov or notifyus@nist.gov.

Information Concerning

American National Standards

INCITS Executive Board

ANSI Accredited SDO and US TAG to ISO/IEC JTC 1, Information Technology

Call for Members

The InterNational Committee for Information Technology Standards (INCITS), an ANSI accredited SDO, is the forum for information technology developers, producers and users to create and maintain formal de jure IT standards. INCITS' mission is to promote the effective use of Information and Communication Technology through standardization in a way that balances the interests of all stakeholders and increases the global competitiveness of the member organizations.

The INCITS Executive Board serves as the consensus body with its oversight of programs of its 30+ Technical Committees. Additionally, the INCITS Executive Board exercises international leadership in its role as the US Technical Advisory Group (TAG) to ISO/IEC JTC 1, Information Technology.

The INCITS Executive Board seeks to broaden its membership base and is recruiting new participants in all membership categories:

- special interest (user, academic, consortia)
- non-business (government and major/minor SDOs)
- business (large/small businesses and consultants)

Membership in the INCITS Executive Board is open to all directly and materially affected parties in accordance with INCITS membership rules. To find out more about participating on the INCITS Executive Board, please contact Jennifer Garner at (202) 626-5737 or jgarner@itic.org.

INCITS Study Group on Security Best Practices

September 19, 2007 Formation Meeting and Call for Members

Membership Request Deadline: September 14, 2007

The INCITS Study Group on Security Best Practices was recently established to:

- study the security needs and requirements of the financial and insurance services industries and assess what is missing in current standards and practices.
- make a recommendation to the INCITS EB on an approach to create deployable best practices and frameworks for security in these industries. This may include creating Project Proposals for new INCITS Standards or Technical Reports.
- complete its work and submit its report for consideration at the January 2008 INCITS EB meeting.

The formation meeting of the INCITS Study Group on Security Best Practices will be held September 19, 2007 from 3:00 PM to 4:30 PM in conjunction with the Financial Services Technology (FST) Summit at The Boulders Resort in Arizona:

The Boulders Resort and Golden Door Spa
(meeting room information – see hotel meeting board)
34631 North Tom Darlington Drive
Carefree, AZ 85377
PHONE: (866) 397-6520
<http://www.theboulders.com/>

Interested parties are invited to nominate representatives to the INCITS Study Group on Security Best Practices. Although participants may join the Study Group at any time, requests to establish membership are requested by September 14, 2007 to assist in planning for the formation meeting and should be submitted to the INCITS Secretariat (jgarner@itic.org). Membership is open to all directly and materially affected parties that meet attendance and voting requirements and pay the designated service fees.

Proposed Tentative Interim Amendments (TIAs)

Comments Sought for NFPA 58, 70, 1951, 1971, and 1994

Comment Closing Date: September 17, 2007

The following proposed Tentative Interim Amendments are available for public review and comment.

NFPA 58-2008

Liquefied Petroleum Gas Code

TIA Log No.: 890

Reference: 11.6.3

Comment Closing Date: September 17, 2007

NFPA 70-2008

National Electrical Code

TIA Log No.: 881

Reference: Articles 374.17, 366.23(A)(B), 372.11, 372.17, 374.5, 374.17, 376.22, 378.22, 384.22, 386.22, 388.22, 392.9, 392.10, and 392.11

Comment Closing Date: September 17, 2007

NFPA 70-2008

National Electrical Code

TIA Log No.: 891

Reference: 374.17

Comment Closing Date: September 17, 2007

NFPA 1951-2007

Standard on Protective Ensembles for Technical Rescue Incidents

TIA Log No.: 894

Reference: 8.45

Comment Closing Date: September 17, 2007

NFPA 1971-2007

Standard on Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting

TIA Log No.: 893

Reference: 8.67

Comment Closing Date: September 17, 2007

NFPA 1971-2007

Standard on Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting

TIA Log No.: 895

Reference: 7.1.5.1 (New) and 8.6.11

Comment Closing Date: September 17, 2007

NFPA 1994-2007

Standard on Protective Ensembles for First Responders to CBRN Terrorism Incidents

TIA Log No.: 892

Reference: 8.7

Comment Closing Date: September 17, 2007

Copies may be obtained at

<http://www.nfpa.org/itemDetail.asp?categoryID=844&itemID=20972>, or requested from Codes and Standards Administration, NFPA, One Batterymarch Park, Quincy, MA 02169, or by calling (617) 984-7249.

ANSI Accredited Standards Developers

Approval of Accreditation

National Ground Water Association (NGWA)

ANSI's Executive Standards Council has approved the accreditation of the National Ground Water Association (NGWA), an ANSI Organizational Member since October 2006, as a developer of American National Standards using its own operating procedures for documenting consensus on proposed American National Standards, effective August 17, 2007. For additional information, please contact: Mr. Jonathan Jenkins, Standard Development Administrator, National Ground Water Association, 601 Dempsey Road, Westerville, OH 43081; PHONE: (614) 898-7791, ext. 511; E-mail: jjenkins@ngwa.org.

Approval of Reaccreditation

NSF International

ANSI's Executive Standards Council has approved the reaccreditation of NSF International, an ANSI Organizational Member and ANSI Accredited Standards Developer (ASD) since 1992, under revised operating procedures for documenting consensus on proposed American National Standards, effective August 21, 2007. For additional information, please contact: Ms. Jane Wilson, MPH, Director of Standards, NSF International, P.O. Box 130140, Ann Arbor, MI 48113-0140; PHONE: (734) 827-6835; FAX: (734) 827-6831; E-mail: wilson@nsf.org.

ANSI-ASQ National Accreditation Board

Public Comments

ANAB Accreditation Rules (formerly Advisories)

Comment Deadline: September 14, 2007

Public comments are sought on the following revised ANAB Accreditation Rules (formerly Advisories):

1. ASRP and CAAT (<http://db.anab.org/rab/PublicRFCDetail.do?ID=518>)
2. Scope Extensions (<http://db.anab.org/rab/PublicRFCDetail.do?ID=519>)
4. Consortiums (<http://db.anab.org/rab/PublicRFCDetail.do?ID=520>)
5. Scope Categories (<http://db.anab.org/rab/PublicRFCDetail.do?ID=521>)
6. Use of ANAB Mark and Name (<http://db.anab.org/rab/PublicRFCDetail.do?ID=522>)
9. Certificates Issued Prior to ANAB Accreditation (<http://db.anab.org/rab/PublicRFCDetail.do?ID=523>)
10. Use of IAF Words on Certificates (<http://db.anab.org/rab/PublicRFCDetail.do?ID=524>)
12. Scope of Certifications (<http://db.anab.org/rab/PublicRFCDetail.do?ID=525>)
13. Management System Integration (<http://db.anab.org/rab/PublicRFCDetail.do?ID=526>)
14. Compliance With Regulatory Requirements (<http://db.anab.org/rab/PublicRFCDetail.do?ID=527>)
15. CB Management of Marketing Relationships With Bodies That Provide Management System Consulting (<http://db.anab.org/rab/PublicRFCDetail.do?ID=529>)
16. Conflict of Interests (<http://db.anab.org/rab/PublicRFCDetail.do?ID=530>)
18. Cross Frontier Accreditation (<http://db.anab.org/rab/PublicRFCDetail.do?ID=531>)

20. Significant Environmental Aspects and Impacts (<http://db.anab.org/rab/PublicRFCDetail.do?ID=532>)
21. Combined Use of the ANAB and IAF Marks (<http://db.anab.org/rab/PublicRFCDetail.do?ID=533>)
22. Initial Assessment of an Auditor's Performance (<http://db.anab.org/rab/PublicRFCDetail.do?ID=534>)
23. Documenting NCRs During Management System Audits (<http://db.anab.org/rab/PublicRFCDetail.do?ID=535>)
24. SFI Accreditation Program (<http://db.anab.org/rab/PublicRFCDetail.do?ID=536>)
25. CB Competence (<http://db.anab.org/rab/PublicRFCDetail.do?ID=537>)

Interested parties are invited to download the documents online at the respective links referenced parenthetically above and comment. Please submit your comments to Penny Gamaché, ANAB Communication Manager, at pgamache@anab.org by September 14, 2007.

Public comments are also sought on withdrawal of the following ANAB Advisories:

7. Payment of Invoices (<http://db.anab.org/rab/PublicRFCDetail.do?ID=538>)
8. Inactive Applicants (<http://db.anab.org/rab/PublicRFCDetail.do?ID=540>)
19. ANAB Findings (<http://db.anab.org/rab/PublicRFCDetail.do?ID=541>)

Interested parties are invited to download the documents online at the respective links referenced parenthetically above and comment. Please submit your comments to Penny Gamaché, ANAB Communication Manager, at pgamache@anab.org by September 14, 2007.

Withdrawal of Accreditation

Excalibur Registration, Inc.

Effective August 14, 2007, ANAB has withdrawn its accreditation from Excalibur Registration Inc., based in Sterling Heights, MI, for both environmental management systems and quality management systems. Excalibur is no longer authorized to issue any new ANAB-accredited certificates, and must withdraw any ANAB-accredited certificates that were issued prior to August 14, 2007.

International Electrotechnical Commission (IEC)

Withdrawal of TAG Administrator

USNC TAG for IEC/TC 1 (Terminology) and IEC/SC 3D (Data Sets for Libraries)

The Institute of Electrical and Electronics Engineers (IEEE) has advised the U.S. National Committee/IEC that it is resigning as TAG Administrator for the following USNC Technical Advisory Groups:

IEC/TC 1 – Terminology

Scope: To sanction the terms and definitions used in the different electrotechnical fields and to determine the equivalence of the terms used in the different languages.

As a consequence, to prepare an International Electrotechnical Vocabulary aiming at the standardization and coordination of the terms relating to electrical sciences and techniques for use in the technical language and literature, in teaching, in technical specifications and in commercial exchanges, and at giving their equivalents in the different languages.

and

IEC/SC 3D – Information Structures, Documentation and Graphic Symbols/Data Sets for Libraries

Scope: To prepare standards for the electrotechnical and related fields regarding methods and rules associated with the handling of information in computer sensible form, referring to:

- definition of data element types and data sets for use in information models and technical documentation, and for exchange of technical information.

The USNC Technical Management Committee is looking for organizations that are interested in being assigned as TAG Administrator for these USNC TAGs. Currently, the USNC is a PARTICIPATING MEMBER, however, if replacement TAG Administrators are not found, the USNC will be required to register as a NON-MEMBER of these two important IEC Committees. The USNC is already a NON-MEMBER of the following Committees and, it is hoped, that if organizations express interest in TC 1 and/or SC 3D, they might also consider serving as TAG Administrator for TC 3 and SC 3C as well.

IEC/TC 3 – Information Structures, Documentation and Graphical Symbols

Scope: To prepare standards for the electrotechnical and related fields regarding:

- 1) methods and rules associated with the human interpretation of information. This refers to:
 - presentation of information in technical documentation,
 - graphical symbols for use in technical documentation,
 - graphical symbols for the human interaction with equipment.

2) methods and rules associated with the handling of information in computer sensible forms. This refers to:

- information models for the purpose of technical documentation and the exchange of technical information, and the identification of further needs for such models,
- definition of data element types and data sets for use in information models and technical documentation, and for exchange of technical information.

It includes definition and co-ordination of the information required during the whole life cycle of a device, system, or plant.

The work should be carried out in close co-operation with associated technical committees and international organizations.

and

IEC/SC 3C – Graphical symbols for Use on Equipment

Scope: To prepare standards regarding methods and rules for:

- graphical symbols for the human interaction with equipment.

Included:

- Basic design rules for graphical symbols.
- The design of graphical symbols for particular applications.

Anyone who has an interest in serving as TAG Administrator for any of these USNC TAGs and wishes additional information is invited to contact: Charlie Zegers, General Secretary, USNC/IEC, ANSI; PHONE: (212) 642-4965; E-Mail: czegers@ansi.org.

BSR/UL 508-200x

1. UL 508 Scope Revision to Reference UL 1008 for Assemblies Constructed of Two or More Controllers Intended to Transfer Power to a Common Output Between Multiple Input Sources

PROPOSAL

(NEW)

1.12 Products consisting of interlocked controllers and similar assemblies, intended to transfer power to a common load or output between multiple inputs or sources, are covered by the Standard for Transfer Switch Equipment, UL 1008.

UL 879 – Electric Sign Components

12. Flexible sign faces requirements – Table 4.3, Part II, Rows R – V

For your convenience in review, proposed additions to the previously proposed requirements are shown underlined and proposed deletions are shown ~~lined-out~~.

PROPOSAL

**Table 4.3 part 2
Polymeric Material Requirements, Components**

Com- ponent ref- erence letter from part 1	Wet locations											
	Damp locations											Rain test
	Dry locations							Min. temp. °C	UV & ozone	Cold impact	Con- den- sation test	
	Min. temp °C	Min. Flame	Humidity	CTI, PLC	UV	Ozone	Mold stress					
R	50	HB	N	N	N	N	N	50	UV	<u>∅N</u>	<u>∅N</u>	N
S	50	HB	N	N	N	N	N	50	UV	<u>∅N</u>	<u>∅N</u>	N
T	50	HB	N	N	N	N	N	50	UV	<u>∅N</u>	<u>∅N</u>	N
U	50	HB	N	N	N	N	N	50	UV	<u>∅N</u>	<u>∅N</u>	N
V	50	HB	N	N	N	N	N	50	UV	<u>∅N</u>	<u>∅N</u>	N