

# **ANSI** STANDARDS ACTION

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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](mailto:psa@ansi.org)

★ Standard for consumer products

## Comment Deadline: June 5, 2005

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

#### Supplements

BSR/ASHRAE 34n-200x, Designation and Safety Classification of Refrigerants (supplement to ANSI/ASHRAE 34-2004)

This addendum provides general guidance for the numbering of C4-C8 alkanes.

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

Send comments (with copy to BSR) to: Beverly Fulks, ASHRAE; bfulks@ashrae.org

BSR/ASHRAE 34a-200x, Designation and Safety Classification of Refrigerants (supplement to ANSI/ASHRAE 34-2004)

This proposed addendum adds a designation of R-422B to the blend R-125/134a/600a (55.0/42.0/3.0) with tolerances of (+/-1.0/+/-1.0/+0.1,-0.5) and a safety classification of A1.

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

Send comments (with copy to BSR) to: Beverly Fulks, ASHRAE; bfulks@ashrae.org

BSR/ASHRAE 34b-200x, Designation and Safety Classification of Refrigerants (supplement to ANSI/ASHRAE 34-2004)

This proposed addendum adds a designation of R-422C to the blend R-125/134a/600a (82.0/15.0/3.0) with tolerances of (+/-1.0/+/-1.0/+0.1,-0.5) and a safety classification of A1.

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

Send comments (with copy to BSR) to: Beverly Fulks, ASHRAE; bfulks@ashrae.org

BSR/ASHRAE 34c-200x, Designation and Safety Classification of Refrigerants (supplement to ANSI/ASHRAE 34-2004)

This proposed addendum adds a designation of R-423A to the blend R-134a/227ea (52.5/47.5) with tolerances of (+/-1.0/+/-1.0) and a safety classification of A1.

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

Send comments (with copy to BSR) to: Beverly Fulks, ASHRAE; bfulks@ashrae.org

## Comment Deadline: June 20, 2005

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

#### New Standards

BSR/AAMI RD17-200x, Hemodialyzer Blood Tubing (new standard)

Provides minimum requirements to ensure safe and effective performance of hemodialysis blood tubing sets. Includes all tubing segments which are used to transport blood (or fluids) from a patient's vascular access device to a hemodialyzer, as well as all tubing segments that are used to transport blood (or fluids) to a patient's vascular access device from a hemodialyzer.

Single copy price: \$40.00/\$80.00 AAMI Member/list (print & electronic -Order Codes RD17 and RD17-PDF)

Order from: AAMI Customer Service Center, (703) 525-4890, ext. 217 or 1 (800) 332-2264, ext. 217

Send comments (with copy to BSR) to: Cliff Bernier, AAMI; CBernier@aami.org

#### Reaffirmations

BSR/AAMI RD17-2002/A1 (R200x), Hemodialyzer Blood Tubing - Amendment 1 (reaffirmation of ANSI/AAMI RD17-2002/A1)

Provides minimum requirements to ensure safe and effective performance of hemodialysis blood tubing sets. Includes all tubing segments which are used to transport blood (or fluids) from a patient's vascular access device to a hemodialyzer, as well as all tubing segments that are used to transport blood (or fluids) to a patient's vascular access device from a hemodialyzer.

Single copy price: \$40.00/\$80.00 AAMI Member/list (print & electronic -Order Codes RD17 and RD17-PDF)

Order from: AAMI Customer Service Center, (703) 525-4890, ext. 217 or 1 (800) 332-2264, ext. 217

Send comments (with copy to BSR) to: Cliff Bernier, AAMI; CBernier@aami.org

### AMCA (Air Movement and Control Association)

#### Revisions

BSR/AMCA 204-200x, Balance Quality and Vibration Levels for Fans (revision of ANSI/AMCA 204-1996)

This standard defines appropriate fan balance quality and operating vibration levels to individuals who specify, manufacture, use and maintain fans.

Single copy price: \$5.00

Order from: Tim Orris, AMCA; torris@amca.org

Send comments (with copy to BSR) to: Same

### ASA (ASC S1) (Acoustical Society of America)

#### Revisions

BSR S1.13-200X, Measurement of Sound Pressure Levels in Air (revision of ANSI S1.13-1995 (R1999))

Specifies requirements and describes procedures for the measurement of sound pressure levels in air at a single point in space. These apply primarily to measurements performed indoors but may be utilized in outdoor measurements under specified conditions. This is a fundamental standard applicable to a wide range of measurements and to sounds that may differ widely in temporal and spectral characteristics; more specific ANS complement its requirements.

Single copy price: \$130.00

Order from: Susan Blaeser, ASA (ASC S1); sblaeser@aip.org

Send comments (with copy to BSR) to: Same

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

#### New Standards

BSR X9.95-200x, Trusted Time Stamp Management and Security (new standard)

This standard specifies the minimum security requirements for the effective use of time stamps in a financial services environment.

Single copy price: \$90.00

Order from: Isabel Bailey, ASC X9; Isabel.Bailey@X9.org

Send comments (with copy to BSR) to: Same

### ASME (American Society of Mechanical Engineers)

#### Revisions

BSR/ASME BPVC Revision-200x, ASME Boiler and Pressure Vessel Code (05/13/05 Meeting) (revision of ANSI/ASME BPVC 2004 Edition)

This Standard establishes safety rules covering the design, fabrication and inspection (during construction) of boilers, pressure vessels and nuclear power plant components and containment in order to afford protection of life and property and to provide a margin of deterioration in service so as to give a reasonably long, safe period of usefulness.

Single copy price: \$70.00

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

Send comments (with copy to BSR) to: Joseph Brzuszkiewicz, ASME; brzuszkiewiczj@asme.org

## Supplements

BSR/ASME OMB-S/G-200x, Standards and Guides for Operation and Maintenance of Nuclear Power Plants (supplement to ANSI/ASME OM-S/G-2003)

This document provides standards and guidelines for preservice and inservice testing of components and systems in light water reactor power plants.

Single copy price: \$20.00

Order from: Mayra Santiago, ASME; ANSIBOX@asme.org  
Send comments (with copy to BSR) to: Shannon Burke, ASME; burkes@asme.org

## ASTM (ASTM International)

The URL to search for scopes of ASTM standards is:

<http://www.astm.org/dsearch.htm>

For reaffirmations and withdrawals, order from: Customer Service, ANSI

For new standards and revisions, order from: Corice Leonard, ASTM ; cleonard@astm.org

For all ASTM standards, send comments (with copy to BSR) to: Corice Leonard, ASTM ; cleonard@astm.org

## New Standards

BSR/ASTM D0982-200x, Method of Test for Organic Nitrogen in Paper and Paperboard (new standard)

Single copy price: \$28.00

BSR/ASTM D3712-200x, Test Method of Analysis of Oil-Soluble Petroleum Sulfonates by Liquid Chromatography (new standard)

Single copy price: \$33.00

BSR/ASTM D7129-200x, Test Method for Determination of Ammonia Trapping in a Grafted Battery Separator (new standard)

Single copy price: \$28.00

BSR/ASTM D7130-200x, Test Method for DC Comparative Tracking Index (DC-CTI) of Electrical Insulating Materials (new standard)

Single copy price: \$38.00

BSR/ASTM D7131-200x, Test Method for Determination of Ion Exchange Capacity (IEC) in Grafted Battery Separator (new standard)

Single copy price: \$28.00

BSR/ASTM D7169-200x, Test Method for Boiling Point Distribution of Samples with Residues Such as Crude Oils and Atmospheric and Vacuum Residues by High Temperature Gas Chromatography (new standard)

Single copy price: \$44.00

BSR/ASTM D7170-200x, Test Method for Determination of Derived Cetane Number (DCN) of Diesel Fuel Oils - Constant Injection Period, Static Volume Combustion Chamber Method (new standard)

Single copy price: \$39.00

BSR/ASTM D7171-200x, Standard Test Method for Hydrogen Content of Middle Distillate Petroleum Products by Low-Resolution Pulsed Nuclear Magnetic Resonance Spectroscopy (new standard)

Single copy price: \$39.00

BSR/ASTM F1866-200x, Specification for Poly(vinyl Chloride) (PVC) Plastic Schedule 40 Drainage and DWV Fabricated Fittings (new standard)

Single copy price: \$33.00

BSR/ASTM F2136-200x, Test Method for Notched, Constant Ligament-Stress (NCLS) Test to Determine Slow-Crack-Growth Resistance of HDPE Resins or HDPE Corrugated Pipe (new standard)

Single copy price: \$33.00

BSR/ASTM F2389-200x, Specification for Pressure-Rated Polypropylene (PP) Piping Systems (new standard)

Single copy price: \$33.00

BSR/ASTM F2433-200x, Test Method for Determining Thermoplastic Pipe Wall Stiffness (new standard)

Single copy price: \$39.00

BSR/ASTM F2472-200x, Test Method for the Performance of Staff-Served Hot Deli Cases (new standard)

Single copy price: \$43.00

BSR/ASTM F2473-200x, Test Method for the Performance of Water Bath Rethernalizers (new standard)

Single copy price: \$43.00

★ BSR/ASTM F2474-200x, Heat Gain to Space Performance of Commercial Kitchen Ventilation/Appliance Systems (new standard)

Single copy price: \$43.00

## Revisions

BSR/ASTM D86-200x, Test Method for Distillation of Petroleum Products at Atmospheric Pressure (revision of ANSI/ASTM D86-2004)

Single copy price: \$44.00

BSR/ASTM D95-200x, Test Method for Water in Petroleum Products and Bituminous Materials by Distillation (revision of ANSI/ASTM D95-1999)

Single copy price: \$33.00

BSR/ASTM D396-200x, Specification for Fuel Oils (revision of ANSI/ASTM D396-2004)

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BSR/ASTM D975-200x, Specification for Diesel Fuel Oils (revision of ANSI/ASTM D975-2004)

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BSR/ASTM D1655-200x, Specification for Aviation Turbine Fuels (revision of ANSI/ASTM D1655-2004b)

Single copy price: \$39.00

BSR/ASTM D2307-200x, Test Method for Thermal Endurance of Film-Insulated Round Magnet Wire (revision of ANSI/ASTM D2307-2001)

Single copy price: \$33.00

BSR/ASTM D2500-200x, Test Method for Cloud Point of Petroleum Products (revision of ANSI/ASTM D2500-2002)

Single copy price: \$28.00

BSR/ASTM D2887-200x, Test Method for Boiling Range Distribution of Petroleum Fractions by Gas Chromatography (revision of ANSI/ASTM D2887-2004b)

Single copy price: \$39.00

BSR/ASTM D3241-200x, Test Method for Thermal Oxidation Stability of Aviation Turbine Fuels JFTOT Procedure (revision of ANSI/ASTM D3241-2004)

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BSR/ASTM D3699-200x, Specification for Kerosine (revision of ANSI/ASTM D3699-2004)

Single copy price: \$28.00

BSR/ASTM D4024-200x, Specification for Machine Made "fiberglass" (glass-fiber-reinforced Thermosetting Resin) Flanges (revision of ANSI/ASTM D4024-2000)

Single copy price: \$33.00

BSR/ASTM D4226-200x, Test Methods for Impact Resistance of Rigid Poly(vinyl Chloride) (PVC) Building Products (revision of ANSI/ASTM D4226-2000)

Single copy price: \$33.00

BSR/ASTM D4314-200x, Specification for General-Purpose, Heavy-Duty, and Extra-Heavy-Duty Crosslinked Chlorosulfonated Polyethylene (CSM) Jackets for Wire and Cable (revision of ANSI/ASTM D4314-1999)

Single copy price: \$28.00

BSR/ASTM D4566-200x, Test Methods for Electrical Performance Properties of Insulations and Jackets for Telecommunications Wire and Cable (revision of ANSI/ASTM D4566-1998)

Single copy price: \$44.00

BSR/ASTM D4807-200x, Test Method for Sediment in Crude Oil by Membrane Filtration (revision of ANSI/ASTM D4807-88 (R1995))

Single copy price: \$28.00

BSR/ASTM D5183-200x, Test Method for Determination of the Coefficient of Friction of Lubricants Using the Four-Ball Wear Test Machine (revision of ANSI/ASTM D5183-1995 (R99))

Single copy price: \$33.00

BSR/ASTM D5771-200x, Test Method for Cloud Point of Petroleum Products (Optical Detection Stepped Cooling Method) (revision of ANSI/ASTM D5771-2004)

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BSR/ASTM D5772-200x, Test Method for Cloud Point of Petroleum Products (Linear Cooling Rate Method) (revision of ANSI/ASTM D5772-2004)

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BSR/ASTM D5800-200x, Test Method for Evaporation Loss of Lubricating Oils by the Noack Method (revision of ANSI/ASTM D5800-2004b)

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BSR/ASTM D6095-200x, Test Method for Volume Resistivity for Extruded Crosslinked and Thermoplastic Semiconducting Conductor and Insulation Shielding Materials (revision of ANSI/ASTM D6095-1999)

Single copy price: \$28.00

BSR/ASTM D6158-200x, Specification for Mineral Hydraulic Oils (revision of ANSI/ASTM D6158-1999)

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BSR/ASTM D6375-200x, Test Method for Evaporation Loss of Lubricating Oils by Thermogravimetric Analyzer (TGA) Noack Method (revision of ANSI/ASTM D6375-1999)

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BSR/ASTM D6615-200x, Specification for Jet B Wide-Cut Aviation Turbine Fuel (revision of ANSI/ASTM D6615-2004a)

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BSR/ASTM D6783-200x, Specification for Polymer Concrete Pipe (revision of ANSI/ASTM D6783-2003)

Single copy price: \$33.00

BSR/ASTM E329-200x, Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction (revision of ANSI/ASTM E329-2005)

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BSR/ASTM E1900-200x, Guide for Dosimetry in Radiation Research on Food and Agricultural Products (revision of ANSI/ASTM E1900-1997)

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BSR/ASTM E2234-200x, Practice for Sampling a Stream of Product by Attributes Indexed by Aql (revision of ANSI/ASTM E2234-2002)

Single copy price: \$44.00

BSR/ASTM F402-200x, Practice for Safe Handling of Solvent Cements, Primers, and Cleaners Used for Joining Thermoplastic Pipe and Fittings (revision of ANSI/ASTM F402-1999)

Single copy price: \$28.00

BSR/ASTM F439-200x, Specification for Chlorinated Poly(vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80 (revision of ANSI/ASTM F439-2002)

Single copy price: \$33.00

BSR/ASTM F714-200x, Specification for Polyethylene (PE) Plastic Pipe (SDR-PR) Based on Outside Diameter (revision of ANSI/ASTM F714-2003)

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BSR/ASTM F877-200x, Specification for Crosslinked Polyethylene (PEX) Plastic Hot- and Cold-Water Distribution Systems (revision of ANSI/ASTM F877-2002)

Single copy price: \$33.00

BSR/ASTM F1216-200x, Practice for Rehabilitation of Existing Pipelines and Conduits by the Inversion and Curing of a Resin-Impregnated Tube (revision of ANSI/ASTM F1216-1999)

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BSR/ASTM F1483-200x, Specification for Oriented Poly(vinyl Chloride) (PVCO) Pressure Pipe (revision of ANSI/ASTM F1483-1999)

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★ BSR/ASTM F1484-200x, Test Methods for Performance of Steam Cookers (revision of ANSI/ASTM F1484-2004)

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★ BSR/ASTM F1495-200x, Specification for Combination Oven (Electric or Gas Fired) (revision of ANSI/ASTM F1495-1999)

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BSR/ASTM F1674-200x, Specification for Joint Restraint Products for Use with PVC Pipe (revision of ANSI/ASTM F1674-1996)

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BSR/ASTM F1704-200x, Test Methods for Performance of Commercial Kitchen Ventilation Systems (revision of ANSI/ASTM F1704-1999)

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BSR/ASTM F1962-200x, Guide for Use of Maxi-Horizontal Directional Drilling for Placement of Polyethylene Pipe or Conduit Under Obstacles, Including River Crossings (revision of ANSI/ASTM F1962-1999)

Single copy price: \$39.00

BSR/ASTM F1963-200x, Specification for Deep-Fat Fryers, Gas or Electric, Open (revision of ANSI/ASTM F1963-1999)

Single copy price: \$33.00

BSR/ASTM F2160-200x, Specification for Solid Wall High Density Polyethylene (HDPE) Conduit Based on Controlled Outside Diameter (OD) (revision of ANSI/ASTM Z8337Z-200x)

Single copy price: \$33.00

### **Reaffirmations**

BSR/ASTM C559-2000 (R200x), Test Method for Bulk Density by Physical Measurements of Manufactured Carbon and Graphite Articles (reaffirmation of ANSI/ASTM C559-2000)

Single copy price: \$28.00

BSR/ASTM C561-2000 (R200x), Test Method for Ash in a Graphite Sample (reaffirmation of ANSI/ASTM C561-2000)

Single copy price: \$28.00

BSR/ASTM C562-2000 (R200x), Test Method for Moisture in a Graphite Sample (reaffirmation of ANSI/ASTM C562-2000)

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BSR/ASTM C625-2000 (R200x), Practice for Reporting Irradiation Results on Graphite (reaffirmation of ANSI/ASTM C625-2000)

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BSR/ASTM C695-2000 (R200x), Test Method for Compressive Strength of Carbon and Graphite (reaffirmation of ANSI/ASTM C695-2000)

Single copy price: \$28.00

BSR/ASTM C783-2000 (R200x), Practice for Core Sampling of Graphite Electrodes (reaffirmation of ANSI/ASTM C783-2000)

Single copy price: \$28.00

BSR/ASTM C808-2000 (R200x), Guideline for Reporting Friction and Wear Test Results of Manufactured Carbon and Graphite Bearing and Seal Materials (reaffirmation of ANSI/ASTM C808-2000)

Single copy price: \$33.00

BSR/ASTM C1025-2000 (R200x), Test Method for Modulus of Rupture in Bending of Electrode Graphite (reaffirmation of ANSI/ASTM C1025-2000)

Single copy price: \$28.00

BSR/ASTM C1039-2000 (R200x), Test Methods for Apparent Porosity, Apparent Specific Gravity, and Bulk Density of Graphite Electrodes (reaffirmation of ANSI/ASTM C1039-2000)

Single copy price: \$28.00

BSR/ASTM C1179-2000 (R200x), Test Method for Oxidation Mass Loss of Manufactured Carbon and Graphite Materials in Air (reaffirmation of ANSI/ASTM C1179-2000)

Single copy price: \$28.00

BSR/ASTM D2143-2000 (R200x), Test Method for Cyclic Pressure Strength of Reinforced, Thermosetting Plastic Pipe (reaffirmation of ANSI/ASTM D2143-2000)

Single copy price: \$28.00

BSR/ASTM D2269-1999 (R200x), Test Method for Evaluation of White Mineral Oils by Ultraviolet ABSorption (reaffirmation of ANSI/ASTM D2269-1999)

Single copy price: \$28.00

BSR/ASTM D2717-1995 (R200x), Test Method for Thermal Conductivity of Liquids (reaffirmation of ANSI/ASTM D2717-1995)

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BSR/ASTM D2766-1995 (R200x), Test Method for Specific Heat of Liquids and Solids (reaffirmation of ANSI/ASTM D2766-1995)

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BSR/ASTM D2878-1995 (R200x), Test Method for Estimating Apparent Vapor Pressures and Molecular Weights of Lubricating Oils (reaffirmation of ANSI/ASTM D2878-1995)

Single copy price: \$33.00

BSR/ASTM D2883-1995 (R200x), Test Method for Reaction Threshold Temperature of Liquid and Solid Materials (reaffirmation of ANSI/ASTM D2883-1995)

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BSR/ASTM D3115-1995 (R200x), Test Method for Explosive Reactivity of Lubricants with Aerospace Alloys Under High Shear (reaffirmation of ANSI/ASTM D3115-1995)

Single copy price: \$28.00

BSR/ASTM D3139-1996A (R200x), Specification for Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals (reaffirmation of ANSI/ASTM D3139-1996A)

Single copy price: \$28.00

BSR/ASTM D3711-1995 (R200x), Test Method for Deposition Tendencies of Liquids in Thin Films and Vapors (reaffirmation of ANSI/ASTM D3711-1995)

Single copy price: \$33.00

BSR/ASTM D3825-1990 (R200x), Test Method for Dynamic Surface Tension by the Fast-Bubble Technique (reaffirmation of ANSI/ASTM D3825-1990 (R96))

Single copy price: \$33.00

BSR/ASTM D4006-2000 (R200x), Test Method for Water in Crude Oil by Distillation (reaffirmation of ANSI/ASTM D4006-2000)

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BSR/ASTM D4177-82 (R200x), Practice for Automatic Sampling of Petroleum and Petroleum Products (reaffirmation of ANSI/ASTM D4177-82 (R1990))

Single copy price: \$44.00

BSR/ASTM D4308-1995 (R200x), Test Method for Electrical Conductivity of Liquid Hydrocarbons by Precision Meter (reaffirmation of ANSI/ASTM D4308-1995 (R2001))

Single copy price: \$33.00

BSR/ASTM D4495-2000 (R200x), Test Method for Impact Resistance of Poly(vinyl Chloride) (PVC) Rigid Profiles by Means of a Falling Weight (reaffirmation of ANSI/ASTM D4495-2000)

Single copy price: \$33.00

BSR/ASTM D4928-1996 (R200x), Test Methods for Water in Crude Oils by Coulometric Karl Fischer Titration (reaffirmation of ANSI/ASTM D4928-1996)

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BSR/ASTM D5000-89 (R200x), Practice for Evaluating Activity of Clay Elements Using a Side-Stream Sensor (reaffirmation of ANSI/ASTM D5000-89 (R2001))

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BSR/ASTM D5619-2004 (R200x), Test Method for Comparing Metal Removal Fluids Using the Tapping Torque Test Machine (reaffirmation of ANSI/ASTM D5619-2004)

Single copy price: \$33.00

BSR/ASTM D5854-1996 (R200x), Practice for Mixing and Handling of Liquid Samples of Petroleum and Petroleum Products (reaffirmation of ANSI/ASTM D5854-1996 (R2000))

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BSR/ASTM D6553-2000 (R200x), Test Method for Coolant Compatibility of Way Lubricants (reaffirmation of ANSI/ASTM D6553-2000)

Single copy price: \$28.00

BSR/ASTM F405-1996 (R200x), Specification for Corrugated Polyethylene (PE) Pipe and Fittings (reaffirmation of ANSI/ASTM F405-1996)

Single copy price: \$33.00

BSR/ASTM F1417-1996 (R200x), Test Method for Installation Acceptance of Plastic Gravity Sewer Lines Using Low-Pressure Air (reaffirmation of ANSI/ASTM F1417-1996)

Single copy price: \$33.00

BSR/ASTM F1732-1996 (R200x), Specification for Poly(vinyl Chloride) (PVC) Sewer and Drain Pipe Containing Recycled PVC Material (reaffirmation of ANSI/ASTM F1732-1996)

Single copy price: \$28.00

### **Withdrawals**

ANSI/ASTM D287-1994 (R2000), Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method) (withdrawal of ANSI/ASTM D287-1994 (R2000))

Single copy price: \$28.00

## **IPC (IPC - Association Connecting Electronics Industries)**

### **New Standards**

BSR/IPC 4553-200x, Specification for Immersion Silver Plating for Printed Circuit Boards (new standard)

This specification covers the use of immersion silver plating as a final finish for printed circuits for applications such as SMT component pads, conductors, membrane switch contacts and ZIF edge board connectors.

Single copy price: Free

Order from: Mary Tunk, IPC; MaryTunk@ipc.org

Send comments (with copy to BSR) to: Tom Newton, IPC; TomNewton@ipc.org

## **NEMA (ASC C78) (National Electrical Manufacturers Association)**

### **Revisions**

BSR C78.81-200x, Electric Lamps - Double-Capped Fluorescent Lamps - Dimensional and Electrical Characteristics (revision of ANSI C78.81-2003)

This standard sets forth the physical and electrical characteristics of the principal types of fluorescent lamps intended for application on conventional line frequency circuits, and electronic high-frequency circuits.

Single copy price: \$500.00

Order from: Randolph Roy, NEMA (ASC C78); ran\_roy@nema.org; mat\_clark@nema.org

Send comments (with copy to BSR) to: Same

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

### **Revisions**

BSR/ICEA S-76-474-200x, Standard for Neutral Supported Power Cable Assemblies with Weather Resistant Extruded Insulation Rated 600 Volts (revision of ANSI/ICEA S-76-474-2000)

This standard applies to the materials, constructions, and testing of assemblies of extruded dielectric insulated electric current carrying phase conductors and bare or covered neutral electrical conductors used as weather resistant wires and cables suspended from supporting structures for the overhead distribution of electrical energy. This standard is intended to apply to the following multiplexed wire and cable constructions: Neutral Supported Service Drop Cables and Neutral Supported Secondary Distribution Cables.

Single copy price: \$81.25

Order from: Andrei Moldoveanu, NEMA (ASC C8); and\_moldoveanu@nema.org

Send comments (with copy to BSR) to: Same

BSR/ICEA S-81-570-200x, Standard for 600 Volt Rated Cables of Ruggedized Design for Direct Burial Installation as Single Conductors or Assemblies of Single Conductors (revision of ANSI/ICEA S-81-570-2001 (Revision 1))

This standard applies to the materials, constructions, and testing of single conductor cables and assemblies of completed single conductor cables used for the distribution of electrical energy at phase-to-phase voltages not exceeding 600 volts or phase to ground not exceeding 480V, and at temperatures not exceeding 75°C or 90°C, as applicable to the construction. It requires the use of ruggedized extruded insulations to improve the resistance of the cable to certain forms of mechanical damage associated with their intended use as directly buried Secondary Distribution and Service Cables. These cables, when operated within the voltage and temperature limits stated herein, are also suitable for use in other types of installations under the conditions normally associated with those installations.

Single copy price: \$85.00

Order from: Andrei Moldoveanu, NEMA (ASC C8); and\_moldoveanu@nema.org

Send comments (with copy to BSR) to: Same

## **NEMA (ASC C81) (National Electrical Manufacturers Association)**

### **Revisions**

BSR/IEC C81.61-200x, Specifications for Bases (Caps) for Electric Lamps (revision of ANSI C81.61a-1993 (R2003))

C81.61 sets forth the specifications for bases (caps) used on electric Single copy price: \$333.00

Order from: Randolph Roy, NEMA; ran\_roy@nema.org

Send comments (with copy to BSR) to: Same

BSR/IEC C81.62-200x, Electric Lampholders (revision of ANSI/IEC C81.62-2003)

C81.62 sets forth the specifications for lampholders for electric lamps. Single copy price: \$216.00

Order from: Randolph Roy, NEMA; ran\_roy@nema.org

Send comments (with copy to BSR) to: Same

BSR/IEC C81.63-200x, Gauges for Electric Lamp Bases and Lampholders (revision of ANSI/IEC C81.63-2004)

C81.63 sets forth the specifications for gauges for bases (caps) and lampholders for electric lamps.

Single copy price: \$393.00

Order from: Randolph Roy, NEMA; ran\_roy@nema.org

Send comments (with copy to BSR) to: Same

## **NISO (National Information Standards Organization)**

### **New Standards**

BSR/NISO Z39.29-200x, Bibliographic References (new standard)

This standard provides rules, guidelines, and examples for the creation of bibliographic references to all types of print, audiovisual, and electronic materials, both published and unpublished, arranged in fifteen broad categories. This is intended for a broad audience, including the creators of bibliographic references, the processors who publish and otherwise display references, and the ultimate users of the references.

Single copy price: Free

Order from: <http://www.niso.org/standards/index.html>

Send comments (with copy to BSR) to: Jane Thomson, NISO; nisoqh@niso.org

**NSF (NSF International)****Revisions**

BSR/NSF 37-200x (i2), Air Curtains for Entranceways in Food and Food Service Establishments (revision of ANSI/NSF 37-2002)

Issue 2: To incorporate boilerplate language and update normative references.

Single copy price: \$35.00

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

Send comments (with copy to BSR) to: Steve Tackitt, c/o Lorna Badman, NSF; [badman@nsf.org](mailto:badman@nsf.org)

BSR/NSF 51-200x (i4), Food Equipment Materials (revision of ANSI/NSF 51-2002)

Issue 4: To incorporate boilerplate language and update normative references.

Single copy price: \$35.00

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

Send comments (with copy to BSR) to: Steve Tackitt, c/o Lorna Badman, NSF; [badman@nsf.org](mailto:badman@nsf.org)

BSR/NSF 52-200x (i2), Supplemental Flooring (revision of ANSI/NSF 52-1992)

Issue 2: To incorporate boilerplate language and update normative references.

Single copy price: \$35.00

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

Send comments (with copy to BSR) to: Steve Tackitt, c/o Lorna Badman, NSF; [badman@nsf.org](mailto:badman@nsf.org)

BSR/NSF 173-200x (i10), Dietary supplements (revision of ANSI/NSF 173-2003)

Issue 10: Update Normative References, clarify label storage, and reformat location of record retention (to be included under GMPs).

Single copy price: \$35.00

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

Send comments (with copy to BSR) to: Mary Hardy, c/o Jaclyn Bowen, NSF; [bowen@nsf.org](mailto:bowen@nsf.org)

BSR/NSF 173-200x (i11), Dietary supplements (revision of ANSI/NSF 173-2003)

Issue 11: Set limits for peroxides in dietary supplements.

Single copy price: \$35.00

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

Send comments (with copy to BSR) to: Mary Hardy, c/o Jaclyn Bowen, NSF; [bowen@nsf.org](mailto:bowen@nsf.org)

BSR/NSF 173-200x (i12), Dietary supplements (revision of ANSI/NSF 173-2003)

Issue 12: Add section for quality assurance in dietary supplements.

Single copy price: \$35.00

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

Send comments (with copy to BSR) to: Mary Hardy, c/o Jaclyn Bowen, NSF; [bowen@nsf.org](mailto:bowen@nsf.org)

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

- ★ BSR/UL 1684A-200x, Standard for Safety for Supplemental Requirements for Extra Heavy Wall Reinforced Thermosetting Resin Conduit (RTRC) and Fittings (new standard)

These requirements are supplementary to the applicable requirements in the Standard for Reinforced Thermosetting Resin Conduit (RTRC) and Fittings, UL 1684. Products covered by these requirements are for use in the United States only and cover aboveground (AG) extra heavy wall conduit, Type XW (dimensions based on wall thicknesses).

Single copy price: Contact comm2000 for pricing and delivery options

Order from: comm2000

Send comments (with copy to BSR) to: Paul Lloret, UL-CA; [Paul.E.Lloret@us.ul.com](mailto:Paul.E.Lloret@us.ul.com)

**Revisions**

BSR/UL 541-200x, Standard for Safety for Refrigerated Vending Machines (revision of ANSI/UL 541-2004)

Adds ground fault circuit interrupter (GFCI) requirements for cord-connected refrigerated vending machines.

Single copy price: Contact comm2000 for pricing and delivery options

Order from: comm2000

Send comments (with copy to BSR) to: Beth Northcott, UL-IL; [Elizabeth.Northcott@us.ul.com](mailto:Elizabeth.Northcott@us.ul.com)

BSR/UL 751-200x, Standard for Safety for Vending Machines (revision of ANSI/UL 751-2004)

Adds ground fault circuit interrupter (GFCI) requirements for cord-connected vending machines.

Single copy price: Contact comm2000 for pricing and delivery options

Order from: comm2000

Send comments (with copy to BSR) to: Beth Northcott, UL-IL; [Elizabeth.Northcott@us.ul.com](mailto:Elizabeth.Northcott@us.ul.com)

BSR/UL 1419-200x, Standard for Safety for Professional Video and Audio Equipment (Proposal dated 5-6-05) (revision of ANSI/UL 1419-2005)

1) Revision of requirements to address double-insulation equipment;  
2) Deletion of Appendix B and update of UL standard references.

Single copy price: Contact comm2000 for pricing and delivery options

Order from: comm2000

Send comments (with copy to BSR) to: Patricia Sena, UL-NY; [Patricia.A.Sena@us.ul.com](mailto:Patricia.A.Sena@us.ul.com)

BSR/UL 1429-200x, Standard for Pullout Switches (revision of ANSI/UL 1429-2003)

Request for comments on the proposed revisions to the Fourth Edition of the Standard for Pullout Switches, UL 1429.

Single copy price: Contact comm2000 for pricing and delivery options

Order from: comm2000

Send comments (with copy to BSR) to: Tim Lupo, UL-NC; [Timothy.E.Lupo@us.ul.com](mailto:Timothy.E.Lupo@us.ul.com)

BSR/UL 2182-200x, Standard for Safety for Refrigerants (revision of ANSI/UL 2182-2000)

This standard contains test procedures and methods to evaluate refrigerants and mark their containers according to the extent of the refrigerant's flammability. The refrigerants covered in this standard are intended for use as components of air-conditioning and refrigeration equipment.

Single copy price: Contact comm2000 for pricing and delivery options

Order from: comm2000

Send comments (with copy to BSR) to: Jeff Prusko, UL-IL; [Jeffrey.Prusko@us.ul.com](mailto:Jeffrey.Prusko@us.ul.com)

- ★ BSR/UL 60335-2-3-200x, Standard for Safety for Household and Similar Electrical Appliances - Part 2: Particular Requirements for Electric Irons (revision of ANSI/UL 60335-2-3-2004)

Revision of the IEC text to harmonize with amendment 1 of IEC 60335-2-3 published in October 2004.

Single copy price: Contact comm2000 for pricing and delivery options

Order from: comm2000

Send comments (with copy to BSR) to: Amy Walker, UL-IL; [Amy.K.Walker@us.ul.com](mailto:Amy.K.Walker@us.ul.com)

# Comment Deadline: July 5, 2005

Reaffirmations and withdrawals available electronically may be accessed at: [webstore.ansi.org](http://webstore.ansi.org)

## ASME (American Society of Mechanical Engineers)

### New Standards

BSR/ASME A112.19.16-200x, Terrazzo Fixture Requirements (new standard)

Establishes the minimum requirements for terrazzo materials that are used to manufacture plumbing fixtures for general use. It includes material, structural and physical test requirements and marking and identification of fixtures complying with this Standard.

Single copy price: \$20.00

Order from: Mayra Santiago, ASME; [ANSIBOX@asme.org](mailto:ANSIBOX@asme.org)  
Send comments (with copy to BSR) to: Calvin Gomez, ASME; [gomezc@asme.org](mailto:gomezc@asme.org)

BSR/ASME B30.27-200x, Material Placement Systems (new standard)  
Includes provisions that apply to the construction, installation, operation, inspection, and maintenance of mobile material placing booms, mobile telescoping boom conveyors, separate placing booms, and material placement accessories. This standard does not apply to the pumping elements of a concrete pump, conveyors, mortar conveying or spraying machines, or dry mix shotcreting machines.

Single copy price: \$20.00

Order from: Mayra Santiago, ASME; [ANSIBOX@asme.org](mailto:ANSIBOX@asme.org)  
Send comments (with copy to BSR) to: Joseph Wendler, ASME; [wendlerj@asme.org](mailto:wendlerj@asme.org)

### Revisions

BSR/ASME B16.1-200x, Gray Iron Pipe Flanges and Flanged Fittings (revision of ANSI/ASME B16.1-1998)

This Standard for Classes 25, 125, and 250 cast iron pipe flanges and flanged fittings covers:

- Pressure-temperature ratings;
- Sizes and method of designating openings of reducing fittings;
- Marking;
- Minimum requirements for materials;
- Dimensions and tolerances;
- Bolt, nut, and gasket dimensions; and
- Testing.

Single copy price: \$40.00

Order from: Mayra Santiago, ASME; [ANSIBOX@asme.org](mailto:ANSIBOX@asme.org)  
Send comments (with copy to BSR) to: Gerardo Moino, ASME; [moinog@asme.org](mailto:moinog@asme.org)

BSR/ASME Y14.2-200x, Line Conventions and Lettering (revision of ANSI/ASME Y14.2M-1992 (R2003))

This Standard establishes the line and lettering practices for use in the preparation of drawings, including the recognition of the requirements for Computer Aided Design (CAD) and manually prepared drawings.

Single copy price: \$20.00

Order from: Mayra Santiago, ASME; [ANSIBOX@asme.org](mailto:ANSIBOX@asme.org)  
Send comments (with copy to BSR) to: Calvin Gomez, ASME; [gomezc@asme.org](mailto:gomezc@asme.org)

### Supplements

BSR/ASME OMa Code-200x, Code for Operation and Maintenance of Nuclear Power Plants (supplement to ANSI/ASME OM Code-2004)

This Code establishes the requirements for preservice and inservice testing and examination of certain components to assess their operational readiness in light water reactor power plants.

Single copy price: \$20.00

Order from: Mayra Santiago, ASME; [ANSIBOX@asme.org](mailto:ANSIBOX@asme.org)  
Send comments (with copy to BSR) to: Shannon Burke, ASME; [burkes@asme.org](mailto:burkes@asme.org)

## AWS (ASC Z49) (American Welding Society)

### Revisions

BSR Z49.1-200x, Safety in Welding, Cutting, and Allied Processes (revision of ANSI Z49.1-1999)

This standard covers all aspects of safety and health in the welding environment, emphasizing oxygen gas and arc welding processes with some coverage given to resistance welding. It contains information on protection of personnel and the general area, ventilation, fire prevention and protection, and confined spaces. A significant section is devoted to precautionary information, showing examples, and an extensive bibliography is included.

Single copy price: \$34.00

Order from: R. O'Neill, AWS; [roneill@aws.org](mailto:roneill@aws.org)  
Send comments (with copy to BSR) to: Andrew Davis, AWS; [adavis@aws.org](mailto:adavis@aws.org); [roneill@aws.org](mailto:roneill@aws.org)

## AWWA (American Water Works Association)

### Revisions

BSR/AWWA C220-200x, Stainless-Steel Pipe, 1/2 In. (13 mm) and Larger (revision of ANSI/AWWA C220-1998)

This standard pertains to unannealed austenitic stainless-steel pipe that is longitudinal-seam or spiral-seam welded, 1/2 in. (13 mm) in nominal diameter and larger, and that is intended for the transmission and distribution of water and for use in other water-supply system facilities. These materials are especially suited for the handling of high-purity, deionized and ozonated water.

Single copy price: \$20.00

Order from: Jim Wailes, AWWA; [jwailes@awwa.org](mailto:jwailes@awwa.org)  
Send comments (with copy to BSR) to: Same

## EIA (Electronic Industries Alliance)

### New Standards

BSR/EIA/ECA 364-110-200x, Thermal Cycling Test Procedure for Electrical Connectors (new standard)

Establishes a test method to determine the effectiveness of connectors to exposure at extremes of high and low temperatures at a specified ramp up and ramp down rates.

Single copy price: \$50.00

Order from: Cecelia Yates, EIA; [cyates@ecaus.org](mailto:cyates@ecaus.org)  
Send comments (with copy to BSR) to: Same

### Revisions

BSR/EIA 469-D-200x, Test Method for Destructive Physical Analysis (DPA) of Ceramic Monolithic Capacitors (revision of ANSI/EIA 469-C-1997)

Provides terminology, methods, and criteria for characterizing the internal structural features of monolithic, ceramic dielectric capacitors.

Single copy price: \$72.00

Order from: Cecelia Yates, EIA; [cyates@ecaus.org](mailto:cyates@ecaus.org)  
Send comments (with copy to BSR) to: Same

## IEEE (Institute of Electrical and Electronics Engineers)

### Revisions

BSR/IEEE 957-200x, Guide for Cleaning Insulators (revision of ANSI/IEEE 957-1995)

Documents the procedures used for cleaning contaminated electrical insulators (excluding nuclear, toxic and hazardous chemical contaminants) using varied equipment and techniques.

Single copy price: N/A

Order from: David Ringle, IEEE; [d.ringle@ieee.org](mailto:d.ringle@ieee.org)  
Send comments (with copy to BSR) to: Same



## 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:

### **ATIS (ASC O5) (Alliance for Telecommunications Industry Solutions)**

BSR O5.1d-200x, Supplement to ANSI O5.1-2002 (supplement to ANSI O5.1-2002)

## Correction

### **BSR DTSU X9.108-2005**

In the April 29, 2005 issue of Standards Action, BSR DTSU X9.108-2005 was listed with an incorrect termination date in its trial use period. The correct trial use period for this draft standard is April 6, 2005 through April 6, 2006.

# 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](mailto:standact@ansi.org).

## Order from:

### AAMI

Association for the Advancement  
of Medical Instrumentation  
(AAMI)  
1110 N Glebe Road  
Suite 220  
Arlington, VA 22201  
Phone: (703) 525-4890 x229

Fax: (703) 276-0793  
Web: [www.aami.org](http://www.aami.org)

### AMCA

Air Movement and Control  
Association  
30 West University Drive  
Arlington Heights, IL 60004-1893  
Phone: (847) 394-0150  
Fax: (847) 253-0088  
Web: [www.amca.org](http://www.amca.org)

### ANSI

American National Standards  
Institute  
25 West 43rd Street  
4th Floor  
New York, NY 10036  
Phone: (212) 642-4980  
Web: [www.ansi.org](http://www.ansi.org)

### ASA (ASC S1)

ASC S1  
35 Pinelawn Road Suite 114E  
Melville, NY 11747  
Phone: (631) 390-0215  
Fax: (631) 390-0217  
Web: [asa.aip.org/index.html](http://asa.aip.org/index.html)

### ASC X9

Accredited Standards Committee  
X9, Incorporated  
P.O. Box 4035  
Annapolis, MD 21403  
Phone: (301) 879-7988  
Fax: (301) 879-5124  
Web: [www.x9.org](http://www.x9.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](http://www.asme.org)

### ASTM

ASTM International  
100 Barr Harbor Drive  
West Conshohocken, PA  
19428-2959  
Phone: 610-832-9743  
Web: [www.astm.org](http://www.astm.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](http://www.aws.org)

### AWWA

American Water Works  
Association  
6666 West Quincy Avenue  
Denver, CO 80235  
Phone: (303) 347-6177  
Fax: (303) 795-7603  
Web:  
[www.awwa.org/asp/default.asp](http://www.awwa.org/asp/default.asp)

### comm2000

1414 Brook Drive  
Downers Grove, IL 60515  
Web: [www.comm-2000.com](http://www.comm-2000.com)

### EIA

Electronic Industries Alliance  
2500 Wilson Blvd., Suite 300  
Arlington, VA 22201-3834  
Phone: (703) 907-7561  
Fax: (703) 907-7549  
Web: [www.eia.org](http://www.eia.org)

### 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) 562-1571  
Web: [www.ieee.org](http://www.ieee.org)

### IPC

IPC - Association Connecting  
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2215 Sanders Road  
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Fax: (847) 509-9798  
Web: [www.ipc.org](http://www.ipc.org)

### NEMA (ASC C78)

National Electrical Manufacturers  
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Fax: (703) 841-3377  
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### NEMA (ASC C8)

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### NISO

National Information Standards  
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4733 Bethesda Avenue, Suite 300  
Bethesda, MD 20814  
Phone: (301) 654-2512  
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### NSF

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789 N. Dixboro Rd  
Ann Arbor, MI 48105  
Phone: (734) 769-5139  
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Web: [www.nsf.org](http://www.nsf.org)

## Send comments to:

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Fax: (847) 253-0088  
Web: [www.amca.org](http://www.amca.org)

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ASC S1  
35 Pinelawn Road Suite 114E  
Melville, NY 11747  
Phone: (631) 390-0215  
Fax: (631) 390-0217  
Web: [asa.aip.org/index.html](http://asa.aip.org/index.html)

### ASC X9

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X9, Incorporated  
P.O. Box 4035  
Annapolis, MD 21403  
Phone: (301) 879-7988  
Fax: (301) 879-5124  
Web: [www.x9.org](http://www.x9.org)

### ASHRAE

American Society of Heating,  
Refrigerating and  
Air-Conditioning Engineers, Inc.  
1791 Tullie Circle, N.E.  
Atlanta, GA 30329  
Phone: (404) 636-8400  
Fax: (404) 321-5478  
Web: [www.ashrae.org](http://www.ashrae.org)

### ASME

American Society of Mechanical  
Engineers (ASME)  
3 Park Avenue, 20th Floor  
New York, NY 10016  
Phone: (212) 591-7021  
Fax: (212) 591-8501  
Web: [www.asme.org](http://www.asme.org)

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100 Barr Harbor Drive  
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19428-2959  
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Web: [www.astm.org](http://www.astm.org)

### AWS

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550 N.W. LeJeune Road  
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Phone: (305) 443 9353 Ext. 466  
(800) 443 9353 Ext. 466  
Fax: (305) 443-5951  
Web: [www.aws.org](http://www.aws.org)

### AWWA

American Water Works  
Association  
6666 West Quincy Avenue  
Denver, CO 80235  
Phone: (303) 347-6177  
Fax: (303) 795-7603  
Web:  
[www.awwa.org/asp/default.asp](http://www.awwa.org/asp/default.asp)

### EIA

Electronic Industries Alliance  
2500 Wilson Blvd., Suite 300  
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Fax: (703) 907-7549  
Web: [www.eia.org](http://www.eia.org)

### 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) 562-1571  
Web: [www.ieee.org](http://www.ieee.org)

### IPC

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2215 Sanders Road  
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Web: [www.ipc.org](http://www.ipc.org)

### NEMA (ASC C78)

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1300 North 17th Street, Suite 1847  
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Web: [www.nema.org](http://www.nema.org)

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Phone: (703) 841-3290  
Fax: (703) 841-3398  
Web: [www.nema.org](http://www.nema.org)

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4733 Bethesda Avenue, Suite 300  
Bethesda, MD 20814  
Phone: (301) 654-2512  
Fax: (301) 654-1721  
Web: [www.niso.org](http://www.niso.org)

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789 N. Dixboro Rd  
Ann Arbor, MI 48105  
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Fax: (734) 827-6162  
Web: [www.nsf.org](http://www.nsf.org)

### UL-CA

Underwriters Laboratories, Inc.  
1655 Scott Boulevard  
Santa Clara, CA 95050  
Phone: (408) 985-2400 x32410  
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### UL-IL

Underwriters Laboratories, Inc.  
333 Pfingsten Road  
Northbrook, IL 60062-2096  
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Melville, NY 11747-3081  
Phone: (631) 271-6200 ext 22735,  
or 803-787-1398

# Initiation of Canvasses

The following ANSI-accredited standards developers have announced their intent to conduct a canvass on the proposed American National Standard(s) listed herein in order to develop evidence of consensus for submittal to ANSI for approval as an American National Standard. Directly and materially affected interests wishing to participate as a member of a canvass list, i.e., consensus body, should contact the sponsor of the standard within 30 days of the publication date of this issue of Standards Action. Please also review the section entitled "American National Standards Maintained Under Continuous Maintenance" contained in Standards Action for information with regard to canvass standards maintained under the continuous maintenance option.

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## **ALI (Automotive Lift Institute)**

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BSR/ALI ALOIM-200x, Automotive Lifts - Safety Requirements for  
Operation, Inspection and Maintenance (revision of ANSI/ALI  
ALOIM-2000)

# 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.

## ASA (ASC S1) (Acoustical Society of America)

### Reaffirmations

ANSI S1.16-2000 (R2005), Method for Measuring the Performance of Noise Discriminating and Noise Canceling Microphones (reaffirmation of ANSI S1.16-2000): 4/27/2005

## ASA (ASC S2) (Acoustical Society of America)

### Withdrawals

ANSI S2.38-1982, Field Balancing Equipment - Description and Evaluation (withdrawal of ANSI S2.38-1982 (R2001)): 4/27/2005

ANSI S2.40-1984, Mechanical Vibration of Rotating and Reciprocating Machinery - Requirements for Instruments for Measuring Vibration Severity (withdrawal of ANSI S2.40-1984 (R2001)): 4/27/2005

## ASME (American Society of Mechanical Engineers)

### Revisions

ANSI/ASME B18.2.3.2M-2005, Metric Formed Hex Screws (revision of ANSI/ASME B18.2.3.2M-1979 (R1995)): 4/29/2005

## ASNT (American Society for Non-Destructive Testing)

### New Standards

ANSI/ASNT ILI-PQ-2005, In-Line Inspection Personnel Qualification and Certification Standard (new standard): 5/2/2005

## ASTM (ASTM International)

### New Standards

ANSI/ASTM D7096-2005, Test Method for Determination of the Boiling Range Distribution of Gasoline by Wide-Bore Capillary Gas Chromatography (new standard): 2/1/2005

ANSI/ASTM D7097-2005, Test Method for Determination of Moderately High Temperature Piston Deposits by Thermo-Oxidation Engine Oil Simulation Test (TEOST MHT) (new standard): 2/1/2005

ANSI/ASTM D7098-2005, Test Method for Oxidation Stability of Lubricants by Thin-Film Oxygen Uptake (TFOUT)1 Catalyst B2 (new standard): 2/1/2005

ANSI/ASTM D7110-2005, Test Method for Determining the Viscosity-Temperature Relationship of Used and Soot-Containing Engine Oils at Low Temperatures (new standard): 2/1/2005

ANSI/ASTM D7111-2005, Standard Test Method for Determination of Trace Elements in Middle Distillate Fuels by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES) (new standard): 2/1/2005

ANSI/ASTM F2440-2005, Specification for Indoor Wall/feature Padding (new standard): 2/28/2005

### Reaffirmations

ANSI/ASTM D748-2000 (R2005), Specification for Natural Block Mica and Mica Films Suitable for Use in Fixed Mica-Dielectric Capacitors (reaffirmation of ANSI/ASTM D748-2000): 4/25/2005

ANSI/ASTM D1082-2000 (R2005), Test Method for Dissipation Factor and Permittivity Dielectric Constant of Mica (reaffirmation of ANSI/ASTM D1082-2000): 4/25/2005

ANSI/ASTM D1125-1999 (R2005), Test Methods for Electrical Conductivity and Resistivity of Water (reaffirmation of ANSI/ASTM D1125-1999): 1/5/2005

ANSI/ASTM D2413-2000 (R2005), Practice for Preparation of Insulating Paper and Board Impregnated with a Liquid Dielectric (reaffirmation of ANSI/ASTM D2413-2000): 4/25/2005

ANSI/ASTM D5391-2001 (R2005), Test Method for Electrical Conductivity and Resistivity of a Flowing High Purity Water Sample (reaffirmation of ANSI/ASTM D5391-2001): 1/5/2005

### Revisions

ANSI/ASTM D525-2005, Test Method for Oxidation Stability of Gasoline Induction Period Method (revision of ANSI/ASTM D525-2000): 2/1/2005

ANSI/ASTM D1835-2005, Specification for Liquefied Petroleum (LP) Gases (revision of ANSI/ASTM D1835-2003a): 2/1/2005

ANSI/ASTM D4927-2005, Test Methods for Elemental Analysis of Lubricant and Additive Components - Barium, Calcium, Phosphorus, Sulfur, and Zinc by Wavelength-Dispersive X-Ray Fluorescence Spectroscopy (revision of ANSI/ASTM D4927-2002): 2/1/2005

ANSI/ASTM D5133-2005, Test Method for Low Temperature, Low Shear Rate, Viscosity/Temperature Dependence of Lubricating Oils Using a Temperature-Scanning Technique (revision of ANSI/ASTM D5133-2001): 2/1/2005

ANSI/ASTM D5304-2005, Test Method for Assessing Middle Distillate Fuel Storage Stability by Oxygen Overpressure (revision of ANSI/ASTM D5304-2003): 2/1/2005

ANSI/ASTM D5760-2005, Specification for Performance of Manual Transmission Gear Lubricants (revision of ANSI/ASTM D5760-1995E1): 2/1/2005

ANSI/ASTM D6439-2005, Guide for Cleaning, Flushing, and Purification of Steam, Gas, and Hydroelectric Turbine Lubrication Systems (revision of ANSI/ASTM D6439-1999): 2/1/2005

ANSI/ASTM D7038-2005, Test Method for Evaluation of Moisture Corrosion Resistance of Automotive Gear Lubricants (revision of ANSI/ASTM D7038-2004): 2/1/2005

ANSI/ASTM E23-2005, Test Methods for Notched Bar Impact Testing of Metallic Materials (revision of ANSI/ASTM E23-2003): 4/25/2005

ANSI/ASTM E1239-2005, Guide for Description of Reservation/Registration-Admission, Discharge, Transfer (R-ADT) Systems for Electronic Health Record (EHR) Systems (revision of ANSI/ASTM E1239-2000): 3/15/2005

ANSI/ASTM E1744-2005, Guide for a View of Emergency Medical Care in the Computerized Patient Record (revision of ANSI/ASTM E1744-2004): 3/15/2005

ANSI/ASTM E1869-2005, Guide for Confidentiality, Privacy, Access, and Data Security Principles for Health Information Including Computer-Based Patient Records (revision of ANSI/ASTM E1869-1997): 3/15/2005

## EIA (Electronic Industries Alliance)

### New Standards

ANSI/EIA 364-56B-2005, Resistance to Soldering Heat Test Procedure for Electrical Connectors and Sockets (new standard): 4/27/2005

**HL7 (Health Level Seven)*****New Standards***

ANSI/HL7 V3 AB, R1-2005, HL7 Version 3 Standard: Accounting and Billing, Release 1 (new standard): 4/25/2005

ANSI/HL7 V3 RRCS, R1-2005, HL7 Version 3 Standard: Individual Case Safety Report, Release 1 (new standard): 4/25/2005

***Revisions***

ANSI/HL7 Arden V2.5-2005, Health Level Seven Arden Syntax, Version 2.5 (revision of ANSI/HL7 Arden V2.1-2002): 4/25/2005

**IEEE (Institute of Electrical and Electronics Engineers)*****New National Adoptions***

ANSI/IEEE 15288-2004, Adoption of ISO/IEC 15288-2002, Systems Engineering - System Life Cycle Processes (identical national adoption): 4/28/2005

***New Standards***

ANSI/IEEE 1441-2004, Guide for Inspection of Overhead Transmission Line Construction (new standard): 4/28/2005

**MHI (Material Handling Industry)*****New Standards***

ANSI MH30.2-2005, Portable Dock Leveling Devices: Safety, Performance, and Testing (new standard): 4/28/2005

ANSI MH30.3-2005, Vehicle Restraining Devices: Safety, Performance, and Testing (new standard): 4/28/2005

**NSF (NSF International)*****Revisions***

ANSI/NSF 53-2005 (i42), Drinking water treatment units - Health effects (revision of ANSI/NSF 53-2002a): 4/4/2005

**TCIA (ASC A300) (Tree Care Industry Association)*****New Standards***

ANSI A300 (Part 6)-2005, Tree Care Operations - Tree, Shrub, and Other Woody Plant Maintenance - Standard Practices (Transplanting) (new standard): 4/29/2005

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

- ★ ANSI/UL 60745-1-200x, Standard for Safety for Hand-Held Motor-Operated Electric Tools - Safety - Part 1: General Requirements (revision of ANSI/UL 60745-1-2004): 4/22/2005

**Correction****ANSI/HL7 CTS, V1-2005**

In the Final Actions listing of the 4/29/2005 edition of Standards Action, the title for ANSI/HL7 CTS, V1-2005 was printed incorrectly. The correct title is: "Health Level Seven Standard: Common Terminology Services, Version 1".

# Project Initiation Notification System (PINS)

ANSI Procedures require notification of ANSI by ANSI-accredited standards developers of the initiation and scope of activities expected to result in new or revised American National Standards. This information is a key element in planning and coordinating American National Standards. 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 new American National Standards or revisions to existing American National Standards that have been received from ANSI-accredited standards developers that utilize the periodic maintenance option in connection with their standards. Please also review the section entitled "American National Standards Maintained Under Continuous Maintenance" contained in Standards Action for comparable information with regard to standards maintained under the continuous maintenance option. Directly and materially affected interests wishing to receive more information should contact the standards developer directly.

## ALI (Automotive Lift Institute)

**Office:** PO Box 85  
Cortland, NY 13045

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**Fax:** (607) 756-0888

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BSR/ALI ALOIM-200x, Automotive Lifts - Safety Requirements for Operation, Inspection and Maintenance (revision of ANSI/ALI ALOIM-2000)

Stakeholders: All automotive service facilities employing automotive

Project Need: Revision of an existing ANS required by five-year rule.

This standard provides guidance to the owner or employer for the operation, inspection and maintenance of installed automotive lifts including the required qualifications, training, reporting and documentation for operators, inspectors and maintenance personnel.

## ASB (ASC Z50) (American Society of Baking)

**Office:** P.O. Box 35  
Williamsport, PA 17703-0035

**Contact:** Charles Steward

**Fax:** (570) 494-1782

**E-mail:** tobys@tnanarobag.com

BSR Z50.1-2000 (R200x), Bakery Equipment - Safety Requirements (reaffirmation of ANSI Z50.1-2000)

Stakeholders: Baking Industry.

Project Need: Standard will be updated per standard 5 year review.

The standard addresses safety requirements for bakeries and the equipment in the bakeries.

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

**Office:** 1791 Tullie Circle NE  
Atlanta, GA 30329

**Contact:** Stephanie Reiniche

**E-mail:** sreyniche@ashrae.org

BSR/ASHRAE 128-200x, Method of Rating Unitary Spot Air Conditioners (new standard)

Stakeholders: Consumers.

Project Need: The purpose of this standard is to establish a uniform set of requirements for rating unitary spot air conditioners.

This standard applies to unitary air-conditioners that cool a zone within a space and discharge the rejected heat back into that space. Air leaving the evaporator and condenser is discharged into the same space and there is no physical boundary separating those discharges.

## ASME (American Society of Mechanical Engineers)

**Office:** 3 Park Avenue, 20th Floor (20N2)  
New York, NY 10016

**Contact:** Mayra Santiago

**Fax:** (212) 591-8501

**E-mail:** ANSIBOX@asme.org

BSR/ASME B89.4.19-200x, Performance Evaluation of Laser Based Spherical Coordinate Measurement Systems (new standard)

Stakeholders: B89.4.19 will most likely impact aircraft manufacturers and other makers of large-scale machinery. Others potentially impacted include metrologists involved in large antenna measurements and the alignment of particle accelerators.

Project Need: Laser trackers are widely used in industry, but there has been no systematic approach for validating the performance of these instruments. Provides information for potential buyers of laser trackers as well as users of laser trackers.

The Standard specifies the geometry and measurement procedure for a set of point-to-point length measurements. The results of these measurements are compared with stated maximum permissible error specifications in order to decide conformance to specification.

## ASTM (ASTM International)

**Office:** 100 Barr Harbor Drive  
West Conshohocken, PA 19428-2959

**Contact:** Helene Skloff

**E-mail:** hskloff@astm.org

BSR/ASTM WK4473-200x, Standard Practice for the Repair of Damaged Lateral or Sewer Pipe using a Resin-Impregnated Fiberglass Cure-in-Place Patch (new standard)

Stakeholders: Designers, specifiers, regulatory agencies and inspection organizations.

Project Need: No standard currently exist for the repair of only the damaged section of an underground pipe without excavation.

This practice describes procedures for the sectional repair of a pipeline or conduit by the installation of a resin-impregnated fiberglass patch. The fiberglass patch is installed into the existing pipe by use of an inflatable device and air pressure. Curing of the resin-impregnated fiberglass patch shall be accomplished at ambient temperature and shall result in a hard, impermeable, corrosion-resistant pipe within a pipe.

BSR/ASTM WK7784-200x, Standard Test Method for Exposure of Crosslinked Polyethylene to Ultraviolet (UV) Radiation (new standard)

Project Need: There is a known issue that PEX tubing will be exposed to sunlight prior to installation.

To develop a test method to test resistance of PEX to UV.

BSR/ASTM WK7809-200x, Test Method for Quick Burst Testing of Joint Restraint Devices for Use on PVC Pipe (new standard)

Project Need: F1674 is currently a hybrid standard. Product specification and test methods are currently rolled into the same standard. Separating the test method from the product specification will correct this.

Will be used to improve F1674. The project Number is 40-05-06.

BSR/ASTM WK7811-200x, Test Method for Cyclic Testing of Joint Restraint Devices for Use on PVC Pipe (new standard)

Project Need: F1674 is currently a hybrid. It has both product specification requirements and test methods. Separating the product specification requirements from the test methods will correct this.

Describes the test method for cyclic testing of joint restraint devices for use on PVC pipe.

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

**Office:** 1200 G Street NW, Suite 500  
Washington, DC 20005

**Contact:** Susan Carioti

**Fax:** (202) 347-7125

**E-mail:** scarioti@atis.org; acolon@atis.org

BSR ATIS 0300236-200x, Signaling System 7 (SS7) - ISDN User Part Compatibility Testing (revision and redesignation of ANSI T1.236-2000 (R2004))

Stakeholders: Telecom.

Project Need: To provide for consistent and standard compatibility testing.

This standard addresses the testing required for internetwork connections employing Common Channel Signaling (CCS) based on Signaling System No. 7 (SS7) protocol used in North America. The internetwork connection may be either within or between North American countries. This standard provides a list of test scripts for testing compatibility between the interconnecting networks of the ISDN User Part (ISUP) of the SS7 Protocol used for call control and circuit supervision. This standard references material in ANSI T1 SS7 protocol standards.

#### CSA (ASC Z21/83) (CSA America, Inc.)

**Office:** 8501 East Pleasant Valley Road  
Cleveland, OH 44131-5575

**Contact:** Allen Callahan

**Fax:** (216) 642-3463

**E-mail:** al.callahan@csa-america.org

BSR Z21.5.1-200x, Gas Clothes Dryer, Volume I, Type 1 Clothes Dryers (Same as CSA 7.1) (revision of ANSI Z21.5.1-2001)

Stakeholders: Consumers, manufacturers, gas suppliers and certification agencies.

Project Need: Revise standard for safety.

Details test and examination criteria for Type 1 clothes dryers for use with natural, manufactured or mixed gases, liquefied petroleum gases or LP gas-air mixtures.

BSR Z21.5.2a-200x, Gas Clothes Dryer, Volume II, Type 2 Clothes Dryers (same as CSA 7.2a) (addenda to ANSI Z21.5.2-2004)

Stakeholders: Consumers, manufacturers, gas suppliers and certification agencies.

Project Need: Revise standard for safety.

Details test and examination criteria for Type 2 clothes dryers for use with natural, manufactured or mixed gases, liquefied petroleum gases or LP gas-air mixtures.

#### EIA (Electronic Industries Alliance)

**Office:** 2500 Wilson Blvd., Suite 300  
Arlington, VA 22201-3834

**Contact:** Cecelia Yates

**Fax:** (703) 907-7549

**E-mail:** cyates@ecaus.org

BSR/EIA 364-55-200x, Current Cycling Test for Electrical Connectors (new standard)

Stakeholders: Electrical, electronics and telecommunications

Project Need: This standard is being revised and reformatted as part of the 5 year review process.

This standard establishes test methods to determine the current cycling characteristics of mated electrical contacts or conductor-to-contact terminations.

#### IEEE (ASC N42) (Institute of Electrical and Electronics Engineers)

**Office:** 445 Hoes Lane, PO Box 1331  
Piscataway, NJ 08855-1331

**Contact:** William Ash

**Fax:** (732) 562-1571

**E-mail:** w.ash@ieee.org

BSR N323C-200x, Radiation Protection Instrumentation Test and Calibration - Air Monitoring Instruments (new standard)

Stakeholders: Includes the USDHS, USDOE, USNRC, USDHHS, USEPA, nuclear power plants, nuclear fuel processors, universities, medical facilities, nuclear material accountability, and the same agencies and facilities internationally.

Project Need: There have been many advances in the technology since the original standard was issued.

This standard establishes test and calibration requirements for air-monitoring instruments used for detection and measurement of airborne radioactive substances. The appendix of this standard provides reference information. The standard covers the following topics:

- Test and calibration elements of a comprehensive air monitoring instrument program;
- Test and calibration requirements for all types of air monitoring instruments;
- Additional requirements for specialized monitors;
- Calibration for special conditions;
- Required conditions, facilities, and equipment, and
- Documentation.

#### ISA (ISA-The Instrumentation, Systems, and Automation Society)

**Office:** 67 Alexander Drive  
Research Triangle Park, NC 27709

**Contact:** Loanna Overcash

**Fax:** (919) 549-8288

**E-mail:** Lovercash@ISA.org

BSR/ISA 18.00.02-200x, Alarm Systems Management and Design Guide (new standard)

Stakeholders: Users of automation equipment in the chemical, food, petroleum, pharmaceutical, and utility industries as well as discrete assembly line manufacturers.

Project Need: To provide recommended practices in the United States for the design, implementation, and maintenance of alarm systems beyond the existing ISA-18.1 standard for annunciators on panels.

The standard is intended to provide guidance in alarm management for industrial facilities over the entire life cycle from the planning stage, including the development of a philosophy, through the continuous improvement stage, including performance management. This guidance applies to platforms consisting of programmable electronic systems and processor based graphical user interfaces.



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

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

**Contact:** *Andrei Moldoveanu*

**Fax:** (703) 841-3398

**E-mail:** and\_moldoveanu@nema.org

BSR/ICEA S-105-692-200x, 600 Volt Single Layer Thermoset Insulated Utility Underground Distribution Cables (revision of ANSI/ICEA S-105-692-2000)

Stakeholders: Electric utilities.

Project Need: Normal maintenance.

This standard applies to the materials, constructions, and testing of single conductor cables and assemblies of completed single conductor thermoset insulated cables, with an insulated or bare copper or an insulated aluminum neutral, used for the distribution of electrical energy at phase-to-phase voltages not exceeding 600 volts, or phase-to-ground voltage not exceeding 480 volts, 60 Hz, and at conductor temperatures not exceeding 90°C for use in direct burial and underground ducts.

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

**Office:** 1655 Scott Boulevard  
Santa Clara, CA 95050

**Contact:** *Kristin Andrews*

**Fax:** (408) 556-6045

**E-mail:** Kristin.L.Andrews@us.ul.com

BSR/UL 1573-200x, Stage and Studio Luminaires and Connector Strips (new standard)

Stakeholders: Manufacturers of stage lighting, theater technicians, photographers.

Project Need: First ANSI designation of standard.

Covers stage and studio luminaires rated 600 volts or less for use in theaters, studios, and similar locations. Includes borderlights, spotlights, floodlights, footlights, professional photographic lights, portable strip lights, etc, that use incandescent, fluorescent, high-intensity discharge, xenon, and other high-pressure electric discharge lamps, as well as connector strips, drop boxes, and the like, when rigged similarly to borderlights.

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

**Office:** 1655 Scott Boulevard  
Santa Clara, CA 95050

**Contact:** *Paul Lloret*

**Fax:** (408) 556-6045

**E-mail:** Paul.E.Lloret@us.ul.com

BSR/UL 971-200x, Standard for Safety for Nonmetallic Underground Piping for Flammable Liquids (new standard)

Stakeholders: Manufacturers.

Project Need: New ANSI approval.

These requirements cover primary carrier, secondary containment, integral primary/secondary containment, normal vent and vapor recovery, nonmetallic pipe, fittings, and systems (products) intended for use underground in the distribution of petroleum-based flammable and combustible liquids, alcohols, and alcohol-blended fuels as identified in this standard.

## 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.

- AAMVA
- AGRSS
- ASC B109 (AGA)
- ASHRAE
- ASME
- ASTM
- NBBPVI
- NSF International
- TIA
- Underwriters Laboratories Inc.

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](http://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 <http://public.ansi.org/ansionline/Documents/Standards%20Activities/American%20National%20Standards/Procedures,%20Guides,%20and%20Forms/>.

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.



# ISO Draft International Standards

This section lists proposed standards that the International Organization for Standardization (ISO) is considering for approval. The proposals have received substantial support within the technical committees or subcommittees that developed them and are now being circulated to ISO members for comment and vote. Standards Action readers interested in reviewing and commenting on these documents should order copies from ANSI.

## Comments

Comments regarding ISO documents should be sent to Henrietta Scully, at ANSI's New York offices. The final date for offering comments is listed after each draft.

## Ordering Instructions

**ISO Drafts can be made available via ANSI's ESS "on-demand" service. Please e-mail your request for an Iso Draft to Customer Service at [sales@ansi.org](mailto: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.**

### **DENTISTRY (TC 106)**

ISO/DIS 16059, Dentistry - Required elements for codification used in data exchange - 7/28/2005, \$62.00

### **EARTH-MOVING MACHINERY (TC 127)**

ISO 5010/DAMd1, Additional requirements for non-steering-wheel-operated steering systems - 7/28/2005, \$39.00

### **HEALTH INFORMATICS (TC 215)**

ISO/DIS 20302, Health informatics - Health cards - Numbering system and registration procedure for issuer identifiers - 7/30/2005, \$45.00

### **INDUSTRIAL AUTOMATION SYSTEMS AND INTEGRATION (TC 184)**

ISO/DIS 15531-43, Industrial automation systems and integration - Industrial manufacturing management data - Part 43: Manufacturing flow management data: Data model for flow monitoring and manufacturing data exchange - 7/28/2005, \$87.00

ISO/DIS 18629-14, Industrial automation systems and integration - Process specification language - Part 14: Resource theories - 7/30/2005, \$87.00

### **MACHINE TOOLS (TC 39)**

ISO/DIS 230-3, Test code for machine tools - Part 3: Determination of thermal effects - 7/31/2005, \$101.00

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

ISO/DIS 3183, Petroleum and natural gas industries - Steel pipe for pipeline transportation systems - 7/30/2005, \$174.00

### **MATERIALS FOR THE PRODUCTION OF PRIMARY ALUMINIUM (TC 226)**

ISO/DIS 5940-2, Carbonaceous materials for the production of aluminium - Pitch for electrodes - Part 2: Determination of the softening point (Mettler softening point method) - 8/4/2005, \$53.00

### **ROAD VEHICLES (TC 22)**

ISO/DIS 16673, Road vehicles - Ergonomic aspects of transport information and control systems - Occlusion method to assess visual distraction due to the use of in-vehicle information and communication systems - 7/31/2005, \$62.00

### **RUBBER AND RUBBER PRODUCTS (TC 45)**

ISO/DIS 812, Rubber, vulcanized or thermoplastic - Determination of low-temperature brittleness - 7/28/2005, \$58.00

ISO/DIS 1437, Rubber compounding ingredients - Carbon black - Determination of sieve residue - 7/28/2005, \$39.00

ISO/DIS 4664-2, Rubber, vulcanized or thermoplastic - Determination of dynamic properties - Part 2: Torsion pendulum methods at low frequencies - 7/31/2005, \$58.00

ISO/DIS 4665, Rubber, vulcanized or thermoplastic - Resistance to weathering - 8/4/2005, \$118.00

### **STEEL (TC 17)**

ISO/DIS 6935-1, Steel for the reinforcement of concrete - Part 1: Plain bars - 8/4/2005, \$53.00

ISO/DIS 6935-2, Steel for the reinforcement of concrete - Part 2: Ribbed bars - 8/4/2005, \$76.00

ISO/DIS 15835-1, Steel for the reinforcement of concrete - Mechanical splices for bars - Part 1: Requirements - 8/4/2005, \$58.00

ISO/DIS 15835-2, Steel for the reinforcement of concrete - Mechanical splices for bars - Part 2: Test methods - 3/3/2005, \$53.00

### **TECHNICAL SYSTEMS AND AIDS FOR DISABLED OR HANDICAPPED PERSONS (TC 173)**

ISO/DIS 24214, Skin barrier adhesive for ostomy aids - Vocabulary - 7/28/2005, \$28.00

### **TRANSFUSION, INFUSION AND INJECTION EQUIPMENT FOR MEDICAL USE (TC 76)**

ISO/DIS 3826-3, Plastics collapsible containers for human blood and blood components - Part 3: Blood bag systems with integrated features - 7/28/2005, \$58.00

### **VACUUM TECHNOLOGY (TC 112)**

ISO/DIS 21360, Vacuum technology - Standard methods for measuring vacuum-pump performance - General description - 7/28/2005, \$87.00

### **WOOD-BASED PANELS (TC 89)**

ISO/DIS 12460-1, Wood-based panels - Determination of formaldehyde release - Part 1: Formaldehyde emission by the 1-cubic-metre chamber method - 7/30/2005, \$71.00

# 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](http://www.ansi.org). All paper copies are available from Global Engineering Documents.

## ISO Standards

### CRANES (TC 96)

[ISO 12488-1:2005](#), Cranes - Tolerances for wheels and travel and traversing tracks - Part 1: General, \$81.00

### FLUID POWER SYSTEMS (TC 131)

[ISO 16873/Amd1:2005](#), Hydraulic fluid power - Pressure switches - Mounting surfaces, \$12.00

### LABORATORY GLASSWARE AND RELATED APPARATUS (TC 48)

[ISO 4788:2005](#), Laboratory glassware - Graduated measuring cylinders, \$39.00

### OPTICS AND OPTICAL INSTRUMENTS (TC 172)

[ISO 11981/Cor1:2005](#), Ophthalmic optics - Contact lenses and contact lens care products - Determination of physical compatibility of contact lens care products with contact lenses - Corrigendum, FREE

### PAINTS AND VARNISHES (TC 35)

[ISO 4623-2/Cor1:2005](#), Paints and varnishes - Determination of resistance to filiform corrosion - Part 2: Aluminium substrates - Corrigendum, FREE

### PAPER, BOARD AND PULPS (TC 6)

[ISO 777:2005](#), Paper, board and pulp - Determination of acid-soluble calcium, \$39.00

[ISO 778:2005](#), Paper, board and pulp - Determination of acid-soluble copper, \$39.00

[ISO 11093-6:2005](#), Paper and board - Testing of cores - Part 6: Determination of bending strength by the three-point method, \$32.00

### PLASTICS (TC 61)

[ISO 14782/Cor1:2005](#), Plastics - Determination of haze for transparent materials - Corrigendum, FREE

[ISO 18280:2005](#), Plastics - Epoxy resins - Test methods, \$45.00

### ROAD VEHICLES (TC 22)

[ISO 6550-4:2005](#), Road vehicles - Sheath-type glow-plugs with conical seating and their cylinder head housing - Part 4: M8 x 1 glow-plugs, \$53.00

### SPORTS AND RECREATIONAL EQUIPMENT (TC 83)

[ISO 20957-4:2005](#), Stationary training equipment - Part 4: Strength training benches, additional specific safety requirements and test methods, \$32.00

[ISO 20957-5:2005](#), Stationary training equipment - Part 5: Pedal crank training equipment, additional specific safety requirements and test methods, \$67.00

[ISO 20957-6:2005](#), Stationary training equipment - Part 6: Treadmills, additional specific safety requirements and test methods, \$53.00

[ISO 20957-7:2005](#), Stationary training equipment - Part 7: Rowing machines, additional specific safety requirements and test methods, \$53.00

[ISO 20957-8:2005](#), Stationary training equipment - Part 8: Steppers, stairclimbers and climbers - Additional specific safety requirements and test methods, \$53.00

[ISO 20957-9:2005](#), Stationary training equipment - Part 9: Elliptical trainers, additional specific safety requirements and test methods, \$45.00

### TRACTORS AND MACHINERY FOR AGRICULTURE AND FORESTRY (TC 23)

[ISO 500-1/Cor1:2005](#), Agricultural tractors - Rear-mounted power take-off types 1, 2 and 3 - Part 1: General specifications, safety requirements, dimensions for master shield and clearance zone - Corrigendum, FREE

## ISO/IEC JTC 1, Information Technology

[ISO/IEC 14496-4/Amd7:2005](#), AFX conformance extensions, \$118.00

[ISO/IEC 14496-5/Amd7:2005](#), AFX reference software extensions, \$12.00

## IEC Standards

### ELECTRIC CABLES (TC 20)

[IEC 61034-1 Ed. 3.0 b:2005](#), Measurement of smoke density of cables burning under defined conditions - Part 1: Test apparatus, \$48.00

[IEC 61034-2 Ed. 3.0 b:2005](#), Measurement of smoke density of cables burning under defined conditions - Part 2: Test procedure and requirements, \$53.00

### ELECTRICAL EQUIPMENT IN MEDICAL PRACTICE (TC 62)

[IEC 60336 Ed. 4.0 b:2005](#), Medical electrical equipment - X-ray tube assemblies for medical diagnosis - Characteristics of focal spots, \$106.00

### FIBRE OPTICS (TC 86)

[IEC 61280-2-2 Ed. 2.0 b:2005](#), Fibre optic communication subsystem test procedures - Part 2-2: Digital systems - Optical eye pattern, waveform and extinction ratio measurement, \$89.00

[IEC 62150-1 Ed. 1.0 b:2005](#), Fibre optic active components and devices - Test and measurement procedures - Part 1: General and guidance, \$37.00

### LAMPS AND RELATED EQUIPMENT (TC 34)

[IEC 60630 Ed. 2.5 b:2005](#), Maximum lamp outlines for incandescent lamps, \$122.00

[IEC 60983 Ed. 2.1 b:2005](#), Miniature lamps, \$97.00

[IEC 61549 Ed. 2.1 b:2005](#), Miscellaneous lamps, \$73.00

### PRIMARY CELLS AND BATTERIES (TC 35)

[IEC 60086-5 Ed. 2.0 b:2005](#), Primary batteries - Part 5: Safety of batteries with aqueous electrolyte, \$97.00

## **SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES (TC 61)**

[IEC 60335-2-6 Ed. 5.1 b:2005](#), Household and similar electrical appliances - Safety - Part 2-6: Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances, \$106.00

[IEC 60335-2-13 Amd.1 Ed. 5.0 b:2005](#), Amendment 1 - Household and similar electrical appliances - Safety - Part 2-13: Particular requirements for deep fat fryers, frying pans and similar appliances, \$18.00

[IEC 60335-2-13 Ed. 5.1 b:2005](#), Household and similar electrical appliances - Safety - Part 2-13: Particular requirements for deep fat fryers, frying pans and similar appliances, \$48.00

[IEC 60335-2-24 Ed. 6.1 en:2005](#), Household and similar electrical appliances - Safety - Part 2-24: Particular requirements for refrigerating appliances, ice-cream appliances and ice-makers, \$122.00

[IEC 60335-2-25 Amd.1 Ed. 5.0 b:2005](#), Amendment 1 - Household and similar electrical appliances - Safety - Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens, \$20.00

[IEC 60335-2-61 Amd.1 Ed. 2.0 en:2005](#), Amendment 1 - Household and similar electrical appliances - Safety - Part 2-61: Particular requirements for thermal-storage room heaters, \$20.00

[IEC 60335-2-89 Ed. 1.1 b:2005](#), Household and similar electrical appliances - Safety - Part 2-89: Particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant condensing unit or compressor, \$106.00

## **SOLAR PHOTOVOLTAIC ENERGY SYSTEMS (TC 82)**

[IEC 61215 Ed. 2.0 b:2005](#), Crystalline silicon terrestrial photovoltaic (PV) modules - Design qualification and type approval, \$122.00

## **SUPERCONDUCTIVITY (TC 90)**

[IEC 61788-9 Ed. 1.0 b:2005](#), Superconductivity - Part 9: Measurements for bulk high temperature superconductors - Trapped flux density of large grain oxide superconductors, \$66.00

# Registration of Organization Names in the United States

The Procedures for Registration of Organization Names in the United States of America (document ISSB 989) require that alphanumeric organization names be subject to a 90-day Public Review period prior to registration. For further information, please contact the Registration Coordinator at (212) 642-4975.

The following is a list of alphanumeric organization names that have been submitted to ANSI for registration. Alphanumeric names appearing for the first time are printed in bold type. Names with confidential contact information, as requested by the organization, list only public review dates.

## PUBLIC REVIEW

EJ

Public review: February 9 to May 10, 2005

NOTE: Challenged alphanumeric names are underlined. The Procedures for Registration provide for a challenge process, which follows in brief. For complete details, see Section 6.4 of the Procedures.

A challenge is initiated when a letter from an interested entity is received by the Registration Coordinator. The letter shall identify the alphanumeric organization name being challenged and state the rationale supporting the challenge. A challenge fee shall accompany the letter. After receipt of the challenge, the alphanumeric organization name shall be marked as challenged in the Public Review list. The Registration Coordinator shall take no further action to register the challenged name until the challenge is resolved among the disputing parties.

## Proposed Foreign Government Regulations

### Call for Comment

U.S. manufacturers, exporters, regulatory agencies and standards developing organizations may be interested in proposed foreign technical regulations issued by members 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, who in turn disseminates the information to all WTO members. The purpose of this requirement is to provide trading partners with an opportunity to review and comment on the regulation before it becomes final.

To distribute information on these proposed foreign technical regulations, the National Center for Standards and Certification Information

(NCSCI), National Institute of Standards and Technology (NIST), provides an on-line service - Export Alert! - that allows interested parties to register and obtain notifications, via e-mail, for countries and industry sectors of interest to them. To register, go to <http://ts.nist.gov/ncsci> and click on "Export Alert!".

NCSCI serves as the U.S. WTO TBT inquiry point and receives copies of all notifications, in English, to disseminate to U.S. industry. To obtain copies of the full text of the regulations or for further information, contact NCSCI, NIST, 100 Bureau Drive, Stop 2160, Gaithersburg, MD 20899-2160; telephone (301) 975-4040; fax (301) 926-1559, e-mail - [ncsci@nist.gov](mailto:ncsci@nist.gov).

NCSCI will also request an extension of the comment period and transmit comments to the issuing foreign agency for consideration.

# Information Concerning

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## ANSI Accredited Standards Developers

### Administrative Reaccreditation

### Association of Home Appliance Manufacturers (AHAM)

AHAM – Association of Home Appliance Manufacturers has been administratively reaccredited at the direction of the Executive Standards Council, under operating procedures revised to bring the document into compliance with the 2005 version of the ANSI Essential Requirements, effective April 27, 2005. For additional information, please contact: Ms. Ramona Saar, Director, Standards & Certification Programs, Association of Home Appliance Manufacturers, 1111 19th Street, NW, Suite 402, Washington, DC 20036; PHONE: (202) 872-5955, ext. 314; FAX: (202) 872-9354; E-mail: [rsaar@aham.org](mailto:rsaar@aham.org).

## Meeting Notice

### Flow and Contaminant Control Engineering Committee of the Air-Conditioning and Refrigeration Institute (ARI)

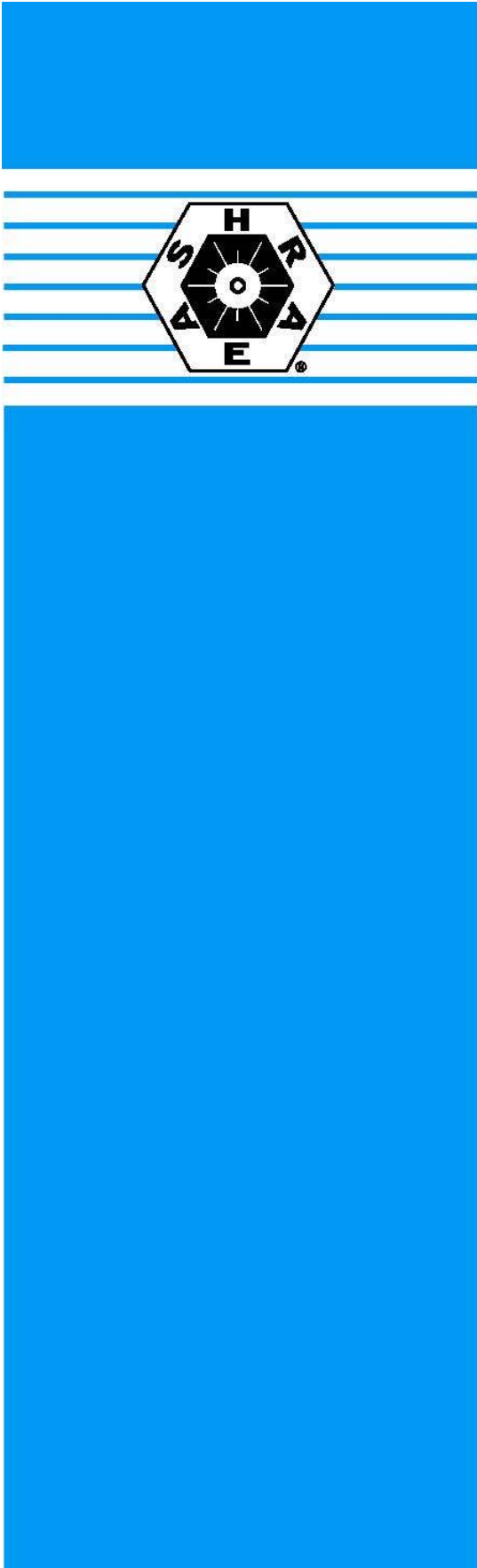
The Flow and Contaminant Control Engineering Committee of the Air-Conditioning and Refrigeration Institute will meet at ARI on Wednesday, May 11, 2005, 9:00 am - 4:00 pm. ARI is located at 4100 N. Fairfax Dr. Suite 200, Arlington, VA, 22203.

For information on how to get to ARI and local hotel information, see the web page: <http://www.ari.org/how2get2.html>.

The meeting agenda includes action on the following ARI standards:

- Proposed new ARI standard for filtration rating of liquid-line filters and filter-driers
- Revision of ARI Standard 730, Suction-Line Filters and Filter Driers
- Revision of ARI 750, Thermostatic Refrigerant Expansion Valves
- Revision of ARI 760, Solenoid Valves for Use with Volatile Refrigerants
- Revision of ARI 770, Refrigerant Pressure Regulating Valves

For additional information on the meeting, contact: Steven R. Szymurski, Director of Research & Executive Assistant, Flow & Contaminant Control Products Section, Air-Conditioning and Refrigeration Institute, 4100 N Fairfax Dr, Suite 200, Arlington, VA 22203; PHONE: (703) 524-8800; FAX: (703) 522-2349; E-mail: [szymurski@ari.org](mailto:szymurski@ari.org); ARI website: [www.ari.org](http://www.ari.org); ARTI website: [www.arti-research.org](http://www.arti-research.org).



BSR/ASHRAE Addendum n  
to ANSI/ASHRAE Standard 34-2004

# Public Review Draft

ASHRAE® Standard

## Proposed Addendum n to Standard 34-2004, *Designation and Safety Classification of Refrigerants*

**Third Public Review (May 2005)  
(Draft Shows Independent Substantive  
Changes to Previous Public Review  
Draft)**

This draft has been recommended for public review by the responsible project committee. To submit a comment on this proposed addendum, use the comment form and instructions provided with this draft. The draft is subject to modification until it is approved for publication by the Board of Directors and ANSI. Until this time, the current edition of the standard (as modified by any published addenda on the ASHRAE web site) remains in effect. The current edition of any standard may be purchased from the ASHRAE Bookstore @ <http://www.ashrae.org> or by calling 404-636-8400 or 1-800-727-4723 (for orders in the U.S. or Canada).

This standard is under continuous maintenance. To propose a change to the current standard, use the change submittal form available on the ASHRAE web site @ <http://www.ashrae.org>.

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AMERICAN SOCIETY OF HEATING, REFRIGERATING  
AND AIR-CONDITIONING ENGINEERS, INC.  
1791 Tullie Circle, NE Atlanta GA 30329-2305

BSR/ASHRAE Addendum n to ANSI/ASHRAE Standard 34-2004, *Designation and Safety Classification of Refrigerants*  
Third Public Review (Independent Substantive Changes to Second Public Review Draft)

**(This foreword is not part of this standard. It is merely informative and does not contain requirements necessary for conformance to the standard. It has not been processed according to the ANSI requirements for a standard and may contain material that has not been subject to public review or a consensus process. Unresolved objectors on informative material are not offered the right to appeal at ASHRAE or ANSI.)**

## **FOREWORD**

*This addendum provides general guidance for the numbering of C4-C138 alkanes.*

**Note: In this addendum, changes to the previous public review draft are indicated in the text by underlining (for additions) and strikethrough (for deletions) unless the instructions specifically mention some other means of indicating the changes. Only these changes are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed substantive changes.**

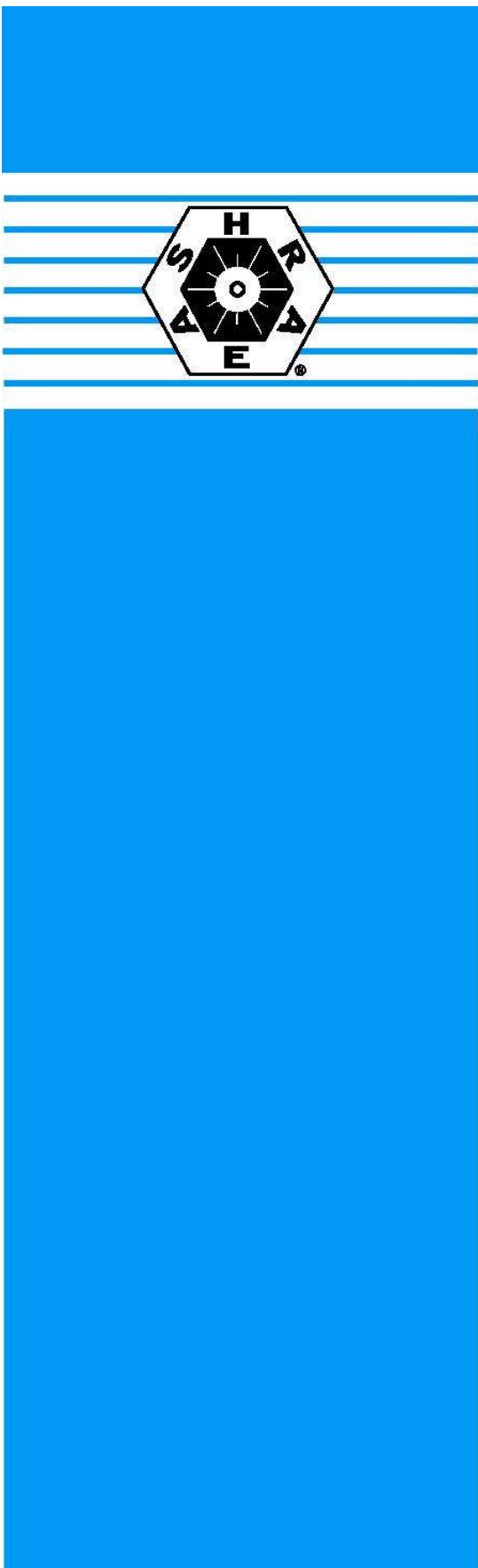
**Add the following underlined text to Section 4.5:**

**4.5** Miscellaneous organic compounds shall be assigned numbers in the 600 series in decadal groups, as outlined in Table 1, in serial order of designation within the groups. For the saturated hydrocarbons with 4 to ~~13~~ carbon atoms, the number assigned shall be 600 plus the number of carbon atoms minus 4. For example, butane is R-600, pentane is R-601, hexane is R-602, heptane is R-603, and octane is R-604. The straight-chain or "normal" hydrocarbon has no suffix. For isomers of the hydrocarbons with 4 to 8 carbon atoms, the lower case letters "a", "b", "c," etc., are appended to isomers according to the group(s) attached to the longest carbon chain as indicated in the table below. For example, R-601a is assigned for 2-methylbutane (isopentane) and R-601b would be assigned for 2,2-dimethylpropane (neopentane).

ATTACHED GROUP(S)	SUFFIX:
none (straight chain)	No suffix
2-methyl-	a
2,2-dimethyl-	b
3-methyl-	c
2,3-dimethyl-	d
3,3-dimethyl-	e
2,4-dimethyl-	f
2,2,3-trimethyl-	g
3-ethyl-	h
4-methyl-	i
2,5-dimethyl-	j
3,4-dimethyl-	k
2,2,4-trimethyl-	l
2,3,3-trimethyl-	m
2,3,4-trimethyl-	n
2,2,3,3-tetramethyl	o
3-ethyl-2-methyl-	p
3-ethyl-3-methyl-	q
unspecified or mixed isomers	z

For hydrocarbons with 9 to 13 carbon atoms, the straight-chain hydrocarbon has no suffix and other isomers will be assigned the lower case letters "a," "b," "c," etc., in serial order of designation.





BSR/ASHRAE Addendum a  
to ANSI/ASHRAE Standard 34-2004

# Public Review Draft

ASHRAE® Standard

## Proposed Addendum a to Standard 34-2004, *Designation and Safety Classification of Refrigerants*

First Public Review (May 2005)  
(Draft Shows Proposed Changes to  
Current Standard)

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AMERICAN SOCIETY OF HEATING, REFRIGERATING  
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BSR/ASHRAE Addendum a to ANSI/ASHRAE Standard 34-2004, *Designation and Safety Classification of Refrigerants*

First Public Review

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**FOREWORD**

*This proposed addendum adds a designation of R-422B to the blend R-125/134a/600a (55.0/42.0/3.0) with tolerances of ( $\pm 1.0/\pm 1.0/+0.1,-0.5$ ) and a safety classification of A1.*

**Note: In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and strikethrough (for deletions) unless the instructions specifically mention some other means of indicating the changes. Only these changes are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed substantive changes.**

**Proposed Addendum a to ANSI/ASHRAE Standard 34-2004**

Add to Table 2 the following entries for R-422B:

TABLE 2  
Data and Safety Classifications for Refrigerant Blends

Refrigerant Number	Composition (Mass %)	Composition Tolerances	Azeotropic	Molecular Mass <sup>a</sup>	Normal	Safety Group
			Temperature (°C) (°F)		Boiling Point <sup>a</sup> (°C) (F°)	
422B	R-125/134a/600a (55.0/42.0/3.0)	( $\pm 1.0/\pm 1.0/+0.1,-0.5$ )				A1

BSR/ASHRAE Addendum b  
to ANSI/ASHRAE Standard 34-2004

# Public Review Draft

ASHRAE® Standard

## Proposed Addendum b to Standard 34-2004, *Designation and Safety Classification of Refrigerants*

First Public Review (May 2005)  
(Draft Shows Proposed Changes to  
Current Standard)

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AMERICAN SOCIETY OF HEATING, REFRIGERATING  
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BSR/ASHRAE Addendum b to ANSI/ASHRAE Standard 34-2004, *Designation and Safety Classification of Refrigerants*

First Public Review

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## **FOREWORD**

*This proposed addendum adds a designation of R-422C to the blend R-125/134a/600a (82.0/15.0/3.0) with tolerances of ( $\pm 1.0/\pm 1.0/+0.1,-0.5$ ) and a safety classification of A1.*

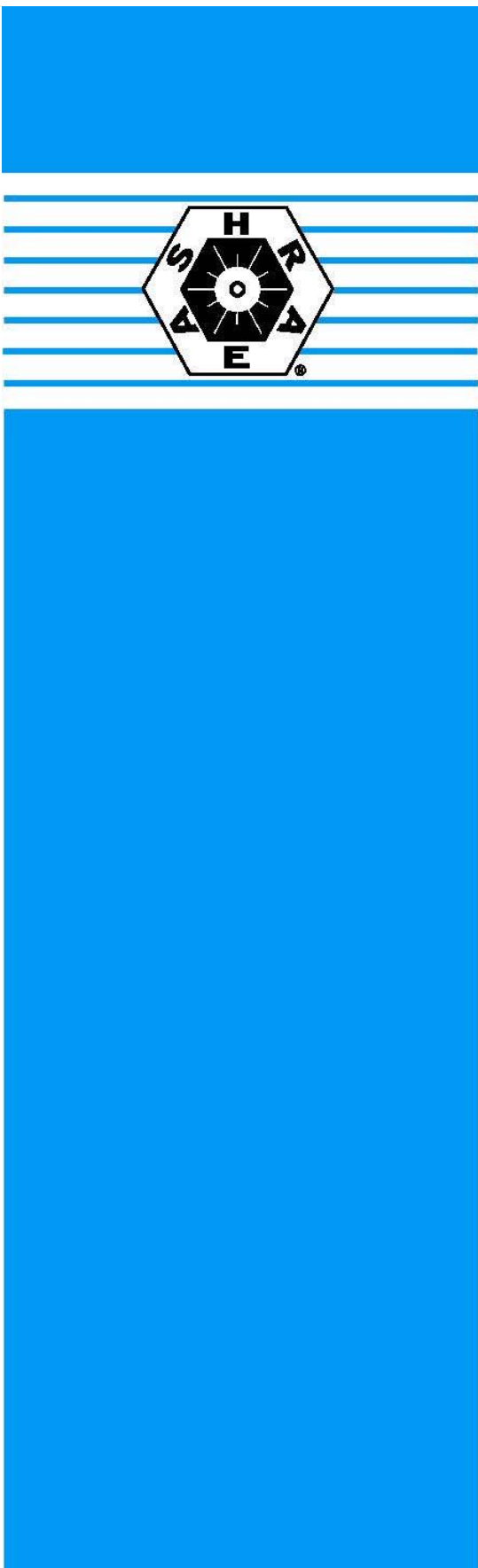
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## **Proposed Addendum b to ANSI/ASHRAE Standard 34-2004**

Add to Table 2 the following entries for R-422C:

TABLE 2  
Data and Safety Classifications for Refrigerant Blends

Refrigerant Number	Composition (Mass %)	Composition Tolerances	Azeotropic Temperature (°C) (°F)	Molecular Mass <sup>a</sup>	Normal Boiling Point <sup>a</sup> (°C) (F°)	Safety Group
422C	R-125/134a/600a	(82.0/15.0/3.0) ( $\pm 1.0/\pm 1.0/+0.1,-0.5$ )				<u>A1</u>



BSR/ASHRAE Addendum c  
to ANSI/ASHRAE Standard 34-2004

# Public Review Draft

ASHRAE® Standard

## Proposed Addendum c to Standard 34-2004, *Designation and Safety Classification of Refrigerants*

First Public Review (May 2005)  
(Draft Shows Proposed Changes to  
Current Standard)

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BSR/ASHRAE Addendum c to ANSI/ASHRAE Standard 34-2004, *Designation and Safety Classification of Refrigerants*

First Public Review

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**FOREWORD**

*This proposed addendum adds a designation of R-423A to the blend R-134a/227ea (52.5/47.5) with tolerances of ( $\pm 1.0$ / $\pm 1.0$ ) and a safety classification of A1.*

**Note: In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and strikethrough (for deletions) unless the instructions specifically mention some other means of indicating the changes. Only these changes are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed substantive changes.**

**Proposed Addendum c to ANSI/ASHRAE Standard 34-2004**

Add to Table 2 the following entries for R-423A:

TABLE 2  
Data and Safety Classifications for Refrigerant Blends

Refrigerant Number	Composition (Mass %)	Composition Tolerances	Azeotropic		Normal		Safety Group
			Temperature (°C) (°F)	Molecular Mass <sup>a</sup>	Boiling Point <sup>a</sup> (°C) (F°)		
423A	<u>R-134a/227ea (52.5/47.5)</u>	<u>(<math>\pm 1.0</math>/<math>\pm 1.0</math>)</u>					<u>A1</u>