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American National Standards

Call for comment on proposals listed

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

Ordering Instructions for "Call-for-Comment" Listings

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

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

* Standard for consumer products

Comment Deadline: December 22, 2019

API (American Petroleum Institute)

Supplement

BSR/API RP 10B-6/ISO 10426-6-2008, Addendum 1-202x, Recommended Practice on Determining the Static Gel Strength of Cement Formulations (supplement to ANSI/API RP 10B-6/ISO 10426-6-2010 (R2015))

Specifies requirements and provides test methods for the determination of static gel strength (SGS) of cement slurries and related materials under simulated well conditions.

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

Send comments (with optional copy to psa@ansi.org) to: rouechej@api.org

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

Addenda

BSR/ASHRAE/ASHE Addendum 170L-202x, Ventilation of Health Care Facilities (addenda to ANSI/ASHRAE/ASHE Addendum 170L-2012)

Proposed Addendum L continues the process of reorganizing the standard into three components - Hospital, Outpatient, and Residential Health Care and Support in alignment with the FGI Guidelines' transition to three separate standards. There are five edits of definitions, one each for edits in Chapters 7, 8, and 9 along with specific line (row) edits in Table 7.1. The addendum also revises the space name definitions and process definitions, table organization, and subheadings to better correlate with the 2018 FGI Guidelines for Design and Construction of Hospitals, including the addition of paragraph numbers after each space name.

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

Send comments (with optional copy to psa@ansi.org) to: Online Comment Database at <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

NSF (NSF International)

Revision

BSR/NSF 49-202x (i92r9), Biosafety Cabinetry - Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2019)

This Standard applies to Class II (laminar flow) biosafety cabinetry designed to minimize hazards inherent in work with agents assigned to biosafety levels 1, 2, 3, or 4. It also defines the tests that shall be passed by such cabinetry to meet this Standard. This Standard includes basic requirements for the design, construction, and performance of biosafety cabinets (BSCs) that are intended to provide personnel, product, and environmental protection; reliable operation; durability and structural stability; cleanability; limitations on noise level; illumination; vibration; and motor/blower performance.

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

Send comments (with optional copy to psa@ansi.org) to: arose@nsf.org

UL (Underwriters Laboratories, Inc.)

New Standard

BSR/UL 2849-202x, Standard for Safety for Electrical Systems for eBikes (new standard)

This Standard covers the electrical system of eBikes including both Electrically Power Assisted Cycle (EPAC – pedal assist) and non-pedal assist eBike types. The electrical systems may include onboard components and off board components of eBikes. As a minimum, the electrical system consists of the battery, battery management system (BMS), interconnecting wiring, and power inlet. Any additional components or systems required to demonstrate compliance are included based on the overall system application. Off-board components include dedicated chargers for charging batteries that are removed from the eBike during charging or dedicated chargers for charging batteries that are in place on the eBike during charging. This Standard does not cover the mechanical structure of the eBike unless specified otherwise.

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

Send comments (with optional copy to 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>

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 588-202x, Standard for Safety for Seasonal and Holiday Decorative Products (revision of ANSI/UL 588-2018)

This Proposal includes (1) string light flexible cord temperature ratings and (2) cord tag instruction location.

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

Send comments (with optional copy to 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>

BSR/UL 1069-202x, Standard for Safety for Hospital Signaling and Nurse Call Equipment (revision of ANSI/UL 1069-2019)

This proposal for UL 1069 covers: (1) Revisions to Nurse Call System (NCS) fundamentals and glossary, and additional requirements for a shared clinical IT network.

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

Send comments (with optional copy to 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>

BSR/UL 1323-202x, Standard for Scaffold Hoists (revision of ANSI/UL 1323-2014 (R2019))

(1) Requirements for batteries as the primary power source.

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

Send comments (with optional copy to 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>

Comment Deadline: January 6, 2020

ASC X9 (Accredited Standards Committee X9, Incorporated)

Revision

BSR X9.129-202x, Electronic File Format Standards for Presentment and Remittance of Legal Orders (revision of ANSI X9.129-2017)

In today's environment legal orders are generated in a large number of formats by a variety of different government agencies. These documents are then mailed to the bank for processing. When the bank receives the requests (mail, fax, spreadsheet) the process for fulfilling them is highly manual, which is time consuming and can be prone to errors, and there are limited areas where automation is applied. In most cases, the basic types of information, required for processing, are the same across the different request types. By creating a set of standards for electronic file formats for the different request types, benefits will be realized by both the requester and the receiver through automation of the process.

Single copy price: \$100.00

Order from: Ambria Frazier, (410) 267-7707, Ambria.frazier@x9.org

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

ASSP (Safety) (American Society of Safety Professionals)

Revision

BSR/ASSP Z359.1-202x, The Fall Protection Code (revision and redesignation of ANSI/ASSE Z359.1-2016)

The Fall Protection Code is a set of standards that covers program management; system design; training; qualification and testing; equipment, component and system specifications for the processes used to protect workers at height in a managed fall protection program. This standard identifies those requirements and establishes their role in the Code and their interdependence.

Single copy price: Free

Obtain an electronic copy from: OMunteanu@assp.org

Order from: Ovidiu Munteanu, (847) 699-2929, OMunteanu@ASSP.org

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

ATIS (Alliance for Telecommunications Industry Solutions)

Reaffirmation

BSR ATIS 0300240-2014 (R202x), Operations, Administration, Maintenance, and Provisioning (OAM&P) - Generic Network Information Model for Interfaces between Operations Systems and Network Elements (reaffirmation of ANSI ATIS 0300240-2014)

This standard is part of a series of standards that specifies interface requirements for the interface between Operations Systems (OSs) and Network Elements (NEs), describing a generic network model needed to develop Operations, Administration, Maintenance and Provisioning (OAM&P) application message standards for modern telecommunications networks. The term, generic, is used in this document to imply that the managed object classes and their properties described are applicable across different telecommunications technologies (e.g., SONET, ISDN) for the various OAM&P functions defined in ATIS 0300210. The major focus of this standard is alignment with the set of standardization efforts in ITU-T and ISO in the area of Network Management.

Single copy price: \$175.00

Obtain an electronic copy from: dgreco@atis.org

Send comments (with optional copy to psa@ansi.org) to: dgreco@atis.org

ATIS (Alliance for Telecommunications Industry Solutions)

Revision

BSR/ATIS 0300213-202x, Structure for the Identification of Equipment Entities for Information Exchange (revision of ANSI ATIS 0300213-2014)

This standard addresses the code and its format structure providing for uniform data representation necessary to provide a standard form of coded identification of equipment entities for the purpose of efficient information exchange related to the interconnection and interoperability of communications networks.

Single copy price: \$60.00

Obtain an electronic copy from: dgreco@atis.org

Send comments (with optional copy to psa@ansi.org) to: dgreco@atis.org

BSR/ATIS 0300223-202x, Structure for the Identification of Network Channel (NC) and Network Channel Interface (NCI) Codes for Information Exchange (revision of ANSI/ATIS 0300223-2014)

This standard provides the specifications and characteristics of Network Channel (NC) and Network Channel Interface (NCI) codes. This standard contains clauses that cover its purpose and scope, and describe format structures and data elements for network channel and network channel interface codes. It also contains definitions and references. Its intended use is to provide a standard that facilitates information exchange among humans and machines.

Single copy price: \$60.00

Obtain an electronic copy from: dgreco@atis.org

Send comments (with optional copy to psa@ansi.org) to: dgreco@atis.org

BSR/ATIS 0300251-202x, Structure for the Representation of Service Providers for Information Exchange (revision of ANSI/ATIS 0300251-2017)

This standard defines the format and structure of data elements necessary to provide a structure for the representation of service providers for information exchange.

Single copy price: \$60.00

Obtain an electronic copy from: dgreco@atis.org

Send comments (with optional copy to psa@ansi.org) to: dgreco@atis.org

BSR/ATIS 0300253-202x, Structure for the Representation of Location Entities for Information Exchange (revision of ANSI/ATIS 0300253-2016)

This standard defines the format and structure of data elements and the overall code necessary to provide a structure for the representations of location entities for the purpose of efficient information exchange.

Single copy price: \$60.00

Obtain an electronic copy from: dgreco@atis.org

Send comments (with optional copy to psa@ansi.org) to: dgreco@atis.org

BSR/ATIS 0600010.01-202x, Temperature, Humidity, Altitude, and Salt Fog Requirements for Information and Communications Technology (ICT) Equipment Utilized in Outside Plant Environments (revision of ANSI/ATIS 0600010.01-2017)

This standard covers the minimum temperature, humidity, altitude, and salt fog criteria for ICT equipment to be installed and utilized by service providers in Outside Plant (OSP) environments. These environments include those in OSP cabinet enclosure, pedestals, etc.

Single copy price: \$145.00

Obtain an electronic copy from: dgreco@atis.org

Send comments (with optional copy to psa@ansi.org) to: dgreco@atis.org

BSR/ATIS 0600010-202x, Temperature, Humidity, and Altitude Requirements for Information and Communications Technology (ICT) Equipment Utilized in Controlled Environmental Spaces (revision of ANSI ATIS 0600010-2014)

This standard covers the minimum temperature, humidity, and altitude criteria for telecommunications network equipment to be installed and utilized by service providers in controlled environmental spaces (e.g., Carrier Communication Spaces, COs, MTSOs, Huts, CEVs, and customer premises). It describes test methodologies and test report criteria necessary for proper evaluation by interested parties, and those intending to deploy equipment in such environments. The expectation is that equipment will continue to function properly and without any unexpected degradation of performance when placed in the temperature and humidity controlled environmental spaces defined in the standard. Equipment is also expected to function properly after exposure to other environmental stresses, such as experienced in high-altitude applications and during storage and transportation.

Single copy price: \$110.00

Obtain an electronic copy from: dgreco@atis.org

Send comments (with optional copy to psa@ansi.org) to: dgreco@atis.org

AWS (American Welding Society)

Revision

BSR/AWS A2.4-202x, Standard Symbols for Welding, Brazing, and Nondestructive Examination (revision of ANSI/AWS A2.4-2012)

This standard establishes a method for specifying certain welding, brazing, and nondestructive examination information by means of symbols, including the examination method, frequency, and extent. Detailed information and examples are provided for the construction and interpretation of these symbols.

Single copy price: \$172.00

Obtain an electronic copy from: sborrero@aws.org

Order from: sborrero@aws.org

Send comments (with optional copy to psa@ansi.org) to: adavis@aws.org

BSR/AWS G2.4/G2.4M-202x, Guide for the Fusion Welding of Titanium and Titanium Alloys (revision of ANSI/AWS G2.4/G2.4M -2014)

The standard Guide for the Fusion Welding of Titanium and Titanium Alloys provides instructional guidance for the welding of titanium and titanium alloys. This guide explains processes, equipment, materials, workshop practices, joint preparation, welding technique, tests, and the repair of discontinuities.

Single copy price: \$38.00

Obtain an electronic copy from: sborrero@aws.org

Order from: sborrero@aws.org

Send comments (with optional copy to psa@ansi.org) to: adavis@aws.org

AWWA (American Water Works Association)

Revision

BSR/AWWA D115-202x, Tendon-Prestressed Concrete Water Tanks (revision, redesignation and consolidation of ANSI/AWWA D115 -2017)

This standard describes current and recommended practice for the design, construction, and field observations of concrete tanks using internal tendons for prestressing. This standard applies to containment structures for use with potable water, raw water, or wastewater.

Single copy price: Free

Obtain an electronic copy from: ETSupport@awwa.org

Order from: AWWA, Attn: Vicki David, vdavid@awwa.org

Send comments (with optional copy to psa@ansi.org) to: AWWA, Attn: Paul J. Olson, polson@awwa.org

CAGI (Compressed Air and Gas Institute)

New Standard

BSR/CAGI B186.1-202x, Safety Code for Portable Air Tools (new standard)

This code applies to the safety related aspects of the design, construction, installation, operation, and maintenance of portable, hand-held, air tools.

Single copy price: Free

Obtain an electronic copy from: cagi@cagi.org

Order from: Leslie Schraff, (216) 241-7333, cagi@cagi.org

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

FCI (Fluid Controls Institute)

New Standard

BSR/FCI 18-2-202x, Standard for Installation of Type 1 Secondary Pressure Drainers (new standard)

The purpose of this standard is to help define the information required for proper installation of Type 1 Secondary Pressure Drainers (SPD) within systems utilizing steam for heat transfer.

Single copy price: Free

Obtain an electronic copy from: fci@fluidcontrolsintitute.org

Send comments (with optional copy to psa@ansi.org) to: Leslie Schraff, fci@fluidcontrolsintitute.org

IES (Illuminating Engineering Society)

New Standard

BSR/IES LM-45-202x, Approved Method: Electrical and Photometric Measurement of General Service Incandescent Filament Lamps (new standard)

This Approved Method describes the procedures to be followed and the precautions to be observed in obtaining uniform and reproducible measurements of the electrical and photometric characteristics of general service incandescent filament lamps under standard conditions. Measurement of incandescent reflector lamps is not included in this Approved Method.

Single copy price: \$25.00

Obtain an electronic copy from: pmcgillicuddy@ies.org

Order from: Patricia McGillicuddy, (917) 913-0027, pmcgillicuddy@ies.org

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

NEMA (ASC C18) (National Electrical Manufacturers Association)

New Standard

BSR C18.5M Part 1-202x, Standard for Portable Lithium Rechargeable Cells and Batteries - General and Specifications (new standard)

This publication applies to portable rechargeable, or secondary, lithium cells and batteries. This document covers secondary lithium cells and batteries with a range of chemistries. Each electrochemical couple has a characteristic voltage range over which it releases its electrical capacity, a characteristic nominal voltage and a characteristic final voltage during discharge. See Table 1 for further details of the electrochemical systems included in the scope of this standard. This document defines a minimum required level of performance and a standardized methodology by which testing is performed and the results of this testing reported to the user.

Single copy price: \$142.00

Order from: Communications@nema.org

Send comments (with optional copy to psa@ansi.org) to: khaled.masri@nema.org

NEMA (ASC C18) (National Electrical Manufacturers Association)

Revision

BSR C18.5M Part 1-202x, Standard for Portable Lithium Rechargeable Cells and Batteries - General and Specifications (revision and partition of ANSI C18.2M, Part 1-2013)

This publication applies to portable rechargeable, or secondary, lithium cells and batteries. This document covers secondary lithium cells and batteries with a range of chemistries. Each electrochemical couple has a characteristic voltage range over which it releases its electrical capacity, a characteristic nominal voltage and a characteristic final voltage during discharge. See Table 1 for further details of the electrochemical systems included in the scope of this standard.

Single copy price: \$142.00

Obtain an electronic copy from: khaled.masri@nema.org

Order from: Communications@nema.org

Send comments (with optional copy to psa@ansi.org) to: khaled.masri@nema.org

NEMA (ASC C84) (National Electrical Manufacturers Association)

Revision

BSR C84.1-202x, Standard for Electric Power Systems and Equipment - Voltage Ratings (60 Hertz) (revision of ANSI C84.1-2016)

This standard establishes nominal voltage ratings and operating tolerances for 60Hz electric power systems above 100 volts. It also makes recommendations to other standardizing groups with respect to voltage ratings for equipment used on power systems and for utilization devices connected to such systems. This standard includes preferred voltage ratings up to and including 1200 kV maximum system voltage, as defined in the standard. In defining maximum system voltage, voltage transients and temporary overvoltages caused by abnormal system conditions such as faults, load rejection, and the like are excluded. However, voltage transients and temporary overvoltages may affect equipment operating performance and are considered in equipment application.

Single copy price: \$111.00

Obtain an electronic copy from: khaled.masri@nema.org

Order from: Communications@nema.org

Send comments (with optional copy to psa@ansi.org) to: khaled.masri@nema.org

SJI (Steel Joist Institute)

Revision

BSR/SJI 100-202x, Standard Specifications, Load Tables for Steel Joists and Joist Girders - 45th Edition K-Series, LH-Series, DLH-Series, Joist Girders (revision and redesignation of ANSI/SJI 100-2015)

The Steel Joist Institute determined that the Load Tables for LH-Series Joists could be expanded to accommodate use for floor framing that was outside the current scope. In addition to the Load Table expansion, the Specifications for these products as well as bridging requirements will be reviewed and edited where necessary. Additionally, the table layout will be changed to follow the K-Series Load Tables with joist size across the top of the table and the joist length down the side of the table.

Single copy price: \$50.00

Obtain an electronic copy from: kcharles@steeljoist.org

Order from: Sharon Jack 140 W. Evans Street, Suite 203, Florence, SC 29501

Send comments (with optional copy to psa@ansi.org) to: kcharles@steeljoist.org

TIA (Telecommunications Industry Association)

Addenda

BSR/TIA 102.AACA-A-1-202x, Project 25 - Digital Radio - Over-The-Air-Rekeying (OTAR) Messages and Procedures - Addendum 1 (addenda to ANSI/TIA 102.AACA-A-2014)

This addendum provides clarifications to the key selection rules for encrypted communications when a single key radio and a multi-key radio are both engaged in the same protected call.

Single copy price: \$65.00

Obtain an electronic copy from: standards@tiaonline.org

Order from: TIA; standards@tiaonline.org

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

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

ANSI/UL 294B-2013, Standard for Safety for Power over Ethernet (PoE) Power Sources for Access Control Systems and Equipment (withdrawal of ANSI/UL 294B-2013)

UL proposes the withdrawal of ANSI/UL 294B-2013.

Single copy price: Free

Obtain an electronic copy from: <https://csds.ul.com/Home/ProposalsDefault.aspx>

Order from: <http://www.shopulstandards.com>

Send comments (with optional copy to 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>

Comment Deadline: January 21, 2020

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

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

BSR/UL 510-202x, Standard for Safety for Polyvinyl Chloride, Polyethylene, and Rubber Insulating Tape (new standard)

UL is proposing a tenth edition of the Standard for Polyvinyl Chloride, Polyethylene, and Rubber Insulating Tape, ANSI/CAN/UL 510, as an American National Standard and a National Standard of Canada. In the US, this Standard covers: (a) Thermoplastic and rubber tapes for use as electrical insulation at not more than 600 V and at 80°C (176°F) and lower temperatures on joints and splices in wires and cables in accordance with NFPA 70. It is intended that rubber tape on a joint or splice be mechanically protected by a covering such as friction tape. Thermoplastic tape is acceptable without the additional mechanical protection. (b) The characteristic constituent of the thermoplastic tape covered in this Standard is either PVC (polyvinyl chloride or a copolymer of vinyl chloride and vinyl acetate), or PE (thermoplastic polyethylene). In Canada, this Standard covers: (a) Thermoplastic and rubber tapes for use as electrical insulation at not more than 600 V and 80°C (176°F) on joints and splices in wire and cables in accordance with CSA C22.1. It is intended that rubber tape on a joint or splice be mechanically protected by a covering such as friction tape. Thermoplastic tape is acceptable without the additional mechanical protection. (b) The characteristic constituent of the thermoplastic tape covered in this Standard is PE (thermoplastic polyethylene). Requirements for PVC tape are covered by CSA C22.2 No. 197.

Single copy price: Free

Obtain an electronic copy from: <https://csds.ul.com/Home/ProposalsDefault.aspx>

Order from: <http://www.shopulstandards.com>

Send comments (with optional copy to 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>

BSR/UL 510A-202x, Standard for Safety for Component Tapes (new standard)

UL is proposing the second edition of the Standard for Safety for Component Tapes, ANSI/CAN/UL 510A as an American National Standard and National Standard of Canada. The standard covers adhesive- and non-adhesive-backed tapes intended for use with finished electromechanical products.

Single copy price: Free

Obtain an electronic copy from: <https://csds.ul.com/Home/ProposalsDefault.aspx>

Order from: <http://www.shopulstandards.com>

Send comments (with optional copy to 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>

Technical Reports Registered with ANSI

Technical Reports Registered with ANSI are not consensus documents. Rather, all material contained in Technical Reports Registered with ANSI is informational in nature. Technical reports may include, for example, reports of technical research, tutorials, factual data obtained from a survey carried out among standards developers and/or national bodies, or information on the "state of the art" in relation to standards of national or international bodies on a particular subject.

Immediately following the end of a 30-day announcement period in Standards Action, the Technical Report will be registered by ANSI. Please submit any comments regarding this registration to the organization indicated, with a copy to the PSA Center, American National Standards Institute, 25 West 43rd Street, New York, NY 10036 or E-Mail to psa@ansi.org.

Comment Deadline: December 22, 2019

AAMI (Association for the Advancement of Medical Instrumentation)

AAMI/ISO 13485:2016 Handbook, AAMI/ISO 13485:2016 Medical Devices - A Practical Guide (technical report)

Provides guidance on the application of requirements contained in ISO 13485:2016, including detailed guidance related to process validation, design control, and quality planning (Handbook).

Single copy price: \$96.00 (AAMI Members); \$134.00 (List Price)

Order from: <https://my.aami.org/store/detail.aspx?id=13485-ISO-PDF>

Send comments (with optional copy to psa@ansi.org) to: Will Vargas, (703) 647-2779, wvargas@aami.org

AAMI/ISO/IEC Guide 63/Ed.3, Guide to the development and inclusion of safety aspects in International Standards for medical devices (revise technical report)

This document provides requirements and recommendations to writers of medical device standards on the inclusion of aspects related to safety in International Standards, based on well-established risk management concepts and methodology. This document is applicable to any aspect related to the safety of people, property, the environment, or a combination of these. In this document, the term "product" includes a medical device or a system consisting of one or more medical devices, possibly combined with non-medical devices.

Single copy price: \$110.40 (AAMI Members); \$134.00 (List)

Order from: www.aami.org

Send comments (with optional copy to psa@ansi.org) to: Will Vargas, (703) 647-2779, wvargas@aami.org

Project Withdrawn

In accordance with clause 4.2.1.3.3 Discontinuance of a standards project of the ANSI Essential Requirements, an accredited standards developer may abandon the processing of a proposed new or revised American National Standard or portion thereof if it has followed its accredited procedures. The following projects have been withdrawn accordingly:

SCTE (Society of Cable Telecommunications Engineers)

BSR/SCTE IPS SP 705-201x, Device Specifications Standard (new standard)

Inquiries may be directed to Rebecca Yaletchko, (484) 252-2330, ryaletchko@scte.org; mdigregorio@scte.org

BSR/SCTE IPS SP 915-201x, DWDM aggregation for TDM POM (new standard)

Inquiries may be directed to Rebecca Yaletchko, (484) 252-2330, ryaletchko@scte.org; mdigregorio@scte.org

BSR/SCTE IPS TP 023-201x, Tri-axial Test Method for Determining Shielding Effectiveness of Flexible RF Cable (new standard)

Inquiries may be directed to Rebecca Yaletchko, (484) 252-2330, ryaletchko@scte.org; mdigregorio@scte.org

Call for Members (ANS Consensus Bodies)

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

AAMI (Association for the Advancement of Medical Instrumentation)

Contact: Amanda Benedict
Phone: (703) 253-8284
E-mail: abenedict@aami.org
Office: 901 N. Glebe Road, Suite 300
 Arlington, VA 22203

BSR/AAMI ST108-202x, Water for the processing of reusable medical devices (new standard)

API (American Petroleum Institute)

Contact: Jacqueline Roueche
Phone: (202) 682-8286
E-mail: RouecheJ@api.org
Office: 1220 L Street, NW
 Washington, DC 20005

BSR/API RP 10B-6/ISO 10426-6-2008, Addendum 1-202x, Recommended Practice on Determining the Static Gel Strength of Cement Formulations (supplement to ANSI/API RP 10B-6/ISO 10426-6-2010 (R2015))

ATIS (Alliance for Telecommunications Industry Solutions)

Contact: Drew Greco
Phone: (202) 628-6380
E-mail: dgreco@atis.org
Office: 1200 G Street NW
 Suite 500
 Washington, DC 20005

BSR/ATIS 0600010.01-202x, Temperature, Humidity, Altitude, and Salt Fog Requirements for Information and Communications Technology (ICT) Equipment Utilized in Outside Plant Environments (revision of ANSI/ATIS 0600010.01-2017)

BSR/ATIS 0600010-202x, Temperature, Humidity, and Altitude Requirements for Information and Communications Technology (ICT) Equipment Utilized in Controlled Environmental Spaces (revision of ANSI ATIS 0600010-2014)

CAGI (Compressed Air and Gas Institute)

Contact: Leslie Schraff
Phone: (216) 241-7333
E-mail: cagi@cagi.org
Office: 1300 Sumner Avenue
 Cleveland, OH 44115

BSR/CAGI B186.1-202x, Safety Code for Portable Air Tools (new standard)

CEMA (Conveyor Equipment Manufacturers Association)

Contact: Naylu Garces
Phone: (239) 260-8009
E-mail: naylu@cemanet.org
Office: 5672 Strand Court
 Suite 2
 Naples, FL 34110

BSR/CEMA Standard No. 404-2003 (R202x), Chain Driven Live Roller Conveyors (reaffirmation and redesignation of ANSI/CEMA 404-2003 (R2015))

BSR/CEMA Standard No. 405-2003 (R202x), Slat Conveyors (reaffirmation of ANSI/CEMA 405-2003 (R2015))

BSR/CEMA Standard No. 406-202x, Lineshaft Driven Live Roller Conveyors (revision and redesignation of ANSI/CEMA 406-2003 (R2015))

FCI (Fluid Controls Institute)

Contact: Leslie Schraff
Phone: (216) 241-7333
E-mail: fci@fluidcontrolsinstitute.org
Office: 1300 Sumner Avenue
 Cleveland, OH 44115

BSR/FCI 18-2-202x, Standard for Installation of Type 1 Secondary Pressure Drainers (new standard)

IES (Illuminating Engineering Society)

Contact: Patricia McGillicuddy
Phone: (917) 913-0027
E-mail: pmcgillicuddy@ies.org
Office: 120 Wall Street, Floor 17
 New York, NY 10005

BSR/IES LM-45-202x, Approved Method: Electrical and Photometric Measurement of General Service Incandescent Filament Lamps (new standard)

BSR/IES LM-61-202x, Approved Method: Identifying Operating Factors
Influencing Measured vs. Predicted Performance for Installed
Outdoor High Intensity Discharge (HID) Luminaires (new standard)

BSR/IES LM-66-202x, Approved Method: Electrical and Photometric
Measurements of Single-Based Fluorescent Lamps (new standard)

NEMA (ASC C136) (National Electrical Manufacturers Association)

Contact: David Richmond
Phone: (703) 841-3234
E-mail: David.Richmond@nema.org
Office: 1300 North 17th Street
Suite 900
Rosslyn, VA 22209

BSR C136.15-202x, Roadway and Area Lighting Equipment - Luminaire
Field Identification (revision of ANSI C136.15-2015)

TIA (Telecommunications Industry Association)

Contact: Teesha Jenkins
Phone: (703) 907-7706
E-mail: standards@tiaonline.org
Office: 1320 North Courthouse Road
Suite 200
Arlington, VA 22201

BSR/TIA 102.AACA-A-1-202x, Project 25 - Digital Radio - Over-The-Air -
Rekeying (OTAR) Messages and Procedures - Addendum 1
(addenda to ANSI/TIA 102.AACA-A-2014)

BSR/TIA 1005-B-202x, Telecommunications Infrastructure Standard
for Industrial Premises (revision and redesignation of ANSI/TIA
1005-A-2012)

UL (Underwriters Laboratories, Inc.)

Contact: Griff Edwards
Phone: (919) 549-0956
E-mail: griff.edwards@ul.org
Office: 12 Laboratory Drive
Research Triangle Park, NC 27709-3995

BSR/UL 1323-202x, Standard for Scaffold Hoists (revision of ANSI/UL
1323-2014 (R2019))

Call for Members (ANS Consensus Bodies)

Call for Committee Members

ASC O1 – Safety Requirements for Woodworking Machinery

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

- General Interest
- Government
- Producer
- User

If you are interested in joining the ASC O1, contact WMMA Associate Director Jennifer Miller at jennifer@wmma.org.

Final Actions on American National Standards

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

AAMI (Association for the Advancement of Medical Instrumentation)

Revision

ANSI/AAMI ST72-2019, Bacterial endotoxin -Test methods, routine monitoring and alternatives to batch testing (revision of ANSI/AAMI ST72-2011 (R2016)): 11/19/2019

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

Addenda

ANSI/ASHRAE Addendum 62.1y-2019, Ventilation for Acceptable Indoor Air Quality (addenda to ANSI/ASHRAE Standard 62.1-2016): 11/5/2019

ANSI/ASHRAE Addendum a to ANSI/ASHRAE Standard 34-2019, Designation and Safety Classification of Refrigerants (addenda to ANSI/ASHRAE Standard 34-2016): 11/5/2019

ANSI/ASHRAE Addendum bj to ANSI/ASHRAE Standard 135-2019, BACnet - A Data Communication Protocol for Building Automation and Control Networks (addenda to ANSI/ASHRAE Standard 135-2016): 11/18/2019

ANSI/ASHRAE Addendum b to ANSI/ASHRAE Standard 34-2019, Designation and Safety Classification of Refrigerants (addenda to ANSI/ASHRAE Standard 34-2016): 11/5/2019

ANSI/ASHRAE Addendum by to ANSI/ASHRAE Standard 135-2019, BACnet - A Data Communication Protocol for Building Automation and Control Networks (addenda to ANSI/ASHRAE Standard 135-2016): 11/18/2019

ANSI/ASHRAE Addendum bz to ANSI/ASHRAE Standard 135-2019, BACnet - A Data Communication Protocol for Building Automation and Control Networks (addenda to ANSI/ASHRAE Standard 135-2016): 11/18/2019

ANSI/ASHRAE Addendum c to ANSI/ASHRAE Standard 34-2019, Designation and Safety Classification of Refrigerants (addenda to ANSI/ASHRAE Standard 34-2016): 11/5/2019

ANSI/ASHRAE Addendum d to ANSI/ASHRAE Standard 34-2019, Designation and Safety Classification of Refrigerants (addenda to ANSI/ASHRAE Standard 34-2016): 11/5/2019

ANSI/ASHRAE Addendum e to ANSI/ASHRAE Standard 34-2019, Designation and Safety Classification of Refrigerants (addenda to ANSI/ASHRAE Standard 34-2016): 11/5/2019

ANSI/ASHRAE Addendum g to ANSI/ASHRAE Standard 147-2013, Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems (addenda to ANSI/ASHRAE Standard 147-2013): 11/18/2019

ANSI/ASHRAE Addendum h to ANSI/ASHRAE Standard 147-2013, Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems (addenda to ANSI/ASHRAE Standard 147-2013): 11/18/2019

ANSI/ASHRAE Addendum i to ANSI/ASHRAE Standard 147-2013, Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems (addenda to ANSI/ASHRAE Standard 147-2013): 11/18/2019

ANSI/ASHRAE Addendum j to ANSI/ASHRAE Standard 147-2013, Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems (addenda to ANSI/ASHRAE Standard 147-2013): 11/18/2019

ANSI/ASHRAE Addendum k to ANSI/ASHRAE Standard 147-2013, Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems (addenda to ANSI/ASHRAE Standard 147-2013): 11/18/2019

ANSI/ASHRAE Addendum u to ANSI/ASHRAE Standard 34-2019, Designation and Safety Classification of Refrigerants (addenda to ANSI/ASHRAE Standard 34-2016): 11/5/2019

ASME (American Society of Mechanical Engineers)

Reaffirmation

ANSI/ASME EA-1-2009 (R2019), Energy Assessment for Process Heating Systems (reaffirmation of ANSI/ASME EA-1-2009 (R2014)): 11/15/2019

ANSI/ASME EA-3-2009 (R2019), Energy Assessment of Industrial Steam Systems (reaffirmation of ANSI/ASME EA-3-2009 (R2014)): 11/15/2019

ANSI/ASME RA-S-2008 (R2019), Standard for Level1/Large Early Release Frequency Probabilistic Risk Assessment for Nuclear Power Plant Applications (reaffirmation and consolidation of ANSI/ASME RA-S-2008, ANSI/ASME RA-Sa-2009, and ANSI/ASME RA-Sb-2010): 11/15/2019

Revision

ANSI/ASME Y14.38-2019, Abbreviations and Acronyms for Use on Drawings and Related Documents (revision of ANSI/ASME Y14.38-2007 (R2013)): 11/15/2019

ASTM (ASTM International)

Revision

ANSI/ASTM D5206-2019, Test Method for Windload Resistance of Rigid Plastic Siding (revision of ANSI/ASTM D5206-2013): 11/15/2019

ANSI/ASTM E177-2019, Practice for Use of the Terms Precision and Bias in ASTM Test Methods (revision of ANSI/ASTM E177-2014): 11/15/2019

ANSI/ASTM F1776-2019, Specification for Eye Protective Devices for Paintball Sports (revision of ANSI/ASTM F1776-2014): 11/15/2019

ATIS (Alliance for Telecommunications Industry Solutions)

Reaffirmation

ANSI ATIS 0600329-2014 (R2019), Network Equipment - Earthquake Resistance (reaffirmation of ANSI ATIS 0600329-2014): 11/19/2019

ANSI ATIS 0700724-2014 (R2019), UMTS Handover Interface for Lawful Interception (reaffirmation of ANSI ATIS 0700724-2014): 11/19/2019

ANSI/ATIS 0600015.08-2014 (R2019), Energy Efficiency for Telecommunications Equipment: Methodology for Measuring and Reporting for Small Network Equipment (reaffirmation of ANSI/ATIS 0600015.08-2014): 11/19/2019

Revision

ANSI/ATIS 0600029-2019, Standard for Irreversible Compression Lugs, Inline Splines, and Taps (revision of ANSI ATIS 0600029-2013): 11/19/2019

ANSI/ATIS 0600031-2019, (Pumped) Distributed Refrigerant Cooling - Standardized Infrastructure (revision of ANSI ATIS 0600031-2014): 11/19/2019

ANSI/ATIS 0600334-2019, Electrical Protection of Communications Towers and Associated Structures (revision of ANSI ATIS 0600334-2013): 11/19/2019

ANSI/ATIS 0600337-2019, Requirements for Maximum Voltage, Current, and Power Levels Used in Communications Circuits (revision of ANSI/ATIS 0600337-2016): 11/19/2019

Stabilized Maintenance

ANSI/ATIS 0700711-1999 (S2019), Number Portability for PCS 1900 Short Message Service and Other Services (stabilized maintenance of ANSI ATIS 0700711-1999 (R2014)): 11/19/2019

AWWA (American Water Works Association)

Revision

ANSI/AWWA C652-2019, Disinfection of Water-Storage Facilities (revision of ANSI/AWWA C652-2011): 11/12/2019

FCI (Fluid Controls Institute)

Reaffirmation

ANSI/FCI 4-1-2014 (R2019), Pressure Regulator Hydrostatic Shell Test Method (reaffirmation of ANSI/FCI 4-1-2014): 11/18/2019

Revision

ANSI/FCI 97-1-2019, Standard for Production Testing of Secondary Pressure Drainers (revision of ANSI/FCI 97-1-2013): 11/14/2019

IAPMO (International Association of Plumbing & Mechanical Officials)

Revision

ANSI/IAPMO UMC 1-2021, Uniform Mechanical Code (revision of ANSI/IAPMO UMC 1-2018): 11/14/2019

ANSI/IAPMO UPC 1-2021, Uniform Plumbing Code (revision of ANSI/IAPMO UPC 1-2018): 11/14/2019

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

New Standard

INCITS 543-2019, Information technology - Fibre Channel - Physical Interfaces - 7 (FC-PI-7) (new standard): 11/15/2019

NEMA (ASC C37) (National Electrical Manufacturers Association)

Revision

ANSI C37.58-2019, Indoor AC Medium-Voltage Switches for Use in Metal-Enclosed Switchgear Conformance Test Procedures (revision of ANSI C37.58-2003 (R2010)): 11/15/2019

NSF (NSF International)

Revision

ANSI/NSF 49-2019 (i138r1), Biosafety Cabinetry - Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2018): 11/11/2019

PHTA (Pool and Hot Tub Alliance)

Revision

ANSI/APSP/ICC 14-2019, Standard for Portable Electric Spa Energy Efficiency (revision of ANSI/APSP/ICC-14 2014): 11/19/2019

SDI (ASC A250) (Steel Door Institute)

Revision

ANSI A250.3-2019, Test Procedure and Acceptance Criteria for Factory Applied Finish Coatings for Steel Doors and Frames (revision of ANSI A250.3-2007 (R2011)): 11/14/2019

UL (Underwriters Laboratories, Inc.)

Reaffirmation

ANSI/UL 644-2014 (R202x), Standard for Safety for Container Assemblies for LP-Gas (reaffirmation of ANSI/UL 644-2014): 11/12/2019

Revision

ANSI/UL 174-2019a, Standard for Safety for Household Electric Storage Tank Water Heaters (revision of ANSI/UL 174-2019): 11/15/2019

ANSI/UL 1446-2019b, Standard for Safety for Systems of Insulating Materials - General (revision of ANSI/UL 1446-2019): 11/13/2019

ANSI/UL 2227-2019, Standard for Safety for Overfilling Prevention Devices (revision of ANSI/UL 2227-2014): 11/12/2019

Project Initiation Notification System (PINS)

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

Following is a list of proposed actions and new ANS that have been received recently from ASDs. Please also review the section in Standards Action entitled "American National Standards Maintained Under Continuous Maintenance" for additional or comparable information with regard to standards maintained under the continuous maintenance option. 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 affected interests wishing to receive more information or to submit comments are requested to contact the standards developer directly within 30 days of the publication of this announcement.

AAMI (Association for the Advancement of Medical Instrumentation)

Contact: Amanda Benedict, (703) 253-8284, abenedict@aami.org
901 N. Glebe Road, Suite 300, Arlington, VA 22203

New Standard

BSR/AAMI ST108-202x, Water for the processing of reusable medical devices (new standard)

Stakeholders: Medical device manufacturers, testing laboratories, health care facilities, health care sterile processing professionals, regulatory agencies, consultants.

Project Need: Water quality has been established as a critical variable for processing reusable medical devices in multiple sections of various AAMI standards, including ANSI/AAMI ST79:2017 and ANSI/AAMI ST91:2015. As a result of this, the consensus body decided to advance the current technical information report, AAMI TIR34:2014/(R)2017, to a standard to provide binding requirements. This action is proposed to enable the sterile processing end user to have more leverage in obtaining water of the quality necessary to effectively process reusable medical devices with decreased staining or corrosion, thus advancing patient care. At this time, there are no reference standards for water quality for reusable medical device processing, with only AAMI TIR34 as the non-binding reference. Being a TIR, it cannot create requirements. Other countries, notably Germany and the UK, have water-quality requirements from national health authorities. The US has this need as well, and the proposed standard will provide these requirements.

This standard establishes minimum requirements for the appropriate grades of water used at different points in the processing sequence for medical devices to make them ready for the next patient use. These requirements are established to help ensure successful processing concerning cleaning, disinfection, and sterilization outcomes and to minimize the chance of device damage during processing. In addition to setting minimum requirements, the standard provides background on the effects of various waterborne contaminants on medical devices and the efficacy of processing. Methods for measurement of these contaminants are provided so as to be able to monitor and control them to stay within the stated requirements.

ABYC (American Boat and Yacht Council)

Contact: Sara Moulton, (410) 990-4460, smoulton@abycinc.org
613 Third Street, Suite 10, Annapolis, MD 21403

Revision

BSR/ABYC A-33-202x, Emergency Engine/Propulsion Cut-Off Devices (revision of ANSI/ABYC A-33-2018)

Stakeholders: Surveyors, consumers, insurance personnel, boat manufacturers, engine manufacturers, accessory manufacturers, government, service specialists, and trade associations.

Project Need: This standard is a guide for the design, construction, installation, and performance of devices used to disable the propulsion system when the operator is unexpectedly displaced from the boat and may include provisions to alert the operator when passengers are unexpectedly displaced from the boat.

This standard applies to all recreational boats less than 26 feet capable of developing 115 pounds or more of static thrust; all mechanically powered boats equipped with devices that disable propulsion when the operator is unexpectedly displaced from the boat; and boats equipped with a warning system for passengers unexpectedly displaced from the boat.

ANS (American Nuclear Society)

Contact: Kathryn Murdoch, (708) 579-8268, kmurdoch@ans.org
555 North Kensington Avenue, La Grange Park, IL 60526

Revision

BSR/ANS 8.22-202x, Nuclear Criticality Safety Based on Limiting and Controlling Moderators (revision of ANSI/ANS 8.22-1997 (R2016))

Stakeholders: Government and commercial facilities that process, store, transport, and handle significant amounts of fissile material outside reactors (DOE, NNSA, NRC, Contractors to DOE and NRC).

Project Need: A revision is needed to reduce duplication and ensure terminology consistency with other ANS standards on nuclear criticality safety, update moderator control requirements, and update references. The standard's recommendations and requirements will be reviewed against other ANS-8 standards to ensure needed updates are included.

This standard provides criteria for limiting and controlling moderators in operations with fissile materials. This standard applies to those operations that depend on moderator control for maintaining subcritical conditions. This standard does not apply to concentration control of fissile materials.

ASTM (ASTM International)

Contact: Laura Klineburger, (610) 832-9744, accreditation@astm.org
100 Barr Harbor Drive, West Conshohocken, PA 19428-2959

New Standard

BSR/ASTM WK70176-202x, New Test Method for Womens lacrosse stick pocket performance (new standard)

Stakeholders: Lacrosse Equipment industry.

Project Need: Lack of technical data to inform current decisions on pocket materials and their impact on ball retention and shot speed which is a potential safety issue.

This is going to be a standard test method to test for ball retention and ball velocity. The purpose of the standard is to eliminate current technical material and aesthetic requirements for stick pockets and replace it with a performance standard.

BSR/ASTM WK70493-202x, New Specification for Standard Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Pipe and Fittings for Drain, Waste , and Vent Systems (new standard)

Stakeholders: DWV industry.

Project Need: While CPVC is already used for corrosive waste drainage, the F2618 standard includes requirements not appropriate for DWV systems. CPVC has higher maximum service temperature than PVC. When burned, CPVC generates less smoke than PVC.

This specification covers the performance requirements of CPVC pipe, fittings, and solvent cements used in drain, waste, and vent systems.

BSR/ASTM WK70498-202x, New Specification for Specification for Ceiling and Wall Suspended Basketball Backstops (new standard)

Stakeholders: Commercially installed sports-specific equipment for use in Public Venues industry.

Project Need: Currently no such standard to guide architects or facility owners when deciding what to install in facilities.

Specification to set standards for suspended basketball backstop structures that are used in institutions like schools, churches, public and private health clubs, recreation centers, and similar facilities.

BSR/ASTM WK70499-202x, New Guide for Guide for Service and Maintenance of Ceiling and Wall Suspended Basketball Backstops (new standard)

Stakeholders: Commercially installed sports-specific equipment for use in Public Venues industry.

Project Need: No such guide exists so give facility owners details on maintaining and servicing this equipment.

Guide to be used by individuals that inspect, service, and repair ceiling-suspended or wall-suspended basketball backstops.

AWS (American Welding Society)

Contact: Peter Portela, (800) 443-9353, pportela@aws.org
8669 NW 36 ST., #130, Miami, FL 33166

New Standard

BSR/AWS D18.4/D18.4M-202x, Specification for the Welding of Medical Instruments and Devices (new standard)

Stakeholders: Companies and their subcontractors which make medical instruments and devices will be the primary audience for this standard. Industry-specific vocational, engineering, and regulatory training programs will incorporate this publication as a component of their overall syllabus.

Project Need: Current industry practice is to follow aerospace welding practices due to the similar nature of the most common alloys used in the medical device field. However, the cleanliness, surface finish, weld joint design and fabrication requirements of aerospace flight hardware are lacking what the medical device industry needs.

The specification will cover the requirements for welded connection design, material selection, welding processes, welding procedure qualification, welding personnel qualification, acceptance criteria (including surface finish requirements), and visual and nondestructive testing procedures for welding medical instruments and devices which are designed for open wound exposure during surgical procedures.

CEMA (Conveyor Equipment Manufacturers Association)

Contact: Naylu Garcés, (239) 260-8009, naylu@cemanet.org
5672 Strand Court, Suite 2, Naples, FL 34110

Reaffirmation

BSR/CEMA Standard No. 404-2003 (R202x), Chain Driven Live Roller Conveyors (reaffirmation and redesignation of ANSI/CEMA 404-2003 (R2015))

Stakeholders: Manufacturers, specifiers, and users of unit handling conveyors systems.

Project Need: It establishes the recommended design and application engineering practice for chain driven live roller conveyors.

Fourth in the unit handling series. It describes all the information related to Chain Driven Live Roller Conveyors: Definitions, Applications, and Technical Data.

BSR/CEMA Standard No. 405-2003 (R202x), Slat Conveyors (reaffirmation of ANSI/CEMA 405-2003 (R2015))

Stakeholders: Manufacturers, specifiers, and users of unit handling conveyor systems.

Project Need: It proposes certain minimum standards for use in the design and application of unit handling slat conveyors.

Fifth in the series pertaining to Unit Handling Conveyors. It describes all the information related to Slat Conveyors: Definitions, Applications, and Technical Data.

Revision

BSR/CEMA Standard No. 406-202x, Lineshaft Driven Live Roller Conveyors (revision and redesignation of ANSI/CEMA 406-2003 (R2015))

Stakeholders: Manufacturers, specifiers, and users of unit handling conveyor systems.

Project Need: It establishes recommended minimum standards for use in manufacturing and applying lineshaft driven live roller conveyors.

Sixth in the series pertaining to Unit Handling Conveyors. It describes all the information related to Lineshaft-Driven Live Roller Conveyors: Definitions, Applications, and Technical Data.

IES (Illuminating Engineering Society)

Contact: Patricia McGillicuddy, (917) 913-0027, pmcgillicuddy@ies.org
120 Wall Street, Floor 17, New York, NY 10005

New Standard

BSR/IES LM-61-202x, Approved Method: Identifying Operating Factors Influencing Measured vs. Predicted Performance for Installed Outdoor High Intensity Discharge (HID) Luminaires (new standard)

Stakeholders: Lighting practitioners, electrical engineers, architects, landscape architects and installers, light source and luminaire manufacturers, building owners, regulatory agencies, energy efficiency programs, the general public.

Project Need: This LM outlines factors that can cause differences between calculated and measured illuminance and luminance values of outdoor high-intensity discharge (HID) and low-pressure sodium (LPS) lamps and luminaires. It does not offer solutions, nor does it quantify all of the possible variables that might be encountered. The relevant ANSI/IES Recommended Practice document should be consulted for specific design recommendations.

This Lighting Measurement (LM) document identifies many of the potential factors that apply to outdoor HID luminaires, including mercury vapor (Hg), metal halide (MH), and high-pressure sodium (HPS), as well as low-pressure sodium (LPS) lighting equipment utilizing core and coil ballasts for contemporary lamp wattage designations. The issues and factors associated with electronic ballasts for HID lamps have not been addressed in this revision of LM-61, as the technology remains in significant flux and outdoor use of electronic ballasts is not prevalent on a large scale.

BSR/IES LM-66-202x, Approved Method: Electrical and Photometric Measurements of Single-Based Fluorescent Lamps (new standard)

Stakeholders: Lighting practitioners, electrical engineers, architects, interior designers, light source and luminaire manufacturers, regulatory agencies, energy efficiency programs, the general public, building owners and managers.

Project Need: This Approved Method describes the procedures to be followed and the precautions to be observed in order to obtain uniform and reproducible measurements of the electrical and photometric characteristics of both integrated and non-integrated single-based compact fluorescent lamps, and integrated electrodeless lamps, under standard conditions in alternating current (AC) circuits (both line- and high-frequency).

The fluorescent lamp is an electric discharge source in which light is produced predominantly by fluorescent powders activated by ultraviolet energy generated by mercury atoms brought to an excited state by collision with electrons in a low-pressure rare-gas-mercury discharge or arc. There are two main ways to generate the electrical discharge. The most common is to pass current through the gas via electrodes (cathodes) that are connected by wires through the glass envelope. The other way is to induce a current without the need of electrodes by use of high frequency magnetic induction. This type of discharge lamp is commonly called an electrodeless discharge lamp.

NEMA (ASC C136) (National Electrical Manufacturers Association)

Contact: David Richmond, (703) 841-3234, David.Richmond@nema.org
1300 North 17th Street, Suite 900, Rosslyn, VA 22209

Revision

BSR C136.15-202x, Roadway and Area Lighting Equipment - Luminaire Field Identification (revision of ANSI C136.15-2015)

Stakeholders: Manufacturers, users and specifiers of roadway and area lighting equipment.

Project Need: This standard is being revised to reflect current industry practices and provide additional clarification. In addition, requirements for multi-wattage LED luminaires will be considered.

The intent of this standard is to add additional information to the current language found in C136.15 for solid-state lighting external labels. Additional information will include lumen values and correlated color temperature.

NEMA (ASC W1) (National Electrical Manufacturers Association)

Contact: Khaled Masri, (703) 841-3278, Khaled.Masri@nema.org
1300 North 17th Street, Rosslyn, VA 22209

New National Adoption

BSR/NEMA/IEC 60974-2-202x, Arc welding equipment - Part 2: Liquid cooling systems (national adoption of IEC 60974-2:2019 with modifications and revision of ANSI/NEMA/IEC 60974-2-2008)

Stakeholders: Arc welding equipment manufacturers, users, and others.

Project Need: Current standard needs to be maintained.

This part of IEC 60974 specifies safety and construction requirements for industrial and professional liquid cooling systems used in arc welding and allied processes to cool torches. This document is applicable to liquid cooling systems which are stand-alone (separate from the welding equipment) or built-in (housed in a single enclosure with other welding equipment). This document is not applicable to refrigerated cooling systems.

BSR/NEMA/IEC 60974-3-202X, Arc welding equipment - Part 3: Arc striking and stabilizing devices (national adoption of IEC 60974-3:2019 with modifications and revision of ANSI/NEMA/IEC 60974-3-2008)

Stakeholders: Arc welding equipment manufacturers, users, and others.

Project Need: Current standard needs to be maintained.

This part of IEC 60974 specifies safety requirements for industrial and professional arc-striking and arc-stabilizing devices used in arc welding and allied processes. This document is applicable to arc-striking and arc-stabilizing devices which are stand-alone (separate from the welding equipment) or built-in (housed in a single enclosure with other arc welding equipment).

BSR/NEMA/IEC 60974-7-202x, Arc welding equipment - Part 7: Torches (national adoption of IEC 60974-7:2019 with modifications and revision of ANSI/NEMA/IEC 60974-7-2009)

Stakeholders: Arc welding equipment manufacturers, users, and others.

Project Need: Current standard needs to be maintained.

This part of IEC 60974 specifies safety and construction requirements for torches used for arc welding and allied processes. This document is applicable to manual, mechanically guided, air-cooled, liquid-cooled, motorized, spool-on, and fume extraction torches. In this document, a torch consists of the torch body, the cable-hose assembly and other components. This document is also applicable to a cable-hose assembly connected between a power source and ancillary equipment. This document is not applicable to electrode holders for manual metal arc welding or air-arc cutting/gouging.

TIA (Telecommunications Industry Association)

Contact: *Teesha Jenkins, (703) 907-7706, standards@tiaonline.org*
1320 North Courthouse Road, Suite 200, Arlington, VA 22201

Revision

BSR/TIA 1005-B-202x, Telecommunications Infrastructure Standard for Industrial Premises (revision and redesignation of ANSI/TIA 1005-A-2012)

Stakeholders: TR-42.1, TR-42.3, TR42.7, ISO/IEC/JTC1/SC25/WG3, end-users, installers, designers of industrial cabling systems.

Project Need: Update standard.

This Standard specifies telecommunications cabling to support industrial premises applications (e.g., voice, data, text, video, industrial and building controls, security, fire alarm, imaging) while allowing for exposure to the wide range of environmental conditions expected in industrial premises (e.g., temperature, humidity, electrical noise, shock, vibration, corrosive gases, dust, liquids). Need to update the standard for the following items: (1) Include Addendum 1 of ANSI/TIA 1005-A; and (2) Update standard with new requirements for 1G for E2 and E3 environments.

American National Standards Maintained Under Continuous Maintenance

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

The standard shall be maintained by an accredited standards developer. A documented program for periodic publication of revisions shall be established by the standards developer. Processing of these revisions shall be in accordance with these procedures. The published standard shall include a clear statement of the intent to consider requests for change and information on the submittal of such requests. Procedures shall be established for timely, documented consensus action on each request for change and no portion of the standard shall be excluded from the revision process. In the event that no revisions are issued for a period of four years, action to reaffirm or withdraw the standard shall be taken in accordance with the procedures contained in the ANSI Essential Requirements.

The Executive Standards Council (ExSC) has determined that for standards maintained under the Continuous Maintenance option, separate PINS announcements are not required. The following ANSI Accredited Standards Developers have formally registered standards under the Continuous Maintenance option

- AAMI (Association for the Advancement of Medical Instrumentation)
- AARST (American Association of Radon Scientists and Technologists)
- AGA (American Gas Association)
- AGSC-AGRSS (Auto Glass Safety Council)
- ASC X9 (Accredited Standards Committee X9, Incorporated)
- ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.)
- ASME (American Society of Mechanical Engineers)
- ASTM (ASTM International)
- GBI (Green Building Initiative)
- HL7 (Health Level Seven)
- IES (Illuminating Engineering Society)
- ITI (InterNational Committee for Information Technology Standards)
- MHI (Material Handling Industry)
- NAHBRC (NAHB Research Center, Inc.)
- NBBPVI (National Board of Boiler and Pressure Vessel Inspectors)
- NCPDP (National Council for Prescription Drug Programs)
- NEMA (National Electrical Manufacturers Association)
- 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)
- UL (Underwriters Laboratories, Inc.)

To obtain additional information with regard to these standards, including contact information at the ANSI Accredited Standards Developer, please visit ANSI Online at www.ansi.org/asd, select "Standards Activities," click on "Public Review and Comment" and "American National Standards Maintained Under Continuous Maintenance." This information is also available directly at www.ansi.org/publicreview

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

ANSI-Accredited Standards Developers Contact Information

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

AAMI Association for the Advancement of Medical Instrumentation 901 N. Glebe Road, Suite 300 Arlington, VA 22203 Phone: (703) 253-8284 Web: www.aami.org	ASME American Society of Mechanical Engineers Two Park Avenue M/S 6-2B New York, NY 10016-5990 Phone: (212) 591-8489 Web: www.asme.org	CAGI Compressed Air and Gas Institute 1300 Sumner Avenue Cleveland, OH 44115 Phone: (216) 241-7333 Web: www.cagi.org/welcome.htm	NEMA (ASC C136) National Electrical Manufacturers Association 1300 North 17th Street Suite 900 Rosslyn, VA 22209 Phone: (703) 841-3234 Web: www.nema.org
ABYC American Boat and Yacht Council 613 Third Street Suite 10 Annapolis, MD 21403 Phone: (410) 990-4460 Web: www.abycinc.org	ASSP (Safety) American Society of Safety Professionals 520 N. Northwest Highway Park Ridge, IL 60068 Phone: (847) 699-2929 Web: www.assp.org	CEMA Conveyor Equipment Manufacturers Association 5672 Strand Court Suite 2 Naples, FL 34110 Phone: (239) 260-8009 Web: www.cemanet.org	NEMA (ASC C37) National Electrical Manufacturers Association 1300 North 17th Street Suite 900 Rosslyn, VA 22209 Phone: (703) 841-3231 Web: www.nema.org
ANS American Nuclear Society 555 North Kensington Avenue La Grange Park, IL 60526 Phone: (708) 579-8268 Web: www.ans.org	ASTM ASTM International 100 Barr Harbor Drive West Conshohocken, PA 19428-2959 Phone: (610) 832-9744 Web: www.astm.org	FCI Fluid Controls Institute 1300 Sumner Avenue Cleveland, OH 44115 Phone: (216) 241-7333 Web: www.fluidcontrolsinstitute.org	NEMA (ASC C8) National Electrical Manufacturers Association 1300 North 17th Street Rosslyn, VA 22209 Phone: (703) 841-3278 Web: www.nema.org
API American Petroleum Institute 1220 L Street, NW Washington, DC 20005 Phone: (202) 682-8286 Web: www.api.org	ATIS Alliance for Telecommunications Industry Solutions 1200 G Street NW Suite 500 Washington, DC 20005 Phone: (202) 628-6380 Web: www.atis.org	IAPMO International Association of Plumbing & Mechanical Officials 4755 East Philadelphia Street Ontario, CA 91761-2816 Phone: (909) 472-4203 Web: www.iapmo.org	NEMA (ASC C84) National Electrical Manufacturers Association 1300 North 17th Street Rosslyn, VA 22209 Phone: (703) 841-3278 Web: www.nema.org
ASC X9 Accredited Standards Committee X9, Incorporated 275 West Street Suite 107 Annapolis, MD 21401 Phone: (410) 267-7707 Web: www.x9.org	AWS American Welding Society 8669 NW 36 ST., #130 Miami, FL 33166 Phone: (800) 443-9353 Web: www.aws.org	IES Illuminating Engineering Society 120 Wall Street, Floor 17 New York, NY 10005 Phone: (917) 913-0027 Web: www.ies.org	NEMA (ASC W1) National Electrical Manufacturers Association 1300 North 17th Street Rosslyn, VA 22209 Phone: (703) 841-3278 Web: www.nema.org
ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. 1791 Tullie Circle, NE Atlanta, GA 30329 Phone: (678) 539-1214 Web: www.ashrae.org	AWWA American Water Works Association 6666 W. Quincy Ave. Denver, CO 80235 Phone: (303) 347-6178 Web: www.awwa.org	ITI (INCITS) InterNational Committee for Information Technology Standards 700 K Street NW Suite 600 Washington, DC 20001 Phone: (202) 737-8888 Web: www.incits.org	NSF NSF International 789 N. Dixboro Road Ann Arbor, MI 48105-9723 Phone: (734) 827-3817 Web: www.nsf.org

PHTA

Pool and Hot Tub Alliance

2111 Eisenhower Ave.

Suite 500

Alexandria, VA 22314

Phone: (703) 838-0083

Web: www.apsp.org

SDI (ASC A250)

Steel Door Institute

30200 Detroit Road

Westlake, OH 44145

Phone: (440) 899-0010

Web: www.wherryassocsteeldoor.org

SJI

Steel Joist Institute

234 W. Cheves Street

Florence, SC 29501

Phone: (843) 407-4091

Web: www.steeljoist.org

TIA

Telecommunications Industry
Association

1320 North Courthouse Road

Suite 200

Arlington, VA 22201

Phone: (703) 907-7706

Web: www.tiaonline.org

UL

Underwriters Laboratories, Inc.

12 Laboratory Drive

Research Triangle Park, NC 27709

-3995

Phone: (919) 549-1636

Web: www.ul.com



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

ACOUSTICS (TC 43)

ISO/DIS 9053-2, Acoustics - Determination of airflow resistance - Part 2: Alternating airflow method - 2/2/2020, FREE

AGRICULTURAL FOOD PRODUCTS (TC 34)

ISO/DIS 20836, Microbiology of the food chain - Polymerase chain reaction (PCR) for the detection of food-borne pathogens - Thermal performance testing of thermal cyclers - 2/2/2020, \$82.00

ISO/DIS 21543, Milk and milk products - Guidelines for the application of near infrared spectrometry - 2/8/2020, \$82.00

BIOGAS (TC 255)

ISO/DIS 23590, Household biogas system requirements: Design, installation, operation, maintenance and safety - 2/6/2020, \$58.00

BUILDING CONSTRUCTION MACHINERY AND EQUIPMENT (TC 195)

ISO/DIS 21573-2, Building construction machinery and equipment - Concrete pumps - Part 2: Procedure for examination of technical parameters - 2/3/2020, \$112.00

BUILDING ENVIRONMENT DESIGN (TC 205)

ISO/DIS 22185-1, Diagnosing moisture damage in buildings and implementing countermeasures - Part 1: Principles, nomenclature and moisture transport mechanisms - 2/3/2020, \$77.00

CARBON DIOXIDE CAPTURE, TRANSPORTATION, AND GEOLOGICAL STORAGE (TC 265)

ISO/DIS 27920, Carbon dioxide capture, transportation and geological storage (CCS) - Quantification and Verification - 2/6/2020, FREE

CORROSION OF METALS AND ALLOYS (TC 156)

ISO/DIS 8407, Corrosion of metals and alloys - Removal of corrosion products from corrosion test specimens - 2/6/2020, \$53.00

ENERGY MANAGEMENT AND ENERGY SAVINGS (TC 301)

ISO/DIS 50003, Energy management systems - Requirements for bodies providing audit and certification of energy management systems - 2/6/2020, FREE

FERTILIZERS AND SOIL CONDITIONERS (TC 134)

ISO/DIS 19747, Fertilizers and soil conditioners - Determination of monosilicic acid concentrations in nonliquid fertilizer materials - 11/10/2010, \$53.00

FINE BUBBLE TECHNOLOGY (TC 281)

ISO/DIS 20480-4, Fine bubble technology - General principles for usage and measurement of fine bubbles - Part 4: Terminology related to microbubble beds - 2/6/2020, FREE

FLOOR COVERINGS (TC 219)

ISO 20326/DAmD1, Resilient floor coverings - Specification for floor panels/assembly for loose laying - Amendment 1: Requirements depending on the substrate - 2/7/2020, FREE

FOOTWEAR (TC 216)

ISO/DIS 19574, Footwear and footwear components - Qualitative test method to assess antifungal activity (growth test) - 2/3/2020, FREE

GAS CYLINDERS (TC 58)

ISO 16148/DAmD1, Gas cylinders - Refillable seamless steel gas cylinders and tubes - Acoustic emission examination (AT) and follow-up ultrasonic examination (UT) for periodic inspection and testing - Amendment 1 - 2/2/2020, \$29.00

LEATHER (TC 120)

ISO/DIS 14931, Leather - Leather characteristics for apparel (excluding furs) - 11/11/2026, \$33.00

MECHANICAL TESTING OF METALS (TC 164)

ISO/DIS 22407, Metallic materials - Fatigue testing - Axial plane bending method - 2/6/2020, \$77.00

MICROBEAM ANALYSIS (TC 202)

ISO/DIS 22029, Microbeam analysis - EMSA/MAS standard file format for spectral-data exchange - 2/6/2020, \$53.00

NUCLEAR ENERGY (TC 85)

ISO/DIS 16640, Monitoring radioactive gases in effluents from facilities producing positron emitting radionuclides and radiopharmaceuticals - 2/3/2020, \$134.00

OTHER

ISO/DIS 23864, Non-destructive testing of welds - Ultrasonic testing - Use of (semi-) automated full matrix capture / total focusing technique (FMC/TFM) - 2/2/2020, \$98.00

ISO/DIS 23865, Non-destructive testing - Ultrasonic testing - General use of full matrix capture / total focusing technique (FMC/TFM) - 2/2/2020, \$112.00

REFRIGERATION (TC 86)

ISO 5149-1/DAmD2, Refrigerating systems and heat pumps - Safety and environmental requirements - Part 1: Definitions, classification and selection criteria - Amendment 2 - 12/5/2019, \$77.00

ISO 5149-3/DAmD1, Refrigerating systems and heat pumps - Safety and environmental requirements - Part 3: Installation site - Amendment 1 - 12/5/2019, \$33.00

RUBBER AND RUBBER PRODUCTS (TC 45)

ISO/DIS 2000, Rubber, raw natural - Guidelines for the specification of technically specified rubber (TSR) - 2/3/2020, \$33.00

ISO/DIS 22768, Raw rubber and rubber latex - Determination of the glass transition temperature by differential scanning calorimetry (DSC) - 2/6/2020, \$53.00

TRACTORS AND MACHINERY FOR AGRICULTURE AND FORESTRY (TC 23)

ISO 3767-1/DAmD1, Tractors, machinery for agriculture and forestry, powered lawn and garden equipment - Symbols for operator controls and other displays - Part 1: Common symbols - Amendment 1 - 2/2/2020, \$46.00

ISO 3767-2/DAmD1, Tractors, machinery for agriculture and forestry, powered lawn and garden equipment - Symbols for operator controls and other displays - Part 2: Symbols for agricultural tractors and machinery - Amendment 1 - 2/2/2020, \$58.00

ISO/DIS 22471, Permissible mechanical connection combinations between towed and towing agricultural vehicles - 2/2/2020, \$29.00

TRADITIONAL CHINESE MEDICINE (TC 249)

ISO/DIS 19609-2, Traditional Chinese medicine - Quality and safety of raw materials and manufacturing products made with raw materials - Part 2: Identity testing of constituents of herbal origin - 2/3/2020, FREE

TYRES, RIMS AND VALVES (TC 31)

ISO 4223-2/DAmD1, Definitions of some terms used in the tyre industry - Part 2: Solid tyres - Amendment 1 - 2/8/2020, \$29.00

ISO/IEC JTC 1, Information Technology

ISO/IEC DIS 27014, Information security, cybersecurity and privacy protection - Governance of information security - 2/3/2020, \$67.00

ISO/IEC DIS 23092-1, Information technology - Genomic information representation - Part 1: Transport and storage of genomic information - 2/6/2020, \$125.00

ISO/IEC DIS 23092-5, Information technology - Genomic information representation - Part 5: Conformance - 2/3/2020, FREE

ISO/IEC DIS 23094-1, Information technology - General video coding - Part 1: Essential video coding - 2/6/2020, FREE

IEC Standards

3D/336/DC, IEC Common Data Dictionary (IEC CDD): C00085 Battery Life Expectancy, /2019/12/2

23/878A/CD, IEC 63044-5-1/AMD1 ED1: Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 5-1: EMC requirements, conditions and test set-up, 2020/1/10

23/879A/CD, IEC 63044-5-2/AMD1 ED1: Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 5-2: EMC requirements for HBES/BACS used in residential, commercial and light-industrial environments, 2020/1/10

23/880A/CD, IEC 63044-5-3/AMD1 ED1: Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 5-3: EMC requirements for HBES/BACS used in industrial environments, 2020/1/10

23/877A/CD, IEC 63044-3/AMD1 ED1: Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 3: Electrical safety requirements, 2020/1/10

34A/2160/CDV, IEC 61228 ED3: Fluorescent ultraviolet lamps used for tanning - Measurement and specification method, 020/2/7/

44/862/CD, IEC 60204-32 ED3: Safety of machinery - Electrical equipment of machines - Part 32: Requirements for hoisting machines, 020/2/7/

45/881/CD, IEC 62372 ED2: Nuclear instrumentation - Housed scintillators - Measurement methods of light output and intrinsic resolution, 020/2/7/

46/751/CD, IEC 60966-4-2 ED1: Radio frequency and coaxial cable assemblies - Part 4-2: Detail specification for semi-rigid cable assemblies (jumper), Frequency range up to 6000MHz, Type 50-9 semi-rigid coaxial cable, applicable to ISO/IEC 11801-1, 020/2/7/

46/752/CD, IEC 60966-4-3 ED1: Radio frequency and coaxial cable assemblies - Part 4-3: Detail specification for semi-rigid cable assemblies, Frequency range up to 6000MHz, Type 50-12 low loss semi-rigid coaxial cable, applicable to ISO/IEC 11801-1, 020/2/7/

46/750/CD, IEC 60966-2-8 ED1: Radio frequency and coaxial cable assemblies - Part 2-8: Detail specification for cable assemblies for radio and TV receivers - Frequency range up to 3000MHz, Screening class A++, IEC61169-47 connectors, 020/2/7/

47/2595/CDV, IEC 62435-8 ED1: Electronic components - Long-term storage of electronic semiconductor devices - Part 8: Passive electronic devices, 020/2/7/

48D/713A/CD, IEC 61587-6 ED2: Mechanical structures for electrical and electronic equipment - Tests for IEC 60917 and IEC 60297 series - Part 6: Security aspects for indoor cabinets, 2020/1/31

61/5930/CDV, IEC 60335-2-4 ED7: Household and similar electrical appliances - Safety - Part 2-4: Particular requirements for spin extractors, 020/2/7/

61/5931/CDV, IEC 60335-2-30/AMD2 ED5: Amendment 2 - Household and similar electrical appliances - Safety -Part 2-30: Particular requirements for room heaters, 020/2/7/

61/5932/CDV, IEC 60335-2-35/AMD2 ED5: Amendment 2 - Household and similar electrical appliances - Safety - Part 2-35: Particular requirements for instantaneous water heaters, 020/2/7/

- 61/5934/CDV, IEC 60335-2-81/AMD2 ED3: Amendment 2 - Household and similar electrical appliances - Safety - Part 2-81: Particular requirements for foot warmers and heating mats, 020/2/7/
- 61/5933/CDV, IEC 60335-2-53/AMD2 ED4: Amendment 2 - Household and similar electrical appliances - Safety - Part 2-53: Particular requirements for sauna heating appliances and infrared cabins, 020/2/7/
- 61/5935/CDV, IEC 60335-2-82/AMD1 ED3: Amendment 1 - Household and similar electrical appliances - Safety - Part 2-82: Particular requirements for amusement machines and personal service machines, 020/2/7/
- 62A/1370/CDV, ISO 81001-1 ED1: Health software and health IT systems safety, effectiveness and security - Foundational principles, concepts and terms, 020/2/7/
- 65B/1163/CD, IEC 60751 ED3: Industrial platinum resistance thermometers and platinum temperature sensors, 020/2/7/
- 68/641/CDV, IEC 60404-8-7 ED5: Magnetic materials - Part 8-7: Specifications for individual materials - Cold-rolled grain-oriented electrical steel strip and sheet delivered in the fully processed state, 020/2/7/
- 69/697/CD, IEC 61980-3 ED1: Electric vehicle wireless power transfer (WPT) systems - Part 3: Specific requirements for the magnetic field wireless power transfer systems, 2020/1/10
- 69/696/CD, IEC 61980-2 ED1: Electric vehicle wireless power transfer (WPT) systems - Part 2: Specific requirements for communication between electric road vehicle (EV) and infrastructure, 2020/1/10
- 77B/805B/CDV, IEC 61000-4-20 ED3: Electromagnetic compatibility (EMC) - Part 4-20: Testing and measurement techniques - Emission and immunity testing in transverse electromagnetic (TEM) waveguides, /2019/11/2
- 100/3341/CD, IEC 61937-15 ED1: Digital audio - Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 -Part 15: Non-linear PCM bit streams according to Auro-Cx format (TA 20), 020/2/7/
- 111/557/CD, IEC 62321-11 ED1: Determination of certain substances in electrotechnical products - Part 11: TCEP in polymers by gas chromatography-mass spectrometry and liquid chromatography-mass spectrometry, 020/2/7/
- 116/427/CDV, IEC 62841-3-1/AMD1 ED1: Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-1: Particular requirements for transportable table saws, 020/2/7/



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

AGRICULTURAL FOOD PRODUCTS (TC 34)

[ISO 16140-6:2019](#), Microbiology of the food chain - Method validation - Part 6: Protocol for the validation of alternative (proprietary) methods for microbiological confirmation and typing procedures, \$138.00

BUILDING ENVIRONMENT DESIGN (TC 205)

[ISO 19455-1:2019](#), Planning for functional performance testing for building commissioning - Part 1: Secondary hydronic pump, system and associated controls, \$103.00

CLINICAL LABORATORY TESTING AND IN VITRO DIAGNOSTIC TEST SYSTEMS (TC 212)

[ISO 35001:2019](#), Biorisk management for laboratories and other related organisations, \$138.00

CONCRETE, REINFORCED CONCRETE AND PRE-STRESSED CONCRETE (TC 71)

[ISO 1920-14:2019](#), Testing of concrete - Part 14: Setting time of concrete mixtures by resistance to penetration, \$45.00

CRYOGENIC VESSELS (TC 220)

[ISO 21014:2019](#), Cryogenic vessels - Cryogenic insulation performance, \$103.00

FLOOR COVERINGS (TC 219)

[ISO 24337:2019](#), Laminate floor coverings - Determination of geometrical characteristics, \$68.00

GAS CYLINDERS (TC 58)

[ISO 10961:2019](#), Gas cylinders - Cylinder bundles - Design, manufacture, testing and inspection, \$138.00

[ISO 11117:2019](#), Gas cylinders - Valve protection caps and guards - Design, construction and tests, \$103.00

GEOSYNTHETICS (TC 221)

[ISO 10722:2019](#), Geosynthetics - Index test procedure for the evaluation of mechanical damage under repeated loading - Damage caused by granular material (laboratory test method), \$68.00

[ISO 13426-1:2019](#), Geotextiles and geotextile-related products - Strength of internal structural junctions - Part 1: Geocells, \$68.00

MECHANICAL TESTING OF METALS (TC 164)

[ISO 6892-1:2019](#), Metallic materials - Tensile testing - Part 1: Method of test at room temperature, \$209.00

MEDICAL DEVICES FOR INJECTIONS (TC 84)

[ISO 23907-2:2019](#), Sharps injury protection - Requirements and test methods - Part 2: Reusable sharps containers, \$103.00

NUCLEAR ENERGY (TC 85)

[ISO 16638-2:2019](#), Radiological protection - Monitoring and internal dosimetry for specific materials - Part 2: Ingestion of uranium compounds, \$162.00

OPTICS AND OPTICAL INSTRUMENTS (TC 172)

[ISO 10110-8:2019](#), Optics and photonics - Preparation of drawings for optical elements and systems - Part 8: Surface texture, \$138.00

PAINTS AND VARNISHES (TC 35)

[ISO 3233-1:2019](#), Paints and varnishes - Determination of percentage volume of non-volatile matter - Part 1: Method using a coated test panel to determine non-volatile matter and to determine dry-film density by the Archimedes principle, \$103.00

PERSONAL SAFETY - PROTECTIVE CLOTHING AND EQUIPMENT (TC 94)

[ISO 16073-2:2019](#), Wildland firefighting personal protective equipment - Requirements and test methods - Part 2: Compatibility, \$45.00

[ISO 16073-7:2019](#), Wildland firefighting personal protective equipment - Requirements and test methods - Part 7: Face and eye protection, \$138.00

PETROLEUM PRODUCTS AND LUBRICANTS (TC 28)

[ISO 20424:2019](#), Fatty acid methyl esters (FAME) - Determination of sulfur content - Inductively coupled plasma optical emission spectrometry (ICP-OES) method, \$68.00

PLAIN BEARINGS (TC 123)

[ISO 12168-1:2019](#), Plain bearings - Hydrostatic plain journal bearings without drainage grooves under steady-state conditions - Part 1: Calculation of oil-lubricated plain journal bearings without drainage grooves, \$162.00

[ISO 12168-2:2019](#), Plain bearings - Hydrostatic plain journal bearings without drainage grooves under steady-state conditions - Part 2: Characteristic values for the calculation of oil-lubricated plain journal bearings without drainage grooves, \$103.00

RAILWAY APPLICATIONS (TC 269)

[ISO 20138-2:2019](#), Railway applications - Calculation of braking performance (stopping, slowing and stationary braking) - Part 2: General algorithms utilizing step by step calculation, \$162.00

ROAD VEHICLES (TC 22)

[ISO 17536-4:2019](#), Road Vehicles - Aerosol separator performance test for internal combustion engines - Part 4: Laboratory fractional efficiency test method, \$138.00

SIEVES, SIEVING AND OTHER SIZING METHODS (TC 24)

[ISO 14488/Amd1:2019](#), Particulate materials - Sampling and sample splitting for the determination of particulate properties - Amendment 1, \$19.00

SOIL QUALITY (TC 190)

[ISO 21268-4:2019](#), Soil quality - Leaching procedures for subsequent chemical and ecotoxicological testing of soil and soil-like materials - Part 4: Influence of pH on leaching with initial acid/base addition, \$162.00

TERMINOLOGY (PRINCIPLES AND COORDINATION) (TC 37)

[ISO 26162-1:2019](#), Management of terminology resources - Terminology databases - Part 1: Design, \$138.00

[ISO 26162-2:2019](#), Management of terminology resources - Terminology databases - Part 2: Software, \$68.00

THERMAL INSULATION (TC 163)

[ISO 21105-1:2019](#), Performance of buildings - Building enclosure thermal performance verification and commissioning - Part 1: General requirements, \$162.00

TRANSPORT INFORMATION AND CONTROL SYSTEMS (TC 204)

[ISO 12813:2019](#), Electronic fee collection - Compliance check communication for autonomous systems, \$185.00

ISO Technical Reports**ROAD VEHICLES (TC 22)**

[ISO/TR 23786:2019](#), Road vehicles - Solutions for remote access to vehicle - Criteria for risk assessment, \$68.00

ISO/IEC JTC 1, Information Technology

[ISO/IEC 27050-1:2019](#), Information technology - Electronic discovery - Part 1: Overview and concepts, \$138.00

[ISO/IEC 29192-2:2019](#), Information security - Lightweight cryptography - Part 2: Block ciphers, \$209.00

IEC Standards**ELECTRICAL ACCESSORIES (TC 23)**

[IEC 63052 Ed. 1.0 b cor.1:2019](#), Corrigendum 1 - Power frequency overvoltage protective devices (POPs) for household and similar applications, \$0.00

ELECTRICAL EQUIPMENT IN MEDICAL PRACTICE (TC 62)

[IEC 63077 Ed. 1.0 b:2019](#), Good refurbishment practices for medical imaging equipment, \$82.00

ELECTROMECHANICAL COMPONENTS AND MECHANICAL STRUCTURES FOR ELECTRONIC EQUIPMENTS (TC 48)

[IEC 60512-28-100 Ed. 2.0 b:2019](#), Connectors for electrical and electronic equipment - Tests and measurements - Part 28-100: Signal integrity tests up to 2 000 MHz - Tests 28a to 28g, \$281.00

[S+ IEC 60512-28-100 Ed. 2.0 en:2019 \(Redline version\)](#), Connectors for electrical and electronic equipment - Tests and measurements - Part 28-100: Signal integrity tests up to 2 000 MHz - Tests 28a to 28g, \$366.00

FIBRE OPTICS (TC 86)

[IEC 60793-2 Ed. 9.0 b:2019](#), Optical fibres - Part 2: Product specifications - General, \$117.00

[IEC 61300-2-54 Ed. 1.0 en:2019](#), Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-54: Tests - Corrosive atmosphere (mixed gas), \$47.00

[S+ IEC 60793-2 Ed. 9.0 en:2019 \(Redline version\)](#), Optical fibres - Part 2: Product specifications - General, \$152.00

NUCLEAR INSTRUMENTATION (TC 45)

[IEC 62645 Ed. 2.0 b:2019](#), Nuclear power plants - Instrumentation, control and electrical power systems - Cybersecurity requirements, \$317.00

OTHER

[IEC GUIDE 108 Ed. 3.0 en:2019](#), Guidelines for ensuring the coherence of IEC publications - Horizontal functions, horizontal publications and their application, \$82.00

PIEZOELECTRIC AND DIELECTRIC DEVICES FOR FREQUENCY CONTROL AND SELECTION (TC 49)

[IEC 62884-2 Ed. 1.0 b:2017](#), Measurement techniques of piezoelectric, dielectric and electrostatic oscillators - Part 2: Phase jitter measurement method, \$164.00

[IEC 63041-1 Ed. 1.0 b:2017](#), Piezoelectric sensors - Part 1: Generic specifications, \$164.00

[IEC 63041-2 Ed. 1.0 b:2017](#), Piezoelectric sensors - Part 2: Chemical and biochemical sensors, \$82.00

SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES (TC 61)

[IEC 60335-2-90 Ed. 4.1 en:2019](#), Household and similar electrical appliances - Safety - Part 2-90: Particular requirements for commercial microwave ovens, \$410.00

[IEC 60335-2-90 Amd.1 Ed. 4.0 en:2019](#), Amendment 1 - Household and similar electrical appliances - Safety - Part 2-90: Particular requirements for commercial microwave ovens, \$12.00

SEMICONDUCTOR DEVICES (TC 47)

[IEC 60747-9 Ed. 3.0 b:2019](#), Semiconductor devices - Part 9: Discrete devices - Insulated-gate bipolar transistors (IGBTs), \$352.00

[IEC 60747-5-8 Ed. 1.0 b:2019](#), Semiconductor devices - Part 5-8: Optoelectronic devices - Light emitting diodes - Test method of optoelectronic efficiencies of light emitting diodes, \$117.00

[IEC 60747-14-10 Ed. 1.0 b:2019](#), Semiconductor devices - Part 14-10: Semiconductor sensors - Performance evaluation methods for wearable glucose sensors, \$235.00

TRANSMITTING EQUIPMENT FOR RADIO COMMUNICATION (TC 103)

[IEC 62802 Ed. 1.0 b:2017](#), Measurement method of a half-wavelength voltage and a chirp parameter for Mach-Zehnder optical modulator in high-frequency radio on fibre (RoF) systems, \$164.00

WINDING WIRES (TC 55)

[IEC 60317-27-3 Ed. 1.0 b:2019](#), Specifications for particular types of winding wires - Part 27-3: Paper tape covered rectangular copper wire, \$47.00

IEC Technical Reports**ELECTRICAL INSTALLATIONS OF SHIPS AND OF MOBILE AND FIXED OFFSHORE UNITS (TC 18)**

[IEC/TR 60092-370 Ed. 2.0 en:2019](#), Electrical installations in ships - Part 370: Guidance on the selection of cables for telecommunication and data transfer including radio-frequency cables, \$117.00

FIBRE OPTICS (TC 86)

[IEC/TR 62343-6-11 Ed. 1.0 en:2019](#), Dynamic Modules - Part 6-11:
Design guidelines - Software and hardware interface for optical
multicast switches, \$82.00

LASER EQUIPMENT (TC 76)

[IEC/TR 60825-5 Ed. 3.0 en:2019](#), Safety of laser products - Part 5:
Manufacturer's checklist for IEC 60825-1, \$281.00

SOLAR PHOTOVOLTAIC ENERGY SYSTEMS (TC 82)

[IEC/TR 63225 Ed. 1.0 en:2019](#), Incompatibility of connectors for DC-
application in photovoltaic systems, \$47.00

IEC Technical Specifications

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

[S+ IEC/TR 60092-370 Ed. 2.0 en:2019 \(Redline version\)](#), Electrical
installations in ships - Part 370: Guidance on the selection of cables
for telecommunication and data transfer including radio-frequency
cables, \$152.00

Proposed Foreign Government Regulations

Call for Comment

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

The USA Inquiry Point for the WTO TBT Agreement is located at the National Institute of Standards and Technology (NIST) in the Standards Coordination Office (SCO). The Inquiry Point distributes the notified proposed foreign technical regulations (notifications) and makes the associated full-texts available to U.S. stakeholders via its online service, Notify U.S. Interested U.S. parties can register with Notify U.S. to receive e-mail alerts when notifications are added from countries and industry sectors of interest to them.

To register for Notify U.S., please visit <http://www.nist.gov/notifyus/>.

The USA WTO TBT Inquiry Point is the official channel for distributing U.S. comments to the network of WTO TBT Enquiry Points around the world. U.S. business contacts interested in commenting on the notifications are asked to review the comment guidance available on Notify U.S. at <https://tsapps.nist.gov/notifyus/data/guidance/guidance.cfm> prior to submitting comments.

For further information about the USA TBT Inquiry Point, please visit: <https://www.nist.gov/standardsgov/what-we-do/trade-regulatory-programs/usa-wto-tbt-inquiry-point>

Contact the USA TBT Inquiry Point at: (301) 975-2918; Fax: (301) 926-1559; E-mail: usatbtep@nist.gov or notifyus@nist.gov.

Information Concerning

American National Standards

Call for Members

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

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

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

Membership in the INCITS Executive Board is open to all directly and materially affected parties in accordance with INCITS membership rules. To find out more about participating on the INCITS Executive Board, contact Jennifer Garner at jgarner@itic.org or visit <http://www.incits.org/participation/membership-info> for more information.

Membership in all interest categories is always welcome; however, the INCITS Executive Board seeks to broaden its membership base in the following categories:

- Service Providers
- Users
- Standards Development Organizations and Consortia
- Academic Institutions

Society of Cable Telecommunications

ANSI Accredited Standards Developer

SCTE, an ANSI-accredited SDO, is the primary organization for the creation and maintenance of standards for the cable telecommunications industry. SCTE's standards mission is to develop standards that meet the needs of cable system operators, content providers, network and customer premises equipment manufacturers, and all others who have an interest in the industry through a fair, balanced and transparent process.

SCTE is currently seeking to broaden the membership base of its 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 a 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.

International Organization for Standardization (ISO)

New Secretariats

ISO/TC 301 – Energy Management and Energy Savings

Comment Deadline: December 20, 2019

ANSI has requested to delegate the responsibilities of the administration of the ISO/TC 301 secretariat to Georgia Tech Energy & Sustainability Services. The secretariat was previously held by ANSI and the secretariat transfer is supported by the U.S. TAG.

ISO/TC 301 operates under the following scope:

Standardization in the field of energy management and energy savings.

Organizations wishing to comment on the delegation of the responsibilities should contact ANSI's ISO Team (isot@ansi.org).

U.S. Technical Advisory Groups

Approval of TAG Accreditation

U.S. TAG to ISO TC 45/SC 1, Rubber and Plastics Hoses and Hose Assemblies

ANSI's Executive Standards Council (ExSC) has formally approved the accreditation of the U.S. Technical Advisory Group to ISO TC 45/SC 1, Rubber and plastics hoses and hose assemblies and the appointment of the Association of Rubber Product Manufacturers (ARPM) as TAG Administrator, effective November 19, 2019. 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: Ms. Letha Keslar, Managing Director, ARPM, 7321 Shadeland Station Way, Suite 285, Indianapolis, IN 46256; phone: 317.863.4072; e-mail: lkeslar@arpm-inc.org



American National Standards (ANS) – Where to find Procedures, Guidance, Interpretations and More...

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 link is www.ansi.org/asd and here are some direct links as well as highlights of information that is available:

- *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 - PINS, BSR8|108, BSR11, Technical Report: www.ansi.org/PSAWebForms
- Information about standards Incorporated by Reference (IBR): www.ansi.org/ibr
- ANSI - Education and Training: www.standardslearn.org

If you have a question about the ANS process and cannot find the answer quickly, please send an email to psa@ansi.org.

Please also visit Standards Boost Business at www.standardsboostbusiness.org for resources about why standards matter, testimonials, case studies, FAQs and more.

If you are interested in purchasing an American National Standard, please visit <https://webstore.ansi.org/>

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Date of Issue :

Affected Publication : API Recommended Practice 10B-6, *Recommended Practice on Determining the Static Gel Strength of Cement Formulations*, first Edition, August 2010.

Addendum 1

Page 6, **Annex A**, the last sentence of the second paragraph including equations (A.1) and (A.2) shall be replaced by the following:

The CSGS can be calculated as $X_{\text{CSGS,SI}}$ in SI units of pascals as given by equation (A.1):

$$X_{\text{CSGS,SI}} = (p_{\text{fo}}) (2.5) / (L / D_{\text{eff}}) \quad (\text{A.1})$$

where

p_{fo} is the fluid overbalance pressure, expressed in kilopascals;

2.5 is the conversion factor;

L is the length of the cement column, expressed in meters;

D_{eff} is the effective diameter of the wellbore, expressed in centimeters.

and, as $X_{\text{CSGS,USC}}$ in USC units of pounds force per 100 square feet, as given by equation (A.2):

$$X_{\text{CSGS,USC}} = (p_{\text{fo}}) (300) / (L / D_{\text{eff}}) \quad (\text{A.2})$$

where

p_{fo} is the fluid overbalance pressure, expressed in pounds-force per square inch;

300 is the conversion factor;

L is the length of the cement column, expressed in feet;

D_{eff} is the effective diameter of the wellbore, expressed in inches.



**BSR/ASHRAE/ASHE Addendum L
to ANSI/ASHRAE/ASHE Standard 170-2017**

Public Review Draft

Proposed Addendum L to Standard 170-2017, Ventilation of Health Care Facilities

**First Public Review (October 2019)
(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 www.ashrae.org/standards-research--technology/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, use the change submittal form available on the ASHRAE website, www.ashrae.org.

The appearance of any technical data or editorial material in this public review document does not constitute endorsement, warranty, or guaranty by ASHARE of any product, service, process, procedure, or design, and ASHRAE expressly disclaims such.

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ASHRAE, 1791 Tullie Circle, NE, Atlanta GA 30329-2305

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

FOREWORD

Proposed Addendum L continues the process of reorganizing the standard into three components—Hospital, Outpatient, and Residential Health Care and Support in alignment with the FGI Guidelines’ transition to three separate standards. Addendum L follows the continuing maintenance process in further coordination with FGI staff and 170 staff to result in a coordinated document for use by all stakeholders in the Healthcare Community.

This proposed addendum is 5 edits of definitions, 1 each edits in Chapters 7, 8 and 9 along with specific line (row) edits in Table 7.1. These edits incorporate Addenda ‘a’ & ‘p’. Generally, the changes are as follows:

- *Incorporate Addendum ‘a’ updated filtration requirements to revised Table 7.1 rows affected.*
- *Incorporate Addendum ‘p’ updated unoccupied turndown requirements to revised Table 7.1 rows affected.*

Revise the space name definitions and process definitions, table organization, and subheadings to better correlate with the 2018 FGI Guidelines for Design and Construction of Hospitals, including the addition of paragraph numbers after each space name. These revised 2018 FGI paragraph numbers have been coordinated with FGI committee members and will be presented in italicized text to keep them as informative language.

Note: In this addendum, generally, changes to the current standard are indicated in the text by underlining (for additions) and ~~striking through~~ (for deletions) unless the instructions specifically mention some other means of indicating the changes.

Addendum L to 170-2017

Revise Section 3 as shown. The remainder of Section 3 is unchanged.

3. DEFINITIONS

[...]

invasive procedure*: a procedure that is performed in an aseptic surgical field and penetrates the protective surfaces of a patient’s body (e.g., subcutaneous tissue, mucous membranes, cornea). An invasive procedure may fall into one or more of the following categories:

- a. ~~e. generally requires~~ Requires entry into or opening of a sterile body cavity; and (i.e., cranium, chest, abdomen, pelvis, joint spaces). penetrates the protective surfaces of a patient’s body (e.g., skin, mucous membranes, cornea);
- b. ~~d. may involve~~ Involves insertion of an indwelling foreign body. ~~is performed in an aseptic surgical field (i.e., a procedure site);~~
- c. Includes excision and grafting of burns that cover more than 20 percent of total body area.
- d. Does not begin as an open procedure but has a recognized measurable risk of requiring conversion to an open procedure.

Informative Note: Invasive procedures are performed in locations suitable to the technical requirements of the procedure with consideration of infection control and anesthetic risks and goals. Accepted standards of patient care are used to determine where an invasive procedure is performed. “Invasive procedure” is a broad term commonly used to describe procedures ranging from a simple injection to a major surgical procedure. For the purposes of this document, the term is limited to the above description. The intent is to differentiate those procedures that carry a high risk of infection, either by exposure of a usually sterile body cavity to the external environment or by implantation of a foreign object(s) into a normally sterile site. Procedures performed through orifices normally colonized with bacteria and percutaneous procedures that do not involve an incision deeper than skin would not be included in this definition.

~~***invasive imaging procedure room:*** a room in which radio graphic imaging is used and in which instruments or devices are inserted into patients through the skin or body orifice under sterile conditions for diagnosis and/or treatment.~~

~~[...]~~

~~***invasive fluoroscopy:*** therapeutic or diagnostic invasive procedures that require fluoroscopic imaging (e.g., cardiac catheterization, interventional angiography, cardiac stenting, or implantation of devices). **Note:** These procedures are typically performed in a restricted or semi-restricted area, based on the classification of the imaging procedure being performed. Refer also to Class 2 Imaging Room for cardiac catheterization, interventional angiography and Class 3 for cardiac stenting, or implantation of devices.~~

~~[...]~~

~~***operating room (OR)*:*** a room in the surgical suite that meets the requirements of a restricted area and is designated and equipped for performing surgical or other invasive procedures. An aseptic field is required for all procedures performed in an OR. Any form of anesthesia may be administered in an OR if proper anesthesia gas administration devices are present and waste anesthesia gas disposal systems are provided.~~

operating room (OR): a room in the surgical suite that meets the requirements of a restricted area and is designated and equipped for performing invasive procedures.

[...]

~~***procedure room*:*** a room designated for the performance of patient care that requires high-level disinfection or sterile instruments and some environmental controls but is not required to be performed with the environmental controls of an operating room. procedures that do not meet the definition of “invasive procedure” and may be performed outside the restricted area of a surgical suite and may require the use of sterile instruments or supplies. Local anesthesia and minimal and moderate sedation may be administered in a procedure room as long as special ventilation or waste anesthesia gas disposal systems are not required for anesthetic agents used in these rooms.~~

~~[...]~~

Class 1 Imaging Room: diagnostic radiography, fluoroscopy, mammography, computed tomography (CT), ultrasound, magnetic resonance imaging (MRI), nuclear medicine and other imaging modalities including services that use natural orifice entry and do not pierce or penetrate natural protective membranes.

Class 2 Imaging Room: diagnostic and therapeutic procedures such as coronary, neurological, or peripheral angiography including electrophysiology, cardiac catheterization and interventional angiography and similar procedures.

Class 3 Imaging Room: invasive procedures including cardiac stenting, implantation of devices in an Invasive Fluoroscopy and any other Class 2 procedure during which the patient will require physiological monitoring and is anticipated to require active life support.

Revise Section 7.1 as shown. The remainder of Section 7.1 is unchanged.

7.1 General Requirements. The following general requirements shall apply for space ventilation:

- a. Spaces shall be ventilated according to Table 7.1.

[...]

- 7.** Unless a higher ventilation rate is stipulated in Table 7.1 or elsewhere in this standard, wherever anesthetic gases are administered outside of an Operating Room, Procedure Room, Class 2 & Class 3 Imaging Rooms, ventilation shall be provided at a minimum rate of 2 Outdoor ach and 6 Total ach.

Informative Note: refer to NFPA 99 for WAGD piping and gas scavenging requirements. Note: anesthetic gasses commonly refers to nitrous oxide and xenon, however, may also include halogenated volatile anesthetic agents such as desflurane, sevoflurane, and isoflurane.

Revise Table 7.1 and Normative Notes for Table 7.1 as shown below. The remainder of Table 7.1 is unchanged.

Table 7.1 Design Parameters – Hospital Spaces

Function of Space (dd)	Pressure Relationship to Adjacent Areas (n)	Minimum Outdoor ach	Minimum Total ach	All Room Air Exhausted Directly to Outdoors (j)	Air Recirculated by Means of Room Units (a)	Unoccupied Turndown	Minimum Filter Efficiencies (bb)	Design Relative Humidity (k), %	Design Temperature (l), °F/°C
DIAGNOSTIC AND TREATMENT									
Imaging (diagnostic and treatment) Class 1 imaging room (FGI 2.2-3.4.2.4(1)(b)(i))	NR (yy)	2	6	NR	NR	Yes	MERV-A-8 / MERV-A-14	max 60	72–78/22–26
Interventional imaging procedure room (2.2-3.5.2) Class 2 imaging room (d), (p) (FGI 2.2-3.4.2.4(1)(b)(ii))	Positive	3	15	NR	No	Yes	MERV-A-8 / MERV-A-14	max 60	70–75/21–24
Class 3 imaging room (m), (o) (FGI 2.2-3.4.2.4(1)(b)(iii))	Positive	4	20	NR	No	Yes	MERV-A-8 / MERV-A-16 (xx)	max 60	68–75/20–24
Interventional and intraoperative MRI procedure room (2.2-3.5.2)	Positive	3	15	NR	No	Yes	8/14	max 60	70–75/21–24
Nuclear medicine treatment procedure room (2.2-3.6.1)	Negative	2	6	Yes	NR	Yes	8/14	NR	70–75/21–24

Normative Notes for Table 7.1:

l. Systems shall be capable of maintaining the rooms within the range during normal operations. Lower or higher temperatures shall be permitted when occupants' patients' comfort and/or medical conditions require those conditions.

xx. See Section 7.4.1.c.

yy. Negative pressure is required if open mixing of isotopes or gaseous studies are performed as a part of nuclear treatment procedures within the imaging room. **Informative Note:** open mixing of isotopes is typically performed in the hot lab.

Revise Section 7.4.1 as shown below. The remainder of Section 7.4.1 is unchanged.

7.4.1 Operating Rooms, Operating/Surgical Cystoscopic Rooms, and Caesarean Delivery Rooms, and Class 3 Imaging Rooms. These rooms shall be maintained at a positive pressure with respect to all adjoining spaces at all times. A pressure differential shall be maintained at a value of at least +0.01 in. wc (2.5 Pa). Each room shall have individual temperature control. These rooms shall be provided with a primary supply diffuser array that is designed as follows:

[...]

- c. In operating rooms or class 3 imaging rooms designated for orthopedic procedures, transplants, neuro-surgery, or dedicated burn unit procedures, HEPA filters shall be provided and located in the air terminal device.

Delete Section 7.4.3 as shown below.

~~**7.4.3 — Imaging Procedure Rooms.** If invasive procedures occur in this type of room, ventilation shall be provided in accordance with the ventilation requirements for procedure rooms. If anesthetic gases are administered, ventilation shall be provided in accordance with the ventilation requirements for operating rooms.~~

Revise Section 8.1 as shown. The remainder of Section 8.1 is unchanged.

8.1 General Requirements. The following general requirements shall apply for space ventilation:

- a. Spaces shall be ventilated according to Table 8.1.

[...]

7. Unless a higher ventilation rate is stipulated in Table 8.1 or elsewhere in this standard, wherever anesthetic gases are administered outside of an Operating Room, Procedure Room, Class 2 & Class 3 Imaging Rooms, ventilation shall be provided at a minimum rate of 2 Outdoor ach and 6 Total ach.

Informative Note: refer to NFPA 99 for WAGD piping and gas scavenging requirements. Note: anesthetic gasses commonly refers to nitrous oxide and xenon, however, may also include halogenated volatile anesthetic agents such as desflurane, sevoflurane, and isoflurane.

Revise Normative Note L for Table 8.1 as shown below.

Normative Notes for Table 8.1:

l. Systems shall be capable of maintaining the rooms within the range during normal operations. Lower or higher temperatures shall be permitted when occupants' patients' comfort and/or medical conditions require those conditions.

Deletes Section 8.4.3 as shown below.

~~**8.4.3 Imaging Procedure Rooms.** If invasive procedures occur in this type of room, ventilation shall be provided in accordance with the ventilation requirements for procedure rooms. If anesthetic gases are administered, ventilation shall be provided in accordance with the ventilation requirements for operating rooms.~~

Delete Section 9.4.3 as shown below.

~~**9.4.3 Imaging Procedure Rooms.** If invasive procedures occur in this type of room, ventilation shall be provided in accordance with the ventilation requirements for procedure rooms. If anesthetic gases are administered, ventilation shall be provided in accordance with the ventilation requirements for operating rooms.~~

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Revision to NSF/ANSI 49-2018
Issue 92, Draft 9 (November 2019)

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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 *red italics* and only used to add clarity; these statements will NOT be in the finished publication.]

NSF/ANSI 49

Biosafety Cabinetry: Design, Construction, Performance, and Field Certification

3 Definitions

3.XX modified canopy installation: Installation of any canopy other than a designated acceptable option for a NSF Listed Biosafety Cabinet.

Annex F (normative)

Field tests

F.7.3.2.2 Exhaust alarm system – Type A1 or A2 canopy connection

F.7.3.2.2.1 Maintain inflow velocity using canopy connection on Type A1 or Type A2 cabinets:

a) When a canopy connection is not included as an acceptable option in listing for the BSC being certified, complete the test in step b). When a canopy connection is included as an acceptable option in listing for the BSC being certified, the test in step b) is not required.

b) After the cabinet airflow has been tested to verify it is within the acceptable range, de-energize or block the facility exhaust system from the cabinet. Measure inflow velocity of the cabinet as described in Section F.3.3.2. The measured velocity shall be no more than 8 ft/min (0.041 m/s) below the lowest value of the inflow velocity range stated on the cabinet data plate.

***Rationale:** This new language guides certifiers to test non-NSF listed canopies in the field for compliance to the requirements referenced in Section 5.4.*

F.7.3.2.2.2 Containment loss of canopy connection on Type A1 or A2 cabinets:

- a) Shall be tested at time of alarm verification.
- b) Introduce a visible medium source into the canopy air intake(s) while slowly reducing the exhaust volume until there is a loss of capture of the visible medium into the canopy air intake(s). The audible and visual canopy alarms shall respond within 15 s, and the cabinet fan(s) will continue to operate.
- c) Direct connected Type A1 or A2 cabinets shall not be considered in compliance with the standard.

BSR/UL 2849, Standard for Safety for Electrical Systems for eBikes

1. *The Proposed First Edition of the Standard for Electrical Systems for eBikes, UL 2849, is being proposed as a Binational Standard for Canada and the United States*

1.2 Electrical systems as referenced in 1.1, may include onboard components and off board components of eBikes. As a minimum, the electrical system consists of the [drive unit](#), battery, battery management system (BMS), interconnecting wiring, and power inlet. Any additional components or systems required to demonstrate compliance are included based on the overall system application [and risk](#).

7.4 The electrical system located on the eBike, those subassemblies or components shall comply with all the requirements in this Standard at a maximum altitude of 2000 m (6562 feet) and over an ambient temperature range of 0°C to 40°C (32°F to 104°F) and be subjected to ingress protection tests. Equipment may be used at ambient temperature extremes for operation and battery charging that exceed the default limits above (e.g., -10 °C or +50 °C) when specified by the manufacturer and the equipment shall be provided with instructions in accordance with [52.346](#), items (j) and (k), and [54.348.3](#).

17.1 Nonmetallic materials used for enclosures shall have a minimum flammability rating of V-1 in accordance with the requirements in the Standard for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances, UL 94, and Evaluation of Properties of Polymeric Materials, CAN/CSA C22.2 No. 0.17. As an alternative, finished enclosures may be tested in accordance with the 20 mm end-product flame test in the Standard for Polymeric Materials - Use in Electrical Equipment Evaluations, UL 746C, and Evaluation of Properties of Polymeric Materials, CAN/CSA C22.2 No. 0.17. Metallic materials used for enclosures are considered to comply without further evaluation, ~~except magnesium shall not be used for enclosure materials.~~

28.5 The charge and discharge cycles are then repeated for a total of 2 complete cycles of charge and discharge. The test is then repeated with the representative unit in a chamber set to the eBike [System](#) manufacturer's lowest specified operating ambient for 2 complete cycles of charge and discharge. If the battery pack will not operate at the lowest ambient rating, then a temperature as close as possible to the lower ambient rating which allows the battery pack to operate shall be used.

32.1.6 ~~A unit with a conductive enclosure shall have T~~ the enclosure of the unit ~~is to be~~ connected directly to ground.

BSR/UL 588, Standard for Safety for Seasonal and Holiday Decorative Products**1. String Light Flexible Cord Temperature Ratings**

SD5.2 For string lights employing medium screw lampholders, the cord that connects separate lampholders shall be a hard usage type (SJW or equivalent) and any cords for individual lampholders shall be rated 60°C (140°F) and be permitted to be in accordance with SD5.1 .

2. Cord Tag Instruction Location

124.1.1 The markings specified in this section shall be located on a tag attached to the product within 6 inches (152.4 mm) of the ~~face~~ output of the attachment plug, current tap, direct plug-in unit, or power inlet, or on the product.

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BSR/UL 1069, Standard for Safety for Hospital Signaling and Nurse Call Equipment

1. Revisions to Nurse call system (NCS) fundamentals and glossary, and additional requirements for a shared clinical IT network

PROPOSAL

2.2 Nurse call system (NCS) fundamentals

~~2.2.1 A fundamental NCS employs dedicated wired, dedicated wireless, or a combination of these means for the notification and annunciation of patient initiated or staff initiated calls.~~

~~2.2.2~~ 2.2.1 The fundamental operation of an NCS includes the essential and required functions of providing notification and reset/cancellation of staff initiated or patient initiated call signals.

- a) A fundamental NCS is deployed on a dedicated wired, or a dedicated wireless network, or a combination of these networks, for the notification and annunciation of patient initiated or staff initiated calls.
 - 1) A Clinical IT Network may be used to connect two or more fundamental NCS operating on their own dedicated networks where each NCS is capable of independently performing fundamental NCS operation as defined in section 2.2.2.
- b) A fundamental NCS shall provide signaling for one or more of the following call types: staff emergency calls, code calls, and staff or patient requests for help or assistance.

2.2.2 A fundamental NCS shall provide all of the following capabilities:

- a) Call initiation - Activation of a call event via fundamental call initiation station or device. A fundamental NCS must include the following equipment for call initiation:
 - 1) A call initiation station that provides the fundamental call types described in 2.2.1.b. It is permissible for a call initiation station to activate a single call type or a combination of call types. It is also permissible for a call initiation station to be equipped to provide supplementary two way voice communication.
 - i) If the call initiation station described in 1) is intended to serve one or more patient beds, each bed shall be uniquely identified and discretely accessed.
 - 2) A call initiation station intended to be mounted in space considered to be a wet location area.
 - i) A call initiation station mounted in a patient shower or bath area shall provide a means to be accessible to a patient lying on the floor. A pull cord is permitted to enable such access.
 - 3) A call initiation station shall provide a call placed visual indicator.
- b) Call Notification – A fundamental NCS must include the following equipment for call notification:

- 1) Audible and visual annunciation at a wired-primary nurse control station where wiring includes both signal and power.
 - 2) Audible and visual annunciation at a nurse's duty station which is intended for installation at a fixed location.
 - 3) Visual annunciation at a wired or wireless corridor lamp. Audible annunciation at the corridor lamp is permitted.
 - 4) Visual annunciation at a wired or wireless zone corridor lamp. Audible annunciation at a zone lamp is permitted.
 - 5) The nurse call system shall identify the location of the staff or patient initiated call.
 - 6) Visual and audible signals for a code call and staff emergency call shall be individually identifiable and distinct from all other nurse call signals.
- c) Call reset or cancellation - The ability to return the nurse call system to a normal quiescent state upon restoration of a call event. Calls initiated by fundamental NCS equipment may only be canceled at the originating patient care area or room of origin. The following means of call cancellation shall be permitted:
- 1) When two or more stations are located in the same area and all are visible from any call location, the call event may be canceled at any station in the same area.
 - 2) A routine call may be canceled remotely if two-way audio communication has been established, with the end-to-end connection verified prior to hang-up, between the calling patient care area or room of origin and the remote location.
 - 3) A code call or an emergency call annunciated on a Portable Nurse Control Station must be canceled by an action separate and unique from terminating communication.
 - 4) A routine call may be canceled upon detection of staff presence in the patient care area or room of origin by a Real Time Location System (RTLS).

2.2.3 It is permissible to use a wireless interface with the fundamental NCS for the following:

- a) Call initiation as described in 2.2.2.a via fixed location station or portable call initiation device.
- b) Call notification as described in 2.2.2.b.
- c) Items (a) and (b) shall be evaluated for fundamental NCS operation as fundamental NCS equipment.
- d) A code call or an emergency call that originates from a portable call initiating device shall be canceled at an associated fixed location call initiation or notification station as described in 2.2.2.c.

2.2.4 Provision for the interface and signaling of medical device alerts or any signaling not included in 2.2.1.b is permitted and shall be considered supplementary operation.

a) Provision for two-way audio (voice) communications is permitted and shall be considered supplementary operation.

1) A call initiation station that provides supplementary two way voice communication shall provide a visual or aural signal to indicate voice circuit operation.

b) It is permissible for the fundamental NCS to perform supplementary operation with wired or wireless equipment such as:

1) Supplementary notification at a redundant portable call annunciation device or redundant portable nurse's station.

2) Supplementary call initiation of a routine call such as housekeeping or maintenance via supplementary call initiation device.

~~2.2.3 A fundamental NCS shall provide signaling for one or more of the following: staff emergency calls, code calls, and staff or patient requests for help or assistance.~~

~~2.2.4 Provision for the interface and signaling of medical device alerts or any signaling not included in 2.2.3 is permitted and shall be considered supplementary operation.~~

~~2.2.5 Provision for two-way audio (voice) communications is permitted and shall be considered supplementary operation.~~

~~2.2.6 The nurse call system shall identify the location of the staff or patient initiated call.~~

~~2.2.7 A fundamental NCS shall provide all of the following capabilities:~~

~~a) Call initiation—Activation of a call event via fundamental call initiation station or device.~~

~~b) Notification—Audible and visual annunciation at a wired primary nurse control station where wiring includes both signal and power.~~

~~c) Notification—Audible and visual annunciation at a nurse's duty station which is intended for installation at a fixed location.~~

~~d) Notification—Visual annunciation at a wired or wireless corridor lamp. Audible annunciation at the corridor lamp is permitted.~~

~~e) Notification—Visual annunciation at a wired or wireless zone corridor lamp. Audible annunciation at a zone lamp is permitted.~~

~~f) Call reset or cancellation—The ability to return the nurse call system to a normal quiescent state upon restoration of a call event.~~

~~2.2.8 A fundamental NCS shall provide all of the following equipment:~~

a) A call initiation station that provides the fundamental call types described in 2.2.3. It is permissible for a call initiation station to activate a single call type or a combination of call types. It is also permissible for a call initiation station to be equipped to provide supplementary two-way voice communication.

b) If the call initiation station described in a) is intended to serve one or more patient beds, each bed shall be uniquely identified and discretely accessed.

c) A call initiation station intended to be mounted in space considered to be a wet location area.

d) A call initiation station shall provide a call placed visual indicator.

e) Call notification stations that provide capabilities described in 2.2.7.

3 Glossary

3.17A CLINICAL IT NETWORK – An information technology video, voice, and data communication network that is dedicated for shared use by medical devices, nurse call, clinical information systems, patient-critical applications, and clinical wireless communication equipment.

3.33 EMERGENCY SIGNAL CALL – An audible and visual signal that requires immediate action, but does not necessarily indicate a life threatening situation. When preceded by “staff” (i.e Staff Emergency), this indicates that the call was initiated by a member of the facility staff to request emergency-level help or assistance often pertaining to the needs of a patient.

46 Details

46.1

Note from the Standards Project Manager: Subitems (a)-(j) are not being revised and not provided in this proposal.

k) Minimum performance requirements of the shared clinical IT network. Consideration to the following (as applicable):

- 1) Capacity
- 2) Availability
- 3) Reliability
- 4) Latency

BSR/UL 1323-201x, Standard for Scaffold Hoists

1. Requirements for batteries as the primary power source

4.3 The operating instructions shall also include the type designation, the AWG size, the voltage rating, battery ampere-hour capacity for batteries and the maximum length of each type of power-supply cord for use with the hoist.

5.3 The electrical features of a control box assembly shall be evaluated to the requirements of the Standard for Industrial Control Equipment, UL 508 or the Standard for Power Conversion Equipment, UL 508C. This may include, but is not limited to, AC inverters, DC converters, DC drives, contact blocks, phase control relays, pendant controls and their interconnection.

5.4 When a battery is used as the primary power supply, the battery shall comply with one of the following:

- a) Standard for Batteries for Use in Stationary, Vehicle Auxiliary Power and Light Electric Rail (LER) Applications, UL 1973 when the battery is stationary; or
- b) Standard For Safety For Batteries for Use In Light Electric Vehicle (LEV) Applications, UL 2271 when the battery is mobile.

19.1.12 The power supply from the battery shall comply with one of the following and shall be considered with respect to the intended use temperatures and conditions of service:

- a) The Standard for Thermoplastic-Insulated Wires and Cables, UL 83;
- b) The Standard for Flexible Cords and Cables, UL 62;
- c) Outline for Welding Cable, UL 1276;
- d) The Standard for Electrical Cables for Boats, UL 1426; or
- e) The Standard for Machine-Tool Wires and Cables, UL 1063.

Exception: This requirement does not apply to wiring located in a LVLE circuit.

19.1.13 Wiring located within the battery compartment shall comply with one of the following and shall be considered with respect to the intended use temperatures and conditions of service:

- a) Outline for Battery Lead Wire, UL 2726; or
- b) Outline for Low Voltage Battery Cable, UL 4127;
- c) For wiring smaller than 6 AWG, the requirements in 12.1 would apply and the effects of acid exposure need not be evaluated.

26.4 If a motor is provided with impedance protection, it shall comply with the Standard for Impedance Protected Motors, UL 1004-2. If a motor is provided with an inherent thermal protector, it shall comply with the Standard for Thermally Protected Motors, UL 1004-3.

51.2 When a battery is used as the primary power supply, the current input shall not exceed the battery's maximum rated discharge current.

52.8 If the hoist has a single frequency rating, the test is to be conducted at that frequency. A hoist rated either for alternating current/direct current or direct current - 60 hertz is to be tested on direct current or 60 hertz alternating current, whichever results in higher temperatures. A product rated 25 - 60 hertz or 50 - 60 hertz is to be tested on 60-hertz alternating current. If a battery is used during testing as the primary power supply, the battery shall be fully charged.

60.1 An essentially sinusoidal 60-hertz potential of 1000 volts plus twice the rated voltage is to be applied between live parts and dead metal parts of the hoist for 1 minute. The temperature of the hoist is to be the same as the value recorded during the Temperature Test, Section 52. There shall not be dielectric breakdown.

Exception No. 1: If a hoist employs an induction motor rated less than 1/2 horsepower (373 W output) and 250 volts or less, the test potential for the motor, but not for the remainder of the hoist, is to be 1000 volts.

Exception No. 2: For a DC circuit, either an alternating-current or a direct-current potential may be used. When a direct current potential is used, the potential is to be the value indicated in 60.1 multiplied by 1.414.

74.1.1 If the access to the manual crank does not include a means to make the prime mover inoperative while under emergency manual operation, a warning marking readily visible to the operator during the cranking operation shall be provided and shall include the signal word "WARNING" and the following (or equivalent) information:

"Risk of Injury to Persons if Unintentional Application of Power Sets Manual Crank Arm in Motion. Disconnect (Electric Power Cord) (Battery) (Air Supply) Before Using Manual Crank."

74.2.1 The hoist electrical rating nameplate shall include the voltage, frequency, ampere-hour for batteries and input in amperes or watts. The voltage rating shall agree with the nominal voltage rating of the attachment plug. The ampere rating shall be included in the electrical rating, unless the power factor is 80 percent or more. The number of phases shall be indicated in the rating if the hoist is intended for use on a polyphase circuit.