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CONTENTS

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Project Initiation Notification System (PINS)

Section 2.5.1 of the *ANSI Essential Requirements* (www.ansi.org/essentialrequirements) describes the Project Initiation Notification System (PINS) and includes requirements associated with a PINS Deliberation. Following is a list of PINS notices submitted for publication in this issue of ANSI Standards Action by ANSI-Accredited Standards Developers (ASDs). Please also review the section in Standards Action entitled "American National Standards Maintained Under Continuous Maintenance" for information about American National Standards (ANS) maintained under the continuous maintenance option, as a PINS to initiate a revision of such standards is not required. Use the following Public Document Library url to access PDF & EXCEL reports of approved & proposed ANS: List of Approved and Proposed ANS. Directly and materially interested parties wishing to receive more information or to submit comments are to contact the sponsoring ANSI-Accredited Standards Developer directly **within 30 calendar days** of the publication of this PINS announcement.

ACCA (Air Conditioning Contractors of America)

David Bixby <david.bixby@acca.org> | 1520 Belle View Boulevard, #5220 | Alexandria, VA 22307 www.acca.org

Revision

BSR/ACCA 11 Manual Zr-202x, Residential Zoning Systems (revision of ANSI/ACCA 11 Manual Zr-2018)
Stakeholders: HVAC contractors, zone damper manufacturers, HVAC system designers, home builders, homeowners, and home energy professionals.

Project Need: Various revisions and updates are required to keep pace with current industry practice and standards.

Interest Categories: HVAC and home energy designers, HVAC contractors, homeowners, and zone damper system manufacturers.

This standard provides procedures and requirements for designing zoned comfort systems for residential buildings, including single-family detached homes, duplex and triplex homes, row and townhouses, and large, multi-family structures that are in accordance and compatible with ANSI/ACCA Manual J, Load Calculations. The standard consists of the following Normative sections. Section N1 - General Requirements for Residential Zoned Systems Section N2 - Requirements for Zone Damper Systems Section N3 - Requirements for Ductless Equipment, Unitary Equipment, and Hot Water Heat

ACCA (Air Conditioning Contractors of America)

David Bixby <david.bixby@acca.org> | 1520 Belle View Boulevard, #5220 | Alexandria, VA 22307 www.acca.org

Reaffirmation

BSR/ACCA 12 QH-2018 (R202x), Existing Home Evaluation and Performance Improvement (reaffirmation of ANSI/ACCA 12 QH-2018)
Stakeholders: HVAC Contractors, Homeowners and Home Builders, Indoor Environment and Energy Efficiency Professionals, and Home Performance Organizations.

Project Need: Reaffirmation is requested in accordance with ANSI procedures.

Interest Categories: HVAC Systems, Indoor Environment and Energy Efficiency, Home Improvement and Performance, Builders, Homeowners.

This standard establishes the minimum criteria by which deficiencies in residential buildings are identified by audit, improvement opportunities are assessed, scopes of work are finalized, work is performed in accordance with industry recognized procedures, and improvement objectives are met. This standard applies to site-constructed or manufactured, one-and two-family dwellings, townhouses, and individual residential units in multifamily buildings.

ACCA (Air Conditioning Contractors of America)

David Bixby <david.bixby@acca.org> | 1520 Belle View Boulevard, #5220 | Alexandria, VA 22307 www.acca.org

Supplement

BSR/ACCA 3 Manual S-202x, Residential Equipment Selection (supplement to ANSI/ACCA 3 Manual S-2023)
Stakeholders: HVAC contractors and system designers, HVAC equipment manufacturers, energy efficiency professionals, and home builders.

Project Need: This project is to supplement the 2023 Edition with a proposed Addendum to clarify and correct several requirements that were deemed substantive.

Interest Categories: HVAC contactors and HVAC system designers, equipment manufacturers, energy efficiency professionals, and home builders.

This standard provides procedures for selecting and sizing residential cooling equipment, heat pumps, electric heating coils, furnaces boilers, ancillary dehumidification equipment, humidification equipment, equipment tested and rated according to retail appliance standards, and direct evaporative cooling equipment. These procedures emphasize the importance of using performance data that correlates sensible and latent cooling capacity with all the variables that affect performance. Similar principles apply to heat pump selection and sizing, and to furnace and boiler selection and sizing. All procedures produce installed, design-condition capacity that is appropriate for the applicable building loads, but is less than, or equal to, the over-sizing limit allowed for a given type of equipment.

AGMA (American Gear Manufacturers Association)

Phillip Olson <olson@agma.org> | 1001 N. Fairfax Street, Suite 500 | Alexandria, VA 22314 www.agma.org

Revision

BSR/AGMA 2101-EXX-202x, Fundamental Rating Factors and Calculation Methods for Involute Spur and Helical Gear Teeth (revision of ANSI/AGMA 2101-D04 (R2016))
Stakeholders: Users and manufacturers of spur and helical gears.

Project Need: Update current standard to reflect current state-of-the art.

Interest Categories: Manufacturers, users of spur and helical gears as well as general (academic) .

This standard specifies a method for rating the macropitting resistance and bending strength of spur and helical involute gear pairs. A detailed discussion of factors influencing gear survival and calculation methods are provided.

ASA (ASC S1) (Acoustical Society of America)

Raegan Ripley <standards@acousticalsociety.org> | 1305 Walt Whitman Road, Suite 300 | Melville, NY 11747 www.acousticalsociety.org

Revision

BSR S1.18-202x, Method for Determining the Acoustic Impedance of Ground Surfaces (revision of ANSI/ASA S1.18 -2018 (R2023))
Stakeholders: Noise consultants, military departments concerned with predictiong outsoor noise levels, and researchers into outdoor sound propagation

Project Need: The standard is 5 years old. The need for it has been reaffirmed by ANSI S1 Committee.

Interest Categories: User, Producer, General Interest

This Standard describes procedures for obtaining the real and imaginary parts of the normalized acoustic impedance ratio of ground surfaces from in-situ measurements of the sound pressure levels at two vertically separated microphones using specified geometries and the averaged values of the difference between the simultaneous, instantaneous sound-pressure signals at the two microphones. The revision will take advantage of the availability of improved instrumentation to enable the user to obtain values of the normalized specific acoustic impedance ratio of the ground entirely from measurements and independently of any model for the acoustic impedance of the ground surface except as a check on the validity of the resulting values.

ASA (ASC S1) (Acoustical Society of America)

Raegan Ripley <standards@acousticalsociety.org> | 1305 Walt Whitman Road, Suite 300 | Melville, NY 11747 www.acousticalsociety.org

New Standard

BSR S1.46-202x, Recommendations for the design of in-ear noise dose monitoring hearing protection devices (new standard)
Stakeholders: (1) Occupational Health and Safety Employers and Workers; (2) Healthcare Workers, Audiologists and Hearing Health Professionals; (3) Regulatory Bodies and Compliance Agencies; (4) Manufacturers of In-Ear Dosimeters; (5) Research and Academia.

Project Need: The need for a new standard for in-ear dosimetry arises from the advancements and complexities introduced by in-ear noise dosimeters (IENDs) in the field of personal noise exposure assessment. While traditional personal body-worn noise dosimeters (PNDs) have been useful, they come with limitations that can be addressed by IENDs. However, the unique characteristics of IENDs require a dedicated standardization effort for several reasons: (1) Accuracy and Consistency; (2) Placement and Calibration; (3) Correction Factors; (4) Wearer-Induced Disturbances (WIDs).

Interest Categories: User, Producer, General Interest

Personal noise exposure measurements are crucial for assessing the noise levels workers are subjected to, ensuring adherence to legal exposure limits. This is, in the best cases, achieved through personal body-worn noise dosimeters (PNDs), offering continuous monitoring at the worker's location. PNDs are especially valuable for mobile workers and unpredictable noise environments. However, they have limitations: (i) misplacement errors in directional sound fields, (ii) susceptibility to wearer-generated noise, and (iii) compromised accuracy when hearing protection devices (HPDs) are worn due to varying sound attenuation offered. Additionally, standard PNDs provide information about ambient cumulative sound pressure levels (SPLs), while hearing damage risks are likely linked to SPLs at the eardrum. Even without HPDs, a given ambient (or < fee field >) SPL can lead to diverse in-ear SPLs based on sound direction and individual anatomy, resulting in significant noise exposure variations.

ASA (ASC S12) (Acoustical Society of America)

Raegan Ripley <standards@acousticalsociety.org> | 1305 Walt Whitman Road, Suite 300 | Melville, NY 11747 www.acousticalsociety.org

Revision

BSR S12.14-202x, Methods for the Field Measurement of the Sound Output of Audible Public Warning Devices Installed at Fixed Locations Outdoors (revision of ANSI/ASA S12.14-1992 (R2020))
Stakeholders: Community government, acoustical consultants, police and fire departments.

Project Need: The standards referenced in the current document are out of date. Some items listed use names that are no longer correct.

Interest Categories: User, Producer, General Interest

The standard describes simple procedures for measuring and reporting certain properties of audible warning devices to obtain repeatable field determinations of sound.

ASA (ASC S12) (Acoustical Society of America)

Raegan Ripley <standards@acousticalsociety.org> | 1305 Walt Whitman Road, Suite 300 | Melville, NY 11747 www.acousticalsociety.org

Revision

BSR S12.61-202x, Declaration and Verification of Noise Emission Values of Machinery, Equipment, and Products (revision of ANSI/ASA S12.61-2020)
Stakeholders: As before with the standard as published (see its PINS), no changes in stakeholders due to revision: Manufacturers of noise-making products and purchasers thereof, and associated industry groups and trade associations. Also, NGOs and other groups concerned about noise.

Project Need: Now that the "parent" document, ASA/ANSI S12.3 has been approved for publication, there are inconsistencies in the 2020 version of S12.61. Several changes, which are not considered major or controversial, will be made to bring S12.61 into consistency with the new S12.3.

Interest Categories: Producer, User, General Interest

Chair's note: The abstract will be substantially the same as the current abstract, but there may be slight changes once WG38 has deliberated and agreed on the revisions. Information on the acoustical noise emitted by machinery, equipment, and products is needed by consumers, manufacturers, building and land-use planners, governmental authorities, and others concerned about noise in order to make informed purchasing decisions. To meet this need, this Standard gives requirements and guidelines for how to properly and uniformly provide product noise level information to the public. This standard specifies the noise emission values to be declared for a batch of machines, equipment, or products and the requirements for their presentation; the method for determining the mean A-weighted sound power level; the method for optionally determining the total standard deviation; the method for optionally determining the mean A-weighted emission sound pressure level; and the method for verifying the noise emission values that are declared by manufacturers and other product suppliers. This standard is applicable to commercially available products that emit noise, including consumer products and household appliances, information technology products, industrial equipment, outdoor equipment and construction machinery, and other products.

ASABE (American Society of Agricultural and Biological Engineers)

Sadie Stell <stell@asabe.org> | 2590 Niles Road | Saint Joseph, MI 49085 https://www.asabe.org/

Revision

BSR/ASABE/ISO 27850-202x MONYEAR, Tractors for agriculture and forestry — Falling object protective structures — Test procedures and performance requirements (revision and redesignation of ANSI/ASABE/ISO 27850-2013 MAY2016 (R2020))
Stakeholders: Manufacturers and end users of the safety device described in the document scope statement.

Project Need: Correct numerical typographical error.

Interest Categories: Academia: 1; Design: 4; General Interest: 2; Producer: 4; Research: 2; Safety: 2; User: 1

This International Standard sets forth the test procedure and performance requirements for a falling object protective structure, in the event such a structure is installed on an agricultural or forestry tractor. This International Standard is applicable to agricultural and forestry tractors having at least two axles for pneumatic tyred wheels or having tracks instead of wheels. This International Standard does not apply to forestry machinery as defined in ISO 6814.

ASTM (ASTM International)

Lauren Daly <accreditation@astm.org> | 100 Barr Harbor Drive | West Conshohocken, PA 19428-2959 www.astm.org

National Adoption

BSR/ASTM/ISO 13785-1-202x, Reaction-to-fire tests for faades — Part 1: Intermediate-scale test (identical national adoption of ISO 13785-1)
Stakeholders: Fire Safety Professionals

Project Need: For acceptance and use by the United States markets, avoid duplication

Interest Categories: Producer, User, General Interest

This part of ISO 13785 specifies a screening method for determining the reaction to fire performance of products and constructions of façades or claddings when exposed to heat from a simulated external fire with flames impinging directly upon a façade. It is intended for use by producers to reduce the burden of testing in Part 2 of ISO 13785 by eliminating those systems that fail the tests described in this part of ISO 13785.

ASTM (ASTM International)

Lauren Daly <accreditation@astm.org> | 100 Barr Harbor Drive | West Conshohocken, PA 19428-2959 www.astm.org

National Adoption

BSR/ASTM 13785-2-202x, Reaction-to-fire tests for faades — Part 2: Large-scale test (identical national adoption of ANSI/ASTM/ISO 13785-2)
Stakeholders: Fire Safety Professionals

Project Need: For acceptance and use by the United States markets, avoid duplication

Interest Categories: Producer, User, General Interest

This part of ISO 13785 specifies a method of test for determining the reaction to fire of materials and construction of façade claddings when exposed to heat and flames from a simulated interior compartment fire with flames emerging through a window opening and impinging directly on the façade. The information generated from this test may also be applicable to the scenario of an external fire impinging on a façade; however, the results may not be applicable for all fire exposure conditions.

ASTM (ASTM International)

Lauren Daly <accreditation@astm.org> | 100 Barr Harbor Drive | West Conshohocken, PA 19428-2959 www.astm.org

New Standard

BSR/ASTM WK88099-202x, New Guide for Lithium Battery Carriage (new standard)
Stakeholders: General Requirements Industry

Project Need: Current guidance for maritime transport of lithium batteries is lacking. This guide would be used by vessel owners and managers in setting policy and procedures related to lithium battery transport and emergency response.

Interest Categories: Producer, User, General Interest

Recommendations for owners, operators, and designers of vessels to safely carrying lithium batteries onboard including electric vehicles, e-bikes, scooters.

AWS (American Welding Society)

Mario Diaz <mdiaz@aws.org> | 8669 NW 36th Street, Suite 130 | Miami, FL 33166-6672 www.aws.org

New Standard

BSR/AWS D8.11M-202x, Specification for Automotive Weld Quality – Laser Beam Welding of Aluminum (new standard)
Stakeholders: Major Automotive Manufacturers and other OEM and Tier suppliers of automotive body components.

Project Need: It would be used by major automotive OEMs as well as the Tier suppliers of automotive body subassemblies.

Interest Categories: General Interest, Educator, User, Producer

This document will standardize laser-beam-weld inspection procedures and establish guidelines for process control and quality acceptance of aluminum laser beam welds in automotive body applications. Aluminum use in automotive body structures, now including battery trays for electric vehicles, continues to expand. Development of this specification is the natural next step for the AWS D8E Subcommittee following the recent release of AWS D8.10M: 2021, Specification for Automotive Weld Quality – Laser Beam Welding of Steel.

ECIA (Electronic Components Industry Association)

Laura Donohoe <ldonohoe@ecianow.org> | 13873 Park Center Road, Suite 315 | Herndon, VA 20171 www.ecianow.org

Revision

BSR/EIA 977-202x, Test Method - Electronic Passive Components - Exposure to Atmospheric Sulfur (revision and redesignation of ANSI/EIA 977-2017 (R2021))
Stakeholders: Electrical, electronic, and telecommunications industries

Project Need: Revise and redesignate current American National Standard.

Interest Categories: User, Producer, General Interest

This standard defines options for testing passive electronic components for susceptibility to the effects of environmental sulfur. Such susceptibility results in the corrosion of silver in the presence of sulfur compounds in a liquid or gaseous state, potentially leading to component failure.

ESTA (Entertainment Services and Technology Association)

Richard Nix <standards@esta.org> | 271 Cadman Plaza, P.O. Box 23200 | Brooklyn, NY 11202-3200 www.esta.org

Revision

BSR/E1.2-202x, Design, Manufacture and Use of Aluminum Trusses and Towers (revision of ANSI E1.2-2021)
Stakeholders: Manufacturers, dealers, assemblers, and users of portable aluminum structures in the entertainment industry.

Project Need: The latest revision of ANSI E1.2 contains outdated referenced standards, and requires clarity regarding welding requirements. This is a limited revision of ANSI E1.2-2021 to exclusively address welding requirements and associated references

Interest Categories: Custom market producers, mass-market equipment producers, designers, dealer or rental companies,users, and general interest

E1.2 describes the design, manufacture, and use of aluminum trusses, towers, and associated aluminum structural components, such as head blocks, sleeve blocks, and bases, in the live entertainment industry. It also offers advice on applying and removing coatings and painted finishes.

ESTA (Entertainment Services and Technology Association)

Richard Nix <standards@esta.org> | 271 Cadman Plaza, P.O. Box 23200 | Brooklyn, NY 11202-3200 www.esta.org

Revision

BSR/E1.21-202x, Temporary Structures Used for Technical Production of Outdoor Entertainment Events (revision of ANSI/E1.21-2023)
Stakeholders: Building and Fire Code officials, entertainment event producers, event production companies, technicians, and performers.

Project Need: The latest revision of ANSI E1.21 included changes to correlate with the 2024 International Building Code. When the 2024 IBC was published, it added a section that caused the E1.21 references to shift. This is a limited revision to exclusively address the correct IBC references as published, and two associated items of clarification.

Interest Categories: Custom market producers, mass-market equipment producers, designers, dealer or rental companies,users, and general interest

This document establishes a minimum level of design and performance parameters for the design, manufacturing, use and maintenance of temporary ground-supported structures used in the production of outdoor entertainment events. The purpose of this guidance is to ensure the structural reliability and safety of these structures and does not address fire safety and safe egress issues. The intent of this standard is to establish a reasonable standard for care by providing the minimum acceptable requirements at which temporary structures shall be designed and used. The latest revision was updated to correlate with new provisions of the 2024 International Building Code.

IAPMO (Z) (International Association of Plumbing & Mechanical Officials)

Terry Burger <terry.burger@asse-plumbing.org> | 18927 Hickory Creek Drive, Suite 220 | Mokena, IL 60448 https://www.iapmostandards.org

Revision

BSR/CSA B45.13/IAPMO Z1700-202x, Vacuum waste-collection systems (revision of ANSI/CSA B45.13/IAPMO Z1700 -2019)
Stakeholders: Plumbing Professionals, Contractors and Engineers

Project Need: Revision to clean up existing language and add acceptable materials.

Interest Categories: Manufacturer, User, Installer/Maintainer, Research/Standards/Testing Laboratory, Enforcing Authority, Consumer, General Interest

This Standard applies to vacuum waste-collection systems that operate at Vacuum Pressure.

NEMA (ASC C8) (National Electrical Manufacturers Association)

Khaled Masri <Khaled.Masri@nema.org> | 1300 North 17th Street, Suite 900 | Arlington, VA 22209 www.nema.org

Revision

BSR NEMA WC 76-202x, Standard for Controlled Impedance Shielded Twisted Pairs in Internal Electrical Cable (revision of ANSI NEMA WC76-2018)
Stakeholders: Users and producers of telecommunications wire and cable

Project Need: Revise existing standard for 5 year maintenance

Interest Categories: Producers, Users, and General Interest

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

OPEI (Outdoor Power Equipment Institute)

Greg Knott <gknott@opei.org> | 1605 King Street | Alexandria, VA 22314 www.opei.org

Reaffirmation

BSR/OPEI B71.10-2018 (R202x), Standard for Off-Road Ground-Supported Outdoor Power Equipment – Gasoline Fuel Systems – Performance Specifications and Test Procedures (reaffirmation of ANSI/OPEI B71.10-2018)
Stakeholders: Gasoline-powered, ground-supported outdoor power equipment stakeholders including OEM producers & component suppliers, consumer users, retailers, testing organizations, government agencies and general interests.

Project Need: Reaffirmation of ANSI/OPEI B71.10-2018

Interest Categories: OEM Producers, Supplier Producers, Consumer Users, Retailers, Testing Organizations, Government Agencies and General Interests

This standard describes safety specifications and test procedures applicable to the gasoline fuel systems for off-road ground-supported outdoor power equipment with spark ignition engines of less than one liter displacement. Off-road ground-supported outdoor power equipment for which this standard may apply include walk-behind and riding lawn-mowers, snow throwers, powered log-splitters, shredders/grinders and tillers.

TVC (ASC Z80) (The Vision Council)

Michele Stolberg <ascz80@thevisioncouncil.org> | 225 Reinekers Lane, Suite 700 | Alexandria, VA 22314 www.z80asc.com

Revision

BSR Z80.35-202x, Ophthalmics - Extended Depth of Focus Intraocular Lenses (revision of ANSI Z80.35-2018 (R2023))
Stakeholders: Industry, Regulatory Agency, Professional Users

Project Need: Updating in preparation for required ANSI 5 year review.

Interest Categories: Nationwide organizations of manufacturers and ophthalmic laboratories, professional organizations of ophthalmologists, optometrists, and opticians, federal agencies that are purchasers of ophthalmic materials, and individual members, companies, and experts.

This standard applies to intraocular lenses (IOLs) whose function is the correction of aphakia, with extended range of focus above a defined functional visual acuity threshold to provide useful distance and intermediate vision with monotonically decreasing visual acuity from the best distance focal point. This standard addresses specific requirements for Extended Depth of Focus Intraocular Lenses (EDF IOLs) that are not addressed in the normative references, and include vocabulary, optical properties and test methods, mechanical properties and test methods, labeling, biocompatibility, sterility, shelf-life and transport stability, and clinical investigations necessary for this type of device. As with any standard, alternative validated test methods may be used.

ULSE (UL Standards & Engagement)

Tony Partridge <Tony.Partridge@ul.org> | 12 Laboratory Drive | Research Triangle Park, NC 27709-3995 https://ulse.org/

National Adoption

BSR/UL 61010-2-202-202x, Standard for Safety requirements for electrical equipment for measurement, control and laboratory use — Part 2-202: Particular requirements for electrically operated valve actuators (national adoption with modifications of IEC 61010-2-202)
Stakeholders: Manufacturers of actuators and solenoids used for industrial applications, regulators, and supply chain involving end product industrial equipment employing these equipment.

Project Need: The proposed UL 61010-2-202 will assist manufacturers interested in producing one product for use worldwide. These are actuators and solenoids used for only industrial applications that are not safety related. Safety related valves and actuators are covered by UL 429, Standard for Electrically Operated Valves.

Interest Categories: General, Producer, Supply Chain, Commercial Industrial User, Testing & Standards

This part of IEC 61010 specifies the safety requirements for electric ACTUATORs and SOLENOIDs, as applied to valves, intended to be installed in an industrial process or discrete control environment. This is a part 2 standard to UL 61010 -1, Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirements.

Call for Comment on Standards Proposals

American National Standards

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

Ordering Instructions for "Call-for-Comment" Listings

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

Comments should be addressed to the organization indicated, with a copy to the Board of Standards Review, American National Standards Institute, 25 West 43rd Street, New York, NY 10036. e-mail: psa@ansi.org
* Standard for consumer products

Comment Deadline: November 26, 2023

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

180 Technology Parkway, Peachtree Corners, GA 30092 | rshanley@ashrae.org, www.ashrae.org

Addenda

BSR/ASHRAE Addendum v to ANSI/ASHRAE Standard 34-2022, Designation and Safety Classification of Refrigerants (addenda to ANSI/ASHRAE Standard 34-2022)
This proposed addendum adds the zeotropic refrigerant blend R-455C to Tables 4-2 and D-2.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: Online Comment Database at https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts

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

180 Technology Parkway, Peachtree Corners, GA 30092 | rshanley@ashrae.org, www.ashrae.org

Addenda

BSR/ASHRAE Addendum w to ANSI/ASHRAE Standard 34-2022, Designation and Safety Classification of Refrigerants (addenda to ANSI/ASHRAE Standard 34-2022)
This proposed addendum adds the zeotropic refrigerant blend R-454D to Tables 4-2 and D-2.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: Online Comment Database at https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts

Comment Deadline: November 26, 2023

ICC (ASC A117) (International Code Council)

4051 Flossmoor Road, Country Club Hills, IL 60478 | kaittaniemi@iccsafe.org, www.iccsafe.org

Supplement

BSR ICC A117.1-202x, Standard for Accessible and Usable Buildings and Facilities (supplement to ANSI/ICC A117.1-2017)
Site design and architectural features affecting the accessibility and usability of buildings and facilities, consideration to be given to all types of physical and sensory disabilities, to publicly used buildings and facilities, and to residential structures.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: kpaarlberg@iccsafe.org

ICC (International Code Council)

4051 Flossmoor Road, Country Club Hills, IL 60478 | kaittaniemi@iccsafe.org, www.iccsafe.org

Revision

BSR/ICC 500-202x, ICC/NSSA Standard for the Design and Construction of Storm Shelters (revision of ANSI/ICC 500-2020)
The objective of this Standard is to provide technical design and performance criteria that will facilitate and promote the design, construction, and installation of safe, reliable, and economical storm shelters to protect the public. It is intended that this Standard be used by design professionals; storm shelter designers, manufacturers, and constructors; building officials; emergency management personnel; and government officials to ensure that storm shelters provide a consistently high level of protection to the sheltered public.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: kpaarlberg@iccsafe.org

IIAR (International Institute of Ammonia Refrigeration)

1001 North Fairfax Street, Alexandria, VA 22314 | tony_lundell@iiar.org, www.iiar.org

Revision

BSR/IIAR 9-202x Addendum A (202x), Standard for Minimum System Safety Requirements for Existing Closed-Circuit Ammonia Refrigeration Systems (revision of ANSI/IIAR 9-2020)
This standard provides the methodology to evaluate, establish, and document the minimum system safety requirements for existing closed-circuit ammonia refrigeration systems. Since IIAR 9-2020's original release, this IIAR 9-2020 Addendum A (202x) provides scope clarity to the regulatory basis restrictions between original codes/standards provisions and IIAR 9, provides clarity to an interpretation, and clarifies the required completion date deadline. It also includes informative explanatory material as an IIAR 9 Flow Chart.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: Tony Lundell <tony_lundell@iiar.org>

NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | jsnider@nsf.org, www.nsf.org

Revision

BSR/NSF 14-202x (i128r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14 -2022)
The physical, performance, and health effects requirements in this standard apply to thermoplastic and thermoset plastic piping system components including, but not limited to, pipes, fittings, valves, joining materials, gaskets, and appurtenances.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: Jason Snider <jsnider@nsf.org>

Comment Deadline: November 26, 2023

NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | jsnider@nsf.org, www.nsf.org

Revision

BSR/NSF 14-202x (i129r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14 -2022)

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

Click here to view these changes in full

Send comments (copy psa@ansi.org) to: Jason Snider <jsnider@nsf.org>

NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105 | mmilla@nsf.org, www.nsf.org

Revision

BSR/NSF 401-202x (i33r1), Drinking Water Treatment Units - Emerging Compounds / Incidental Contaminants (revision of ANSI/NSF 401-2022)

The point-of-use (POU) and point-of-entry (POE) systems addressed by this standard are designed to be used for the reduction of specific substances that may be present in drinking water (public or private), considered to be microbiologically safe, and of known quality. Systems covered under this standard are intended to reduce substances that are at very low, yet measurable, concentrations, but not at definitive concentrations of known health concern.

Click here to view these changes in full

Send comments (copy psa@ansi.org) to: Monica Milla <mmilla@nsf.org>

NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | jsnider@nsf.org, www.nsf.org

Revision

BSR/NSF/CAN 50-202x (i205r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2023)

This standard covers materials, chemicals, components, products, equipment, and systems related to public and residential recreational water facility operation.

Click here to view these changes in full

Send comments (copy psa@ansi.org) to: Jason Snider <jsnider@nsf.org>

Comment Deadline: November 26, 2023

ULSE (UL Standards & Engagement)

100 Queen Street, Suite 1040, Ottawa, ON K1P 1J9 Canada | laura.werner@ul.org, https://ulse.org/

New Standard

BSR/UL/ULC 2447-202x, Standard for Safety for Containment Sumps, Fittings and Accessories for Flammable and Combustible Liquids (new standard)
This Standard sets forth the minimum requirements for containment sumps, and associated sump fittings and accessories (products) intended for below-grade, at-grade or aboveground use as an enclosure for the housing of, and access to, underground piping, connector piping, and other fueling system components (such as pumps, valves, sensors, wiring, etc.) in addition to temporary containment of typical liquid fuels as identified in this Standard. These products are intended for use in commercial (public) or private (fleet) automotive fueling station applications or similar fuel-dispensing applications, and in piping systems for fuel supply to generators, burners, or similar equipment. Some sump fitting or sump accessory products may be optionally evaluated for repair or replacement applications in containment sumps that have been in service.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: https://csds.ul.com/ProposalAvailable

ULSE (UL Standards & Engagement)

333 Pfingsten Road, Northbrook, IL 60062-2096 | jeffrey.prusko@ul.org, https://ulse.org/

Revision

BSR/UL 330-202x, Standard for Safety for Hose and Hose Assemblies for Dispensing Flammable and Combustible Liquids (revision of ANSI/UL 330-2021)
The following is being recirculated for your review: (1) Clarify and align the plus and minus tolerances for mandrels.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: https://csds.ul.com/Home/ProposalsDefault.aspx

ULSE (UL Standards & Engagement)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | griff.edwards@ul.org, https://ulse.org/

Revision

BSR/UL 789-202x, Standard for Safety for Indicator Posts for Fire-Protection Service (revision of ANSI/UL 789 -2018)
(1) Indicator posts with reducing gears.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: https://csds.ul.com/ProposalAvailable

Comment Deadline: December 11, 2023

AAFS (American Academy of Forensic Sciences)

410 North 21st Street, Colorado Springs, CO 80904 | tambrosius@aafs.org, www.aafs.org

New Standard

BSR/ASB BPR 122-202x, Best Practice Recommendation for Performing Alcohol Calculations in Forensic Toxicology (new standard)
This document provides recommendations for performing alcohol (ethanol) calculations to include retrograde extrapolation, forward estimations, minimum drinks consumed, and other typical situations scenarios. Recommendations are also provided for evaluation of post-absorptive stage, various specimen types, population variances, and reporting of calculations. The principles and practices outlined in this best practice recommendation may also apply to postmortem scenarios, but there are additional variables to be considered that are outside the scope of this document. Expert opinions based on the results of these calculations are outside the scope of this document.
Single copy price: Free
Obtain an electronic copy from: This is a public comment period for a recirculation. Updated document, redline version, and comments can be viewed on the AAFS Standards Board website at: www.aafs.org/academy-standards-board.
Send comments (copy psa@ansi.org) to: asb@aafs.org

AAFS (American Academy of Forensic Sciences)

410 North 21st Street, Colorado Springs, CO 80904 | tambrosius@aafs.org, www.aafs.org

Revision

BSR/ASB Std 017-202x, Standard for Metrological Traceability in Forensic Toxicology (revision of ANSI/ASB Std 017-2018)
This standard defines the minimum requirements for establishing metrological traceability in forensic toxicology. Specifically, it is intended for the subdisciplines of postmortem forensic toxicology, human performance toxicology (e.g., drug-facilitated crimes and driving-under-the-influence of alcohol or drugs), non-regulated employment drug testing, court-ordered toxicology (e.g., probation and parole, drug courts, child services), general forensic toxicology (non-lethal poisonings or intoxications), and calibration of breath alcohol measuring instruments.
Single copy price: Free
Obtain an electronic copy from: Document and comments template can be viewed on the AAFS Standards Board website at: www.aafs.org/academy-standards-board
Send comments (copy psa@ansi.org) to: asb@aafs.org

AAMI (Association for the Advancement of Medical Instrumentation)

901 N. Glebe Road, Arlington, VA 22203 | mmiskell@aami.org, www.aami.org

National Adoption

BSR/AAMI/ISO 13408-1-202x, Aseptic processing of health care products - Part 1: General requirements (identical national adoption of ISO 13408-1:2023, Edition 3 and revision of ANSI/AAMI/ISO 13408-1-2008 (R2011))
Specifies the general requirements for, and offers guidance on, processes, programs, and procedures for development, validation and routine control of aseptic processing of health care products. Includes requirements and guidance relative to the overall topic of aseptic processing.
Single copy price: Free
Obtain an electronic copy from: Mike Miskell; mmiskell@aami.org
Send comments (copy psa@ansi.org) to: Mike Miskell; mmiskell@aami.org

Comment Deadline: December 11, 2023

AAMI (Association for the Advancement of Medical Instrumentation)

901 N. Glebe Road, Suite 300, Arlington, VA 22203 | tkim@aami.org, www.aami.org

Reaffirmation

BSR/AAMI/ISO 18472-2022 (R202x), Sterilization of health care products-Biological and chemical indicators-Test equipment (reaffirmation of ANSI/AAMI/ISO 18472-2022)
This document specifies requirements for test equipment to be used to test biological indicators for steam, ethylene oxide gas, and dry heat sterilization processes for conformity to the requirements given in ISO 11138 series and test chemical indicators for steam, ethylene oxide gas, dry heat, and vaporized hydrogen peroxide sterilization processes for conformity to the requirements given in ISO 11140-1:2014.
Single copy price: Free
Obtain an electronic copy from: tkim@aami.org
Send comments (copy psa@ansi.org) to: Thomas Kim, tkim@aami.org

ASA (ASC S12) (Acoustical Society of America)

1305 Walt Whitman Road, Suite 300, Melville, NY 11747 | standards@acousticalsociety.org, www.acousticalsociety.org

Reaffirmation

BSR/ASA S12.18-1994 (R202x), Procedures for Outdoor Measurement of Sound Pressure Level (reaffirmation of ANSI/ASA S12.18-1994 (R2019))
This standard describes procedures for the measurement of sound pressure levels in the outdoor environment, considering the effects of the ground, the effects of refraction due to wind and temperature gradients, and the effects due to turbulence. This standard is focused on measurement of sound pressure levels produced by specific sources outdoors. The measured sound pressure levels can be used to calculate sound pressure levels at other distances from the source or to extrapolate to other environmental conditions or to assess compliance with regulation. This standard describes two methods to measure sound pressure levels outdoors.
Single copy price: $126.00
Obtain an electronic copy from: standards@acousticalsociety.org
Send comments (copy psa@ansi.org) to: Nancy Blair-DeLeon <standards@acousticalsociety.org>

ASABE (American Society of Agricultural and Biological Engineers)

2950 Niles Road, Saint Joseph, MI 49085 | walsh@asabe.org, https://www.asabe.org/

Reaffirmation

BSR/ASAE EP282.2-1993 (R202x), Design Values for Emergency Ventilation and Care of Livestock and Poultry (reaffirmation of ANSI/ASAE EP282.2-1993 (R2018))
Many natural man-made, and unexpected events (i.e. power interruptions, equipment failures, extreme weather conditions, storms, and natural disasters, occur requiring temporary emergency ventilation and care of livestock and poultry. These events may require either short-term (i.e., minutes to days) or long-term (i.e., weeks to months) temporary emergency ventilation. The purpose of this Engineering Practice is to provide data and guidelines to assist designing emergency ventilation, feeding, watering, and lighting systems for livestock and poultry.
Single copy price: $78.00
Obtain an electronic copy from: Jean Walsh <walsh@asabe.org>
Send comments (copy psa@ansi.org) to: Jean Walsh <walsh@asabe.org>

Comment Deadline: December 11, 2023

ASABE (American Society of Agricultural and Biological Engineers)

2950 Niles Road, Saint Joseph, MI 49085 | walsh@asabe.org, https://www.asabe.org/

Reaffirmation

BSR/ASAE S289.2 FEB1998 (R202x), Concrete Slip-Form Canal Linings (reaffirmation of ANSI/ASAE S289.2 FEB1998 (R2018))
This standard is to provide standards and specifications for the installation of concrete slip-form canal linings in the interest of reducing costs and assuring quality control.
Single copy price: $78.00
Obtain an electronic copy from: Jean Walsh <walsh@asabe.org>
Send comments (copy psa@ansi.org) to: Jean Walsh <walsh@asabe.org>

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

180 Technology Parkway, Peachtree Corners, GA 30092 | cking@ashrae.org, www.ashrae.org

Addenda

BSR/ASHRAE Addendum b to Standard 41.2-202x, Standard Methods for Air Velocity and Airflow Measurement (addenda to ANSI/ASHRAE Standard 41.2-2022)
The purpose of 41.2-2022 Addendum b is to correct and clarify the method for determining the inlet air density for single- and multiple-nozzle chambers.
Single copy price: $35.00
Obtain an electronic copy from: http://www.ashrae.org/standards-research--technology/public-review-drafts
Send comments (copy psa@ansi.org) to: http://www.ashrae.org/standards-research--technology/public-review-drafts

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

180 Technology Parkway, Peachtree Corners, GA 30092 | cking@ashrae.org, www.ashrae.org

Addenda

BSR/ASHRAE Standard 41.2a-202x, Standard Methods for Air Velocity and Airflow Measurement - Addendum a (addenda to ANSI/ASHRAE Standard 41.2-2022)
The purposes of 41.2-2022 Addendum a are (a) to update the test plan to include pre-test and post-test uncertainty, (b) to update the steady-state criteria sections, and (c) to add an airflow mixing section.
Single copy price: $35.00
Obtain an electronic copy from: http://www.ashrae.org/standards-research--technology/public-review-drafts
Send comments (copy psa@ansi.org) to: http://www.ashrae.org/standards-research--technology/public-review-drafts

Comment Deadline: December 11, 2023

ASME (American Society of Mechanical Engineers)

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 | ansibox@asme.org, www.asme.org

Revision

BSR/ASME BPE-202x, Bioprocessing Equipment (revision of ANSI/ASME BPE-2022)
The ASME BPE Standard provides requirements for systems and components that are subject to cleaning and sanitization and/or sterilization, including systems that are cleaned in place (CIP'd) and/or steamed in place (SIP'd) and/or other suitable processes used in the manufacturing of biopharmaceuticals. This Standard also provides requirements for single-use systems and components used in the above-listed systems and components. The ASME Bioprocessing Equipment Standard was developed to aid in the design and construction of new fluid processing equipment used in the manufacture of biopharmaceuticals, where a defined level of purity and bioburden control is required.
Single copy price: Free
Obtain an electronic copy from: https://cstools.asme.org/csconnect/PublicReviewPage.cfm
Send comments (copy psa@ansi.org) to: Paul Stumpf <stumpfp@asme.org>

AWS (American Welding Society)

8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 | bboddiger@aws.org, www.aws.org

Revision

BSR/AWS B5.1-202x, Specification for the Qualification of Welding Inspectors (revision of ANSI/AWS B5.1-2013-AMD1)
This standard defines the qualification requirements to qualify welding inspectors. The qualification requirements for visual welding inspectors include experience and satisfactory completion of an examination, which includes demonstrated capabilities and proof of visual acuity. The examination tests the inspector's knowledge of welding processes, welding procedures, nondestructive examinations, destructive tests, terms, definitions, symbols, reports, welding metallurgy, related mathematics, safety, quality assurance, and responsibilities.
Single copy price: $28.00 (Members)/$36.50 (Non-members)
Obtain an electronic copy from: bboddiger@aws.org
Send comments (copy psa@ansi.org) to: Brenda Boddiger <bboddiger@aws.org>

AWWA (American Water Works Association)

6666 W. Quincy Avenue, Denver, CO 80235 | polson@awwa.org, www.awwa.org

New Standard

BSR/AWWA D101-202x, Evaluation of Steel Water Tanks and Related Facilities (new standard)
This standard describes the evaluation of structures involved in the treatment, storage, and distribution of water.
Single copy price: Free
Obtain an electronic copy from: ETSsupport@awwa.org
Send comments (copy psa@ansi.org) to: AWWA, Paul J. Olson

Comment Deadline: December 11, 2023

BIFMA (Business and Institutional Furniture Manufacturers Association)

678 Front Avenue NW, Suite 150, Grand Rapids, MI 49504 | skooy@bifma.org, www.bifma.org

New Standard

BSR/BIFMA X10.1-202X, Ergonomics Requirements for Furniture Designed for Computer Use (new standard)
This is the third edition of BIFMA ergonomics requirements for furniture. It supersedes previous editions published as guidelines in 2013 and 2002 under the title "Ergonomics Guideline for Furniture Used In Office Work Spaces Designed for Computer Use." The present edition includes updates to reflect changes in the anthropometry of the North American working population and new technology and is now presented in the form of a standard rather than a guideline. The objective of this Standard is to apply the relevant measurable ergonomics principles in ISO 9241-5, 9241-500, 9241-302, and 9241-303 to the design requirements for furniture designed for computer use. This Standard was prepared by the BIFMA Ergonomics Subcommittee which was composed of certified professional ergonomists and non-ergonomists in the following categories: producers/manufacturers, engineering/testing, supply chain, end users and general interest (consultants, academia, and other experts).
Single copy price: $150.00
Obtain an electronic copy from: email@bifma.org
Send comments (copy psa@ansi.org) to: Steve Kooy, skooy@bifma.org

CSA (CSA America Standards Inc.)

8501 East Pleasant Valley Road, Cleveland, OH 44131-5575 | ansi.contact@csagroup.org, www.csagroup.org

Revision

BSR/CSA HGV 4.3-202x, Test methods for hydrogen fuelling parameter evaluation (revision of ANSI/CSA HGV 4.3 -2022)
This Standard specifies the minimum testing requirements for verifying the fuelling protocols specified in SAE J2601 and the communications protocols in SAE J2799. This Standard applies to dispensing systems, referred to as "dispensers" in this Standard, designed to fill vehicle storage systems in accordance with SAE J2601.
NOTE: The SAE J2601 fuelling protocols target rapid fills while respecting temperature, pressure, and fuel-density safety limits.
NOTE: This Standard is a minimum requirement. Manufacturers can take additional safety precautions
Single copy price: Free
Obtain an electronic copy from: ansi.contact@csagroup.org
Send comments (copy psa@ansi.org) to: ansi.contact@csagroup.org

ESTA (Entertainment Services and Technology Association)

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

New Standard

BSR/ES1.17-202x, Event Safety - Event Lighting & Electrical Safety (new standard)
This standard addresses the application, assessment, and documentation of safe electrical working practices during the installation, show, and dismantling of event electrical systems and equipment specifically used for special events. The event industry includes, but is not limited to, musical productions, festivals, concerts, theatre and film production, video productions, corporate events, trade shows, sporting events, broadcast production, and events related to them.
Single copy price: Free
Obtain an electronic copy from: https://tsp.esta.org/tsp/documents/public_review_docs.php
Send comments (copy psa@ansi.org) to: Karl Ruling <standards@esta.org>

Comment Deadline: December 11, 2023

ESTA (Entertainment Services and Technology Association)

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

New Standard

BSR/E1.68-202x, Recommended Practice for Evaluating DMX512 (ANSI E1.11) Interoperability (new standard)
The standard is a recommended practice for evaluating DMX512 (ANSI E1.11) interoperability, to help minimize problems in the field associated with violations of critical elements of the standard. The recommended practice will not attempt to assure 100% compliance with all requirements in the standard; it will focus on those that have been proven to make interoperability unlikely or unreliable.
Single copy price: Free
Obtain an electronic copy from: https://tsp.esta.org/tsp/documents/public_review_docs.php
Send comments (copy psa@ansi.org) to: Karl Ruling <standards@esta.org>

ESTA (Entertainment Services and Technology Association)

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

New Standard

BSR/E1.73-1-202x, Next Generation Entertainment Control Model: Uniform Device Representation, Core Document (new standard)
E1.73-1 defines essential structures and uses of the data model and structures used in an E1.73 Uniform Device Representation standards suite. The E1.73 suite provides a framework by which manufacturers of entertainment equipment can describe controllable and visualizable devices in a digital format. The framework will enable the provision of descriptive information about devices and their state, including both parameters and physical properties, and the metadata needed to describe them. A standard method will be provided to map controllable parameters to existing control endpoints. This draft is intended to be reviewed along with E1.73-2, E1.73-3, and R1.73-4. The review package will include all four drafts, with an additional link to the GitLab repository containing explanatory JSON schemas.
Single copy price: Free
Obtain an electronic copy from: https://tsp.esta.org/tsp/documents/public_review_docs.php
Send comments (copy psa@ansi.org) to: Karl Ruling <standards@esta.org>

ESTA (Entertainment Services and Technology Association)

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

New Standard

BSR/E1.73-2-202x, Core Definitions for E1.73-1 Next Generation Entertainment Control Model: Uniform Device Representation (new standard)
E1.73 provides a framework by which manufacturers of entertainment equipment can describe controllable and visualizable devices in a digital format. This part, E1.73-2,provides core definitions. The E1.73 suite will enable the provision of descriptive information about devices and their state, including both parameters and physical properties, and the metadata needed to describe them. A standard method will be provided to map controllable parameters to existing control endpoints. This draft is intended to be reviewed along with E1.73-1, E1.73-3, and R1.73-4. The review package will include all four drafts, with an additional link to the GitLab repository containing explanatory JSON schemas.
Single copy price: Free
Obtain an electronic copy from: https://tsp.esta.org/tsp/documents/public_review_docs.php
Send comments (copy psa@ansi.org) to: Karl Ruling <standards@esta.org>

Comment Deadline: December 11, 2023

ESTA (Entertainment Services and Technology Association)

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

New Standard

BSR/E1.73-3-202x, Intensity/Color Definitions for E1.73-1 Next Generation Entertainment Control Model: Uniform Device Representation (new standard)
E1.73 provides a framework by which manufacturers of entertainment equipment can describe controllable and visualizable devices in a digital format. This part, E1.73-3,provides intensity/color definitions. The E1.73 suite will enable the provision of descriptive information about devices and their state, including both parameters and physical properties, and the metadata needed to describe them. A standard method will be provided to map controllable parameters to existing control endpoints. This draft is intended to be reviewed along with E1.73-1, E1.73-2, and R1.73-4. The review package will include all four drafts, with an additional link to the GitLab repository containing explanatory JSON schemas.
Single copy price: Free
Obtain an electronic copy from: https://tsp.esta.org/tsp/documents/public_review_docs.php
Send comments (copy psa@ansi.org) to: Karl Ruling <standards@esta.org>

ESTA (Entertainment Services and Technology Association)

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

New Standard

BSR/E1.73-4-202x, Motion Definitions for E1.73-1 Next Generation Entertainment Control Model: Uniform Device Representation (new standard)
E1.73 provides a framework by which manufacturers of entertainment equipment can describe controllable and visualizable devices in a digital format. This part of the E1.73 suite, E1.73-4, defines types of motion with lighting equipment. The framework will enable the provision of descriptive information about devices and their state, including both parameters and physical properties, and the metadata needed to describe them. A standard method will be provided to map controllable parameters to existing control endpoints. This draft is intended to be reviewed along with E1.73-1, E1.73-2, and R1.73-3. The review package will include all four drafts, with an additional link to the GitLab repository containing explanatory JSON schemas.
Single copy price: Free
Obtain an electronic copy from: https://tsp.esta.org/tsp/documents/public_review_docs.php
Send comments (copy psa@ansi.org) to: Karl Ruling <standards@esta.org>

ESTA (Entertainment Services and Technology Association)

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

Reaffirmation

BSR E1.5-2009 (R202x), Theatrical Fog Made with Aqueous Solutions of Di- and Trihydric Alcohols (reaffirmation of ANSI E1.5-2009 (R2018))
This standard describes the composition of theatrical fogs or artificial mists that are not likely to be harmful to otherwise healthy performers, technicians, or audience members of normal working age. This standard is intended to be applied in theatres, arenas, and other places of entertainment or public assembly where theatrical fogs and mists are often used. It lists what is permissible in the fog or haze and how much can be there on a short-term and long-term basis.
Single copy price: Free
Obtain an electronic copy from: https://tsp.esta.org/tsp/documents/public_review_docs.php
Send comments (copy psa@ansi.org) to: Karl Ruling <standards@esta.org>

Comment Deadline: December 11, 2023

ESTA (Entertainment Services and Technology Association)

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

Reaffirmation

BSR E1.29-2009 (R202x), Product Safety Standard for Theatrical Fog Generators That Create Aerosols of Water, Aqueous Solutions of Glycol or Glycerin, or Highly Refined Alkane Mineral Oil (reaffirmation of ANSI E1.29-2009 (R2018))
This standard is a guide to assist product safety testing laboratories in evaluating fog-making equipment for design or construction defects that might create unacceptable hazards. It is based on ANSI/UL 998-2006, Humidifiers, but has modifications to deal with safety issues peculiar to fog generators. Fog generators often are evaluated as heating appliances to assure they are not a fire or shock hazard. ANSI E1.29 considers those issues, but also has safety tests for the fog generated.
Single copy price: Free
Obtain an electronic copy from: https://tsp.esta.org/tsp/documents/public_review_docs.php
Send comments (copy psa@ansi.org) to: Karl Ruling <standards@esta.org>

ESTA (Entertainment Services and Technology Association)

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

Reaffirmation

BSR E1.34-2009 (R202x), Measuring and Specifying the Slipperiness of Floors Used in Live Performance Venues (reaffirmation of ANSI E1.34-2009 (R2019))
ANSI E1.34 describes a very simple drag-sled for measuring the slipperiness of a performance floor, and two procedures to use with the sled. One uses standardized stainless steel feet on the sled to give a coefficent of friction number that can be used to describe the floor in a general way. The second procedure measures the slipperiness with a performer's shoe sole materials. This standard is intended for performance floors; it is not intended for measuring the slipperiness of normal walking surfaces, such as hallways and sidewalks.
Single copy price: Free
Obtain an electronic copy from: https://tsp.esta.org/tsp/documents/public_review_docs.php
Send comments (copy psa@ansi.org) to: standards@esta.org

ESTA (Entertainment Services and Technology Association)

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

Revision

BSR/E1.11-202x, USITT DMX512-A, Asynchronous Serial Digital Data Transmission Standard for Controlling Lighting Equipment and Accessories (revision of ANSI E1.11-2008 (R2018))
ANSI E1.11 describes a method of digital data transmission for control of lighting equipment and accessories, including dimmers, color-changers, and related equipment. It intended to provide for interoperability at communication and mechanical levels with controllers and controlled equipment made by different manufacturers. It is an update and expansion of the protocol developed by the United States Institute for Theatre Technology, Inc. and published as "DMX512/1990, Digital Data Transmission Standards for Dimmers and Controllers." This revision has been updated to accommodate changes in technology and recommended industry practice.
Single copy price: Free
Obtain an electronic copy from: https://tsp.esta.org/tsp/documents/public_review_docs.php
Send comments (copy psa@ansi.org) to: Karl Ruling <standards@esta.org>

Comment Deadline: December 11, 2023

ISA (International Society of Automation)

3252 S. Miami Blvd, Suite 102, Durham, NC 27703 | lfranke@isa.org, www.isa.org

Reaffirmation

BSR/ISA 75.08.01-2016 (R202x), Face-to-Face Dimensions for Integral Flanged Globe-Style Control Valve Bodies (Classes 125, 150, 250, 300, and 600) (reaffirmation of ANSI/ISA 75.08.01-2016)
This standard applies to integral flanged globe-style control valves, sizes 15 mm (1/2 inch) through 400 mm (16 inches), having top, top and bottom, port, or cage guiding. Pressure Classes 125 flat face, and 150, 250, 300, and 600 raised face, flanged control valves are included. The purpose of this standard is to aid users in their piping design by providing flange, face-to-face control valve dimensions, without giving special consideration of the equipment manufacturer to be used.
Single copy price: $99.00
Obtain an electronic copy from: lfranke@isa.org
Send comments (copy psa@ansi.org) to: Lynne Franke, lfranke@isa.org

ISA (International Society of Automation)

3252 S. Miami Blvd, Suite 102, Durham, NC 27703 | lfranke@isa.org, www.isa.org

Reaffirmation

BSR/ISA 75.08.02-2003 (R202x), Face-to-Face Dimensions for Flanged and Flangeless Rotary Control Valves (Classes 150, 300, and 600, and PN 10, PN 16, PN 25, PN 40, PN 63 and PN 100) (reaffirmation of ANSI/ISA 75.08.02-2003 (R2017))
This standard applies to flanged and flangeless rotary control valves using a full ball or a segment of a ball and other rotary-stem control valves, sizes (20 mm) 3/4 inch through (600 mm) 24 inches for Classes 150 through 600, and for PN 10, PN 16, PN 25, PN 40, PN 63, and PN 100. This standard is not intended to include butterfly valves. The purpose of this standard is to aid users in their piping designs for flanged and flangeless control valves by providing valve face-to-face dimensions without giving special consideration to the equipment manufacturer to be used.
Single copy price: $99.00
Obtain an electronic copy from: lfranke@isa.org
Send comments (copy psa@ansi.org) to: Lynne Franke, lfranke@isa.org

ISA (International Society of Automation)

3252 S. Miami Blvd, Suite 102, Durham, NC 27703 | lfranke@isa.org, www.isa.org

Reaffirmation

BSR/ISA 75.08.05-2016 (R202x), Face-to-Face Dimensions for Buttweld-End Globe-Style Control Valves (Class 150, 300, 600, 900, 1500, and 2500) (reaffirmation of ANSI/ISA 75.08.05-2016)
The purpose of this standard is to aid users in their piping designs by providing buttweld-end globe-style control valve dimensions, without giving special consideration to the equipment manufacturer to be used. This standard applies to buttweld-end globe-style control valves, sizes 15 mm (1/2 inch) through 450 mm (18 inches) for Classes 150 through 2500, having top, top and bottom, port, or cage guiding.
Single copy price: $99.00
Obtain an electronic copy from: lfranke@isa.org
Send comments (copy psa@ansi.org) to: Lynne Franke, lfranke@isa.org

Comment Deadline: December 11, 2023

ISA (International Society of Automation)

3252 S. Miami Blvd, Suite 102, Durham, NC 27703 | lfranke@isa.org, www.isa.org

Reaffirmation

BSR/ISA 75.08.09-2016 (R202x), Face-to-Face Dimensions for Sliding Stem Flangeless Control Valves (Classes 150, 300, and 600) (reaffirmation of ANSI/ISA 75.08.09-2016)
This standard applies to sliding stem flangeless control valves, sizes 20 mm (3/4 inch) through 600 mm (24 inches) for Classes 150, 300, and 600. The face-to-face dimensions listed apply only to control valves that will be bolted between flanges. This standard is not intended to include rotary valves, such as butterfly valves. The purpose of this standard is to aid users in their piping designs for sliding stem flangeless control valves by providing valve face-to-face dimensions without giving special consideration to the equipment manufacturer to be used.
Single copy price: $99.00
Obtain an electronic copy from: lfranke@isa.org
Send comments (copy psa@ansi.org) to: Lynne Franke, lfranke@isa.org

ITSDF (Industrial Truck Standards Development Foundation, Inc.)

1750 K Street NW, Suite 460, Washington, DC 20006 | chris.merther@itsdf.org, www.indtrk.org

Revision

BSR/ITSDF B56.11.4-202x, Hook-Type Forks and Fork Carriers for Powered Industrial Forklift Trucks (revision of ANSI/ITSDF B56.11.4-2013 (R2018))
The scope of this Standard encompasses standards relative to hook-type fork carriers and the attaching elements of fork arms and load handling attachments for forklift trucks, in relation to manufacturers rated capacities of trucks up to and including 11,000 kg (24,000 lb).
Single copy price: Free
Obtain an electronic copy from: info@itsdf.org
Send comments (copy psa@ansi.org) to: info@itsdf.org

NENA (National Emergency Number Association)

1700 Diagonal Road Suite 500, Suite 500, Alexandria, VA 22314 | crm@nena.org, www.nena.org

New Standard

BSR/NENA STA-040.2-202x, NENA Security for Next Generation 9-1-1 Standard (NG-SEC) (new standard)
The document will highlight a framework to assist 9-1-1 authorities in developing a robust cybersecurity plan and is expected to help build and strengthen cybersecurity programs by focusing on NG9-1-1 security through policy management, security and risk management and operations, data security and operations. It will identify the basic requirements, standards, procedures, or practices to provide the minimum levels of security applicable to NG9-1-1 Entities. It will also provide a basis for auditing and assessing levels of security and risk to NG9-1-1 Entities, assets or elements, and exception approval/risk acceptance process in the case of non-compliance to these guidelines.
Single copy price: Free
Obtain an electronic copy from: Download and submit comments at https://dev.nena.org/higherlogic/ws/public/document?document_id=30834&wg_id=a7040bd0-f995-4d50-a313-0a3e5f2f2841
Send comments (copy psa@ansi.org) to: Download and submit comments at https://dev.nena.org/higherlogic/ws/public/document?document_id=30834&wg_id=a7040bd0-f995-4d50-a313-0a3e5f2f2841

Comment Deadline: December 11, 2023

PDA (Parenteral Drug Association)

Bethesda Towers, 4350 East-West Highway, Suite 600, Bethesda, MD 20814 | roberts@pda.org, www.pda.org

New Standard

BSR/PDA Standard 03-202x, Standard Practice for Quality Risk Management of Aseptic Processes (new standard)
This standard provides a lifecycle approach using a holistic evaluation of contamination control systems designed to minimize and/or prevent contamination during aseptic processing and ultimately ensure the safety of the products when delivered to the patient. The standard is also applicable to aseptic processes used to manufacture sterile products, terminally sterilized products as well as low bioburden processes in the manufacture of regulated health care products. It is applicable to pharmaceutical, biological, and ATMP (Advanced Therapeutic Medicinal Products). This standard does not supersede or replace regulatory requirements, such as Current Good Manufacturing Practices (CGMPs) and/or compendial requirements that pertain to a particular national or regional jurisdiction.
Single copy price: Free
Obtain an electronic copy from: standards@pda.org
Send comments (copy psa@ansi.org) to: Same

ULSE (UL Standards & Engagement)

333 Pfingsten Road, Northbrook, IL 60062-2096 | alan.t.mcgrath@ul.org, https://ulse.org/

National Adoption

BSR/UL 60335-2-34-202X, Standard for Household and Similar Electrical Appliances - Safety - Part 2-34: Particular requirements for motor-compressors (national adoption of IEC 60335-2-34 with modifications and revision of ANSI/UL 60335-2-34-2017)
UL is proposing to adopt the 7th edition of UL 60335-2-34 which includes the 6th edition of IEC 60335-2-34 plus the North American national differences. This International Standard deals with the safety of sealed (hermetic and semi-hermetic type) motor-compressors, their protection and control systems, if any, which are intended for use in equipment for household and similar purposes.
Single copy price: Free
Obtain an electronic copy from: https://csds.ul.com/ProposalAvailable
Send comments (copy psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: https://csds.ul.com/ProposalAvailable

Comment Deadline: December 26, 2023

ULSE (UL Standards & Engagement)

12 Laboratory Drive, Research Triangle Park, NC 27709 | anna.roessing-zewe@ul.org, https://ulse.org/

Revision

BSR/UL 710-202x, Standard for Safety for Exhaust Hoods for Commercial Cooking Equipment (revision of ANSI/UL 710-2021)
1.1 These requirements cover Type I commercial kitchen exhaust hoods intended for placement over commercial cooking equipment. Exhaust hoods with & without exhaust dampers are covered by these requirements. 1.2 Exhaust hoods with and without exhaust fire actuated fire dampers are covered by these requirements. 1.3 Exhaust hoods are evaluated relative to minimum exhaust air flow required & maximum supply air flow allowed for capture & containment of cooking effluents under laboratory conditions. 1.4 Exhaust hoods may incorporate non-continuous welded joints, seams, and penetrations when evaluated by these requirements. 1.5 Exhaust hoods with fire-actuated fire exhaust dampers are intended to have the exhaust fire-actuated dampers automatically close to prevent exhaust duct gas temperatures from exceeding 375°F (191°C). 1.6 All exhaust hoods are intended for use with fire extinguishing system units. 1.7 These requirements cover exhaust hoods provided with manually or automatically operated cleaning or washing systems. These requirements do not cover the fire extinguishing aspects of such systems. 1.8 These requirements do not cover evaluation of Ultraviolet (UV) systems for use in commercial kitchen exhaust systems . The Outline for Ultraviolet Radiation Systems for Use in the Ventilation Control of Commercial Cooking Operations, UL 710C, covers these products.
Single copy price: Free
Order from: Follow the instructions in the following website to create an account for access to CSDS: https://csds.ul.com
Send comments (copy psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: https://csds.ul.com/ProposalAvailable

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:

AAMI (Association for the Advancement of Medical Instrumentation)

901 North Glebe Road, Suite 300, Arlington, VA 22203 | MWilliams@aami.org, www.aami.org

ANSI/AAMI EQ56-2013, Recommended practice for a medical equipment management program (revision of ANSI/AAMI EQ56-1999 (R2008))
Send comments (copy psa@ansi.org) to: Matthew Williams <MWilliams@aami.org>

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:

ASC X9 (Accredited Standards Committee X9, Incorporated)

275 West Street, Suite 107, Annapolis, MD 21401 | Ambria.Calloway@X9.org, www.x9.org

ANSI X9.79 - Part 4-2013, Public Key Infrastructure (PKI) - Part 4: Asymmetric Key Management (new standard)
Send comments (copy psa@ansi.org) to: Ambria Calloway <Ambria.Calloway@X9.org>

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:

ASC X9 (Accredited Standards Committee X9, Incorporated)

275 West Street, Suite 107, Annapolis, MD 21401 | Ambria.Calloway@X9.org, www.x9.org

ANSI X9.42-2003 (R2013), Public Key Cryptography for Financial Services Industry: Agreement of Symmetric Keys Using Discrete Logarithm Cryptography (reaffirmation of ANSI X9.42-2003)
Send comments (copy psa@ansi.org) to: Ambria Calloway <Ambria.Calloway@X9.org>

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:

ASCE (American Society of Civil Engineers)

1801 Alexander Bell Drive, Reston, VA 20191-4400 | loleary@asce.org, www.asce.org

ANSI/ASCE/EWRI 56-2011, Guidelines for the Physical Security of Water Utilities (new standard)
Send comments (copy psa@ansi.org) to: Lindsay O'Leary <loleary@asce.org>

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:

ASCE (American Society of Civil Engineers)

1801 Alexander Bell Drive, Reston, VA 20191-4400 | loleary@asce.org, www.asce.org

ANSI/ASCE/EWRI 57-2011, Guidelines for the Physical Security of Wastewater/Stormwater Utilities (new standard)
Send comments (copy psa@ansi.org) to: Lindsay O'Leary <loleary@asce.org>

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:

ASCE (American Society of Civil Engineers)

1801 Alexander Bell Drive, Reston, VA 20191-4400 | loleary@asce.org, www.asce.org

ANSI/ASCE/EWRI 12/13/14-2013, ASCE/EWRI 12-05 Standard Guidelines for the Design of Urban Subsurface Drainage; ASCE/EWRI 13-05 Standard Guidelines for the Installation of Urban Subsurface Drainage; and ASCE/EWRI 14-05 Standard Guidelines for the Operation and Maintenance of Urban Subsurface Drainage with material developed within the past five years. (new standard)
Send comments (copy psa@ansi.org) to: Lindsay O'Leary <loleary@asce.org>

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:

ASTM (ASTM International)

100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 | accreditation@astm.org, www.astm.org

ANSI/AIHA Z88.7-2010, Color Coding of Air-Purifying Respirator Canisters, Cartridges, and Filters (revision of ANSI Z88.7-2001)
Send comments (copy psa@ansi.org) to: Laura Klineburger <accreditation@astm.org>

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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:

ASTM (ASTM International)

100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 | accreditation@astm.org, www.astm.org

ANSI/AIHA Z88.10-2010, Respirator Fit Testing Methods (revision and redesignation of ANSI Z88.10-2001)
Send comments (copy psa@ansi.org) to: Laura Klineburger <accreditation@astm.org>

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:

DASMA (Door and Access Systems Manufacturers Association)

1300 Sumner Avenue, Cleveland, OH 44115 | dasma@dasma.com

ANSI/DASMA 207-2012, Standard for Rolling Sheet Doors (new standard)
Send comments (copy psa@ansi.org) to: Christopher Johnson <dasma@dasma.com>

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:

DASMA (Door and Access Systems Manufacturers Association)

1300 Sumner Avenue, Cleveland, OH 44115 | dasma@dasma.com

ANSI/DASMA 102-2011, Specifications for Sectional Doors (revision of ANSI/DASMA 102-2004)
Send comments (copy psa@ansi.org) to: Christopher Johnson <dasma@dasma.com>

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:

DASMA (Door and Access Systems Manufacturers Association)

1300 Sumner Avenue, Cleveland, OH 44115 | dasma@dasma.com

ANSI/DASMA 107-2012, Room Fire Test Standard for Garage Doors Using Foam Plastic Insulation (revision of ANSI/DASMA 107-1997 (R2004))
Send comments (copy psa@ansi.org) to: Christopher Johnson <dasma@dasma.com>

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:

DASMA (Door and Access Systems Manufacturers Association)

1300 Sumner Avenue, Cleveland, OH 44115 | dasma@dasma.com

ANSI/DASMA 116-2011, Standard for Section Interfaces on Residential Garage Door Systems (revision of ANSI/DASMA 116-2007)
Send comments (copy psa@ansi.org) to: Christopher Johnson <dasma@dasma.com>

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:

HPS (ASC N13) (Health Physics Society)

950 Herndon Parkway, Suite 450, Herndon, VA 20170 | awride-graney@burkinc.com, www.hps.org

ANSI N13.39-2001 (R2011), Design of Internal Dosimetry Programs (reaffirmation of ANSI N13.39-2001)
Send comments (copy psa@ansi.org) to: Amy Wride-Graney <awride-graney@burkinc.com>

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:

HPS (ASC N13) (Health Physics Society)

950 Herndon Parkway, Suite 450, Herndon, VA 20170 | awride-graney@burkinc.com, www.hps.org

ANSI N13.49-2001 (R2011), Performance and Documentation of Radiological Surveys (reaffirmation of ANSI N13.49-2001)
Send comments (copy psa@ansi.org) to: Amy Wride-Graney <awride-graney@burkinc.com>

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HPS (ASC N13) (Health Physics Society)

950 Herndon Parkway, Suite 450, Herndon, VA 20170 | awride-graney@burkinc.com, www.hps.org

ANSI N13.12-2013, Surface and Volume Radioactivity Standards for Clearance (revision of ANSI N13.12-1999 (R2010))
Send comments (copy psa@ansi.org) to: Amy Wride-Graney <awride-graney@burkinc.com>

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:

HPS (ASC N43) (Health Physics Society)

950 Herndon Parkway, Suite 450, Herndon, VA 20170 | awride-graney@burkinc.com, www.hps.org

ANSI N43.5-2013, Radiological Safety Standard for the Design of Radiographic and Radioscopic Non-Medical X-Ray Equipment Below 1 MeV (new standard)
Send comments (copy psa@ansi.org) to: Amy Wride-Graney <awride-graney@burkinc.com>

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:

HPS (ASC N43) (Health Physics Society)

950 Herndon Parkway, Suite 450, Herndon, VA 20170 | awride-graney@burkinc.com, www.hps.org

ANSI N43.6-2007 (R2013), Sealed Radioactive Sources - Classification (reaffirmation of ANSI N43.6-2007)
Send comments (copy psa@ansi.org) to: Amy Wride-Graney <awride-graney@burkinc.com>

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HPS (ASC N43) (Health Physics Society)

950 Herndon Parkway, Suite 450, Herndon, VA 20170 | awride-graney@burkinc.com, www.hps.org

ANSI N43.8-2008 (R2013), Classification of Industrial Ionizing Radiation Gauging Devices (reaffirmation of ANSI N43.8-2008)
Send comments (copy psa@ansi.org) to: Amy Wride-Graney <awride-graney@burkinc.com>

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:

IEEE (Institute of Electrical and Electronics Engineers)

445 Hoes Lane, Piscataway, NJ 08854-4141 | s.merten@ieee.org, www.ieee.org

ANSI/IEEE 802.22-2011, Standard for Wireless Regional Area Networks - Part 22: Cognitive Wireless RAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications: Policies and Procedures for Operation in the TV Bands (new standard)
Send comments (copy psa@ansi.org) to: Lisa Weisser <l.weisser@ieee.org>

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IEEE (Institute of Electrical and Electronics Engineers)

445 Hoes Lane, Piscataway, NJ 08854-4141 | s.merten@ieee.org, www.ieee.org

ANSI/IEEE 1682-2011, Trial-Use Standard for Qualifying Fiber Optic Cables, Connections and Optical Fiber Splices for Use in (new standard)
Send comments (copy psa@ansi.org) to: Suzanne Merten <s.merten@ieee.org>

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:

IEEE (Institute of Electrical and Electronics Engineers)

445 Hoes Lane, Piscataway, NJ 08854-4141 | s.merten@ieee.org, www.ieee.org

ANSI/IEEE 1692-2011, Guide for the Protection of Communication Installations from Lightning Effects (new standard)
Send comments (copy psa@ansi.org) to: Suzanne Merten <s.merten@ieee.org>

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IEEE (Institute of Electrical and Electronics Engineers)

445 Hoes Lane, Piscataway, NJ 08854-4141 | s.merten@ieee.org, www.ieee.org

ANSI/IEEE 1724-2011, Guide for the Preparation of a Transmission Line Design Criteria Document (new standard)
Send comments (copy psa@ansi.org) to: Suzanne Merten <s.merten@ieee.org>

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IEEE (Institute of Electrical and Electronics Engineers)

445 Hoes Lane, Piscataway, NJ 08854-4141 | s.merten@ieee.org, www.ieee.org

ANSI/IEEE 1786-2011, Human Factors Guide for Applications of Computerized Operating Procedure Systems at Nuclear Power Generating Stations and other Nuclear Facilities (new standard)
Send comments (copy psa@ansi.org) to: Suzanne Merten <s.merten@ieee.org>

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:

IEEE (Institute of Electrical and Electronics Engineers)

445 Hoes Lane, Piscataway, NJ 08854 | k.evangelista@ieee.org, www.ieee.org

ANSI/IEEE C37.90-2011, Relays and Relay Systems Associated with Electric Power Apparatus (new standard)
Send comments (copy psa@ansi.org) to: Karen Evangelista <k.evangelista@ieee.org>

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:

IEEE (Institute of Electrical and Electronics Engineers)

445 Hoes Lane, Piscataway, NJ 08854-4141 | s.merten@ieee.org, www.ieee.org

ANSI/IEEE C37.122.3-2011, Guide for Sulphur Hexafluoride (SF6) Gas Handling for High Voltage (over 1000 Vac) Equipment (new standard)
Send comments (copy psa@ansi.org) to: Lisa Weisser <l.weisser@ieee.org>

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:

IEEE (Institute of Electrical and Electronics Engineers)

445 Hoes Lane, Piscataway, NJ 08854 | k.evangelista@ieee.org, www.ieee.org

ANSI/IEEE C57.148-2011, Standard for Control Cabinets for Power Transformers (new standard)
Send comments (copy psa@ansi.org) to: Karen Evangelista <k.evangelista@ieee.org>

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:

IEEE (Institute of Electrical and Electronics Engineers)

445 Hoes Lane, Piscataway, NJ 08854-4141 | s.merten@ieee.org, www.ieee.org

ANSI/IEEE 649-2006 (R2011), Standard for Qualifying Class 1E Motor Control Centers for Nuclear Power Generating Stations (reaffirmation of ANSI/IEEE 649-2006)
Send comments (copy psa@ansi.org) to: Suzanne Merten <s.merten@ieee.org>

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IEEE (Institute of Electrical and Electronics Engineers)
445 Hoes Lane, Piscataway, NJ 08854-4141 | s.merten@ieee.org, www.ieee.org

ANSI/IEEE 824-2004 (R2011), IEEE Standard for Series Capacitor Banks in Power Systems (reaffirmation of ANSI/IEEE 824-2004)
Send comments (copy psa@ansi.org) to: Lisa Weisser <l.weisser@ieee.org>

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IEEE (Institute of Electrical and Electronics Engineers)
445 Hoes Lane, Piscataway, NJ 08854-4141 | s.merten@ieee.org, www.ieee.org

ANSI/IEEE 1500-2005 (R2011), IEEE Standard Testability Method for Embedded Core-Based Integrated Circuits (reaffirmation of ANSI/IEEE 1500-2005)
Send comments (copy psa@ansi.org) to: Suzanne Merten <s.merten@ieee.org>

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IEEE (Institute of Electrical and Electronics Engineers)
445 Hoes Lane, Piscataway, NJ 08854-4141 | s.merten@ieee.org, www.ieee.org

ANSI/IEEE C37.012-2005 (R2011), IEEE Application Guide for Capacitance Current Switching for AC High-Voltage Circuit Breakers (reaffirmation of ANSI/IEEE C37.012-2005)
Send comments (copy psa@ansi.org) to: Lisa Weisser <l.weisser@ieee.org>

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:

IEEE (Institute of Electrical and Electronics Engineers)
445 Hoes Lane, Piscataway, NJ 08854 | k.evangelista@ieee.org, www.ieee.org

ANSI/IEEE C37.92-2005 (R2011), Analog Inputs to Protective Relays from Electronic Voltage and Current Transducers (reaffirmation of ANSI/IEEE C37.92-2005)
Send comments (copy psa@ansi.org) to: Karen Evangelista <k.evangelista@ieee.org>

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:

IEEE (Institute of Electrical and Electronics Engineers)
445 Hoes Lane, Piscataway, NJ 08854 | k.evangelista@ieee.org, www.ieee.org

ANSI/IEEE C57.146-2005 (R2011), Guide for the Interpretation of Gases Generated in Silicone-Immersed Transformers (reaffirmation of ANSI/IEEE C57.146-2005)
Send comments (copy psa@ansi.org) to: Karen Evangelista <k.evangelista@ieee.org>

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IEEE (Institute of Electrical and Electronics Engineers)
445 Hoes Lane, Piscataway, NJ 08854-4141 | s.merten@ieee.org, www.ieee.org

ANSI/IEEE 515-2011, Standard for the Testing, Design, Installation, and Maintenance of Electrical Resistance Trace Heating for Industrial Applications (revision of ANSI/IEEE 515-2004)
Send comments (copy psa@ansi.org) to: Suzanne Merten <s.merten@ieee.org>

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:

IEEE (Institute of Electrical and Electronics Engineers)
445 Hoes Lane, Piscataway, NJ 08854-4141 | s.merten@ieee.org, www.ieee.org

ANSI/IEEE 1250-2011, Guide for Identifying and Improving Voltage Quality in Power Systems (revision of ANSI/IEEE 1250-2002)
Send comments (copy psa@ansi.org) to: Suzanne Merten <s.merten@ieee.org>

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:

IEEE (Institute of Electrical and Electronics Engineers)
445 Hoes Lane, Piscataway, NJ 08854-4141 | s.merten@ieee.org, www.ieee.org

ANSI/IEEE 1349-2011, Guide for the Application of Electric Motors in Class I, Division 2 and Class I, Zone 2 Hazardous (Classified) Locations (revision of ANSI/IEEE 1349-2001)
Send comments (copy psa@ansi.org) to: Suzanne Merten <s.merten@ieee.org>

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:

IEEE (Institute of Electrical and Electronics Engineers)
445 Hoes Lane, Piscataway, NJ 08854-4141 | s.merten@ieee.org, www.ieee.org

ANSI/IEEE C37.10-2011, Guide for Investigation, Analysis and Reporting of Power Circuit Breaker Failures (revision of ANSI/IEEE C37.10-1996 (R2008))
Send comments (copy psa@ansi.org) to: Lisa Weisser <l.weisser@ieee.org>

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:

IEEE (Institute of Electrical and Electronics Engineers)
445 Hoes Lane, Piscataway, NJ 08854-4141 | l.weisser@ieee.org, www.ieee.org

ANSI/IEEE C37.011-2011, Guide for the Application of Transient Recovery Voltage for AC High-Voltage Circuit Breakers (revision of ANSI/IEEE C37.011-2005)
Send comments (copy psa@ansi.org) to: Lisa Weisser <l.weisser@ieee.org>

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IEEE (Institute of Electrical and Electronics Engineers)

445 Hoes Lane, Piscataway, NJ 08854 | k.evangelista@ieee.org, www.ieee.org

ANSI/IEEE C37.232-2011, Standard for Common Format for Naming Time Sequence Data Files (COMNAME) (revision of ANSI/IEEE C37.232-2007)
Send comments (copy psa@ansi.org) to: Karen Evangelista <k.evangelista@ieee.org>

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:

IEEE (Institute of Electrical and Electronics Engineers)

445 Hoes Lane, Piscataway, NJ 08854-4141 | s.merten@ieee.org, www.ieee.org

ANSI/IEEE C57.12.20-2011, Standard for Overhead Type Distribution Transformers, 500 kVA and Smaller: High Voltage, 34 500 Volts and Below; Low Voltage, 7970/13 800Y Volts and Below (revision of ANSI/IEEE C57.12.20 -2005)
Send comments (copy psa@ansi.org) to: Lisa Weisser <l.weisser@ieee.org>

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IEEE (Institute of Electrical and Electronics Engineers)

445 Hoes Lane, Piscataway, NJ 08854 | k.evangelista@ieee.org, www.ieee.org

ANSI/IEEE C57.135-2012, Guide for the Application, Specification and Testing of Phase Shifting Transformers (revision of ANSI/IEEE C57.135-2001)
Send comments (copy psa@ansi.org) to: Karen Evangelista <k.evangelista@ieee.org>

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:

LEO (Leonardo Academy Inc.)

8401 Excelsior Drive, Madison, WI 53717 | michaelarny@leonardoacademy.org, www.leonardoacademy.org

ANSI/LEO 8000-2011, Standard for Sustainable Electronic Gaming Machines (new standard)
Send comments (copy psa@ansi.org) to: Michael Arny <michaelarny@leonardoacademy.org>

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:

NECA (National Electrical Contractors Association)

1201 Pennsylvania Avenue, Suite 1200, Washington, DC 20004 | mj@necanet.org, www.neca-neis.org

ANSI/NECA 412-2012, Standard for Installing and Maintaining Photovoltaic Power Systems (new standard)
Send comments (copy psa@ansi.org) to: Michael Johnston <mj@necanet.org>

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:

NECA (National Electrical Contractors Association)
1201 Pennsylvania Avenue, Suite 1200, Washington, DC 20004 | mj@necanet.org, www.neca-neis.org

ANSI/NECA 701-2013, Standard for Energy Management, Demand Response and Energy Solutions (new standard)
Send comments (copy psa@ansi.org) to: Michael Johnston <mj@necanet.org>

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:

NECA (National Electrical Contractors Association)
1201 Pennsylvania Avenue, Suite 1200, Washington, DC 20004 | mj@necanet.org, www.neca-neis.org

ANSI/NECA 100-2006 (R2013), Symbols for Electrical Construction Drawings (reaffirmation of ANSI/NECA 100 -2006)
Send comments (copy psa@ansi.org) to: Michael Johnston <mj@necanet.org>

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:

NECA (National Electrical Contractors Association)
1201 Pennsylvania Avenue, Suite 1200, Washington, DC 20004 | mj@necanet.org, www.neca-neis.org

ANSI/NECA 202-2013, Installing and Maintaining Industrial Heat Tracing Systems (revision of ANSI/NECA 202 -2001 (R2006))
Send comments (copy psa@ansi.org) to: Michael Johnston <mj@necanet.org>

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:

NECA (National Electrical Contractors Association)
1201 Pennsylvania Avenue, Suite 1200, Washington, DC 20004 | mj@necanet.org, www.neca-neis.org

ANSI/NECA 410-2013, Standard for Installing and Maintaining Liquid-Filled Transformers (revision of ANSI/NECA 410-2005)
Send comments (copy psa@ansi.org) to: Michael Johnston <mj@necanet.org>

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:

PHTA (Pool and Hot Tub Alliance)
2111 Eisenhower Avenue, Suite 500, Alexandria, VA 22314 | standards@phta.org, www.PHTA.org

ANSI/APSP 4 Addenda-2013, Standard for Aboveground/Onground Residential Swimming Pools (addenda to ANSI/APSP 4-2012)
Send comments (copy psa@ansi.org) to: Genevieve Lynn <standards@phta.org>

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:

SCTE (Society of Cable Telecommunications Engineers)

140 Philips Road, Exton, PA 19341-1318 | dstoneback@scte.org, www.scte.org

ANSI/SCTE 74-2011, Specification for Braided 75 Ohm Flexible RF Coaxial Drop Cable (revision of ANSI/SCTE 74 -2003)
Send comments (copy psa@ansi.org) to: Dean Stoneback <dstoneback@scte.org>

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:

SCTE (Society of Cable Telecommunications Engineers)

140 Philips Road, Exton, PA 19341-1318 | dstoneback@scte.org, www.scte.org

ANSI/SCTE 75-2012, Test Point Accuracy (revision of ANSI/SCTE 75-2002 (R2007))
Send comments (copy psa@ansi.org) to: Dean Stoneback <dstoneback@scte.org>

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:

SCTE (Society of Cable Telecommunications Engineers)

140 Philips Road, Exton, PA 19341-1318 | dstoneback@scte.org, www.scte.org

ANSI/SCTE 150-2013, Preparing a Line Extender Specification (revision of ANSI/SCTE 150-2008)
Send comments (copy psa@ansi.org) to: Dean Stoneback <dstoneback@scte.org>

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:

SMACNA (Sheet Metal and Air-Conditioning Contractors' National Association)

4201 Lafayette Center Drive, Chantilly, VA 20151-1219 | crathinam@smacna.org, www.smacna.org

ANSI/SMACNA 005-2013, Round Industrial Duct Construction Standards (revision of ANSI/SMACNA 005-2003)
Send comments (copy psa@ansi.org) to: Cintamani Rathinam <crathinam@smacna.org>

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:

TAPPI (Technical Association of the Pulp and Paper Industry)

15 Technology Parkway, Suite 115, Peachtree Corners, GA 30092 | standards@tappi.org, www.tappi.org

ANSI/TAPPI T 692 om-2013, Determination of suspended solids in kraft green and white liquors (new standard)
Send comments (copy psa@ansi.org) to: Brittaney Lovett <standards@tappi.org>

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:

TOY-TIA (Toy Industry Association)

1115 Broadway, Suite 400, New York, NY 10010 | jlawrence@toyassociation.org, www.toyassociation.org

ANSI Z315.1-2012, Safety Requirements for Tricycles (revision of ANSI Z315.1-2006)
Send comments (copy psa@ansi.org) to: Joan Lawrence <jlawrence@toyassociation.org>

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:

UAMA (ASC B74) (Unified Abrasives Manufacturers' Association)

30200 Detroit Road, Cleveland, OH 44145-1967 | djh@wherryassoc.com, www.uama.org

ANSI B74.15-1992 (R2013), Methods of Chemical Analysis of Silicon Carbide Abrasive Grain and Abrasive Crude (reaffirmation of ANSI B74.15-1992 (R2007))
Send comments (copy psa@ansi.org) to: Donna Haders <djh@wherryassoc.com>

Withdrawal of an ANS by ANSI-Accredited Standards Developer

In accordance with clause 4.2.1.3.2 Withdrawal by ANSI-Accredited Standards Developer of the ANSI Essential Requirements, the following American National Standards have been withdrawn as an ANS.

HL7 (Health Level Seven)

3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI 48104 | Karenvan@HL7.org, www.hl7.org

ANSI/HL7 EHR-S MUFP, R1-2018, Functional Profile: Meaningful Use 2015, Release 1 - US Realm (new standard)
Send comments (copy psa@ansi.org) to: Questions may be directed to: Karen Van Hentenryck <Karenvan@HL7.org>

Final Actions on American National Standards

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

ADA (American Dental Association)

211 East Chicago Avenue, Chicago, IL 60611-2678 | bralowerp@ada.org, www.ada.org

ANSI/ADA Standard No. 141 (ISO 14356) 2013 (R2023), Dentistry - Dental Duplicating Material (reaffirmation of ANSI/ADA Standard No. 141 (ISO 14356)-2013 (R2018)) Final Action Date: 10/19/2023 | *Reaffirmation*

AHRI (Air-Conditioning, Heating, and Refrigeration Institute)

2311 Wilson Boulevard, Suite 400, Arlington, VA 22201-3001 | kbest@ahrinet.org, www.ahrinet.org

ANSI/AHRI Standard 810-2023 (SI/I-P), Performance Rating of Automatic Commercial Ice-Makers (new standard) Final Action Date: 10/19/2023 | *New Standard*

ASME (American Society of Mechanical Engineers)

Two Park Avenue, 6th Floor, New York, NY 10016-5990 | ansibox@asme.org, www.asme.org

ANSI/ASME A18.1-2023, Safety Standard for Platform Lifts and Stairway Chairlifts (revision of ANSI/ASME A18.1-2020) Final Action Date: 10/18/2023 | *Revision*

ANSI/ASME B30.30-2023, Ropes (revision of ANSI/ASME B30.30-2019) Final Action Date: 10/18/2023 | *Revision*

ASTM (ASTM International)

100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 | accreditation@astm.org, www.astm.org

ANSI/ASTM D2464-2023, Specification for Threaded Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80 (revision of ANSI/ASTM D2464-2015) Final Action Date: 9/26/2023 | *Revision*

IES (Illuminating Engineering Society)

120 Wall Street, Floor 17, New York, NY 10005-4001 | pmcgillicuddy@ies.org, www.ies.org

ANSI/IES RP-47-2023, Recommended Practice: Landscape Lighting (new standard) Final Action Date: 10/19/2023 | *New Standard*

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

700 K Street NW, Suite 600, Washington, DC 20001 | comments@standards.incits.org, www.incits.org

INCITS 541-2023, Information technology - Automation/Drive Interface Commands - 4 (ADC-4) (new standard) Final Action Date: 10/19/2023 | *New Standard*

NEMA (National Electrical Manufacturers Association)

1300 North 17th Street, Rosslyn, VA 22209 | Khaled.Masri@nema.org, www.nema.org

ANSI/NEMA IM 60003-2023, Electrical Insulating Varnish (new standard) Final Action Date: 10/20/2023 | *New Standard*

NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105 | mmilla@nsf.org, www.nsf.org

ANSI/NSF 42-2023 (i124r3), Drinking Water Treatment Units - Aesthetic Effects (revision of ANSI/NSF 42-2022) Final Action Date: 10/17/2023 | *Revision*

ANSI/NSF 53-2023 (i149r3), Drinking Water Treatment Units - Health Affects (revision of ANSI/NSF 53-2022) Final Action Date: 10/17/2023 | *Revision*

NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105 | mmilla@nsf.org, www.nsf.org

ANSI/NSF 401-2023 (i30r3), Drinking Water Treatment Units - Emerging Compounds / Incidental Contaminants (revision of ANSI/NSF 401-2022) Final Action Date: 10/17/2023 | *Revision*

TVC (ASC Z80) (The Vision Council)

225 Reinekers Lane, Suite 700, Alexandria, VA 22314 | ascz80@thevisioncouncil.org, www.z80asc.com

ANSI Z80.17-2013 (R2023), Ophthalmics - Focimeters (reaffirmation of ANSI Z80.17-2013 (R2018)) Final Action Date: 10/19/2023 | *Reaffirmation*

ANSI Z80.23-2018 (R2023), Ophthalmics - Corneal Topography and Tomography Systems - Standard Terminology, Requirements (reaffirmation of ANSI Z80.23-2018) Final Action Date: 10/19/2023 | *Reaffirmation*

ULSE (UL Standards & Engagement)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | Annabelle.Hollen@ul.org, https://ulse.org/

ANSI/UL 2360-2004 (R2023), Standard for Test Methods for Determining the Combustibility Characteristics of Plastics Used in Semi-Conductor Tool Construction (reaffirmation of ANSI/UL 2360-2004 (R2017)) Final Action Date: 10/19/2023 | *Reaffirmation*

ANSI/UL 213-2023, Standard for Rubber Gasketed Fittings for Fire-Protection Service (revision of ANSI/UL 213-2022) Final Action Date: 10/17/2023 | *Revision*

ANSI/UL 752-2023, Standard for Bullet-Resisting Equipment (revision of ANSI/UL 752-2006 (R2021)) Final Action Date: 10/17/2023 | *Revision*

ANSI/UL 827-2023a, Standard for Central-Station Alarm Services (revision of ANSI/UL 827-2023) Final Action Date: 10/19/2023 | *Revision*

ANSI/UL 1180-2023, Standard for Fully Inflatable Recreational Personal Flotation Devices (revision of ANSI/UL 1180 -2021) Final Action Date: 10/16/2023 | *Revision*

ANSI/UL 2368-2023, Standard for Fire Exposure Testing of Rigid Nonmetallic and Composite Nonmetallic Intermediate Bulk Containers for Combustible Liquids (revision of ANSI/UL 2368-2014 (R2018)) Final Action Date: 10/23/2023 | *Revision*

Call for Members (ANS Consensus Bodies)

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

ANSI Accredited Standards Developer

INCITS Executive Board – ANSI Accredited SDO and US TAG to ISO/IEC JTC 1, Information Technology

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

The INCITS Executive Board serves as the consensus body with oversight of its 40+ Technical Committees. Additionally, the INCITS Executive Board has the international leadership role as the US Technical Advisory Group (TAG) to ISO/IEC JTC 1, Information Technology.

Membership in the INCITS Executive Board is open to all directly and materially interested parties in accordance with INCITS membership rules. To find out more about participating on the INCITS Executive Board, contact Jennifer Garner at jgarner@itic.org or visit http://www.incits.org/participation/membership-info for more information.
Membership in all interest categories is always welcome; however, the INCITS Executive Board seeks to broaden its membership base in the following underrepresented categories:

- Producer-Software
- Producer-Hardware
- Distributor
- Service Provider
- Users
- Consultants
- Government
- SDO and Consortia Groups
- Academia
- General Interest

ANSI Accredited Standards Developer

SCTE (Society of Cable Telecommunications Engineers)

SCTE, an ANSI-accredited SDO, is the primary organization for the creation and maintenance of standards for the cable telecommunications industry. SCTE's standards mission is to develop standards that meet the needs of cable system operators, content providers, network and customer premises equipment manufacturers, and all others who have an interest in the industry through a fair, balanced and transparent process.
SCTE is currently seeking to broaden the membership base of its ANS consensus bodies and is interested in new members in all membership categories to participate in new work in fiber-optic networks, advanced advertising, 3D television, and other important topics. Of particular interest is membership from the content (program and advertising) provider and user communities.
Membership in the SCTE Standards Program is open to all directly and materially affected parties as defined in SCTE's membership rules and operating procedures.
More information is available at www.scte.org or by e-mail from standards@scte.org.

AAMI (Association for the Advancement of Medical Instrumentation)

901 N. Glebe Road, Arlington, VA 22203 | mmiskell@aami.org, www.aami.org

BSR/AAMI/ISO 13408-1-202x, Aseptic processing of health care products - Part 1: General requirements (identical national adoption of ISO 13408-1:2023, Edition 3 and revision of ANSI/AAMI/ISO 13408-1-2008 (R2011))

AGMA (American Gear Manufacturers Association)

1001 N. Fairfax Street, Suite 500, Alexandria, VA 22314 | olson@agma.org, www.agma.org

BSR/AGMA 2101-EXX-202x, Fundamental Rating Factors and Calculation Methods for Involute Spur and Helical Gear Teeth (revision of ANSI/AGMA 2101-D04 (R2016))

ASA (ASC S1) (Acoustical Society of America)

1305 Walt Whitman Road, Suite 300, Melville, NY 11747 | standards@acousticalsociety.org, www.acousticalsociety.org

BSR S1.18-202x, Method for Determining the Acoustic Impedance of Ground Surfaces (revision of ANSI/ASA S1.18 -2018 (R2023))

ASA (ASC S12) (Acoustical Society of America)

1305 Walt Whitman Road, Suite 300, Melville, NY 11747 | standards@acousticalsociety.org, www.acousticalsociety.org

BSR S12.14-202x, Methods for the Field Measurement of the Sound Output of Audible Public Warning Devices Installed at Fixed Locations Outdoors (revision of ANSI/ASA S12.14-1992 (R2020))

ASA (ASC S12) (Acoustical Society of America)

1305 Walt Whitman Road, Suite 300, Melville, NY 11747 | standards@acousticalsociety.org, www.acousticalsociety.org

BSR/ASA S12.18-1994 (R202x), Procedures for Outdoor Measurement of Sound Pressure Level (reaffirmation of ANSI/ASA S12.18-1994 (R2019))

ASABE (American Society of Agricultural and Biological Engineers)

2590 Niles Road, Saint Joseph, MI 49085 | stell@asabe.org, https://www.asabe.org/

BSR/ASABE/ISO 27850-202x MONYEAR, Tractors for agriculture and forestry - Falling object protective structures - Test procedures and performance requirements (revision and redesignation of ANSI/ASABE/ISO 27850-2013 MAY2016 (R2020))

ASABE (American Society of Agricultural and Biological Engineers)

2950 Niles Road, Saint Joseph, MI 49085 | walsh@asabe.org, https://www.asabe.org/

BSR/ASAE EP282.2-1993 (R202x), Design Values for Emergency Ventilation and Care of Livestock and Poultry (reaffirmation of ANSI/ASAE EP282.2-1993 (R2018))

ASABE (American Society of Agricultural and Biological Engineers)

2950 Niles Road, Saint Joseph, MI 49085 | walsh@asabe.org, https://www.asabe.org/

BSR/ASAE S289.2 FEB1998 (R202x), Concrete Slip-Form Canal Linings (reaffirmation of ANSI/ASAE S289.2 FEB1998 (R2018))

AWS (American Welding Society)

8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 | bboddiger@aws.org, www.aws.org

BSR/AWS B5.1-202x, Specification for the Qualification of Welding Inspectors (revision of ANSI/AWS B5.1-2013-AMD1)

AWS (American Welding Society)

8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 | mdiaz@aws.org, www.aws.org

BSR/AWS D8.11M-202x, Specification for Automotive Weld Quality - Laser Beam Welding of Aluminum (new standard)

ECIA (Electronic Components Industry Association)

13873 Park Center Road, Suite 315, Herndon, VA 20171 | ldonohoe@ecianow.org, www.ecianow.org

BSR/EIA 977-202x, Test Method - Electronic Passive Components - Exposure to Atmospheric Sulfur (revision and redesignation of ANSI/EIA 977-2017 (R2021))

ESTA (Entertainment Services and Technology Association)

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

BSR E1.34-2009 (R202x), Measuring and Specifying the Slipperiness of Floors Used in Live Performance Venues (reaffirmation of ANSI E1.34-2009 (R2019))
Interest Categories: The Floors Working Group seeks new members in the Custom Market Producer, Designer, and Dealer or Rental Company interest categories. Interested parties should contact standards@esta.org for details.

ISA (International Society of Automation)

3252 S. Miami Blvd, Suite 102, Durham, NC 27703 | lfranke@isa.org, www.isa.org

BSR/ISA 75.08.01-2016 (R202x), Face-to-Face Dimensions for Integral Flanged Globe-Style Control Valve Bodies (Classes 125, 150, 250, 300, and 600) (reaffirmation of ANSI/ISA 75.08.01-2016)

ISA (International Society of Automation)

3252 S. Miami Blvd, Suite 102, Durham, NC 27703 | lfranke@isa.org, www.isa.org

BSR/ISA 75.08.02-2003 (R202x), Face-to-Face Dimensions for Flanged and Flangeless Rotary Control Valves (Classes 150, 300, and 600, and PN 10, PN 16, PN 25, PN 40, PN 63 and PN 100) (reaffirmation of ANSI/ISA 75.08.02-2003 (R2017))

ISA (International Society of Automation)

3252 S. Miami Blvd, Suite 102, Durham, NC 27703 | lfranke@isa.org, www.isa.org

BSR/ISA 75.08.05-2016 (R202x), Face-to-Face Dimensions for Buttweld-End Globe-Style Control Valves (Class 150, 300, 600, 900, 1500, and 2500) (reaffirmation of ANSI/ISA 75.08.05-2016)

ISA (International Society of Automation)

3252 S. Miami Blvd, Suite 102, Durham, NC 27703 | lfranke@isa.org, www.isa.org

BSR/ISA 75.08.09-2016 (R202x), Face-to-Face Dimensions for Sliding Stem Flangeless Control Valves (Classes 150, 300, and 600) (reaffirmation of ANSI/ISA 75.08.09-2016)

NEMA (ASC C8) (National Electrical Manufacturers Association)

1300 North 17th Street, Suite 900, Arlington, VA 22209 | Khaled.Masri@nema.org, www.nema.org

BSR NEMA WC 76-202x, Standard for Controlled Impedance Shielded Twisted Pairs in Internal Electrical Cable (revision of ANSI NEMA WC76-2018)

NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | jsnider@nsf.org, www.nsf.org

BSR/NSF 14-202x (i128r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14 -2022)

NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | jsnider@nsf.org, www.nsf.org

BSR/NSF 14-202x (i129r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14 -2022)

NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105 | mmilla@nsf.org, www.nsf.org

BSR/NSF 401-202x (i33r1), Drinking Water Treatment Units - Emerging Compounds / Incidental Contaminants (revision of ANSI/NSF 401-2022)

NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | jsnider@nsf.org, www.nsf.org

BSR/NSF/CAN 50-202x (i205r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2023)

OPEI (Outdoor Power Equipment Institute)

1605 King Street, Alexandria, VA 22314 | gknott@opei.org, www.opei.org

BSR/OPEI B71.10-2018 (R202x), Standard for Off-Road Ground-Supported Outdoor Power Equipment - Gasoline Fuel Systems - Performance Specifications and Test Procedures (reaffirmation of ANSI/OPEI B71.10-2018)

American National Standards (ANS) Process

Please visit ANSI's website (www.ansi.org) for resources that will help you to understand, administer and participate in the American National Standards (ANS) process. Documents posted at these links are updated periodically as new documents and guidance are developed, whenever ANS-related procedures are revised, and routinely with respect to lists of proposed and approved ANS. The main ANS-related linkis www.ansi.org/asd and here are some direct links as well as highlights of information that is available:

Where to find Procedures, Guidance, Interpretations and More…

Please visit ANSI's website (www.ansi.org)

• ANSI Essential Requirements: Due process requirements for American National Standards (always current edition):

www.ansi.org/essentialrequirements

• ANSI Standards Action (weekly public review announcements of proposed ANS and standards developer accreditation applications, listing of recently approved ANS, and proposed revisions to ANS-related procedures):

www.ansi.org/standardsaction

• Accreditation information – for potential developers of American National Standards (ANS):

www.ansi.org/sdoaccreditation

• ANS Procedures, ExSC Interpretations and Guidance (including a slide deck on how to participate in the ANS process and the BSR-9 form):

www.ansi.org/asd

• Lists of ANSI-Accredited Standards Developers (ASDs), Proposed ANS and Approved ANS:

www.ansi.org/asd

• American National Standards Key Steps:

www.ansi.org/anskeysteps

• American National Standards Value:

www.ansi.org/ansvalue

• ANS Web Forms for ANSI-Accredited Standards Developers:

https://www.ansi.org/portal/psawebforms/

• Information about standards Incorporated by Reference (IBR):

https://ibr.ansi.org/

• ANSI - Education and Training:

www.standardslearn.org

Meeting Notices (Standards Developers)

ANSI Accredited Standards Developer

ASSP (ASC A10) - American Society of Safety Professionals - Safety Requirements for Construction and Demolition Operations

Meeting Time: Virtual on January 23, 2024

The A10 Committee for Construction and Demolition Operations will be meeting virtually on January 23, 2024. If you have interest in attending, please contact Tim Fisher at ASSP [TFisher@assp.org] for the meeting schedule and registration information.

ANSI Accredited Standards Developer

ASSP (Safety) - American Society of Safety Professionals

Meeting Time: Z10 - March 5-7, 2024

The Z10 Committee for Occupational Safety and Health Management Systems will be meeting in Houston from March 5th to the 7th, 2024. If you have interest in attending, please contact Tim Fisher at ASSP [TFisher@assp.org] for the meeting schedule and registration information.

American National Standards Under Continuous Maintenance

The ANSI Essential Requirements: Due Process Requirements for American National Standards provides two options for the maintenance of American National Standards (ANS): periodic maintenance (see clause 4.7.1) and continuous maintenance (see clause 4.7.2). Continuous maintenance is defined as follows:

The standard shall be maintained by an accredited standards developer. A documented program for periodic publication of revisions shall be established by the standards developer. Processing of these revisions shall be in accordance with these procedures. The published standard shall include a clear statement of the intent to consider requests for change and information on the submittal of such requests. Procedures shall be established for timely, documented consensus action on each request for change and no portion of the standard shall be excluded from the revision process. In the event that no revisions are issued for a period of four years, action to reaffirm or withdraw the standard shall be taken in accordance with the procedures contained in the ANSI Essential Requirements. The Executive Standards Council (ExSC) has determined that for standards maintained under the Continuous Maintenance option, separate PINS announcements are not required. The following ANSI Accredited Standards Developers have formally registered standards under the Continuous Maintenance option.

AAMI (Association for the Advancement of Medical Instrumentation)

AARST (American Association of Radon Scientists and Technologists)

AGA (American Gas Association)

AGSC (Auto Glass Safety Council)

ASC X9 (Accredited Standards Committee X9, Incorporated)

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

ASME (American Society of Mechanical Engineers)

ASTM (ASTM International)

GBI (Green Building Initiative)

HL7 (Health Level Seven)

Home Innovation (Home Innovation Research Labs)

IES (Illuminating Engineering Society)

ITI (InterNational Committee for Information Technology Standards)

MHI (Material Handling Industry)

NBBPVI (National Board of Boiler and Pressure Vessel Inspectors)

NCPDP (National Council for Prescription Drug Programs)

NEMA (National Electrical Manufacturers Association)

NFRC (National Fenestration Rating Council)

NISO (National Information Standards Organization)

NSF (NSF International)

PRCA (Professional Ropes Course Association)

RESNET (Residential Energy Services Network, Inc.)

SAE (SAE International)

TCNA (Tile Council of North America)

TIA (Telecommunications Industry Association)

TMA (The Monitoring Association)

ULSE (UL Standards & Engagement)

To obtain additional information with regard to these standards, including contact information at the ANSI Accredited Standards Developer, please visit ANSI Online at www.ansi.org/asd, select “American National Standards Maintained Under Continuous Maintenance.” Questions? psa@ansi.org.

ANSI-Accredited Standards Developers (ASD) Contacts

The addresses listed in this section are to be used in conjunction with standards listed in PINS, Call for Comment, Call for Members and Final Actions. This section is a list of developers who have submitted standards for this issue of *Standards Action* – it is not intended to be a list of all ANSI-Accredited Standards Developers. Please send all address corrections to the PSA Department at psa@ansi.org.

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ISO & IEC Draft International Standards

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

COMMENTS

Comments regarding ISO documents should be sent to ANSI's ISO Team (isot@ansi.org); comments on ISO documents must be submitted electronically in the approved ISO template and as a Word document as other formats will not be accepted.

Those regarding IEC documents should be sent to Tony Zertuche, General Secretary, USNC/IEC, at ANSI's New York offices (tzertuche@ansi.org). The final date for offering comments is listed after each draft.

ORDERING INSTRUCTIONS

ISO and IEC Drafts can be made available by contacting ANSI's Customer Service department. Please e-mail your request for an ISO or IEC Draft to Customer Service at sales@ansi.org. When making your request, please provide the date of the Standards Action issue in which the draft document you are requesting appears.

ISO Standards

Building construction machinery and equipment (TC 195)

ISO 6085:2023/DAmd 1, - Amendment 1: Building construction machinery and equipment - Self-loading mobile concrete mixers - Safety requirements and verification - Amendment 1 - 1/7/2024, $29.00

ISO/DIS 21573-1, Building construction machinery and equipment - Concrete pumps - Part 1: Terminology and commercial specifications - 1/6/2024, $82.00

Cranes (TC 96)

ISO/DIS 9374-4.2, Cranes - Information to be provided - Part 4: Jib cranes - 10/29/2023, $71.00

Industrial automation systems and integration (TC 184)

ISO/DIS 14306-1, Industrial automation systems and integration - JT file format specification for 3D visualization - Part 1: Overview and fundamental principles - 1/11/2024, $46.00

Mechanical vibration and shock (TC 108)

ISO/DIS 10326-3, Mechanical vibration - Laboratory method for evaluating vehicle seat vibration - Part 3: Specification of dynamic dummies for z-axis motion - 1/8/2024, $88.00

Optics and optical instruments (TC 172)

ISO/DIS 16971-1, Ophthalmic instruments - Optical coherence tomographs - Part 1: Optical coherence tomographs for the posterior segment of the human eye - 1/5/2024, $71.00

Paints and varnishes (TC 35)

ISO/DIS 19397, Paints and varnishes - Determination of the film thickness of coatings using an ultrasonic gauge - 1/8/2024, $71.00

Petroleum products and lubricants (TC 28)

ISO/DIS 4266-5, Petroleum and liquid petroleum products - Measurement of level and temperature in storage tanks by automatic methods - Part 5: Measurement of temperature in marine vessels - 1/8/2024, $58.00

Railway applications (TC 269)

ISO/DIS 9466, Railway Applications - Painting of passenger rail vehicles - 1/8/2024, $125.00

Road vehicles (TC 22)

ISO/DIS 23373.2, Heavy commercial vehicles and buses - Vehicle dynamics simulation and validation - Tyre model for lateral estimation of heavy vehicle combinations operated at dry paved road surface - 10/28/2023, $46.00

Ships and marine technology (TC 8)

ISO/DIS 8933-1, Ships and marine technology - Energy efficiency - Part 1: Energy efficiency of individual maritime components - 1/7/2024, $88.00

Small craft (TC 188)

ISO/DIS 10239.2, Small craft - Liquefied petroleum gas (LPG) systems - 11/2/2023, $93.00

Soil quality (TC 190)

ISO/DIS 13536, Soil quality - Determination of the potential cation exchange capacity and exchangeable cations using barium chloride solution buffered at pH = 8,1 - 1/8/2024, $53.00

Solid mineral fuels (TC 27)

ISO/DIS 20336, Coal and coke - Determination of total sulfur by Coulomb titration method - 1/11/2024, $40.00

Tractors and machinery for agriculture and forestry (TC 23)

ISO/DIS 23285, Agricultural machinery, tractors, and earth-moving machinery - Safety of electrical and electronic components and systems operating at 32 to 75 V DC and 21 to 50 V AC - 1/5/2024, $125.00

Transport information and control systems (TC 204)

ISO/DIS 13143-1, Electronic fee collection - Evaluation of on-board and roadside equipment for conformity to ISO 12813 - Part 1: Test suite structure and test purposes - 1/11/2024, $146.00

Tyres, rims and valves (TC 31)

ISO/DIS 10571, Tyres for mobile cranes and similar specialized machines - 1/6/2024, $53.00

ISO/IEC JTC 1, Information Technology

ISO/IEC DIS 9868, Information technology - Biometric identification systems involving passive capture subjects - 1/11/2024, $93.00

ISO/IEC DIS 24079, Information technology - Network Controller Sideband Interface (NC-SI) Specifications Collection - 1/7/2024, $175.00

IEC Standards

Audio, video and multimedia systems and equipment (TC 100)

100/4053A/CD, IEC 61937-16 ED1: Digital Audio - Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 - Part 16: Non-linear PCM bitstreams according to the AVSA format, 12/29/2023

Capacitors and resistors for electronic equipment (TC 40)

40/3084(F)/FDIS, IEC 60938-2-1 ED2: Fixed inductors for electromagnetic interference suppression - Part 2-1: Blank detail specification - Inductors for which safety tests are required, 11/10/2023

Fibre optics (TC 86)

86A/2370/CDV, IEC 60794-1-218 ED1: Optical fibre cables - Part 1-218: Generic specification - Basic optical cable test procedures - Environmental test methods - Mid-span temperature cycling test for exposed optical units, Method F18, 01/12/2024

86/627/CD, IEC 62496-4-3 ED1: Optical circuit boards - Part 4-3: Interface standards - Terminated waveguide OCB assembly using a single-row 32-channel PMT connector intermateable with a 250-m pitch MPO 16, 12/15/2023

Flat Panel Display Devices (TC 110)

110/1575/CD, IEC 62906-6-1 ED1: LASER DISPLAYS - Part 6-1: Visualization method of colour gamut intersection, 12/15/2023

110/1576/CD, IEC 62908-42-10 ED1: Touch and interactive displays - Part 42-10: Measurement methods of motion-tracking image-control response time for interactive projection display, 12/15/2023

110/1578/CD, IEC 63211-3-2 ED1: Durability test methods for electronic displays - Part 3-2: Mechanical tests - Static stress, 12/15/2023

110/1573/CD, IEC TR 62595-1-6 ED1: Display light unit- Part 1-6: Quantum dot films and quantum dot diffuser plates used in backlight unit, 12/15/2023

Insulation co-ordination for low-voltage equipment (TC 109)

109/222A/CD, IEC 60664-1/AMD1 ED3: Amendment 1 - Insulation coordination for equipment within low-voltage supply systems - Part 1: Principles, requirements and tests, 12/29/2023

Insulators (TC 36)

36A/239/NP, PNW 36A-239 ED1: Bushing application guide Part 1: Bushing selection and installation, 12/15/2023

Performance of household electrical appliances (TC 59)

59L/244/CDV, IEC 63399 ED1: Household and similar electrical rice cookers - Methods for measuring the performance, 01/12/2024

Power capacitors (TC 33)

33/696/FDIS, IEC 60143-4 ED2: Series capacitors for power systems - Part 4: Thyristor controlled series capacitors, 12/01/2023

Primary cells and batteries (TC 35)

35/1533/CD, IEC 60086-1 ED14: Primary batteries - Part 1: General, 01/12/2024

35/1531/CD, IEC 60086-2-1 ED1: Primary batteries - Part 2-1: Physical and electrical specifications of batteries with aqueous electrolyte, 01/12/2024

35/1532/CD, IEC 60086-2-2 ED1: Primary batteries - Part 2-2: Physical and electrical specifications of lithium batteries, 01/12/2024

Safety of hand-held motor-operated electric tools (TC 116)

116/691(F)/FDIS, IEC 62841-2-6/AMD1 ED1: Amendment 1 - Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-6: Particular requirements for hand-held hammers, 11/10/2023

116/686/CDV, IEC 63241-2-3 ED1: Electric motor-operated tools - Dust measurement procedure - Part 2-3: Particular requirements for hand-held concrete grinders and disc-type sanders, 01/12/2024

Safety of household and similar electrical appliances (TC 61)

61/7017(F)/FDIS, IEC 60335-2-103 ED4: Household and similar electrical appliances - Safety - Part 2-103: Particular requirements for drives for gates, doors and windows, 11/03/2023

61/7071/FDIS, IEC 60335-2-27 ED7: Household and similar electrical appliances - Safety - Part 2-27: Particular requirements for appliances for skin exposure to optical radiation, 12/01/2023

61/7014(F)/FDIS, IEC 60335-2-4 ED8: Household and similar electrical appliances - Safety - Part 2-4: Particular requirements for spin extractors, 11/03/2023

61/7015(F)/FDIS, IEC 60335-2-95 ED5: Household and similar electrical appliances - Safety - Part 2-95: Particular requirements for drives for vertically moving garage doors for residential use, 11/03/2023

Secondary cells and batteries (TC 21)

21A/865/CD, IEC 62133-1 ED2: Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications - Part 1: Nickel systems, 01/12/2024

21A/866/CD, IEC 62133-2 ED2: Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary lithium cells, and for batteries made from them, for use in portable applications - Part 2: Lithium systems, 01/12/2024

Superconductivity (TC 90)

90/507/CDV, IEC 61788-27 ED1: Twist pitch measurement of practical superconducting wires - Twist pitch measurement method of NbTi and Nb3Sn composite superconductors, 01/12/2024

Surface mounting technology (TC 91)

91/1913/CD, IEC 61249-2-53 ED1: Materials for printed boards and other interconnecting structures - Part 2-53: Reinforced base materials clad and unclad - PTFE unfilled laminate sheets of defined flammability (vertical burning test), copper-clad, 01/12/2024

91/1901/CDV, IEC 62878-2-603 ED1: Device embedding assembly technology - Part 2-603: Guideline for stacked electronic module - Test method of intra-module electrical connectivity, 01/12/2024

ISO/IEC JTC 1, Information Technology

(JTC1)

JTC1-SC41/378/CD, ISO/IEC 30177 ED1: Internet of Things (IoT) - Underwater network management system (U-NMS) interworking, 12/15/2023

JTC1-SC41/379/CD, ISO/IEC TR 30189-1 ED1: Internet of Things (IoT) - IoT-based management of tangible cultural heritage - Part 1: Framework, 12/15/2023

Newly Published ISO & IEC Standards

Listed here are new and revised standards recently approved and promulgated by ISO - the International Organization for Standardization – and IEC – the International Electrotechnical Commission. Most are available at the ANSI Electronic Standards Store (ESS) at www.ansi.org. All paper copies are available from Standards resellers (http://webstore.ansi.org/faq.aspx#resellers).

ISO Standards

Aircraft and space vehicles (TC 20)

ISO 5286:2023, Flight performance of civil small and light fixed-wing unmanned aircraft systems (UAS) - Test methods, $77.00

ISO 5312:2023, Civil small and light unmanned aircraft (UA) - Sharp injury to human body by rotor blades - Evaluation and test method, $77.00

ISO 5332:2023, Civil small and light unmanned aircraft systems (UAS) under low-pressure conditions - Test methods, $77.00

Anaesthetic and respiratory equipment (TC 121)

ISO 10524-1:2018/Amd 1:2023, - Amendment 1: Pressure regulators for use with medical gases - Part 1: Pressure regulators and pressure regulators with flow-metering devices - Amendment 1, $22.00

Building construction machinery and equipment (TC 195)

ISO 13105-1:2023, Building construction machinery and equipment - Machinery for concrete surface floating and finishing - Part 1: Commercial specifications, $77.00

Building environment design (TC 205)

ISO 11855-4:2021/Amd 1:2023, - Amendment 1: Building environment design - Embedded radiant heating and cooling systems - Part 4: Dimensioning and calculation of the dynamic heating and cooling capacity of Thermo Active Building Systems (TABS) - Amendment 1, $22.00

ISO 11855-5:2021/Amd 1:2023, - Amendment 1: Building environment design - Embedded radiant heating and cooling systems - Part 5: Installation - Amendment 1, $22.00

Control and safety devices for non industrial gas-fired appliances and systems (TC 161)

ISO 23551-5:2023, Safety and control devices for gas burners and gas-burning appliances - Particular requirements - Part 5: Manual gas valves, $183.00

Corrosion of metals and alloys (TC 156)

ISO 9813:2023, Corrosion of metals and alloys - Performance test method for corrosion inhibitors used in chemical cleaning of industry equipment, $77.00

Fertilizers and soil conditioners (TC 134)

ISO 6650:2023, Fertilizers, soil conditioners and beneficial substances - Simultaneous determination of N-(n-Butyl) thiophosphoric triamide and dicyandiamide by high-performance liquid chromatography, $157.00

Implants for surgery (TC 150)

ISO 9584:2023, Implants for surgery - Non-destructive testing - Radiographic examination of cast metallic surgical implants, $77.00

Materials, equipment and offshore structures for petroleum and natural gas industries (TC 67)

ISO 24202:2023, Oil and gas industries including lower carbon energy - Bulk material for offshore projects - Monorail beam and padeye, $210.00

Mining (TC 82)

ISO 24419-1:2023, Mine closure and reclamation - Managing mining legacies - Part 1: Requirements and recommendations, $116.00

Paper, board and pulps (TC 6)

ISO 24118-1:2023, Paper and board - Stylus contact method - Part 1: Determination of surface roughness, $77.00

Plastics pipes, fittings and valves for the transport of fluids (TC 138)

ISO 16486-6:2023, Plastics piping systems for the supply of gaseous fuels - Unplasticized polyamide (PA-U) piping systems with fusion jointing and mechanical jointing - Part 6: Code of practice for design, handling and installation, $210.00

Prosthetics and orthotics (TC 168)

ISO 8549-2:2023, Prosthetics and orthotics - Vocabulary - Part 2: Terms relating to external limb prostheses, $51.00

Small tools (TC 29)

ISO 12164-1:2023, Hollow taper interface with flange contact surface - Part 1: Shanks of types A, AB, C, CB and EB, $210.00

ISO 12164-2:2023, Hollow taper interface with flange contact surface - Part 2: Receivers of types A, C and E for hollow taper shanks of types A, AB, C, CB and EB, $77.00

ISO 12164-3:2023, Hollow taper interface with flange contact surface - Part 3: Shanks of types T, TA and U, $116.00

ISO 12164-4:2023, Hollow taper interface with flange contact surface - Part 4: Receivers of types T and U for hollow taper shanks of types T, TA and U, $77.00

ISO 12164-5:2023, Hollow taper interface with flange contact surface - Part 5: Shanks of types AS, CS and ES, $210.00

ISO 12164-6:2023, Hollow taper interface with flange contact surface - Part 6: Receivers of types AS, CS and ES for hollow taper shanks of types AS, CS and ES, $77.00

Steel (TC 17)

ISO 16143-4:2023, Stainless steels for general purposes - Part 4: Bright products, $210.00

Sustainable development in communities (TC 268)

ISO 37183:2023, Smart community infrastructures - Smart transportation by facial recognition payment (f-payment), $77.00

Traditional Chinese medicine (TC 249)

ISO 7450:2023, Traditional Chinese medicine - Pinellia ternata tuber, $116.00

Water quality (TC 147)

ISO 17294-2:2023, Water quality - Application of inductively coupled plasma mass spectrometry (ICP-MS) - Part 2: Determination of selected elements including uranium isotopes, $183.00

Welding and allied processes (TC 44)

ISO 9012:2023, Gas welding equipment - Air-aspirated hand blowpipes - Specifications and tests, $77.00

ISO Technical Reports

Mining (TC 82)

ISO/TR 24419-2:2023, Mine closure and reclamation - Managing mining legacies - Part 2: Case studies and bibliography, $210.00

ISO/IEC JTC 1, Information Technology

ISO/IEC 20237:2023, Information technology - Sparkplug® version 3.0, $263.00

ISO/IEC 23090-23:2023, Information technology - Coded representation of immersive media - Part 23: Conformance and reference software for MPEG immersive video, $116.00

IEC Standards

Surface mounting technology (TC 91)

IEC 63215-2 Ed. 1.0 b:2023, Endurance test methods for die attach materials - Part 2: Temperature cycling test method for die attach materials applied to discrete type power electronic devices, $190.00

IEC Technical Specifications

Electrostatics (TC 101)

IEC/TS 61340-6-2 Ed. 1.0 en:2023, Electrostatics - Part 6-2: Electrostatic control in healthcare, commercial and public facilities - Public spaces and office areas, $145.00

Accreditation Announcements (U.S. TAGs to ISO)

Approval of Accreditation – U.S. TAG to ISO

TC 338, Menstrual products

Effective October 20, 2023

ANSI's Executive Standards Council (ExSC) has formally approved the accreditation of the U.S. Technical Advisory Group to ISO **TC 338, Menstrual products** and the appointment of the American National Standards Institute as TAG Administrator, effective **October 20, 2023**. The TAG will operate under the Model Operating Procedures for U.S. Technical Advisory Groups to ANSI for ISO Activities as contained in Annex A of the ANSI International Procedures. For additional information, please contact: Kemi Allston, American National Standards Institute: 25 W 43rd Street P: (212) 642-4900 E: kallston@ansi.org

International Organization for Standardization (ISO)

Establishment of ISO Technical Committee

ISO/TC 59/SC 20 – Resilience of buildings and civil engineering works

ISO/TC 59 – Buildings and civil engineering works has created a new ISO Subcommittee on Resilience of buildings and civil engineering works (ISO/TC 292/SC 1). The Secretariat has been assigned to China (SAC).

ISO/TC 59/SC 20 operates under the following scope:

Standardization in addressing resilience in design of built environment to reduce risks induced by hazards, whether natural or man-made, and changing environment. Excluded:

— resilience of cities and communities (in ISO/TC 268 Sustainable cities and communities)

— emergency management (in ISO/TC 292 Security and resilience)

Organizations interested in serving as the U.S. TAG Administrator or participating on a U.S. TAG should contact ANSI's ISO Team (isot@ansi.org).

ISO Proposal for a New Field of ISO Technical Activity

Consumer protection – privacy by design for consumer goods and services

Comment Deadline: November 17, 2023

ISO Project Committee 317 (Consumer protection – privacy by design for consumer goods and services) has submitted a proposal to expand its work program and convert the PC into a new ISO technical committee, with the following scope statement:

Standardization of consumer protection in the field of privacy by design for products, including goods, services, and data lifecycles enabled by such products.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, November 17, 2023.

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.
When organization names are submitted to ANSI for registration, they will be listed here alphanumerically.
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

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, trade associations, U.S domiciled standards development organizations and conformity assessment bodies, consumers, or U.S. government agencies may be interested in proposed foreign technical regulations notified by Member countries of the World Trade Organization (WTO). In accordance with the WTO Agreement on Technical Barriers to Trade (TBT Agreement), Members are required to notify to the WTO Secretariat in Geneva, Switzerland proposed technical regulations that may significantly affect trade. In turn, the Secretariat circulates the notifications along with the full texts. The purpose of the notification requirement is to provide global trading partners with an opportunity to review and comment on the regulations before they become final. The USA Enquiry Point for the WTO TBT Agreement is located at the National Institute of Standards and Technology (NIST) in the Standards Coordination Office (SCO). The Enquiry Point relies on the WTO's ePing SPS&TBT platform to distribute the notified proposed foreign technical regulations (notifications) and their full texts available to U.S. stakeholders. Interested U.S. parties can register with ePing to receive e-mail alerts when notifications are added from countries and industry sectors of interest to them. The USA WTO TBT Enquiry Point is the official channel for distributing U.S. comments to the network of WTO TBT Enquiry Points around the world. U.S. business contacts interested in commenting on the notifications are asked to review the comment guidance prior to submitting comments. For non-notified foreign technical barriers to trade for non-agricultural products, stakeholders are encouraged to reach out as early as possible to the Office of Trade Agreements Negotiations and Compliance (TANC) in the International Trade Administration (ITA) at the Department of Commerce (DOC), which specializes in working with U.S. stakeholders to remove unfair foreign government-imposed trade barriers. The U.S. Department of Agriculture's Foreign Agricultural Service actively represents the interests of U.S. agriculture in the WTO committees on Agriculture, Sanitary and Phytosanitary (SPS) measures and Technical Barriers to Trade (TBT). FAS alerts exporters to expected changes in foreign regulations concerning food and beverage and nutrition labeling requirements, food packaging requirements, and various other agriculture and food related trade matters. Working with other Federal agencies and the private sector, FAS coordinates the development and finalization of comments on measures proposed by foreign governments to influence their development and minimize the impact on U.S. agriculture exports. FAS also contributes to the negotiation and enforcement of free trade agreements and provides information about tracking regulatory changes by WTO Members. The Office of the United States Trade Representative (USTR) WTO & Multilateral Affairs (WAMA) office has responsibility for trade discussions and negotiations, as well as policy coordination, on issues related technical barriers to trade and standards-related activities.

Online Resources:
WTO's ePing SPS&TBT platform: https://epingalert.org/
Register for ePing: https://epingalert.org/en/Account/Registration
WTO committee on Agriculture, Sanitary and Phytosanitary (SPS) measures:
https://www.wto.org/english/tratop_e/sps_e/sps_e.htm
WTO Committee on Technical Barriers to Trade (TBT): https://www.wto.org/english/tratop_e/tbt_e/tbt_e.htm
USA TBT Enquiry Point: https://www.nist.gov/standardsgov/usa-wto-tbt-enquiry-point
Comment guidance:
https://www.nist.gov/standardsgov/guidance-us-stakeholders-commenting-notifications-made-wto-members-tbt-committee
NIST: https://www.nist.gov/
TANC: https://www.trade.gov/office-trade-agreements-negotiation-and-compliance-tanc
Examples of TBTs: https://tcc.export.gov/report_a_barrier/trade_barrier_examples/index.asp.
Report Trade Barriers: https://tcc.export.gov/Report_a_Barrier/index.asp.
USDA FAS: https://www.fas.usda.gov/about-fas
FAS contribution to free trade agreements: https://www.fas.usda.gov/topics/trade-policy/trade-agreements
Tracking regulatory changes: https://www.fas.usda.gov/tracking-regulatory-changes-wto-members
USTR WAMA: https://ustr.gov/trade-agreements/wto-multilateral-affairs/wto-issues/technical-barriers-trade
Contact the USA TBT Enquiry Point at (301) 975-2918; E usatbtep@nist.gov or notifyus@nist.gov.

BSR/ASHRAE Addendum v
to ANSI/ASHRAE Standard 34-2022

Public Review Draft

Proposed Addendum v to Standard 34-2022, Designation and Safety Classification of Refrigerants

First Public Review (October 2023)
(Draft shows Proposed Changes to Current Standard)

This draft has been recommended for public review by the responsible project committee. To submit a comment on this proposed standard, go to the ASHRAE website at https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts and access the online comment database. 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 website) remains in effect. The current edition of any standard may be purchased from the ASHRAE Online Store at www.ashrae.org/bookstore 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, follow the instructions on the ASHRAE website at https://www.ashrae.org/technical-resources/standards-and-guidelines/standards-and-guidelines-under-continuous-maintenance.

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180 Technology Parkway NW, Peachtree Corners, GA 30092

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FOREWORD

This proposed addendum adds the zeotropic refrigerant blend R-455C to Tables 4-2 and D-2.

Note: This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~strikethrough~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the current standard 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 changes.

Addendum v to Standard 34-2022

Modify Tables 4-2 and D-2 as shown.

Table 4-2 Data and Safety Classifications for Refrigerant Blends

Refrigerant Number = 455C
Composition (Mass %) = R-744/32/1234yf (3.0/43.0/54.0)
Composition tolerances = +0.5, -1.0/±2.0/±2.0
OEL = 770 ppm v/v
Safety Group = A2L
RCL = 25,000 ppm v/v; 4.8 lb/1000 ft^3; 76 g/m^3
LFL = 100,000 ppm v/v; 19.3 lb/1000 ft^3; 305 g/m^3
BV = <4.0 cm/s
Highly Toxic or Toxic Under Code Classification = Neither

Table D-2 Data Classifications for Refrigerant Blends

Refrigerant Number = 455C
Composition (Mass %) = R-744/32/1234yf (3.0/43.0/54.0)
Average Relative Molar Mass = 73.1 g/mol
Bubble Point (°F) = –64.2
Dew Point (°F) = –50.4
Bubble Point (°C) = –53.4
Dew Point (°C) = –45.8

BSR/ASHRAE Addendum w
to ANSI/ASHRAE Standard 34-2022

Public Review Draft

Proposed Addendum w to Standard 34-2022, Designation and Safety Classification of Refrigerants

First Public Review (October 2023)
(Draft shows Proposed Changes to Current Standard)

This draft has been recommended for public review by the responsible project committee. To submit a comment on this proposed standard, go to the ASHRAE website at https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts and access the online comment database. 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 website) remains in effect. The current edition of any standard may be purchased from the ASHRAE Online Store at www.ashrae.org/bookstore or by calling 404-636-8400 or 1-800-727-4723 (for orders in the U.S. or Canada).

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FOREWORD

This proposed addendum adds the zeotropic refrigerant blend R-454D to Tables 4-2 and D-2.

Note: This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~strikethrough~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the current standard 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 changes.

Addendum w to Standard 34-2022

Modify Tables 4-2 and D-2 as shown.

Table 4-2 Data and Safety Classifications for Refrigerant Blends

Refrigerant Number = 454D
Composition (Mass %) = R-32/1234yf (43.0/57.0)
Composition tolerances = ±2.0/±2.0
OEL = 730 ppm v/v
Safety Group = A2L
RCL = 22,000 ppm v/v; 4.4 lb/1000 ft^3; 69 g/m^3
LFL = 87,500 ppm v/v; 17.4 lb/1000 ft^3; 275 g/m^3
BV = <4.0 cm/s
Highly Toxic or Toxic Under Code Classification = Neither

Table D-2 Data Classifications for Refrigerant Blends

Refrigerant Number = 454D
Composition (Mass %) = R-32/1234yf (43.0/57.0)
Average Relative Molar Mass = 75.4 g/mol
Bubble Point (°F) = –55.8
Dew Point (°F) = –48.1
Bubble Point (°C) = –48.8
Dew Point (°C) = –44.5

A117.1 draft for Supplement 1 for the 2017 ICC A117.1
6-90-2021 AM – this whole section is new text. Revisions from the public comments received are shown in legislative text. At this time, comments are limited to revisions.

SECTION 613
ADULT CHANGING STATIONS

6-90-2021 AM
613.1 General. Adult changing stations shall comply with Section 613.2 through 613.4.

6-90-2021 AM
613.2 Installation location. Where provided, adult changing stations shall be installed in accordance with the locations specified in Section 613.2.1, 613.2.2 or 613.2.3.

6-90-2021 AM
613.2.1. Single user or family or assisted use toilet or bathing room. Where adult changing stations are provided in a toilet room with only one water closet and one lavatory, or in a family or assisted-use toilet or bathing room, the room shall provide all of the following components:

1. A dispenser for soap complying with Section 308.
2. A hand towel dispenser or hand dryer complying with Table 603.6.
3. A coat hook located in close proximity to the changing surface.
4. A waste receptacle.
5. Signage indicating "Adult Changing Station" provided at the entrance to the room and complying with the visual character requirements in Section 703.2.
6. Signage indicating the weight capacity and instructions for operation of the changing station within the room.

6-90-2021 AM
613.2.2 Multi-user toilet or bathing room. Where adult changing stations are provided in a multi-user toilet or bathing room, the adult changing station shall be located in a compartment that includes all of the following components:

1. Privacy provided by walls, curtains or partitions enclosing the compartment.
2. A turning space complying with Section 304.
3. A lavatory complying with Section 606.
4. A dispenser for soap complying with Section 308.
5. A hand towel dispenser or hand dryer complying with Table 603.6.
6. A coat hook in close proximity to the changing surface.
7. A waste receptacle.
8. Signage indicating "Adult Changing Station" provided at the entrance to the room and complying with the visual character requirements in Section 703.2.
9. Signage indicating the weight capacity and instructions for operation of the changing station within the compartment.

6-90-2021 AM
613.2.3 Room or space other than a toilet room or bathing room. Where adult changing stations are provided in a room or space other than a toilet or bathing room and including, but

not limited to, nurses' work areas, therapist work areas, or special education classrooms, the adult changing station shall be located in a compartment or room that includes all of the following components:

1. Privacy provided by walls, curtains or partitions.
2. A turning space complying with Section 304.
3. A lavatory complying with Section 606 or an alcohol-based hand sanitizer dispenser.
4. Where a lavatory is provided in the compartment or room, provide a dispenser for soap.
5. Where a lavatory is provided in the compartment or room, provide a hand towel dispenser or hand dryer complying with Table 603.6.
6. A waste receptacle.
7. Signage indicating the weight capacity and instructions for operation of the changing station within the room.

6-90-2021 AM/AFMPC3

613.3 Room ~~clearance~~ configurations. An adult changing station and its supporting structure shall not obstruct required clear floor spaces and maneuvering clearances at ~~accessible elements,~~ fixtures, maneuvering clearances at the adult changing stations, maneuvering clearances at doors, or the ~~wheelchair~~ turning spaces.

6-90-2021 AM

613.4 Changing surface. A changing surface shall be provided and shall comply with Section 613.4.

6-90-2021 AM

613.4.1 Size. The changing surface shall be 70 inches (1778mm) minimum in length and 30 inches (762mm) minimum in width.

6-90-2021 AM/AFMPC2

613.4.2 Capacity. Materials, fastening mounting devices, and support structure shall support a user weight of 400 lbs. (182 kg) minimum.

6-90-2021 AM

613.4.3 Height adjustability. The changing surface height shall be adjustable at variable heights from 17 inches (432mm) minimum to 38 inches (965mm) maximum above the floor as measured to the top of the changing surface.

Exception: Where the adult changing station is not required by the administrative authority, a fixed height changing surface shall be permitted and shall be mounted with the top of the changing surface 19 inches (483mm) minimum and 23 inches (584 mm) maximum above the floor.

6-90-2021 AM/AFMPC3

613.4.4 Maneuvering Clearances. Maneuvering Clearances at the adult changing surface and complying with Sections 613.4.4.1 and 613.4.4.2 shall be provided. ~~adjacent to the changing surface, and~~ Such maneuvering clearances shall be measured ~~when~~ where the adult changing surface ~~are~~ is in the operational position.

6-90-2021 AM/AFMPC3

613.4.4.1 Side maneuvering clearance. A 36-inch (914mm) deep minimum side maneuvering clearance at the adult changing surface shall be provided along the open long side of the changing surface.

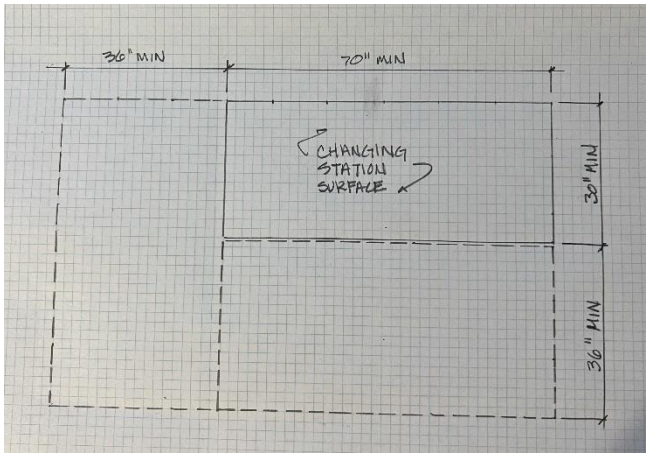
Exception: In the raised position, the side rail shall be permitted to overlap the side clearance.

6-90-2021 AM/AFMPC3

613.4.4.2 End maneuvering clearance. A 36-inch (914mm) wide minimum end maneuvering clearance at the adult changing surface shall be provided along the depth of one end of the changing surface. The width of the end maneuvering clearance shall extend the depth of the changing surface and the side maneuvering clearance.

Exceptions:

1. A 24-inch (610 mm) wide minimum end maneuvering clearance shall be permitted where a clear floor space complying with Section 305.3 is provided within the room beyond the maneuvering clearances for the changing surface.
2. Where installed in locations specified in Section 613.2.3, end maneuvering clearances complying with Section 613.4.4.2 is not required.



6-90-2021 AM

Figure 613.4

Size and maneuvering clearances at the adult Changing surface ~~and clearances~~

ICC 500 Revisions to Public Review Draft 1 – Oct. 11, 2023

IS-STM 01-01-23 AM; IS-STM 01-02-23 AS/AFM BC1
104.1 Dedicated storm shelters. Where a ~~facility~~ structure is designed to be occupied solely as a *storm shelter*, the designated occupancy shall be Group A-3 as defined by the *International Building Code*® for purposes of determination of applicable requirements that are not included in this standard.
Exceptions:
1. Where the ~~facility~~ storm shelter has a *design occupant capacity* of less than 50 persons the designated occupancy shall be in accordance with Section 303 of the *International Building Code.*
2. Where the ~~facility~~ storm shelter is a *residential storm shelter,* the designated occupancy shall be the Group R occupancy served as defined by the *International Building Code* or the ~~facility~~ structure shall comply with the *International Residential Code*®, as applicable.

IS-STM 03-02-23 AM/AFM BC2
106.2 Design Information. The following information applicable to the design, construction, and operation of the storm shelter shall be documented or explicitly referenced on a single sheet within the construction documents.
1. to 3. *(no change)*
4. The *storm shelter* design tornado speed, V_T or design wind speed, V_H, or both, mph (m/s).
5. The ~~tornado and~~ wind exposure category (indicate all where more than one is used).
~~6.~~8. The directionality factor, K_d ~~and or~~ K_{dt} or both.
7. The topographic factor, K_{zt}.
~~6.~~8. The internal pressure coefficient, GC_{pi} ~~and or~~ GC_{piT} or both.
9. to 24 *(no change)*

IS-STM 01-07-23 AS/AFM BC1
107.1 Quality assurance plan. The construction documents for community storm shelters shall contain a quality assurance plan prepared by a registered design professional and shall identify the following:
1 to 5 (no change)
6. ~~Fabrication and installation of~~ components and assemblies that are part of wall assemblies, roof assemblies or *impact-protective systems* of the *storm shelter envelope* required to meet impact or static or cyclic pressure test requirements of Chapter 3, such as, window assembly, door assembly, shutter assembly or louver.
7 to 12 *(no change)*

IS-STM 01-08-23 AS /AFM BC1
108.5.1 Changes. The registered design professional in responsible charge shall submit to the peer reviewer changes to the main windforce-resistance system or components and cladding that occur after the peer review report, that are related to the requirements of Section ~~108.1~~ 108.2 and occur before the issuance of permits for construction. If determined to be needed by the authority having jurisdiction, an amended peer review report shall be submitted before such design changes are implemented.

IS-STM 01-09-23 AM/AFM BC1
109.3 Evaluation and maintenance plan. For each *community storm shelter,* the owner or the owner's authorized agent shall submit to the *authority having jurisdiction* a written evaluation and maintenance plan in accordance with Section 113.

IS-STM 01-09-23 AM/AFM BC1
113.1 General. Community shelters shall be evaluated and maintained in accordance with Sections 113.2 through ~~113.4~~ 113.5.

IS-STM 01-09-23 AM/AFM BC1
113.2 Evaluation and maintenance plan. The owner or the owner's authorized agent shall develop and maintain a written evaluation and maintenance plan.

IS-STM 01-09-23 AM/AFM BC1
113.4.3 ~~113.3.3~~ Critical support systems. *Critical support systems* shall be maintained and repaired in compliance with manufacturers requirements ~~and Section 109.3~~. Stored supplies such as generator fuel and water supply shall be maintained at appropriate levels ~~in accordance with Section 109.3~~.

IS-STM 02-02-23 AM; correlation with IS-STM 07-06-23 for order or requirements; 07-02-23 AS/AFM BC1

CRITICAL SUPPORT SYSTEMS, STORM SHELTER. Systems and components required by Chapter 7 to ensure the health, safety, and well-being of shelter occupants. Critical support systems include~~,~~ water closets, lavatories, sanitation support systems, drinking water, roof drainage systems, ventilation systems, lighting systems, standby power system, and emergency power systems.

IS-STM 01-02-23 AS/AFM BC1
ON-SITE. Either inside, immediately adjacent to, or on the same site as the designated *storm shelter* ~~facility~~, and under the control of the owner or lawful tenant.

IS-STM 03-05-23 AM; IS-STM 03-08-23 AM/AFM BC1
306.4.1.4 Door undercut ~~clearance~~. ~~Floor clearance for door~~ Door assemblies in the storm shelter envelope shall be limited to a 3/4-inch (19.1 mm) maximum undercut ~~measured from the top of the threshold or finished floor~~. (See example in Figure 306.4.1.4).

The ~~joint clearance~~ gap at the meeting edge of a pair of side-swinging doors in the storm shelter envelope shall be 3/16-inch (4.8 mm) maximum.

Figure 306.4.1.1
Door ~~clearance~~ undercut

IS-STM 03-05-23 AM; IS-STM 03-11-23 AM/AFM PC1
306.4.4 Joints, gaps or voids in storm shelter envelope. Joints, gaps or voids in a *storm shelter envelope* that open into the *protected occupant area* shall be considered openings and comply with the following:

1. and 2 *(no change)*
3. Joints, gaps or voids that do not meet Item 1 or 2 shall comply with Section 306.4.1.4, 306.5.1 or 306.5.2.

IS-STM 05-06-23 AM **- modification replace by**
IS-STM 05-07-23 AM/05-08-23 AM/05-09-23 AM/D for Section 504.6 (now 504.7), restore 2020 text.
504.7 Multistory shelter. Storm shelters with multiple stories shall be required to have one emergency means of vertical access and egress provided within the storm shelter to a level of exit discharge provided by an emergency stair complying with Section 506.2 or a ladder complying with Section 506.3, or an alternating tread device complying with Section 506.4.
Exception: Provide an emergency escape opening or overhead hatch to allow for emergency vertical access and egress to the roof.

05-09-23 AM/D for Section 504.6(now 504.7), restore 2020 text.
~~**504.7 Vertical Access Within the Storm Shelter.** All storm shelter occupants shall have vertical access within the *storm shelter* to the level of exit discharge or to the roof of the *storm shelter*. Vertical access within the *storm shelter* shall be provided by a stairway, or by an emergency stair, ladder or alternating tread device complying with Section 506.~~
~~**Exception:** *Storm shelters* having a *design occupant capacity* not exceeding 16 are not required to provide vertical access within the *storm shelter*.~~

IS-STM 05-16-23 AS; IS-STM 03-02-23 AM/AFM BC4
508.2 Design information signage. All *storm shelters* shall have a sign on or within the *storm shelter* with all of the following:

1. and 2 *(no change)*
3. Design tornado speed, ~~and~~ design wind speed, or both.
4. and 5 *(no change)*

IS-STM 03-02-23 AM; IS-STM 07-02-23 AS/AFM BC1
702.2 Protection of tornado shelter critical support systems. *Tornado shelter critical support systems* shall remain functional for the design storm event and a minimum period of two hours. *Tornado shelter critical support systems* located outside of the tornado shelter areas shall be protected by a means that meets the wind load and impact requirements of Chapter 3, and, as applicable, the flood-resistance requirements of Chapter 4.
~~**Exception:** The water supply system and wastewater system for water closets and lavatories are not required to comply with this section.~~

IS-STM 07-02-23 AS/AFM BC1
702.4.4 Sanitation support method. A sanitation support method for the water closets or lavatories shall be capable of supplying water and containing waste for the *design occupant capacity* of the *tornado shelter*.

IS-STM 07-02-23 AS/AFM BC1

702.4.4.1 Storage capacity for water supply and wastewater. In community shelters with *a design occupant capacity* of 50 or greater, the capacity of the plumbing and waste disposal systems to supply water and contain or dispose of wastewater or solid wastes shall be 1 gallon (3.8 L) per 12 occupants of supply water and 1.5 gallons (5.68 L) capacity per 12 occupants for containment of wastewater.
Exception: Where temporary water closets or lavatories are provided that do not require water, the requirement for supply and wastewater storage shall be permitted to be reduced proportional to the total required water closets and lavatories.

IS-STM 03-02-23 AM; IS-STM 08-10 AM/AFM PC2
802.1 ~~Test assembly~~ General. All parts of the test *specimen* shall be full size…

IS-STM 08-10 AM/AFM PC2
802.3 Test s~~S~~pecimen conditioning. Samples …..

IS-STM 08-02-23 AS; IS-STM 08-03-23 AS/AFM PC2
803.9 Impact locations and the number of impacts. For purposes of testing, impact locations and quantities shall be as indicated in Sections 803.9.1 through 803.9.7.3, as applicable. The tolerance for impact locations shall be that the center of the missile profile shall impact within a $2^{1}/_{2}$ inch (64 mm) radius circle, with the center of the circle located as indicated in Sections 803.9.1 through 803.9.7.3, as applicable.

IS-STM 08-03-23 AS/AFMPC1; IS-STM 08-05-23 AS/AFM BC1
803.9.1 Panel or framed wall assemblies and roof assemblies. Sections of panel or framed wall assemblies and roof assemblies shall be impacted in the center of the section, and at one interface corner. See examples ~~as detailed~~ in Figures 803.9.1(1) and 803.9.1(2).

Where an interior stud or support is present, additional impacts shall be performed within 3 inches (76 mm) of the stud or support, and directly on a stud support~~, as detailed~~. See examples in Figures 803.9.1(1) and 803.9.1(2). Where an interior stud or support is present at the center of the wall section, the center wall impact shall be adjusted to ~~strike~~ impact centered between studs or supports.

Interface joints used for attachment or joining at corners, at panel-to-panel sections, or at panel-to-roof shall be impacted directly on ~~an example of~~ each type of interface joint. See examples in Figure 803.9.1(2).

Where a section contains lapped materials, the centered impact shall be adjusted to ~~strike~~ impact the center of any lap, and an additional impact shall be performed within 3 inches (76 mm) of the lap on the panel that laps behind the seam ~~as detailed~~. See example in Figure 803.9.1(2).

No more than three impacts shall be made on one *specimen*. Where more than three impacts are required, multiple identical test *specimens* shall be provided.

Exception: More than three impacts shall be permitted to be made on the same test *specimen* by mutual consent of the test sponsor and *test laboratory*.

IS-STM 08-05-23 AS/AFM BC1
803.9.2 Solid wall assemblies and roof assemblies of concrete or other materials. Sections of wall assemblies and roof assemblies of solid concrete or other solid material shall be impacted in the center of the section, and at one interface corner. See examples ~~as detailed~~ in Figures 803.9.2(1) and 803.9.2(2). Where interface joints are used for joining at corners or panel-to-panel joints, an additional section shall be impacted directly on the interface joints. See examples ~~as detailed~~ in Figure 803.9.2(2).

Where an interior stud or support is present, additional impacts shall be performed within 3 inches (76 mm) of the stud and support, and directly on the stud support. See examples ~~as detailed~~ in Figures 803.9.2(1) and 803.9.2(2).

No more than three impacts shall be made on one *specimen*. Where more than three impacts are required, multiple identical test *specimens* shall be provided.
Exception: More than three impacts shall be permitted to be made on the same test *specimen* by mutual consent of the test sponsor and *test laboratory*.

IS-STM 08-05-23 AS/AFM BC1
803.9.3 Masonry unit wall assemblies and roof assemblies. Sections of wall assemblies and roof assemblies constructed of masonry units shall be impacted in the center of the section, and at one interface corner or joint. See example ~~as detailed~~ in Figure 803.9.3(1). Mortared joints shall be impacted directly on the interface joints. See example ~~as detailed~~ in Figure 803.9.3(2).

No more than three impacts shall be made on one *specimen* or specimen panel. Where more than three impacts are required, multiple identical test *specimens* shall be provided.
Exception: More than three impacts shall be permitted to be made on the same test *specimen* by mutual consent of the test sponsor and *test laboratory*.

IS-STM 08-05-23 AS/AFM BC1
803.9.4.1 Side-swinging door assemblies. Side-swinging door assemblies shall be impacted within 6 inches (152 mm) of an interface hinge joint, within 6 inches (152 mm) of an upper latch point and within 6 inches (152 mm) of center primary latches or operators. See example ~~as shown~~ in Figure 803.9.4.1(1).

For double door assemblies with each door leaf containing identical hardware, one door

leaf shall receive the same three impacts as a single door leaf plus an additional impact on a center meeting point or mullion. See example ~~as shown~~ in Figure 803.9.4.1(2).

For double door assemblies where one or more hardware components differ between door leaves, each door leaf shall receive the same three impacts as a single door and an additional impact on a center meeting point or mullion. See example ~~as shown~~ in Figure 803.9.4.1(2). No more than four impacts shall be made on one *specimen*. Where more than four impacts are required, multiple identical test *specimens* shall be utilized. Impacts shown on the same leaf in Figure 803.9.4.1(2), shall occur on the same test *specimen*.
Exception: More than four impacts shall be permitted to be made on the same test *specimen* by mutual consent of the test sponsor and *test laboratory*.

IS-STM 08-05-23 AS/AFM BC1
803.9.4.2 Rolling door assemblies. For *rolling door assemblies*, the door shall be impacted at the center of the door, , ~~centered at a point~~ within 6 inches (152 mm) horizontally and vertically away from a bottom corner and within 6 inches (152 mm) of the primary latch or lock mechanism, plus an additional impact centered on a barrel assembly. See example ~~as shown~~ in Figure 803.9.4.2.
Exception: The barrel assembly is not subject to the additional impact where the entire barrel assembly is protected by the shelter envelope.

IS-STM 08-05-23 AS/AFM BC1
803.9.4.3 Sectional door assemblies. For sectional door assemblies, the door shall be impacted centered on a section joint at a hinge location nearest the midpoint of the test specimen, equidistant between the lower two section joints and centered between two vertical stiles, ~~centered at a point~~ within 6 inches (152 mm) horizontally and vertically away from a bottom corner, and within 6 inches (152 mm) of the primary latch or lock mechanism. See example in Figure 803.9.4.3.

IS-STM 08-06-23 AM/AFM PC1; IS-STM 08-05-23 AS/AFM BC1
803.9.5 Window assemblies and other glazed openings. All window assemblies and other glazed openings shall be impacted in the center of the smallest glazed section, and at ~~the lock side corner, or one interface corner,~~ a corner within 6 inches from each edge. Where a lock/latch is provided on the test specimen, the corner impact shall occur nearest the lock/latch. ~~as applicable~~ See Example ~~as detailed~~ in Figure 803.9.5(1). Where interior mullions or other glazed section joints are present, the assembly shall be impacted centered on the mullion and at base of mullion. See Example ~~as shown~~ in Figure 803.9.5(2). Interface hinge joints and primary latches, where present, shall be impacted. See Example ~~as shown~~ in Figure 803.9.4.1(2) on an additional specimen.

No more than two impacts shall be made on one specimen. Where more than two impacts are required, multiple identical test specimens shall be provided.
Exception: More than two impacts shall be permitted to be made on the same test specimen by mutual consent of the test sponsor and test laboratory.

IS-STM 08-10-23 AM; IS-STM 08-06-23 AM/AFM PC2 and PC3; IS-STM 03-10-23 AM/AFM BC1
803.9.6 Other impact-protective ~~systems~~ system assemblies. ~~All other~~ Other impact-protective ~~systems~~ system assemblies shall be impacted in the center of ~~the test *specimen*~~ the worst-case section as determined by the test laboratory, and at a perimeter corner within 6 inches (152 mm) from each edge. Where a lock/latch is provided on the test *specimen*, the corner impact shall occur nearest the lock/latch. See example in Figure 803.9.6(1).

Panels and interface joints shall be additionally impacted on the same test *specimen* centered at a seam or lap and at the center of a panel element, unless previously impacted at the same location on the same test specimen. See example in Figure 803.9.6(2).

Where an interior stud or support is present, additional impacts onto the same test *specimen* shall be performed within 3 inches (76 mm) of the stud or support, and directly on the stud or support. See examples in Figures 803.9.2(1) or 803.9.2(2).

All *impact-protective systems* that include hinged or pivoted assemblies shall be tested in accordance with the applicable requirements of Section 803.9.4 on an additional test *specimen*.

Exception: The same test specimen shall be permitted to be used to satisfy the requirements of Sections 803.9.6 and 803.9.4 by mutual consent of the test sponsor and test laboratory.

Glazed openings in other *impact-protective systems* shall be treated the same as glazed openings in doors and shall comply with Section 803.9.4.4.

Louvers shall be additionally impacted at the midspan of the blade's longest unsupported span, unless previously impacted at the same location on the same test specimen.

IS-STM 08-12-23 AS; IS-STM 08-03-23 AM/AFM PC1

803.9.7.3 Door assemblies subject to first impact. Where a first- ~~strike~~ impact angle missile will impact on the door assembly (see Figure 803.9.7.3 for an example) the door assembly shall meet the tornado or wind load requirements of Section 306.3, the fire-resistance requirements of Section 603, and meet one of the following debris impact criteria:

1. The door assembly withstands the impact of a missile ~~striking~~ impacting the door assembly at an angle closest to perpendicular to the plane of the door.
2. The door assembly withstands missile impacts by the design missile ~~striking~~ impacting perpendicular to the surface with speed equal to or greater than the *storm shelter* design missile's velocity component perpendicular to the door assembly for the most critical angle that can occur in the application.

The minimum debris impact criterion for the door assembly shall be an impact perpendicular to the door assembly of a 9-pound sawn lumber 2 by 4 traveling at 50 feet per second [34 mph (15.2 m/s)].

IS-STM 08-13-23 D/AFMBC2

803.10.1 Perforation. Any perforation of the interior surface of the tested component of the storm shelter envelope by the design missile shall constitute a failure. For impact-protective systems, perforation ~~or deflection~~ that would result in impact of the protected component constitutes a failure.

IS-STM 08-13-23 D/AFMBC2

803.10.5 Maximum Deflection. The maximum deflection under impact testing shall not result in perforation of the witness screen detailed in Sections 803.10.2 and 803.10.3. For *impact protective systems* that are intended for installation to the exterior of a protected component, impact deflection that would result in contact with the protected component constitutes a failure.

IS STM 08-15-23 AS/AFM PC1

804.3 Cyclic pressure testing after impact. Test *specimens* requiring cyclic pressure testing shall be cyclic tested in accordance with ASTM E1886 using the loading sequence detailed in Table 1 of ASTM E1886 to the *design wind pressure.* The test *specimens* used shall be the same test specimens that received impact testing in accordance with Section 803. Cyclic pressure testing procedures shall be performed in accordance with the Air Pressure Cycling criteria as detailed in ASTM E1886.

Exception: The maximum allowable cycle time for specimens over 75 square feet (7 m^2) in area shall be permitted to be calculated using the following equation:

Maximum allowable cycle time in seconds = (area of specimen in sq. ft. – 75) × 0.06 + ~~3~~ 5

In no case shall the maximum cycle time exceed ~~10~~ 20 seconds.

IS-STM 08-16-23 D/AFM PC1

804.3.1 Maximum Deflection Measurement. The maximum deflection of the test *specimen* shall be measured and recorded for each loading sequence during cyclic pressure testing. The deflection-measuring system shall comply with the requirements of Sections 6 and 9 of ASTM E330.

IS-STM 09-01-23 AS/AFM BC1

NFPA-70—~~17~~23 National Electrical Code.....702.5, 703.9

IS-STM 01-02-23 AS/AFM BC1

A101.3 Availability. A copy of the SSPEOP shall be maintained ~~at the facility~~ at all times~~. The SSPEOP~~ and shall be available in the ~~facility~~ storm shelter for reference and review by the designated *storm shelter management team.*~~, and a~~ A copy shall be provided by the owner or owner's representative for ~~maintenance by~~ the *authority having jurisdiction* or Emergency Management Agency where the shelter is designated for use by the general public.

IIAR 9-2020 Addendum A-202x

Standard for Minimum System Safety Requirements for Existing Closed-Circuit Ammonia Refrigeration Systems

Public Review #1 Draft

This draft only shows Substantive and Informative Changes (and enough content for understanding).

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Chapter 1. General

1.1 Purpose

1.1.1 This standard provides the minimum safety requirements for existing closed-circuit ammonia refrigeration systems.

1.2 Scope

~~1.2.1 This standard provides a method to determine if existing stationary closed-circuit refrigeration systems using ammonia as a refrigerant comply with minimum system safety requirements.~~

~~1.2.1.1 An initial safety evaluation shall be conducted for each ammonia refrigeration system to ensure that they comply with the safety requirements specified in IIAR 9 within five years from the date of publication of this standard.~~

~~1.2.1.2 The safety evaluations shall be revalidated at least every five (5) years.~~

~~1.2.1.3 Chapter 8 of this standard describes the methodology which shall be used to conduct the safety evaluations.~~

~~1.2.2 This standard provides a method for existing stationary closed-circuit refrigeration systems using ammonia as a refrigerant to determine and document that existing equipment designed and constructed in accordance with codes, standards, or practices that are no longer in general use is inspected, tested, maintained, and operating in a safe manner.~~

~~1.2.3 This standard shall not apply to:~~

~~1.2.3.1 Non-industrial occupancies; and~~

~~1.2.3.2 Ammonia absorption refrigeration systems~~

1.2.1 Existing stationary closed-circuit refrigeration systems using ammonia as a refrigerant shall comply with this standard, except as provided in Section 1.2.1.1 and Section 1.2.1.2.

1.2.1.1 This standard shall not apply to non-industrial occupancies.

1.2.1.2 This standard shall not apply to ammonia absorption systems.

1.3 Procedure

1.3.1 An initial safety evaluation shall be conducted for each ammonia refrigeration system to ensure that it complies with the minimum system safety requirements specified in IIAR 9 no later than January 1st, 2026.

1.3.2 The safety evaluations shall be revalidated at least every five (5) years.

1.3.3 Chapter 8 of this standard describes the methodology which shall be used to conduct the safety evaluations.

1.4 *Applicable Requirements

1.4.1 Where the minimum system safety requirements in codes and standards that initially governed design and installation of the ammonia refrigeration system are more restrictive than those in this standard, the more restrictive minimum system safety requirements shall continue to apply, unless a provision in this standard specifically states that a reduction from previously applicable codes and standards is allowed as indicated in Section 7.2.10 and Section 7.3.13.2.

1.4.2 Where the minimum system safety requirements of this standard are more restrictive than those in the codes and standards that initially governed design and installation, or where the minimum system safety requirements in the codes and standards that initially governed design and installation cannot be identified, this standard shall establish the minimum system safety requirements.

Chapter 7: Minimum System Safety Requirements Applicable to All Systems

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7.2.9.4 **Emergency Contact Information.** The contact information for whom to contact in an emergency.

~~7.2.9.5 ***Wind Indicator.** Where a sock, pennant, or other wind indicator is provided, it shall be in accordance with specifications and locations prescribed by emergency planning documents.~~

7.2.10 **Emergency Shutdown Documentation.** In accordance with Section 1.4.1, this section permits a reduction or modification of the requirements of codes and standards that applied to initial design and installation. It shall be the duty of the person in charge of the premises at which the refrigeration system is installed to provide directions for the emergency shutdown of the system at a location that is readily accessible to trained refrigeration system staff and trained emergency responders. Documentation shall include the following:

7.2.10.1 Instructions with details and steps for shutting down the system in an emergency.

~~7.2.10.2 The name and telephone numbers of the refrigeration operating and maintenance staff.~~

7.2.10.~~3~~2 The names and telephone numbers of all local, state, and federal agencies to be contacted as required in the event of a reportable incident.

7.2.10.~~4~~3 *Maximum Intended Inventory ~~Quantity~~ of ammonia in the system.

~~7.2.10.5 Signage shall include emergency facility contact title and phone number to call in the event of an alarm or ammonia release.~~

7.3.3.3 **Ready Access to Valves**

~~1) Manually operated valves that are inaccessible from floor level shall be operable from portable platforms, fixed platforms, ladders, or shall be chain operated.~~

~~2) Manually operated isolation valves identified as being part of the system emergency shutdown procedure shall be directly operable from the floor or chain operated from a permanent work surface. Emergency shut-off valve identification shall comply with Section 7.2.9.3.~~

1) Manually operated system emergency valves identified as being part of the system emergency shutdown procedure that are inaccessible from floor level shall be operable from a fixed permanent work surface, or by use of a chain or a remote-actuated manual operator that shall be ready access from the floor or a permanent work surface. Ready access and clearance to operate the valves while wearing emergency response personal protective equipment shall be provided.

7.3.13.2 **Exhaust Ventilation.** In accordance with Section 1.4.1, this section permits a reduction or modification of the requirements of codes and standards that applied to initial design and installation. Machinery rooms shall be vented to the outdoors by means of a mechanical exhaust ventilation system at a rate that complies with the codes and standards adopted at the time of installation or at the time that there was an addition or modification that would affect the emergency ventilation rate.

1) Mechanical exhaust ventilation system shall be automatically activated by ammonia leak detection in accordance with Section O and shall be manually operable.

~~2) Machinery room exhaust fans, regardless of function, shall be equipped with non-sparking blades.~~

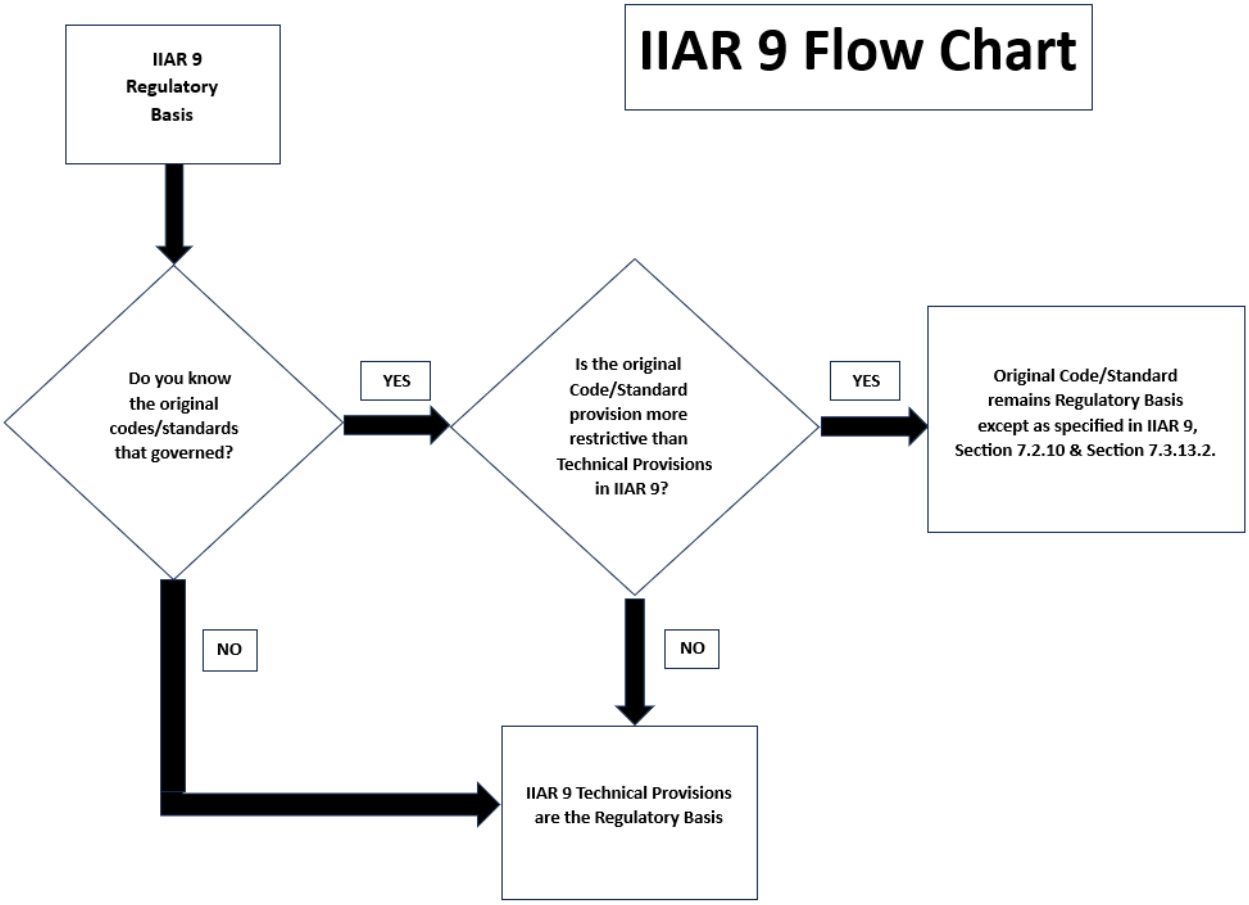
2) Machinery room emergency exhaust fans shall be equipped with non-sparking blades. Other non-emergency exhaust fans shall be equipped with non-sparking blades or automatically be de-energized when an ammonia detector is activated at 150 ppm.

3) Emergency exhaust fan motors located in the air stream or inside the machinery room shall be of the totally enclosed type.

~~4) A monitored location shall be notified upon loss of power to, or failure of, the emergency mechanical ventilation system.~~

Appendix A. (Informative) Explanatory Material

A.1.4 IIAR 9 Flow Chart



~~A.7.2.9.5~~ ~~Wind indicators are not required by IIAR 9. However, they are sometimes provided for use in conjunction with EPA or OSHA emergency planning and response procedures. See EPA Alert 550-F-1999, August 2001.~~

A.7.2.10.4 ~~The quantity of ammonia in the system is an estimate of the maximum quantity (in pounds) held in the covered process at any one time during the calendar year.~~

The maximum intended inventory is an estimate of the maximum amount of ammonia refrigerant (in pounds) held in the covered process at any one time during the calendar year. Some owners use the maximum operating inventory as their maximum intended inventory.

[Note – the recommended changes to the standard which include the current text of the relevant section(s) indicate deletions by use of ~~strikeout~~ and additions by gray highlighting. Rationale statements are in *italics* and only used to add clarity; these statements will NOT be in the finished publication.]

NSF/ANSI Standard
for Plastics —

Plastics Piping System Components and Related Materials

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•
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9 Quality assurance

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~~Table 9.30~~
~~PVC and PVCO pipe and fittings for underground fire service test frequency~~

~~Test~~	~~Pipe~~	~~Coupling~~	~~Gasket~~
~~pipe outside diameter~~	~~2 h~~	—	—
~~wall thickness~~	~~2 h~~	—	—
~~out-of-roundness~~ [a]	~~2 h~~	—	—
~~hydrostatic pressure test~~	~~annually~~ [b]	~~annually~~ [b]	—
~~leak test for joints~~	~~annually~~ [b]	~~annually~~ [b]	—
~~assembly test~~	~~annually~~ [b]	~~annually~~ [b]	—
~~flattening test~~	~~annually~~ [b]	—	—
~~impact resistance test~~	~~weekly~~	—	—
~~longitudinal tensile strength test~~	~~annually~~ [b]	—	—
~~long-term hydrostatic pressure test~~	~~annually~~ [b]	—	—
~~extrusion quality test~~	~~annually~~ [b]	—	—
~~light and water test~~	~~qualification~~ [c]	—	—
~~production line burst test~~	~~each~~ [c]	~~each~~ [c]	—
~~minimum tensile strength test~~	—	—	~~annually~~ [b]
~~ultimate elongation~~	—	—	~~annually~~ [b]
~~maximum set~~	—	—	~~annually~~ [b]
~~product standard(s)~~	~~UL 1285~~	~~UL 1285~~	~~UL 157~~

~~[a] OOR requirement does not apply to PVCO pipe.~~

~~[b] Annual testing shall be performed on one representative size and pressure class of each type of pipe.~~

~~[c] Light and water test shall be performed at the initial qualification on each pipe material and whenever a change of material occurs.~~

~~[d] Each length of pipe and each coupling shall be tested according to Section 22 of UL 1285.~~

Table 9.30a
PVC pipe and fittings for underground fire service test frequency

Test	Pipe	Coupling	Gasket
pipe outside diameter	hourly	—	—
wall thickness	hourly	—	—
out-of-roundness[a]	hourly	—	—
sustained pressure test	Semi-annually	annually	—
leakage	annually	annually	—
assembly test	annually	annually	—
flattening test	8 hour	—	—
burst test	3 month	3 month	—
extrusion quality test	annually	—	—
hydrostatic integrity	each [a]	each [a]	—
minimum tensile strength test	—	—	annually
ultimate elongation	—	—	annually
maximum set	—	—	annually
product standard(s)	UL 1285	UL 1285	UL 157

[a] Each length of pipe and each coupling shall be tested according to Section 4.3.3.3 of AWWA C900

Table 9.30b
PVCO pipe and fittings for underground fire service test frequency

Test	Pipe	Coupling	Gasket
pipe outside diameter	hourly	—	—
wall thickness	hourly	—	—
sustained pressure test	Semi-annually	annually	—
leakage	annually	annually	—
assembly test	annually	annually	—
flattening test	8 hour	—	—
Burst test	3 month	3 month	—
extrusion quality test	8 hour	—	—
hydrostatic integrity	each [a]	each [a]	—
minimum tensile strength test	—	—	annually
ultimate elongation	—	—	annually
maximum set	—	—	annually
product standard(s)	UL 1285	UL 1285	UL 157

[a] Each length of pipe and each coupling shall be tested according to Section 4.3.4.4 of AWWA C909

[Note – the recommended changes to the standard which include the current text of the relevant section(s) indicate deletions by use of ~~strikeout~~ and additions by gray highlighting. Rationale statements are in *italics* and only used to add clarity; these statements will NOT be in the finished publication.]

NSF/ANSI Standard
for Plastics —

Plastics Piping System Components and Related Materials

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2 Normative references

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ASTM F3451-22 *Standard Practice for Sectional Repair of Existing Gravity Flow, Non-Pressure Pipelines and Conduits by Pushed or Pulled-In-Place Installation of Cured-In-Place Thermosetting Resin Pipe (CIPP)*[5]

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9 Quality assurance

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Table 9.38
Cured-in-place pipe liners

Test	Frequency
gravity leakage test[a]	quarterly
flexural strength	quarterly
flexural modulus	quarterly
product standard(s)	ASTM F1216 ASTM F3451
[a] Gravity Pipe Leakage test is only required for product produced under ASTM F1216	

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[Note – The recommended changes to the standard which include the current text of the relevant section(s) indicate deletions by use of ~~strikeout~~ and additions by grey highlighting. Rationale statements are in *italics* and only used to add clarity; these statements will NOT be in the finished publication.]

NSF/ANSI Standard 401:

Drinking Water Treatment Units – Emerging Compounds / Incidental Contaminants

⋮

2 Normative references

The following documents contain requirements that, by reference in this text, constitute requirements of this standard. At the time of publication, the indicated editions were valid. All of the documents are subject to revision and parties are encouraged to investigate the possibility of applying the recent editions of the documents indicated below. The most recent published edition of the document shall be used for undated references.

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EPA-600/4-90-020, *Methods for the Determination of Organic Compounds in Drinking Water, Supplement 1,* July 1990[6]

ISO 12103-1:1997, *Road Vehicles – Test dust for filter evaluation – Part 1: Arizona test dust*[7]

NIST Standard Reference Database 1A (NIST/EPA/NIH Mass Spectral Library with Search Program), NIST20/NIST v20[~~7~~8]

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7 Elective performance claims – Test methods

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7.3 Mechanical reduction claims

7.3.1 Microplastics reduction claim for filters

Testing shall be performed in accordance with the test procedure under NSF/ANSI 42 for nominal particulate reduction (85%) claims for the reduction of nominal particulate Class I.

7.3.2 Microplastics reduction claim for reverse osmosis systems

The system shall reduce the number of particles by at least 85%, when tested in accordance to Section 7.3.2. A claim for a greater percent reduction, if made, shall be substantiated by testing.

7.3.2.1 Apparatus

A test apparatus capable of providing specified flow rates and pressures shall be used. An example of an appropriate test apparatus appears in Figure 3.

[6] US Environmental Protection Agency. 1200 Pennsylvania Avenue NW, Washington, DC 20004. <www.epa.gov>

[7] International Organization for Standardization. Chemin de Blandonnet 8, Case Postale 401, 1214 Vernier, Geneva, Switzerland. <www.iso.org>

[~~7~~8] National Institute of Standards and Technology, U.S. Department of Commerce.100 Bureau Drive, Gaithersburg, MD 20899-8930. <www.nist.gov>

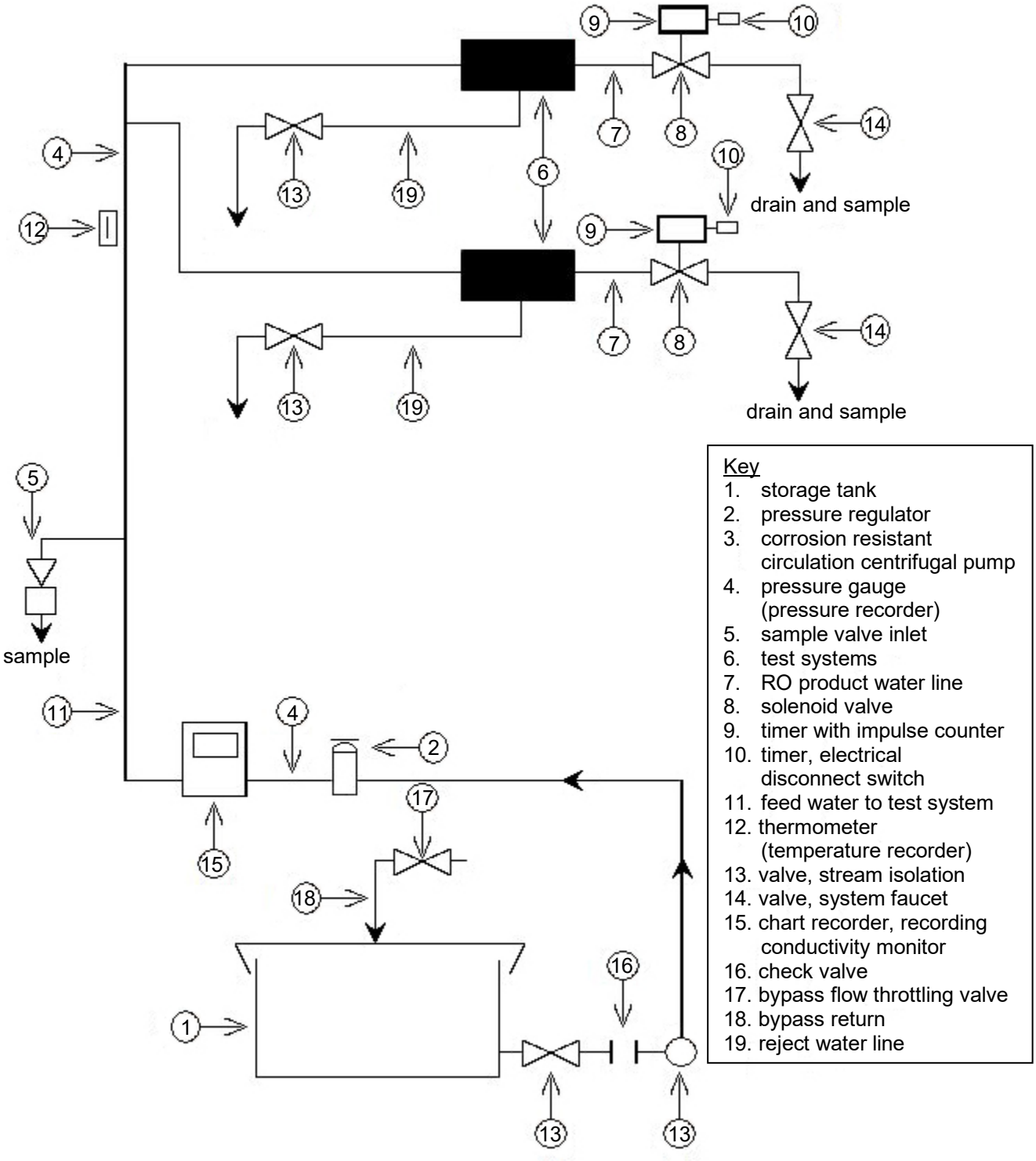

Figure 3
Example test apparatus

7.3.2.2 Analytical methods

Standard particle counting techniques available from particle counter manufacturers shall be used. Postmembrane filters shall be removed prior to testing.

7.3.2.3 General test water

A public water supply shall be used with the following specific characteristics maintained throughout the test:

TDS	200 to 500 mg/L
turbidity	≤ 1 NTU
pH	7.5 ± 0.5
temperature	25 ± 1 °C (77 ± 2 °F)

7.3.2.4 Influent challenge

Test dust conforming to the specifications in ISO 12103-1 *Road Vehicles – Test Dust for Filter Evaluation* shall be added to the general test water specified in Section 7.3.2.3 according to the requirements in Table 7.2.

Table 7.2
Test dust specifications for microplastics reduction

Particulate class	Test dust	Size range (µm)	Specification	Challenge concentration [a]
I	ISO fine test dust	0 to 80	ISO 12103-1, A2	10,000/mL

[a] The stated challenge concentration is the minimum number of particles in the particle size range that is being tested.

7.3.2.5 Sampling

Product water samples shall be collected from the first water out of the system in the amount of 250 mL or total volume needed for analysis, whichever is greater. Influent and product samples shall be analyzed for all test contaminants. On Day 1 of testing, the storage tank shall be emptied after each collection at 4 h and 8 h. On Days 2 to 4 of testing, 5% of the first day's production rate shall be withdrawn from the storage tank after each collection at the beginning of the day and after an elapsed time of 6 h and 12 h from which a test contaminant sample shall be collected and analyzed. Days 5 and 6 represent a 54-h stagnation period, under pressure, during which no product water shall be withdrawn. At the start of Day 7, 144 h into the test, a sample shall be collected and analyzed, followed by emptying of the storage tank. A final sample shall be collected and analyzed on Day 7 for the first 4-h period. After the last sample for test contaminants is collected, the storage tank shall be emptied.

7.3.2.5.1 Systems without storage tanks

Product water samples shall be collected from the first water out of the system in the amount of 250 mL or total volume needed for analysis, whichever is greater. Influent and product samples shall be analyzed for all test contaminants. On Day 1 of testing, samples shall be collected at 4 h and 8 h. On Days 2 to 4 of testing, samples shall be collected at the beginning of the day and after an elapsed time of 6 h and 12 h and analyzed for TDS. Days 5 and 6 represent a 54-h stagnation period, under pressure, during which no

product water shall be withdrawn. At the start of Day 7, 144 h into the test, a sample shall be collected and analyzed. A final sample shall be collected and analyzed on Day 7 for the first 4-h period.

7.3.2.5.2 Systems with storage tank and automatic shutoff

Product water samples shall be collected from the first water out of the system in the amount of 250 mL or total volume needed for analysis, whichever is greater. Influent and product samples shall be analyzed for all test contaminants. On Day 1 of testing, the storage tank shall be emptied after each collection at 4 h and 12 h. On Days 2 to 4 of testing, 5% of the first day's production rate shall be withdrawn from the storage tank after each collection at the beginning of the day and after an elapsed time of 6 and 12 h. Days 5 and 6 represent a 54-h stagnation period, under pressure, during which no product water shall be withdrawn. At the start of Day 7, 144 h into the test, a sample shall be collected and analyzed, followed by emptying of the storage tank. A final sample shall be collected and analyzed on Day 7 for the first 4-h period. After the last sample for test contaminants is collected, the storage tank shall be emptied.

7.3.2.5.3 Systems with no shutoff provisions

Product water samples shall be collected from the first water out of the system in the amount of 250 mL or total volume needed for analysis, whichever is greater. Influent and product samples shall be analyzed for test contaminants. On Day 1 of testing, samples shall be collected at 4 h intervals including 4 h, 8 h, 12 h, and 16 h. The storage tank shall be emptied after each collection and the product water volume shall be recorded in liters (gallons) at each 4 h sample point. On Days 2 to 4 of testing, 5% of the first day's production rate shall be withdrawn from the storage tank after each collection at the beginning of the day and after an elapsed time of 6 h and 12 h. Days 5 and 6 represent a 54-h stagnation period, under pressure, during which no product water shall be withdrawn. At the start of Day 7, 144 h into the test, a sample shall be collected and analyzed, followed by emptying of the storage tank. A final sample shall be collected and analyzed on Day 7 for the first 4-h period. After the last sample for test contaminants is collected, the storage tank shall be emptied.

:

Rationale:
The proposed language adds a microplastics test protocol and microplastics reduction claim for RO systems to NSF/ANSI 401. The procedures and requirements come from established procedures in NSF/ANSI 58 and NSF/ANSI 42.

[Note – the recommended changes to the standard which include the current text of the relevant section(s) indicate deletions by use of ~~strikeout~~ and additions by grey highlighting. Rationale Statements are in *italics* and only used to add clarity; these statements will NOT be in the finished publication.]

NSF/ANSI/CAN Standard

Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and other Recreational Water Facilities

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27 Treatment chemicals used in recreational water and facilities

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27.5 Toxicology review and evaluation procedures for swimming pool treatment chemicals

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27.5.4 Threshold of ~~toxicology~~ toxicological concern

As an initial toxicity screen to determine the need for further toxicological assessment, chemical constituents (or contaminants) in the product formulation ~~may~~ shall be evaluated using the Threshold of ~~Toxicology~~ Toxicological Concern (TTC) approach when applicable as described herein. The TTC approach has been developed to identify a level of exposure to a chemical that would be of low human health risk based on an appraisal of structural attributes ~~screen and prioritize the risk assessment of substances when the chemical structure of the substance is known and where human oral exposure can be estimated to be relatively low~~ (Munro, et al.,1996, 2008; Kroes, et al., 2004, 2007; Boobis, et al., 2017).

27.5.4.1 Determination of the appropriate TTC ~~screening criteria~~ threshold limits

The ~~original~~ TTC approach ~~utilized~~ utilizes the classification method from Cramer et al. (1978) to examine the distribution of ~~NOAEL~~ NOAELs for each of the three Cramer structural classes using a database of 613 chemicals with 2,941 ~~NAOEL~~ NOAEL values (Munro, et al., 1996). The 613 chemicals consisted of a broad range of chemicals (industrial, food, environmental, agricultural, pharmaceuticals and consumer product chemicals) and resulted in 137, 28 and 448 chemicals in Cramer Classes I, II and III, respectively. From the available toxicity data for each of the 613 chemicals, the most conservative NOAEL was selected, based on the most sensitive species, sex and endpoint. If a subchronic NOAEL was identified, it was divided by a factor of three to extrapolate to a chronic NOAEL. From the identified NOAEL values, the 5th percentile NOAEL (in mg/kg-day) was calculated for each structural class and an uncertainty factor of ~~100×~~100 was applied resulting in TTC values of ~~1.5, 9 and 30~~ 30, 9 and 1.5 µg/kg-day for Cramer Classes I, II and III, respectively. For potentially genotoxic substances (DNA-reactive mutagens), Kroes, et al. (2004) derived a TTC value of ~~0.00025~~ 0.0025 µg/kg-day based on a 10^{-6} cancer risk level. To extrapolate the TTC values for use in swimming pool applications, the highest swimmer intake rate (children ages 6-11) of 0.0024 L/kg-

day obtained from the U.S. EPA Exposure Factor Handbook (U.S. EPA, 2019) ~~may be~~ is utilized resulting in ~~Screening Criteria~~ the Threshold Limits provided in Table 27.3 below:

Table 27.3
~~Threshold of toxicology concern screening criteria~~
Threshold of Toxicological Concern (TTC)-Derived Threshold Limits for Pool Chemicals

Classification	TTC value (µg/kg-day)	~~Screening criteria~~ Threshold Limit (µg/L)
genotoxicity structural alert (highest concern)	0.0025 [a]	~~6~~ 2 [b]
Cramer Class III (high concern)	1.5	200
Cramer Class II (intermediate concern)	9	1,000
Cramer Class I (low concern)	30	4,000

NOTE — ~~Screening criteria~~ Threshold limit calculated using intake rate for children 6-11 of 0.0024 L/kg-d based on 0.077 L/day with body weight of 32 kg (U.S EPA, 2019) where Threshold Limit = TTC value / intake rate / 3x adjustment factor (rounded to 1 sig. figure).

[a] Based on 10^{-6} cancer risk level.

[b] Threshold limit is based on 10^{-5} risk level (equivalent to NSF 600 TAC approach for linear carcinogens) using a default age-dependent adjustment factor of ~~1.7~~2.3 (from U.S. EPA, 2005a, U.S, EPA, 2019). Therefore, Threshold Limit = 0.0025 µg/kg-day x 10 / (2.3 x 3 x 0.0024 L/kg-day)

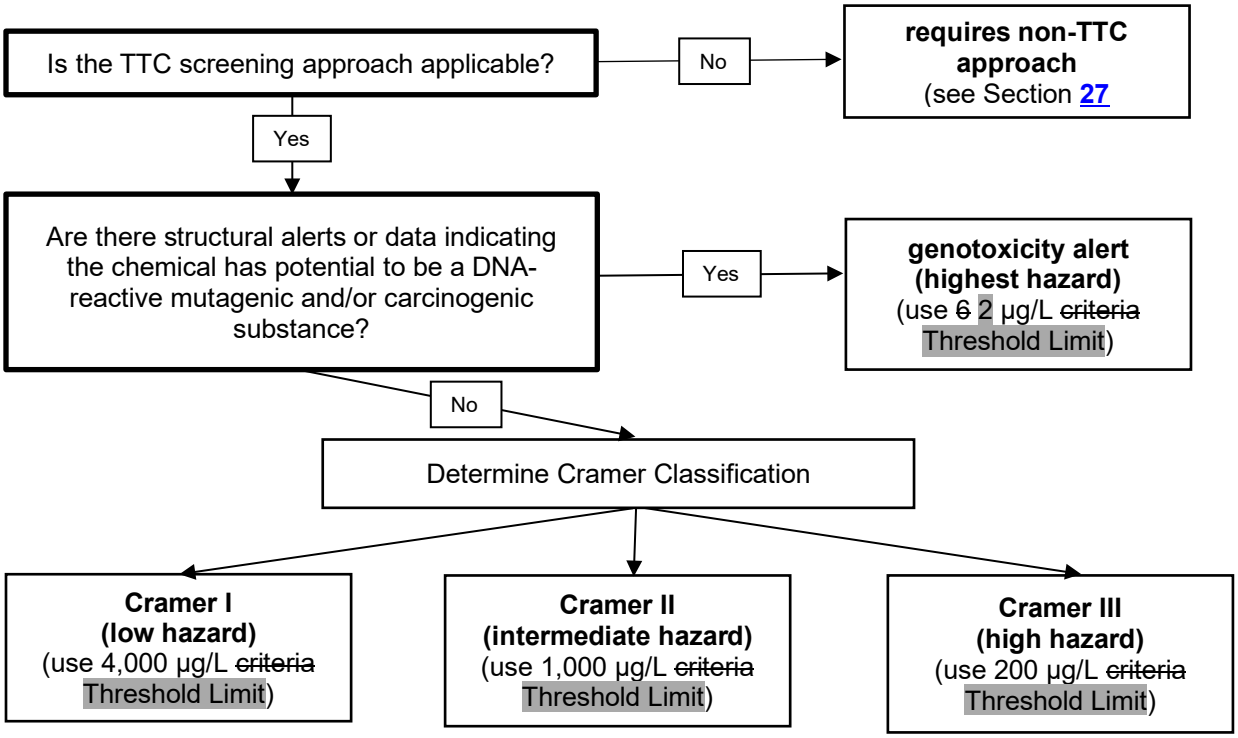
~~From~~ In Table 27.3, the calculation of the TTC ~~Screening Criteria~~ Threshold Limits for swimming pool chemicals includes an additional adjustment factor of 3~~3x~~. This adjustment factor ~~is to account~~ accounts for possible inhalation or dermal exposures to the constituent (or contaminant) as the TTC values are based on oral exposure. The factor of 3 is conservative since pool chemicals are typically quite soluble in water and thus have low volatility and low dermal absorption.

27.5.4.2 Application of ~~TTC screening criteria~~ Threshold Limits

To apply the ~~TTC Screening Criteria~~ Threshold Limits from Table 27.3, the constituent (or contaminant) is assigned to a Cramer Class. OECD Toolbox version 4.5 or ToxTree are resources which include the original Cramer Class decision tree and expanded decision trees. The Cramer Class should be identified from both resources and any discrepancy (i.e., the resources give different Classes) should be checked manually. Then, the applicable ~~TTC Screening Criteria~~ Threshold Limit ~~must be~~ is compared to the maximum concentration of the constituent (or contaminant) in the swimming pool water. If the maximum concentration is less than the applicable ~~Screening Criteria~~ Threshold Limit, no further toxicology evaluation is required. However, there are several categories of chemicals that are excluded from using the ~~TTC screening~~ Threshold Limit approach and must be evaluated per Section 27.7. if present: inorganic substances, proteins, steroids, nanomaterials, radioactive substances, organosilicon substances, metals, organophosphate and carbamate pesticides, high-potency carcinogens (e.g., aflatoxin-like, azoxy- or N-

nitroso substances and benzidines) and bioaccumulative compounds (e.g., polyhalogenated-dibenzodioxins, -dibenzofurans and -biphenyls). Additionally, the ~~TTC Screening Criteria~~ Threshold Limit process shall not apply to any substance for which available toxicity data and sound scientific judgment indicate that the potential for any adverse health effects is significant at a swimming pool water concentration below the applicable ~~TTC Screening Criteria~~ Threshold Limit.

The applicable TTC-derived threshold limit is determined by the following steps:



For any chemical constituent (or contaminant) in a product formulation where use of the ~~TTC Screening Criteria~~ Threshold Limit approach is appropriate and the maximum concentration in the swimming pool water is below the applicable ~~TTC Screening Criteria~~ Threshold Limit, no additional toxicology evaluation is required.

27.6 Swimming pool exposure assessment methodology

27.6.1 General requirements

For chemical concentrations in the pool water at the maximum recommended dose that are above applicable ~~TTC~~ ~~Screening Criteria~~ Threshold Limit in Table 27.3 (or where TTC-derived criteria cannot be applied), an exposure assessment shall be performed as detailed in Section 27.6. For chemicals present in swimming pools, there is the potential for post-application dermal, oral, and inhalation exposures. To address potential systemic effects associated with dermal, inhalation, and incidental oral exposures, exposures are estimated using equations from US EPA SWIMODEL software (2003a). US EPA SWIMODEL software was developed as a screening tool to conduct exposure assessments of pesticides found in swimming pools and spas. It utilizes screening exposure assessment equations to calculate the high-end exposure for swimmers expressed as a mass-based intake value (mg/event).

…

NOTE — Depending on the properties of the specific chemical being assessed, available toxicity data and sound scientific judgment, determination of the contribution of inhalation or dermal exposures to the total exposure dose may not be required:

— **inhalation**: Chemical properties to consider when assessing the contribution of inhalation exposure include, but are not limited to, volatility, water solubility, and/or direct reactivity with tissues; and

— **dermal**: Chemical properties to consider when assessing the contribution of dermal exposure include, but are not limited to, molecular weight and/or K_{ow}.

Using the U.S. EPA SWIMODEL (2003a)**Error! Bookmark not defined.** equations and the assumptions provided, ~~in t he~~ exposure estimates ~~may be~~ arecalculated for adults (men and women), children (ages 11 to <16 yr) and children (ages 6 to <11 yr). Additionally, the available assumptions allow for exposure estimates for each age group based on whether the individual is a competitive or non-competitive swimmer. For noncompetitive swimmers, the equations and assumptions provided ~~in this herein~~ allow for differing exposure concentrations depending on acute or chronic endpoints.

Limitations and caveats in the equations from U.S. EPA SWIMODEL (2003a)**Error! Bookmark not defined.** include t he following:

— the model focuses on potential chemical intakes only and does not take into account metabolism or excretion of the chemical being assessed;

— the model uses the following absorption facts for each route of exposure:

— **ingestion**: 100% absorption of ingested chemicals is assumed;
— **dermal**: Chemical-specific decimal Kp is used; and
— **inhalation**: 100% absorption of inhaled chemical is assumed;

— the model does not account for the effect of ambient temperature on intake; and

— the exposure estimates are derived based on use of the chemical in swimming pools only.

When estimating swimming exposure, the U.S. EPA Office of Pesticides uses a procedure (U.S. EPA, 2015) in which some of the inputs and parameters utilized by U.S. EPA SWIMODEL (2003a)**Error! Bookmark not d efined.** have been modified. Among the updates were modifications of the exposure times which allow for assessment of short-term and long-term exposure. When deriving exposure estimates, the short-term exposure concentrations shall first be determined by the calculation of the potential daily dose (PDD) and then assessed according to the toxicology evaluation process described in Section **Error! Reference source not found.**. If the short-term exposure concentration (the calculated PDD) exceeds the acceptance criteria based on lifetime exposure effects identified by the toxicology review requirements described herein, then the average daily dose (ADD) may then be calculated and compared against the lifetime exposure acceptance criteria; however, the short-term exposure concentration shall be addressed by comparing against a short-term acceptance criteria identified according to the toxicology evaluation process described in Section **Error! Reference source not found.**.

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BSR/UL 2447, Standard for Safety for Containment Sumps, Fittings and Accessories for Flammable and Combustible Liquids

1. Proposed Binational Edition of UL/ULC 2447 for US and Canada

PROPOSAL

5.5.1.6 To demonstrate the effectiveness of repair or replacement type accessories in used systems that rely on fusion, adhesives, encapsulants, or similar bonds with the sump or pipe that may have absorbed fuels, these accessories shall be assembled to a representative sump/pipe combination per the manufacturer's instructions, that has been pre-conditioned in an equal part mixture of all test fuels in Table 5.9.1 for a minimum of 10 d at 40 ±2 °C (104 ±3.6 °F).

BSR/UL 330, Standard for Safety for *Hose and Hose Assemblies for Dispensing Flammable and Combustible Liquids*

The following is being recirculated:

1. **Clarify and align the plus and minus tolerances for mandrels**

PROPOSAL

PERFORMANCE

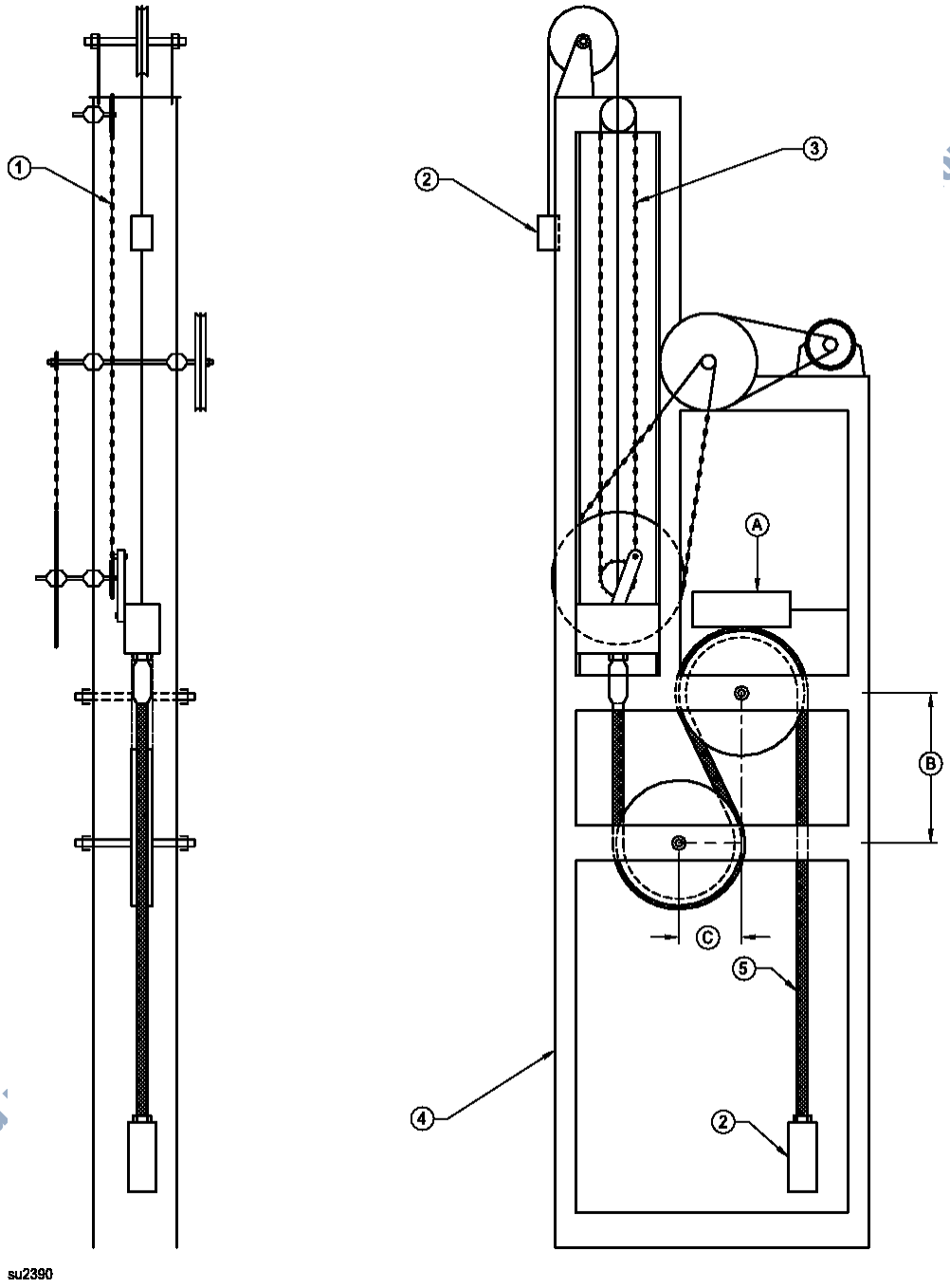
10 Repeated Bending Test (Empty)

10.3 Apparatus

10.3.1 The bending machine, shown in Figure 10.1 with drums having a radius of 7 ±0.06 in (177.8 ±1.5 mm), shall be used for this test. The vertical distance between centers of the drums is 17 in (432 mm). The horizontal distance between centers of the drums is 7 in (177.8 mm).

Figure 10.1

Bending Machine



1 – Block Chain, 2 – Counterweight, 3 – Centreline of Block Chain, 4 – Steel Frame, 5 – Hose Under Test

A – 3.5 lb (1.59 kg), B – 17 in (432 mm), C – 7 in (177.8 mm)

13 Repeated Bending Test (Filled)

13.3 Apparatus

13.3.1 The bending machine shown in Figure 10.1 with drums having a radius of 7 ±0.06 in (177.8 ±1.5 mm), shall be used for this test. The vertical distance between centers of the drums is 17 in (432 mm). The horizontal distance between centers of the drums is 7 in (177.8 mm).

22 Kink Test

22.2 An approximately 1 ft (305 mm) length of coupled hose shall be subjected to 100 cycles of bending around a 3 ±0.06 in (76.2 ±1.5 mm) diameter mandrel. Each cycle shall consist of bending the center of the hose 180° around the mandrel in one direction (the natural curvature of the hose) and then in the opposite direction. The hose shall be bent at a rate of 8 – 12 s for each bend. The sample shall then be visually examined for damage and subjected to a hydrostatic pressure of 250 psi (1,724 kPa) for 1 min.

28 Low Temperature Test

28.3 Apparatus

28.3.1 Apparatus for this test shall consist of a chamber that maintains a temperature of −40 ±3.6°F (−40 ±2°C) or −65 ±3.6°F (−54 ±2°C), and mandrels having diameters equal to ten times the nominal inside diameter of the hoses, ±0.1 in (±2.5 mm) .

UL 789, Standard for Safety for Indicator Posts for Fire-Protection Service

1. Indicator posts with reducing gears

PROPOSAL

5 Barrels

5.1 The walls of a barrel shall be made of material having physical and corrosion resistant properties at least equivalent to one of the following:

a) Gray iron extra-heavy soil pipe (0.25 inch nominal thickness) in accordance with the ~~Standard Specification for Cast Iron Soil Pipe and Fittings,~~ ASTM A74~~, for either the upper or lower barrel~~;

b) Minimum 0.21-inch thick ductile iron in accordance with ~~the Standard for Ductile Iron Pipe Centrifugally Cast, for Water, ANSI/~~AWWA C151/A21.51~~, for either the upper or lower barrel~~;

c) Schedule 40 steel pipe ~~for either the upper or lower barrel~~ in accordance with ~~Standard Specification for Pipe, Steel, Black, and Hot-Dipped, Zinc-Coated, Welded and Seamless,~~ ASTM A53~~,~~ and ~~the Standard Specification for Electric-Resistance-Welded Steel Pipe,~~ ASTM A135;

c1) Steel tubing made in accordance with ~~Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes,~~ ASTM A500, with a minimum wall thickness at least equivalent to schedule 40 steel pipe of the same size; or

d) Class 200 polyvinyl chloride (PVC) pipe in accordance with ~~the Standard for Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 4 inch through 12 inch for Water Distribution,~~ AWWA C-900, for the lower barrel of indicator posts for underground use.

11A Indicator Post With Reducing Gears

11A.1 Indicator posts with reducing gears and gear shafts used to provide a mechanical advantage for valve operation shall be made of materials having strength and resistance to corrosion at least equivalent to cast iron or steel.

11A.2 Indicator post gearing shall be enclosed in a sealed case or housing with a protective grease lubricant to prevent contamination of the gear operating mechanism.

11A.3 The indicator post gear housing shall be made of a material having physical and corrosion resistant properties at least equivalent to 0.23 inch (6 mm) thick cast iron or steel.

11A.4 Indicator posts with reducing gears shall not be permitted to be used with valves 8 inch and smaller sizes.

Table 13.1
~~Torque requirements~~ Strength of Parts Test Torque

Wrench length		Handwheel diameter		Minimum torque	
inches	(mm)	inches	(mm)	~~foot-pounds~~ lbf-ft	(N·m)
12	(305)	-	-	260	(~~352~~353)
13	(330)	-	-	290	(393)
14	(356)	-	-	325	(~~440~~441)
15	(381)	-	-	375	(508)

16	(407)	14	(356)	450	(610)
17	(432)	15	(381)	540	(732)
18	(457)	16	(407)	640	(~~867~~868)
19	(483)	17	(432)	760	(1030)
20	(508)	18	(457)	900	(1220)

15A Output Torque Test

15A.1 An indicator post constructed with reducing gears to provide a mechanical advantage for valve operation shall provide an output torque suitable for the valve sizes it is intended for use with when tested in accordance with Section 15A.2 through 15A.6.

15A.2 The indicator post sample shall be securely mounted with means to measure the input and output torques.

15A.3 The input torque shall be determined based on the indictor post wrench length or handwheel diameter as specified in Table 15A.1.

15A.4 The specified input torque shall be applied to the indicator post wrench or to the handwheel by a torque wrench or equivalent device.

15A.5 The output torque shall be measured based on the input torque in 15A.4.

15A.6 The output torque measured shall be within output torque range specified in Table 15A.2 for the valve sizes that the indicator post is specified for use with.

Table 15A.1
Input Torque

Wrench length		Handwheel diameter		Input torque	
Inches	**(mm)**	**Inches**	**(mm)**	**lbf-ft**	**(N·m)**
12	305	-	-	227	(308)
13	330	-	-	240	(325)
14	356	-	-	256	(347)
15	381	-	-	277	(376)
16	406	14	(356)	289	(392)
17	432	15	(381)	296	(401)
18	457	16	(406)	338	(458)
19	483	17	(432)	347	(470)
20	508	18	(457)	367	(498)

Table 15A.2
Output Torque Range

Nominal valve size nonrising stem		Output torque range			
		Minimum[a]		Maximum	
Inches	(mm)	lbf-ft	(N-M)	lbf-ft	(N-M)
10	(250)	185	(251)	278	(377)
12	(300)	225	(305)	338	(458)
14	(350)	225	(305)	338	(458)
16	(400)	275	(373)	413	(560)
18	(450)	325	(441)	488	(662)
20	(500)	375	(508)	563	(763)
22	(550)	425	(576)	638	(865)
24	(600)	475	(644)	713	(967)
30	(750)	625	(847)	938	(1272)
36	(900)	775	(1051)	1163	(1576)

[a] These values align with the UL 262 maximum closing torque values for the leakage test for a given valve size.

15B Gear Enclosure Leakage Test

15B.1 An indicator post containing a gear enclosure that utilizes reducing gears to provide a mechanical advantage in valve operation shall show no signs of leakage in the gear enclosure when tested in accordance with 15B.2 through 15B.4.

15B.2 An indicator post containing the gear enclosure or representative sample of the enclosure shall be submerged in water.

15B.3 An external water pressure of at least a water head of 10 feet (3 m) or at least 4.33 psi (30 kPa) shall be applied to the exterior of the enclosure assembly for a minimum of 72 hours.

15B.4 After the exposure duration the enclosure shall be removed and inspected for leakage.

INSTRUCTIONS

17 General

17.1 The installation instructions for an indicator post shall be provided with each shipment and shall include at least the following:

a) Distinctive model number, catalog designation, or the equivalent of the models covered by the instructions;

b) Instructions for installation of the indicator post and connection to the valve;

c) The specific UL 262 nonrising stem gate valve sizes that the product is intended to be used with;

d) Reference to the installation and use in accordance with NFPA 11, NFPA 13, NFPA 14, or NFPA 24;

e) Statement that the valve is intended to be inspected, tested, and maintained in accordance with NFPA 25; and

f) For indicator posts with reducing gears, a statement that indicator posts with reducing gears shall not be used with valves that also contain reducing gears as part of the valve.

17.2 The installation instructions shall be permitted to be provided in a physical form (hard copy) or readily accessible in electronic format by reference to a website (web URL), a matrix bar code (QR Code), or another equivalent reference marked on the product or packaging.