

# **ANSI** STANDARDS ACTION

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## American National Standards

### Call for comment on proposals listed

This section solicits your comments on proposed draft new American National Standards, including the national adoption of ISO and IEC 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 should 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.

★ Standard for consumer products

### 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)

## Comment Deadline: January 26, 2003

### NSF (NSF International)

#### Revisions

BSR/NSF 3-200x, Commercial Warewashing Equipment (revision of ANSI/NSF 3-2001)

Issue 2: Inclusion of FDA requirements for sanitizer alarms

Click here to see these changes in full, or look at the end of "Standards Action."

Send comments (with copy to BSR) to: Mark Connors, NSF; connors@nsf.org

- ★ BSR/NSF 29-200x, Detergent and Chemical Feeders for Commercial Spray-Type Dishwashing Machines (revision of ANSI/NSF 29-1992)

Issue 1: Inclusion of FDA requirements for sanitizer alarms

Click here to see these changes in full, or look at the end of "Standards Action."

Send comments (with copy to BSR) to: Mark Connors, NSF; connors@nsf.org

## Comment Deadline: February 10, 2003

### ASME (American Society of Mechanical Engineers)

#### Revisions

BSR/ASME HPS-Part II-200x, High Pressure Systems (Part II) (revision of ANSI/ASME HPS-1994)

Provides guidance relative to the design and application of high pressure components.

Single copy price: \$10.00

Order from: Silvana Rodriguez-Bhatti, ASME; rodriguez@asme.org

Send comments (with copy to BSR) to: Gerardo Moino, ASME; moinog@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: Faith Lanzetta, ASTM

For all ASTM standards, send comments (with copy to BSR) to:

Faith Lanzetta, ASTM

#### New Standards

BSR/ASTM F1551-200x, Test Methods for Comprehensive Characterization of Synthetic Turf Playing Surfaces and Materials (new standard)

Single copy price: \$35.00

BSR/ASTM Z8969Z-200x, Practice for Use of a Photo-fluorescent Film Dosimetry System (new standard)

Single copy price: \$30.00

#### Revisions

BSR/ASTM E262-200x, Test Method for Determining Thermal Neutron Reaction and Fluence Rates by Radioactivation Techniques (revision of ANSI/ASTM E262-1997)

Single copy price: \$30.00

BSR/ASTM E481-200x, Test Method for Measuring Neutron Fluence Rates by Radioactivation of Cobalt and Silver (revision of ANSI/ASTM E481-1997)

Single copy price: \$30.00

BSR/ASTM E509-200x, Guide for In-service Annealing of Light-water Cooled Nuclear Reactor Vessels (revision of ANSI/ASTM E509-1997)

Single copy price: \$30.00

BSR/ASTM E844-200x, Guide for Sensor Set Design and Irradiation for Reactor Surveillance, E 706 lic (revision of ANSI/ASTM E844-1997)

Single copy price: \$30.00

BSR/ASTM E854-200x, Test Method for Application and Analysis of Solid State Track Recorder Sstr Monitors for Reactor Surveillance, E706 IIIB (revision of ANSI/ASTM E854-1998)

Single copy price: \$35.00

BSR/ASTM E1005-200x, Test Method for Application and Analysis of Radiometric Monitors for Reactor Vessel Surveillance, E 706 IIIA (revision of ANSI/ASTM E1005-1997)

Single copy price: \$30.00

BSR/ASTM E1400-200x, Practice for Characterization and Performance of a High-dose Radiation Dosimetry Calibration Laboratory (revision of ANSI/ASTM E1400-1995A)

Single copy price: \$30.00

BSR/ASTM E1401-200x, Practice for Use of a Dichromate Dosimetry System (revision of ANSI/ASTM E1401-1996)

Single copy price: \$30.00

BSR/ASTM E1631-200x, Practice for Use of Calorimetric Dosimetry Systems for Electron Beam Dose Measurements and Dosimeter Calibrations (revision of ANSI/ASTM E1631-1997)

Single copy price: \$30.00

BSR/ASTM E1818-200x, Practice for Dosimetry in an Electron Beam Facility for Radiation Processing at Energies Between 80 and 300 KeV (revision of ANSI/ASTM E1818-1997)

Single copy price: \$30.00

#### Withdrawals

ANSI/ASTM E792-2002, Guide for Selection of a Clinical Laboratory Information Management System (withdrawal of ANSI/ASTM E792-2002)

Single copy price: \$40.00

ANSI/ASTM E1029-2001, Guide for Documentation of Clinical Laboratory Computer Systems (withdrawal of ANSI/ASTM E1029-2001)

Single copy price: \$30.00

ANSI/ASTM E1238-1997, Specification for Transferring Clinical Observations Between Independent Computer Systems (withdrawal of ANSI/ASTM E1238-1997)

Single copy price: \$50.00

ANSI/ASTM E1246-2001, Practice for Reporting Reliability of Clinical Laboratory Information Systems (withdrawal of ANSI/ASTM E1246-2001)

Single copy price: \$30.00

ANSI/ASTM E1381-1996, Low-Level Protocol to Transfer Messages Between Clinical Laboratory Instruments and Computer Systems, Specification for (14.01) (withdrawal of ANSI/ASTM E1381-1996)

Single copy price: \$30.00

ANSI/ASTM E1394-1997, Specification for Transferring Information Between Clinical Instruments and Computer Systems (withdrawal of ANSI/ASTM E1394-1997)

Single copy price: \$35.00

ANSI/ASTM E1466-1992 (R1999), Specification for Use of Bar Codes on Specimen Tubes in the Clinical Laboratory (withdrawal of ANSI/ASTM E1466-1992 (R1999))

Single copy price: \$25.00

ANSI/ASTM E1639-2001, Guide for Functional Requirements of Clinical Laboratory Information Management Systems (withdrawal of ANSI/ASTM E1639-2001)

Single copy price: \$45.00

ANSI/ASTM E1712-2002, Specification for Representing Clinical Laboratory Procedure and Analyte Names (withdrawal of ANSI/ASTM E1712-2002)

Single copy price: \$40.00

ANSI/ASTM E2118-2000, Guide for Coordination of Clinical Laboratory Services Within the Electronic Health Record Environment and Networked Architectures (withdrawal of ANSI/ASTM E2118-2000)

Single copy price: \$35.00

## UL (Underwriters Laboratories, Inc.)

### New Standards

BSR/UL 199-200x, Standard for Safety for Automatic Sprinklers for Fire-Protection Service (Bulletin dated 1/3/03) (new standard)

Comment resolution bulletin dated 1/3/03 with proposed substantive revisions resulting from comments received for the STP 199 Meeting Report dated 7/25/02.

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

BSR/UL 2200-200x, Standard for Safety for Stationary Engine Generator Assemblies (Bulletin dated 12/27/02) (new standard)

The following items are being considered for public comment:

1. Addition of requirements covering microturbines.
2. Definitions of bus bar and heat sink.
3. The deletion of a test covering oxide inhibiting compounds.
4. The deletion of a requirement covering fuses.
5. The addition of a test temperature for the synthetic-rubber part immersion test.
6. Editorial corrections.

Single copy price: Contact comm2000 for pricing and delivery options

Order from: comm2000

Send comments (with copy to BSR) to: Mitchell Gold, UL-IL;  
Mitchell.Gold@us.ul.com

### Revisions

BSR/UL 33-200x, Heat-Responsive Links for Fire Protection Service (Bulletin dated 1/3/03) (revision of ANSI/UL 33-2001)

Comment resolution bulletin dated 1/3/03 with proposed substantive revisions resulting from comments received for the STP 199 Meeting Report dated 7/25/02.

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

BSR/UL 723-200x, Standard for Safety for Test for Surface Burning Characteristics of Building Materials (revision of ANSI/UL 723-1995)

This method of test for surface burning characteristics of building materials is applicable to any type of building material that, by its own structural quality or the manner in which it is applied, is capable of supporting itself in position or may be supported in the test furnace to a thickness comparable to its recommended use.

Single copy price: Contact comm2000 for pricing and delivery options

Order from: comm2000

Send comments (with copy to BSR) to: Mitchell Gold, UL-IL;  
Mitchell.Gold@us.ul.com

BSR/UL 1042-200x, Electric Baseboard Heating Equipment (Bulletin dated 12/24/02) (revision of ANSI/UL 1042-1995)

Proposed change in scope to better define a fixed baseboard heater and a portable baseboard heater.

Single copy price: Contact comm2000 for pricing and delivery options

Order from: comm2000

Send comments (with copy to BSR) to: Helen Ketcham, UL-NY;  
Helen.W.Ketcham@us.ul.com

BSR/UL 1581-200x, Standard for Safety for Reference Standard for Electrical Wires, Cables, and Flexible Cords (Bulletin dated 12/18/02) (revision of ANSI/UL 1581-1998)

Contains details of the conductors, insulation, jackets and other coverings, and of the methods of sample preparation, specimen selection and conditioning, and of measurement and calculation that are required in the UL end-product wire and cable standards. The proposed revisions add conductor insulation and jacket materials, refine existing wire test procedures, and add test methods and construction details for conductors not previously covered in the standard.

Single copy price: Contact comm2000 for pricing and delivery options

Order from: comm2000

Send comments (with copy to BSR) to: Helen Ketcham, UL-NY;  
Helen.W.Ketcham@us.ul.com

BSR/UL 1626-200x, Standard for Safety for Residential Sprinklers for Fire-Protection Service (Bulletin dated 1/3/03) (revision of ANSI/UL 1626-2001a)

Comment resolution bulletin dated 1/3/03 with proposed substantive revisions resulting from comments received for the STP 199 Meeting Report dated 7/25/02.

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

### Reaffirmations

BSR/UL 891-1992 (R200x), Dead-Front Switchboards (Bulletin dated 12/2/02) (reaffirmation of ANSI/UL 891-1992)

Addresses the situation where low-voltage a-c power circuit breakers (LVPCBs) are used as feeder devices in UL 891 Switchboards.

Single copy price: Contact comm2000 for pricing and delivery options

Order from: comm2000

Send comments (with copy to BSR) to: Helen Ketcham, UL-NY;  
Helen.W.Ketcham@us.ul.com

## Comment Deadline: February 25, 2003

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

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

### New National Adoptions

BSR/AAMI/ISO 8637-200x, Cardiovascular implants and artificial organs - Hemodialysers, hemodiafilters, hemofilters and hemoconcentrators (identical national adoption and revision of ANSI/AAMI RD16-1996)

Specifies requirements for hemodialyzers, hemodiafilters, hemofilters and hemoconcentrators for use for humans; includes biological safety, sterility, nonpyrogenicity, mechanical and performance characteristics, and labeling.

Single copy price: \$20.00/\$25.00 mbr/list (print); \$0/\$25.00 mbr/list (electronic)

Order from: AAMI (Attn: Customer Service): (800) 332-2264, ext. 217  
Send comments (with copy to BSR) to: Cliff Bernier, AAMI;  
cbernier@aami.org

BSR/AAMI/ISO 8638-200x, Cardiovascular implants and artificial organs  
- Extracorporeal blood circuit for hemodialyzers, hemodiafilters,  
hemofilters and hemoconcentrators (identical national adoption and  
revision of ANSI/AAMI RD17-1994)

Specifies requirements for the single-use extracorporeal blood circuit  
and non-integral transducer protectors which are intended for use in  
hemodialysis, hemodiafiltration, hemofiltration and hemoconcentration;  
includes biological safety, sterility, nonpyrogenicity, mechanical and  
physical characteristics, and labeling.

Single copy price: \$20.00/\$25.00 mbr/list (print); \$0/\$25.00 mbr/list  
(electronic)

Order from: AAMI (Attn: Customer Service): (800) 332-2264, ext. 217  
Send comments (with copy to BSR) to: Cliff Bernier, AAMI;  
cbernier@aami.org

BSR/AAMI RD5-200x, Hemodialysis Systems (revise and partition  
ANSI/AAMI RD5-1992)

Covers the dialysis machine used to proportion dialysate, monitor the  
dialysate and the accessories normally found on the dialysis machine.  
Single copy price: \$25.00 (20.00 for AAMI members)

Order from: AAMI (Attn: Customer Service): (800) 332-2264, ext. 217  
Send comments (with copy to BSR) to: Cliff Bernier, AAMI;  
cbernier@aami.org

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

### ***New Standards***

BSR/AWS C2.23/C2.23M-200x, Specification for the Application of  
Thermal Spray Coatings (Metallizing) of Aluminum, Zinc, and Their  
Alloys and Composites for the Corrosion Protection of Steel (new  
standard)

Presents an industrial process for the application of thermal spray  
coating (TSC) on steel. It covers safety, job reference standards,  
equipment setup and preparation, surface preparation, Aluminum and  
Zinc Application and Sealer and Topcoat Application.

Single copy price: \$12.50

Order from: AWS, Attn: R. O'Neill: 800-443-9353 x451, or:  
roneill@aws.org  
Send comments (with copy to BSR) to: Leonard Connor, AWS;  
lconnor@aws.org

## **HIBCC (Health Industry Business Communications Council)**

### ***Revisions***

BSR/HIBC 2-200x, The Health Industry Bar Code (HIBC) Supplier  
Labeling Standard (revision of ANSI/HIBC 2-1997)

Describes data structures and bar code symbologies for bar coding  
health care products. It includes the HIBC-LIC data format, which is a  
variable length alphanumeric format for primary identification of health  
care products. It also includes data formats for secondary information  
critical to health care processes and requirements, such as lot or batch  
number, and expiration date, and a unique link character that creates a  
relationship with the primary data symbol.

Single copy price: \$50.00; Free PDF download from HIBCC Web Site.

Order from: Sara Polansky, HIBCC; info@hibcc.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:

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

BSR/EIA/TIA 455-47B-1992, Output Far Field Radiation Pattern  
Measurement (reaffirmation of ANSI/EIA/TIA 455-47B-1992)

BSR/EIA/TIA 455-177A-1992, Numerical Aperture Measurement of  
Graded-Index Optical Fibers (reaffirmation of ANSI/EIA/TIA  
455-177A-1992)

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

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

## **Notice of Withdrawal: ANS at least 10 years past approval date**

The following American National Standards have not been revised or  
reaffirmed within ten years from the date of their approval as American  
National Standards and accordingly are withdrawn:

ANSI/EIA/TIA 455-47B-1992, Output Far Field Radiation Pattern  
Measurement

ANSI/EIA/TIA 455-177A-1992, Numerical Aperture Measurement of  
Graded-Index Optical Fibers

# Call for Comment Contact Information

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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)

### **ASME**

American Society of Mechanical  
Engineers  
3 Park Avenue, 20th Floor  
New York, NY 10016  
Phone: (212) 591-8460  
Fax: (212) 591-8501  
Web: [www.asme.org](http://www.asme.org)

### **AWS**

American Welding Society  
550 N.W. LeJeune Road  
Miami, FL 33126  
Phone: (305) 443-9353 x302  
Fax: (305) 443-5951  
Web: [www.aws.org](http://www.aws.org)

### **comm2000**

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

### **HIBCC**

Health Industry Business  
Communications Council  
2525 E Arizona Biltmore Circle,  
Suite 127  
Phoenix, AZ 85016  
Phone: (602) 381-1091  
Fax: (602) 381-1093  
Web: [www.hibcc.org](http://www.hibcc.org)

### **NSF**

NSF International  
789 Dixboro Road  
Ann Arbor, MI 48105  
Phone: (734) 827-6857  
Fax: (734) 827-6831  
Web: [www.nsf.org](http://www.nsf.org)

## Send comments to:

### **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)

### **ASME**

American Society of Mechanical  
Engineers  
3 Park Avenue, 20th Floor  
New York, NY 10016  
Phone: (212) 591-8460  
Fax: (212) 591-8501  
Web: [www.asme.org](http://www.asme.org)

### **AWS**

American Welding Society  
550 N.W. LeJeune Road  
Miami, FL 33126  
Phone: (305) 443-9353 x302  
Fax: (305) 443-5951  
Web: [www.aws.org](http://www.aws.org)

### **HIBCC**

Health Industry Business  
Communications Council  
2525 E Arizona Biltmore Circle,  
Suite 127  
Phoenix, AZ 85016  
Phone: (602) 381-1091  
Fax: (602) 381-1093  
Web: [www.hibcc.org](http://www.hibcc.org)

### **NSF**

NSF International  
789 Dixboro Road  
Ann Arbor, MI 48105  
Phone: (734) 827-6857  
Fax: (734) 827-6831  
Web: [www.nsf.org](http://www.nsf.org)

### **UL-IL**

Underwriters Laboratories, Inc.  
333 Pfingsten Road  
Northbrook, IL 60062-2096  
Phone: (847) 664-2850  
Fax: (847) 313-2850

### **UL-NC**

Underwriters Laboratories, Inc.  
12 Laboratory Drive  
Research Triangle Park, NC  
27709-3995  
Phone: (919) 549-1491  
Fax: (919) 547-6480

### **UL-NY**

Underwriters Laboratories, Inc.  
1285 Walt Whitman Road  
Melville, NY 11747-3081  
Phone: (631) 271-6200 x22465  
Fax: (631) 439-6021

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

**Office:** 12 Laboratory Drive  
Research Triangle Park, NC 27709-3995

**Contact:** *Tim Lupo*

**Phone:** (919) 549-1491

**Fax:** (919) (919) 547-6480

**E-mail:** Timothy.E.Lupo@us.ul.com

BSR/UL 33-200x, Heat-Responsive Links for Fire Protection Service  
(Bulletin dated 1/3/03) (revision of ANSI/UL 33-2001)

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

**Office:** 355 Lexington Avenue, 17th Floor  
New York, NY 10017-6603

**Contact:** *Carolynn Jennings*

**Phone:** (212) 297-2124

**Fax:** (212) (212) 370-9047

**E-mail:** cjennings@kellencompany.com

BSR/WCMA A100.1-200x, Standard for Safety of Corded Window  
Covering Products (revision of ANSI/WCMA A100.1-2002)

# Final actions on American National Standards

The standards actions listed below have been approved by the ANSI Board of Standards Review (BSR) or by an ANSI-Audited Designator, as applicable.

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

### *New National Adoptions*

ANSI/AAMI/ISO 10993-17-2002, Biological Evaluation of Medical Devices - Part 17: Methods for the Establishment of Allowable Limits for Leachable Substances Using Health-based Risk Assessment (national adoption): 12/17/2002

### *Reaffirmations*

ANSI/AAMI NS14-1995 (R2002), Implantable Spinal Cord Stimulators (reaffirmation of ANSI/AAMI NS14-1995): 12/17/2002

ANSI/AAMI NS15-1995 (R2002), Implantable Peripheral Nerve Stimulators (reaffirmation of ANSI/AAMI NS15-1995): 12/17/2002

ANSI/AAMI/ISO 7199-1996 (R2002), Cardiovascular implants and artificial organs - Blood-gas exchangers (oxygenators) (reaffirmation of ANSI/AAMI/ISO 7199-1996): 12/16/2002

### *Supplements*

ANSI/AAMI/ISO 11137-1994/A1-2002, Sterilization of Health Care Products - Requirements for Validation and Routine Control - Radiation Sterilization (supplement to ANSI/AAMI/ISO 11137-1994): 12/16/2002

## ANS (American Nuclear Society)

### *Reaffirmations*

ANSI/ANS 19.11-1997 (R2002), Calculations and Measurements of the Moderator Temperature Coefficient of Reactivity for Water Moderated Power Reactors (reaffirmation of ANSI/ANS 19.11-1997): 12/17/2002

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

### *Supplements*

ANSI/ASHRAE/IESNA 90.1k-2002, Energy Efficient Design of New Buildings Except Low-Rise Residential Buildings (supplement to ANSI/ASHRAE/IESNA 90.1-2001): 12/17/2002

## ASME (American Society of Mechanical Engineers)

### *New National Adoptions*

ANSI/ASME Y14.40.0-2002, Basic Rules for the Design of Graphical Symbols for Use in the Technical Documentation of Products (national adoption): 12/17/2002

ANSI/ASME Y14.40.1-2002, Graphical Symbols for Diagrams - Part 1: General Information and Indexes (national adoption): 12/19/2002

ANSI/ASME Y14.40.10-2002, Graphical Symbols for Diagrams - Part 10: Fluid Power Converters (national adoption): 12/19/2002

ANSI/ASME Y14.40.11-2002, Graphical Symbols for Diagrams - Part 11: Devices for Heat Transfer and Heat Engines (national adoption): 12/19/2002

ANSI/ASME Y14.40.12-2002, Graphical Symbols for Diagrams - Part 12: Devices for Separating, Purification and Mixing (national adoption): 12/19/2002

ANSI/ASME Y14.40.2-2002, Graphical Symbols for Diagrams - Part 2: Graphical Symbols for General Application (national adoption): 12/19/2002

ANSI/ASME Y14.40.3-2002, Graphical Symbols for Diagrams - Part 3: Connections and Related Devices (national adoption): 12/19/2002

ANSI/ASME Y14.40.4-2002, Graphical Symbols for Diagrams - Part 4: Actuators and Related Devices (national adoption): 12/19/2002

ANSI/ASME Y14.40.5-2002, Graphical Symbols for Diagrams - Part 5: Measurement and Control Devices (national adoption): 12/19/2002

ANSI/ASME Y14.40.6-2002, Graphical Symbols for Diagrams - Part 6: Measurement and Control Functions (national adoption): 12/19/2002

ANSI/ASME Y14.40.7-2002, Graphical Symbols for Diagrams - Part 7: Basic Mechanical Components (national adoption): 12/19/2002

ANSI/ASME Y14.40.8-2002, Graphical Symbols for Diagrams - Part 8: Valves and Dampers (national adoption): 12/19/2002

ANSI/ASME Y14.40.9-2002, Graphical Symbols for Diagrams - Part 9: Pumps, Compressors and Fans (national adoption): 12/19/2002

### *Reaffirmations*

ANSI/ASME A13.1-1996 (R2002), Scheme for the Identification of Pipe Lines (reaffirmation of ANSI/ASME A13.1-1996): 12/17/2002

### *Supplements*

ANSI/ASME B31.1a-2002, Power Piping (supplement to ANSI/ASME B31.1-1998): 12/16/2002

## ATIS (ASC T1) (Alliance for Telecommunications Industry Solutions)

### *New Standards*

ANSI T1.722-2002, UMTS References - 3G specifications (Release 99, Release 4 & GTT) (new standard): 12/17/2002

ANSI T1.723-2002, I-CDMA Spread Spectrum Systems Air Interface Standard - Stage 3 Text (new standard): 12/17/2002

## AWS (American Welding Society)

### *New Standards*

ANSI/AWS C2.20/C2.20M-2002, Specification for Thermal Spraying Zinc Anodes on Steel Reinforced Concrete (new standard): 12/16/2002

## AWWA (American Water Works Association)

### *New Standards*

ANSI/AWWA C225-2002, Fused Polyolefin Coating Systems for the Exterior of Steel Water Pipelines (new standard): 12/17/2002

## HL7 (Health Level Seven)

### *Revisions*

ANSI/HL7 Arden V2.1-2002, Health Level Seven Arden Syntax for Medical Logic Systems, Version 2.1 (revision of ANSI/HL7 Arden V2.0-1999): 12/16/2002



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

ANSI/IEEE 802.3ae-2002, Standard for Information Technology - Local & Metropolitan Area Networks - Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications - Media Access Control (MAC) Parameters, Physical Layer (supplement to ANSI/IEEE 802.3-2002): 12/17/2002

**ITI (INCITS) (INCITS)****New National Adoptions**

INCITS/ISO/IEC 9542-2002, Information Processing Systems - Telecommunications and Information Exchange Between Systems - End System to Intermediate System Routing Exchange Protocol for Use In Conjunction with the Protocol for Providing the Connectionless-Mode Network Service (national adoption): 12/20/2002

INCITS/ISO/IEC 10030-2002, Information Technology - Telecommunications and Information Exchange Between Systems-end System Routing Information Exchange Protocol for Use in Conjunction with ISO/IEC 8878 (national adoption): 12/20/2002

INCITS/ISO/IEC 10589-2002, Intermediate System to Intermediate System Intra-Domain-Routing Routine Information Exchange Protocol for Use in Conjunction with the Protocol for Providing the Connectionless-mode Network Service (ISO 8473) (national adoption): 12/20/2002

INCITS/ISO/IEC 13248-2-2002, Information technology - OSI - The Directory: Protocol Implementation Conformance Statement (PICS) proforma for the Directory System Protocol - Part 2 (national adoption): 12/20/2002

INCITS/ISO/IEC 13248-3-2002, Information technology - OSI - The Directory: Protocol Implementation Conformance Statement (PICS) proforma for the Directory Operational Binding Management Protocol - Part 3 (national adoption): 12/20/2002

INCITS/ISO/IEC 13248-4-2002, Information technology - OSI - The Directory: Protocol Implementation Conformance Statement (PICS) proforma for the Directory Information Shadowing Protocol - Part 4 (national adoption): 12/20/2002

INCITS/ISO/IEC 14392-1996, Information technology - Directory services - Application Program Interface (API) Language independent) (national adoption): 12/20/2002

INCITS/ISO/IEC 13568:2002, Information technology - Z formal specification notation - Syntax, type system and semantics (national adoption): 12/20/2002

**Reaffirmations**

ANSI INCITS 46-1974 (R2002), Unrecorded Magnetic Six-Disk Pack (General, Physical, and Magnetic Characteristics) (reaffirmation of ANSI INCITS 46-1974 (R2000)): 12/20/2002

ANSI INCITS 52-1976 (R2002), Unrecorded Single Disk Cartridge (Front Loading, 22000 BPI), General, Physical, and Magnetic Requirements (reaffirmation of ANSI INCITS 52-1976 (R1998)): 12/20/2002

ANSI INCITS 58-1977 (R2002), Unrecorded Eleven-Disk Pack - General, Physical, and Magnetic Requirements (reaffirmation of ANSI INCITS 58-1977 (R2000)): 12/20/2002

ANSI INCITS 76-1981 (R2002), Unformatted Single Disk Cartridge (Top Loading, 200 TPI, 4400 BPI) - General, Physical, and Magnetic Requirements (reaffirmation of ANSI INCITS 76-1981 (R1998)): 12/20/2002

ANSI INCITS 89-1981 (R2002), Unrecorded Single-Disk Double-Density Cartridge (Front Loading, 2200 BPI, 200 TPI), General, Physical, and Magnetic Requirements (reaffirmation of ANSI INCITS 89-1981 (R1998)): 12/20/2002

ANSI INCITS 112-1984 (R2002), 14-inch (356-mm) Diameter and Low Surface Friction Magnetic Storage Disk (reaffirmation of ANSI INCITS 112-1984 (R1996)): 12/20/2002

ANSI INCITS 115-1984 (R2002), Unformatted 80 Megabyte Trident Pack for Use at 370 TPI and 6000 BPI - Physical, Mechanical and Magnetic Characteristics (reaffirmation of ANSI INCITS 115-1984 (R2000)): 12/20/2002

ANSI INCITS 119-1984 (R2002), Contact Start/Stop Storage Disk, 158361 Flux Transitions per Track, 8.268 Inch (210 mm) Outer Diameter and 3.937 Inch (100 mm) Inner Diameter (reaffirmation of ANSI INCITS 119-1984 (R2000)): 12/20/2002

ANSI INCITS 120-1984 (R2002), Contact Start/Stop Storage Disk, 95840 Flux Transitions per Track, 7.874 Inch (200 mm) Outer Diameter and 2.500 Inch (63.5 mm) Inner Diameter (reaffirmation of ANSI INCITS 120-1984 (R2001)): 12/20/2002

ANSI INCITS 163-1988 (R2002), Information Systems - Contact Start/Stop Metallic Film Storage Disk - 83,333 Flux Transitions Per Track, 130-mm (5.118-in) Outer Diameter and 40-mm (1.575-in) Inner Diameter (reaffirmation of ANSI INCITS 163-1988 (R1999)): 12/20/2002

ANSI INCITS 179-1990 (R2002), 95-mm Diameter Rigid Digital Recording Disk (reaffirmation of ANSI INCITS 179-1990 (R2000)): 12/20/2002

ANSI INCITS 304-1997 (R2002), Information Technology - SCSI-3 Multimedia Commands (MMC) (reaffirmation of ANSI INCITS 304-1997): 12/20/2002

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

ANSI/ICEA S-101-699-2001, Category 3 Individually Unshielded Twisted Pair Indoor Cable For Use In General Purpose Non-LAN Telecommunications Wiring Systems Technical Requirements (new standard): 12/16/2002

**Revisions**

ANSI/ICEA S-84-608-2002, Telecommunications - Cable Filled, Polyolefin Insulated, Copper Conductor - Technical Requirements (revision of ANSI/ICEA S-84-608-1994): 12/20/2002

ANSI/ICEA S-85-625-2002, Telecommunications - Cable Aircore, Polyolefin Insulated, Copper Conductor - Technical Requirements (revision of ANSI/ICEA S-85-625-1996): 12/20/2002

**NSPI (National Spa and Pool Institute)****Revisions**

★ ANSI/NSPI 5-2003, Residential Inground Swimming Pools (revision of ANSI/NSPI 5-1995): 12/16/2002

**SCTE (Society of Cable Telecommunications Engineers)****New Standards**

ANSI/SCTE 61-2002, Test Method for Jacket Web Separation (new standard): 12/17/2002

ANSI/SCTE 79-2-2002, DOCS 2.0 Operations Support System Interface (new standard): 12/17/2002

**Revisions**

ANSI/SCTE 24-10-2002, IPCablecom Security Specification (revision of ANSI/SCTE 24-10-2001): 12/17/2002

**TIA (Telecommunications Industry Association)****New Standards**

ANSI/TIA 455-219-2002, FITP219 Multifiber Ferrule Endface Geometry Measurement (new standard): 12/16/2002

**Revisions**

ANSI/TIA/EIA 631-A-2002, Telecommunications - Telephone Terminal Equipment - Radio Frequency Immunity Requirements (revision of ANSI/TIA/EIA 631-1996): 12/16/2002

**Supplements**

ANSI/TIA/EIA 102.AABC-2-2002, Project 25 - Trunking Control Channel Messages - Addendum 2 - Multi Band Operations (supplement to ANSI/TIA/EIA 102.AABC-2000): 12/16/2002

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

**New Standards**

ANSI/UL 6A-2002, Electrical Rigid Metal Conduit - Aluminum, Bronze and Stainless Steel (new standard): 11/26/2002

ANSI/UL 6-2002, Electrical Rigid Metal Conduit - Steel (new standard): 11/26/2002

ANSI/UL 360-2002, Liquid-Tight Flexible Steel Conduit (new standard): 11/26/2002

ANSI/UL 797A-2002, Electrical Metallic Tubing - Aluminum (new standard): 11/26/2002

ANSI/UL 923-2002, Standard for Safety for Microwave Cooking Appliances (Bulletin dated 07/26/02) (new standard): 12/11/2002

**Revisions**

ANSI/UL 141-2002, Standard for Safety for Garment Finishing Appliances (revision of ANSI/UL 141-1995): 12/17/2002

ANSI/UL 588-2002, Standard for Safety for Christmas-Tree and Decorative Lighting (March 29, 2002) (revision of ANSI/UL 588-2000): 12/5/2002

ANSI/UL 797-2002, Electrical Metallic Tubing - Steel (revision of ANSI/UL 797-1995): 11/26/2002

ANSI/UL 1242-2002, Electrical Intermediate Metal Conduit - Steel (revision of ANSI/UL 1242-2001): 11/26/2002

# 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 1.2.8 of the ANSI Procedures for the Development and Coordination of American National Standards (2001 edition.)

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.

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

**Office:** 1711 Arlingate Lane  
P.O. Box 28518  
Columbus, OH 43228-0518

**Contact:** Brian O'Connell

**Fax:** (800) (614) 274-6899

**E-mail:** boconnell@asnt.org

BSR/ASNT CP 9712-200x, Qualification and Certification of  
Nondestructive Testing Personnel (identical national adoption)

## ASTM (ASTM International)

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

**Contact:** David Bradley

**Fax:** (610) (610) 832-9666

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

BSR/ASTM Z9873Z-200x, Test Method for Measuring Homogeneity  
and Miscibility in Automotive Engine Oils (new standard)

BSR/ASTM Z9876Z-200x, Test Method for the Determination of  
Ignition Delay and Derived Cetane Number (DCN) of Diesel Fuel  
Oils by Combustion in a Constant Volume Chamber (new standard)

BSR/ASTM Z9877Z-200x, Test Method for Evaluation of Engine Oils in  
a High Speed, Single-Cylinder Diesel Engine-Caterpillar 1R Test  
Procedure (new standard)

BSR/ASTM Z9937Z-200x, Standard Practice for Performance  
Characterization of Dosimetry Systems (new standard)

BSR/ASTM Z9948Z-200x, Test Method for Rotational Viscosity of  
Heavy Duty Diesel Drain Oils at 100 deg C (new standard)

BSR/ASTM Z9950Z-200x, Standard Specification for Fitness  
Equipment (new standard)

BSR/ASTM Z9951Z-200x, Test Methods for Evaluating Design and  
Performance Characteristics of Selectorized Strength Equipment  
(new standard)

BSR/ASTM Z9952Z-200x, Specifications for Helmets Used in Pole  
Vaulting (new standard)

BSR/ASTM Z9953Z-200x, Test Methods for Bicycle Frames (new  
standard)

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

**Office:** 100 Bureau Drive  
Gaithersburg, MD 20899-8460

**Contact:** Louis Costrell

**Fax:** (301) (301) 216-2075

**E-mail:** Louis.Costrell@nist.gov

BSR N42.32-200x, Performance Criteria for Alarming Personal  
Detectors (new standard)

BSR N42.33-200x, Radiation Detection Instrumentation for Homeland  
Security (new standard)

BSR N42.34-200x, Hand-Held Instruments for the Detection and  
Identification of Radioactive Isotopes (new standard)

BSR N42.35-200x, Evaluation and Application of Radiation Detection  
Portal Monitors for Use in Homeland Security (new standard)

## OEOSC (ASC OP) (Optics and Electro-Optics Standards Council)

**Office:** P.O. Box 25705  
Rochester, NY 14625-0705

**Contact:** Gene Kohlenberg

**Fax:** (716) 585-377-2540

**E-mail:** gene.kohlenberg@toast.net

BSR/OEOSC OP1.002-200x, Optics and Electro-Optical Instruments -  
Optical Elements and Assemblies - Appearance Imperfections (new  
standard)

## WCMA (Window Covering Manufacturers Association)

**Office:** 355 Lexington Avenue, 17th Floor  
New York, NY 10017-6603

**Contact:** Carolyn Jennings

**Fax:** (212) (212) 370-9047

**E-mail:** cjennings@kellencompany.com

BSR/WCMA A100.1-200x, Standard for Safety of Corded Window  
Covering Products (revision of ANSI/WCMA A100.1-2002)

# American National Standards Maintained Under Continuous Maintenance

The ANSI Procedures for the Development and Coordination of American National Standards (ANSI Procedures) provide two options for the maintenance of American National Standards (ANS): periodic maintenance (see clause 4.4.1) and continuous maintenance (see clause 4.4.2). 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 4.4.1 and 4.4.3.

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 STANDARDS INFO, and choose "American National Standards Maintained Under Continuous Maintenance". This information is also available directly at [http://web.ansi.org/public/ans\\_main/default.htm](http://web.ansi.org/public/ans_main/default.htm).

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.

# 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

Misys Hospital Systems, Inc. d/b/a Misys Healthcare Systems

Organization: Misys Healthcare Systems  
4801 E. Broadway  
Tucson, AZ 85711

Contact: Michael Buchanan  
PHONE: 520-570-2000; FAX: 520-733-6707

E-mail: [Michael.buchanan@misyshealthcare.com](mailto:Michael.buchanan@misyshealthcare.com)

Public review: November 18, 2002 to February 16, 2003

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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## Accredited Standards Committees

### Approval of Reaccreditation

#### ASC Z21/83 - Performance and Installation of Gas Burning Appliances and Related Accessories and Industrial Gas Equipment and Utilization

The Executive Standards Council has approved the reaccreditation of Accredited Standards Committee Z21/83, Performance and Installation of Gas Burning Appliances and Related Accessories and Industrial Gas Equipment and Utilization, with CSA America Inc. continuing as Secretariat, using revised operating procedures under the Committee Method of developing consensus, effective December 16, 2002. For additional information, please contact: Ms. Lynn Smoke, CSA America, Inc., 8501 East Pleasant Valley Road, Cleveland, OH 44131-5575; PHONE: (216) 524-4990; FAX: (216) 642-3463; E-mail: lynn.smoke@csa-america.org.

### Reaccreditation

#### ASC Z223 - National Fuel Gas Code

##### Comment Deadline: January 28, 2003

Accredited Standards Committee Z223, National Fuel Gas Code, has submitted revisions to the operating procedures under which it was originally accredited under the Committee Method of developing consensus. As these revisions appear to be substantive in nature, the reaccreditation process is initiated.

To obtain a copy of the revised procedures or to offer comments, please contact: Mr. Paul Cabot, National Fuel Gas Code Administrator, American Gas Association, 400 North Capitol Street, NW, Washington, DC 20001; PHONE: (202) 824-7312; FAX: (202) 824-9122; E-mail: pcabot@aga.org. Please submit your comments to AGA by January 28, 2003, with a copy to the Recording Secretary, ExSC in ANSI's New York Office (FAX: (212) 840-2298; E-mail: Jthompso@ANSI.org). As the revisions are available electronically, the public review period is 30 days.

You may view or download a copy of the revised ASC Z223 operating procedures from ANSI Online during the public review period at the following URL:  
[http://www.ansi.org/public/library/sd\\_revise/default.htm](http://www.ansi.org/public/library/sd_revise/default.htm).

## Accredited Organization

### Approval of Reaccreditation

#### National Board of Boiler & Pressure Vessel Inspectors (NBBPVI)

The Executive Standards Council has approved the reaccreditation of the National Board of Boiler & Pressure Vessel Inspectors (NBBPVI), using revised policies and procedures under the Organization Method of developing consensus, effective December 19, 2002. For additional information, please contact: Mr. Charles Withers, Senior Staff Engineer, NBBPVI, 1055 Crupper Avenue, Columbus, OH 43229-1183; PHONE: (614) 888-8320; FAX: (614) 847-1828; E-mail: cwithers@nationalboard.org.

### Reaccreditation

#### Health Level Seven (HL7)

##### Comment Deadline: January 28, 2003

Health Level Seven (HL7) has submitted revisions to the operating procedures under which it was originally accredited under the Organization Method of developing consensus. As these revisions appear to be substantive in nature, the reaccreditation process is initiated.

To obtain a copy of the revised procedures or to offer comments, please contact: Ms. Karen Van Hentenryck, Associate Executive Director, Health Level Seven, 3300 Washtenaw Avenue, Suite 2, Ann Arbor, MI 48104-4250; PHONE: (734) 677-7777; FAX: (734) 677-6622; E-mail: karenvan@hl7.org. Please submit your comments to HL7 by January 28, 2003, with a copy to the Recording Secretary, ExSC in ANSI's New York Office (FAX: (212) 840-2298; E-mail: Jthompso@ANSI.org). As the revisions are available electronically, the public review period is 30 days. You may view or download a copy of the revised HL7 operating procedures from ANSI Online during the public review period at the following URL:  
[http://www.ansi.org/public/library/sd\\_revise/default.htm](http://www.ansi.org/public/library/sd_revise/default.htm).

### Standards Action Weekly Publishing Schedule for 2003

VOL 34	ASD submits Data to PSA		SA Publish and Public Review		
	Issue	ASD submit start (Tuesday)	ASD submit end (Monday)	SA Publish (Friday)	45 Day PR Ends
1	12/17/2002	12/23/2002	1/3/2003	2/17/2003	3/4/2003
2	12/24/2002	12/30/2002	1/10/2003	2/24/2003	3/11/2003
3	12/31/2002	1/6/2003	1/17/2003	3/3/2003	3/18/2003
4	1/7/2003	1/13/2003	1/24/2003	3/10/2003	3/25/2003
5	1/14/2003	1/20/2003	1/31/2003	3/17/2003	4/1/2003
6	1/21/2003	1/27/2003	2/7/2003	3/24/2003	4/8/2003
7	1/28/2003	2/3/2003	2/14/2003	3/31/2003	4/15/2003
8	2/4/2003	2/10/2003	2/21/2003	4/7/2003	4/22/2003
9	2/11/2003	2/17/2003	2/28/2003	4/14/2003	4/29/2003
10	2/18/2003	2/24/2003	3/7/2003	4/21/2003	5/6/2003
11	2/25/2003	3/3/2003	3/14/2003	4/28/2003	5/13/2003
12	3/4/2003	3/10/2003	3/21/2003	5/5/2003	5/20/2003
13	3/11/2003	3/17/2003	3/28/2003	5/12/2003	5/27/2003
14	3/18/2003	3/24/2003	4/4/2003	5/19/2003	6/3/2003
15	3/25/2003	3/31/2003	4/11/2003	5/26/2003	6/10/2003
16	4/1/2003	4/7/2003	4/18/2003	6/2/2003	6/17/2003
17	4/8/2003	4/14/2003	4/25/2003	6/9/2003	6/24/2003
18	4/15/2003	4/21/2003	5/2/2003	6/16/2003	7/1/2003
19	4/22/2003	4/28/2003	5/9/2003	6/23/2003	7/8/2003
20	4/29/2003	5/5/2003	5/16/2003	6/30/2003	7/15/2003
21	5/6/2003	5/12/2003	5/23/2003	7/7/2003	7/22/2003
22	5/13/2003	5/19/2003	5/30/2003	7/14/2003	7/29/2003
23	5/20/2003	5/26/2003	6/6/2003	7/21/2003	8/5/2003
24	5/27/2003	6/2/2003	6/13/2003	7/28/2003	8/12/2003
25	6/3/2003	6/9/2003	6/20/2003	8/4/2003	8/19/2003
26	6/10/2003	6/16/2003	6/27/2003	8/11/2003	8/26/2003
27	6/17/2003	6/23/2003	7/4/2003	8/18/2003	9/2/2003
28	6/24/2003	6/30/2003	7/11/2003	8/25/2003	9/9/2003
29	7/1/2003	7/7/2003	7/18/2003	9/1/2003	9/16/2003
30	7/8/2003	7/14/2003	7/25/2003	9/8/2003	9/23/2003
31	7/15/2003	7/21/2003	8/1/2003	9/15/2003	9/30/2003

32	7/22/2003	7/28/2003	8/8/2003	9/22/2003	10/7/2003
33	7/29/2003	8/4/2003	8/15/2003	9/29/2003	10/14/2003
34	8/5/2003	8/11/2003	8/22/2003	10/6/2003	10/21/2003
35	8/12/2003	8/18/2003	8/29/2003	10/13/2003	10/28/2003
36	8/19/2003	8/25/2003	9/5/2003	10/20/2003	11/4/2003
37	8/26/2003	9/1/2003	9/12/2003	10/27/2003	11/11/2003
38	9/2/2003	9/8/2003	9/19/2003	11/3/2003	11/18/2003
39	9/9/2003	9/15/2003	9/26/2003	11/10/2003	11/25/2003
40	9/16/2003	9/22/2003	10/3/2003	11/17/2003	12/2/2003
41	9/23/2003	9/29/2003	10/10/2003	11/24/2003	12/9/2003
42	9/30/2003	10/6/2003	10/17/2003	12/1/2003	12/16/2003
43	10/7/2003	10/13/2003	10/24/2003	12/8/2003	12/23/2003
44	10/14/2003	10/20/2003	10/31/2003	12/15/2003	12/30/2003
45	10/21/2003	10/27/2003	11/7/2003	12/22/2003	1/6/2004
46	10/28/2003	11/3/2003	11/14/2003	12/29/2003	1/13/2004
47	11/4/2003	11/10/2003	11/21/2003	1/5/2004	1/20/2004
48	11/11/2003	11/17/2003	11/28/2003	1/12/2004	1/27/2004
49	11/18/2003	11/24/2003	12/5/2003	1/19/2004	2/3/2004
50	11/25/2003	12/1/2003	12/12/2003	1/26/2004	2/10/2004
51	12/2/2003	12/8/2003	12/19/2003	2/2/2004	2/17/2004
52	12/9/2003	12/15/2003	12/26/2003	2/9/2004	2/24/2004
1	12/16/2003	12/22/2003	1/2/2004	2/16/2004	3/2/2004
2	12/23/2003	12/29/2003	1/9/2004	2/23/2004	3/9/2004
3	12/30/2003	1/5/2004	1/16/2004	3/1/2004	3/16/2004



## BSR/NSF 3-200x

## 2 Normative references

UL/ANSI 197 –1993 *Commercial electrical cooking appliances*

**Rationale:** *New reference per marking reference in 5.16.4.*

5.1.16 **Rinse aid, Detergent, and chemical sanitizer feeders**

5.1.16.1 Rinse aid, Detergent and chemical sanitizer feeders provided by the manufacturer shall conform to the requirements in NSF/ANSI/NSF 29.

**Rationale:** *Editorial. All feeders must comply with NSF/ANSI 29, including rinse aid feeders.*

5.1.16.2 Chemical sanitizer feeders provided by the manufacturer shall be capable of maintaining the machine manufacturer's minimum sanitizer concentration in the final sanitizing rinse.

5.1.16.3 If a chemical sanitizer feeder is not provided with a machine intended for use as a chemically sanitizing warewashing machine, the manufacturer shall provide the information needed to identify and install an appropriate and functional chemical feeder. As a minimum, the manufacturer shall specify the type and concentration of chemical sanitizer, the appropriate chemical feed rate (milliliters/minute) and feed time (seconds), and the necessary electrical requirements. This information must be displayed in a visible location on the machine. The electrical requirements may be on the inside of an enclosure or in the instruction manual. If a detergent feeder and/or a chemical sanitizer feeder are not provided by the manufacturer on the dishwasher, the manufacturer shall include the following statement, or equivalent, in the operating manual:

"This machine must be operated with an automatic detergent feeder and, if applicable, an automatic chemical sanitizer feeder, including a visual means to verify that detergents and sanitizers are delivered or a visual or audible alarm to signal if detergents and sanitizers are not available for delivery to the respective washing and sanitizing systems. Please see instructions for electrical and plumbing connections located in this manual and in the feeder equipment manual."

**Rationale:** *Consistent with the Joint Committee's interpretation of the language in the FDA 2001 FOOD CODE Section 4-204.117, including "Public Health Reasons", Annex 3. Note – this will require modification to existing Certified products.*

5.1.16.4 If a sanitizing feeder is not provided by the manufacturer of a chemical sanitizing dishwasher, the manufacturer shall specify the type and concentration of chemical sanitizer, the appropriate sanitizer feed rate (milliliters/minute), feed time (seconds), and necessary electrical requirements. This information must be displayed in a visible location on the machine. This information must be displayed on a permanently attached data plate. Electrical requirements may be on the inside of an enclosure or in the instruction manual.

5.1.16.5 Detergent and chemical sanitizing feeders shall include:

- a visual means to verify that detergents and sanitizers are delivered; or
- a visual or audible alarm to signal if detergents and sanitizers are not available for delivery to the respective washing and sanitizing systems.

Note: Some examples of systems that meet the intent of this requirement are a flow indicator, flashing light, buzzer, or visible open-air delivery system that shows the operator that the chemicals are no longer being dispensed.

**Rationale:** *Consistent with the Joint Committee's interpretation of the language in the FDA 2001 FOOD CODE Section 4-204.117, including "Public Health Reasons", Annex 3.*

7.4 **Manufacturer's instructions**

7.4.1 Commercial warewasher operating instructions or other literature provided by the manufacturer shall not recommend that detergents or sanitizers be manually added to the machine.

**Rationale:** *This formalizes the requirement that manufacturers provide instructions in accordance with 5.16.*

7.4.2 For granular warewashing machines, Manufacturer's instructions shall specify the type of granule intended for use in the machine.

**Rationale:** *Editorial.*

## BSR/NSF 29-200x

### 1 General

#### 1.1 Purpose

This Standard establishes minimum public health and sanitation requirements for chemical sanitizing feeders, detergent feeders, rinse agent feeders, and similar devices for commercial spray-type dishwashing machines.

*Rationale: "...for commercial spray-type dishwashing machines..." added for clarification.*

#### 4.5 5.7 Signals Delivery verification

**5.7.1**—Dispensers and injectors Rinse aid feeders shall be fabricated manufactured or equipped to provide an effective indication (visual or audible, or both) when additive supply is depleted, or when additive is not being delivered to the final rinse.

Note: Some examples of systems that meet the intent of this requirement are a clear sight-tube, or a translucent supply reservoir that shows the operator that the chemicals are depleted or no longer being dispensed.

#### 5.7.2 Detergent and sanitizer feeders shall include:

-a visual means to verify that detergents and sanitizers are delivered; or

-a visual or audible alarm to signal if the detergents and sanitizers are not available for delivery to the respective washing and sanitizing cycles.

Note: Some examples of systems that meet the intent of this requirement are a flow indicator, flashing light, buzzer, or visible open-air delivery system that shows the operator that the chemicals are no longer being dispensed.

*Rationale: Consistent with the Joint Committee's interpretation of the language in the FDA 2001 FOOD CODE Section 4-204.117, including "Public Health Reasons", Annex 3. "Manufactured" for "fabricated" for consistency with boilerplate language.*