



**BSR/ASHRAE/IES Addendum co
to ANSI/ASHRAE/IES Standard 90.1-2016**

Public Review Draft

Proposed Addendum co to Standard 90.1-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings

**First Public Review (February 2019)
(Draft Shows Proposed Changes to Current Standard)**

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

FOREWORD

SSPC 90.1 periodically reviews the normative references for applicability to this standard. Some new references have been added and many references have new effective dates. References not shown in this addendum are unchanged, and remain as currently listed in the standard or as modified in other addenda.

[Note to Reviewers: This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~striketrough~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the current standard are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed changes.]

Addendum cn to 90.1-2016

Modify the standard as follows (IP and SI Units)

1. MODIFY SECTION 12 AS FOLLOWS:

(NOTE TO REVIEWERS: References not shown in this addendum are unchanged, and remain as currently listed in the standard or as modified in other addenda.)

12 Normative References

| Reference | Title |
|---|---|
| Air Conditioning, Heating and Refrigeration Institute (AHRI) 2444-2311 Wilson Blvd., Suite 500, Arlington, VA 22201 | |
| AHRI 210/240-2008 with Addendum 1 and 2 2017 <u>AHRI 210/240-2023</u> | Unitary Air Conditioning and Air-Source Heat Pump Equipment (<u>applicable before 1/1/2023</u>) Unitary Air Conditioning and Air-Source Heat Pump Equipment (<u>applicable on or after 1/1/2023</u>) |
| AHRI 310/380-2004 2017 <u>AHRI 340/360-2015</u> 2019 | Packaged Terminal Air-Conditioners and Heat Pumps Performance Rating of Commercial and Industrial Unitary Air-Conditioning and Heat Pump Equipment |
| <u>AHRI 365-2009 (I-P)</u> <u>AHRI 366-2009 (SI)</u> | Commercial and Industrial Unitary Air-Conditioning Condensing Units |
| <u>ANSI/AHRI 390-2003</u> | Performance Rating of Single Packaged Vertical Air-Conditioners and Heat Pumps |
| <u>ANSI/AHRI 400(I-P)-2015</u> <u>ANSI/AHRI 401 (SI)-2015</u> | Performance Rating of Liquid-to-Liquid Heat Exchangers |
| <u>ANSI/AHRI 460-2005</u> | Remote Mechanical Draft Air Cooled Refrigerant Condensers |
| AHRI 550/590-2015 2018 (I-P) and AHRI 551/591-2015 2018 (SI) | Performance Rating of Water-Chilling and Heat-Pump Water-Heating Packages Using the Vapor Compression Cycle |
| AHRI 560-2009 2018 | Absorption Water Chilling and Water Heating Packages |
| <u>ANSI/AHRI Standard 910-2014 (I-P)</u> | Performance Rating of Indoor Pool Dehumidifiers |
| <u>ANSI/AHRI Standard 940</u> 911-2014 (SI) | Performance Rating of Indoor Pool Dehumidifiers |
| <u>ANSI/AHRI Standard 920-2015 (I-P)</u> | Performance Rating of DX-Dedicated Outdoor Air System Units |
| <u>ANSI/AHRI Standard 921-2015 (SI)</u> | Performance Rating of DX-Dedicated Outdoor Air System Units |
| <u>ANSI/AHRI 1160-2009 (I-P) 2014</u> <u>ANSI/AHRI 1161 (SI) 2014</u> | Performance Rating of Heat Pump Pool Heaters |
| <u>ANSI/AHRI 1200- (I-P) 2013</u> <u>ANSI/AHRI 1201 (SI) 2013</u> | Performance Rating of Commercial Refrigerated Display Merchandisers and Storage Cabinets |
| AHRI 1230-2010 2014 with Addendum 1 | Performance Rating of Variable Refrigerant Flow (VRF) Multi-split Air-Conditioning and Heat Pump Equipment |
| ANSI/AHRI Standard 1360-2016 2017 (I-P) | Performance Rating of Computer and Data Processing Room Air Conditioners |
| <u>ANSI/AHRI Standard 1361-2016</u> 2017 (SI) | Performance Rating of Computer and Data Processing Room Air Conditioners |
| BTS 2000 <u>Rev 06.07</u> | Testing Standard Method to Determine Efficiency of Commercial Space Heating Boilers |
| Air Movement and Control Association International (AMCA) 30 West University Drive, Arlington Heights, IL 60004-1806 | |

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|---|--|
| <p><u>ANSI/AMCA 208-18</u> <u>ANSI/AMCA Standard 500-D-1218</u></p> | <p><u>Calculation of the Fan Energy Index</u> <u>Laboratory Methods of Testing Dampers for Rating</u></p> |
| <p>American Architectural Manufacturers Association (AAMA) 1827 Walden Office Square, Suite 5501900 E. Golf Rd, Suite 1250, Schaumburg, IL 60173-4268</p> <p>Canadian Standards Association (CSA) 5060 Spectrum Way, Mississauga, Ontario, Canada L4W 5N678 Rexdale Blvd. Toronto, On Canada M9W 1R3</p> <p>Window and Door Manufacturers Association (WDMA) 2025 M Street, NW, <u>Suite 800</u>, Washington, DC 20036</p> | |
| <p><u>AAMA/WDMA/CSA 101/I.S.2/A440-1117</u></p> | <p><u>NAFS-North American Fenestration Standard/Specification for Windows, Doors, and Skylights</u></p> |
| <p>American National Standards Institute (ANSI), 11 West 42nd Street, New York, NY 100361899 L Street, NW, 11th Floor, Washington, DC 20036</p> | |
| <p><u>ANSI Z21.10.3-2011/2017/CSA 4.3-2017</u> <u>ANSI Z21.47-2012/2016/CSA 2.3-2012/2016</u> <u>ANSI Z83.8-2013/2016/CSA 2.6-2013/2016</u></p> | <p><u>Gas Water Heater, Volume 3, Storage, with Input Ratings above 75,000 Btu/h, Circulating and Instantaneous Water Heaters</u> <u>Gas-Fired Water Heaters, Volume iii, Storage Water Heaters With Input Ratings Above 75,000 Btu Per Hour, Circulating And Instantaneous</u> <u>Gas-Fired Central Furnaces</u> <u>Gas Unit Heaters and Duct Furnaces</u> <u>Gas Unit Heaters, Gas Packaged Heaters, Gas Utility Heaters And Gas-Fired Duct Furnaces</u></p> |
| <p>American Society of Mechanical Engineers (ASME) Three Two Park Avenue, New York, NY 10016-5990</p> | |
| <p><u>ASME A17.1-2013/2016/CSA B44-13/2016</u></p> | <p><u>Safety Code for Elevators and Escalators</u></p> |
| <p>ASHRAE 1791 Tullie Circle, NE, Atlanta, GA 30329</p> | |
| <p><u>ANSI/ASHRAE Standard 55-2013/2017</u></p> | <p><u>Thermal Environmental Conditions for Human Occupancy</u></p> |
| <p><u>ANSI/ASHRAE Standard 62.1-2013/2016 with Addenda b, c, d, e, f, g, h, j, k, o, q, r, u, v, w, z</u> ...</p> | <p><u>Ventilation for Acceptable Indoor Air Quality</u></p> |
| <p><u>ANSI/ASHRAE Standard 154-2014/2016</u> ...</p> | <p><u>Ventilation for Commercial Cooking Operations</u></p> |
| <p><u>ANSI/ASHRAE/ASHE Standard 170-2013/2017</u></p> | <p><u>Ventilation of Health Care Facilities</u></p> |
| <p><u>ANSI/ASHRAE/ACCA Standard 183-2007 (RA 2014/2017)</u></p> | <p><u>Peak Cooling and Heating Load Calculations in Buildings Except Low-Rise Residential Buildings</u></p> |
| <p>Association of Home Appliance Manufacturers (AHAM) 1111 19th Street NW, Suite 402, Washington, DC 20036</p> | |
| <p><u>ANSI/AHAM HRF-1-2008/2016</u></p> | <p><u>Energy and Internal Volume of Refrigerating Appliances (including errata issued November 17, 2009)</u></p> |

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|--|---|
| ANSI/AHAM RAC-1- R2008 <u>R2015</u> | Room Air Conditioners |
| ASTM International 100 Barr Harbor Dr., West Conshohocken, PA 19428-2959 | |
| ASTM C90- 4416 <u>16A</u> | Standard Specification for Loadbearing Concrete Masonry Units |
| ... | |
| ASTM C272/C272M- 4218 | Standard Test Method for Water Absorption of Core Materials for Structural Sandwich Constructions |
| ASTM C518- 4017 | Standard Test Method for Steady-State Thermal Transmittance Properties by Means of the Heat Flow Meter Apparatus |
| ASTM C835-06 (2013) e1 <u>e1</u> | Standard Test Method for Total Hemispherical Emittance of Surfaces up to 1400°C |
| ASTM C1224- 4415 | Standard Specification for Reflective Insulation for Building Applications |
| ... | |
| ASTM E779- 402018 | Standard Test Method for Determining Air Leakage Rate by Fan Pressurization |
| ... | |
| ASTM E1677- 204411 | Standard Specification for an Air Retarder (AR) Material or System for Low-Rise Framed Building Walls |
| ASTM E1680- 4416 | Standard Test Method for Rate of Air Leakage Through Exterior Metal Roof Panel Systems |
| ASTM E1827- 20442017 | Standard Test Methods for Determining Airtightness of Buildings Using an Orifice Blower Door |
| ... | |
| ASTM E2357- 4418 | Standard Test Method for Determining Air Leakage of Air Barrier Assemblies |
| Cool Roof Rating Council (CRRC) 1610 Harrison Street, Oakland CA 94612 <u>2435 N. Lombard St.</u> <u>Portland, OR 97217</u> United States | |
| ... | |
| Cooling Technology Institute (CTI) 3845 Cypress Creek Parkway, Suite 420, Houston, TX 77068; P.O. Box 681807 | |
| ... | |
| CTI ATC-105S (4418) | Acceptance Test Code for Closed-Circuit Cooling Towers |
| ... | |

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|---|--|
| Door and Access Systems Manufacturers Association (DASMA) 1300 Sumner Avenue, Cleveland, OH 44115-2851 | |
| ANSI/DASMA 105- 20422017 | Test Method for Thermal Transmittance and Air Infiltration of Garage Doors |

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|---|---|
| Illuminating Engineering Society (IES) 120 Wall street, Floor 17, New York, NY 10005-4001 | |
| ANSI/IES RP-28- 2007 <u>2016</u> | Lighting and the Visual Environment for Senior Living |
| International Organization for Standardization (ISO) ISO Central Secretariat BIBC II Chemin de Blandonnet 8, CP 401, 1214 Vernier, Geneva, Switzerland | |
| ... | |
| ANSI/AHRI/ASHRAE/ISO 13256-1:1998 (R2012 <u>R2015</u>) | Water-Source Heat Pumps—Testing and Rating for Performance—Part 1: Water-to-Air and Brine-to-Air Heat Pumps |
| ANSI/AHRI/ASHRAE/ISO 13256-2:1998 (R2012 <u>R2015</u>) | Water-Source Heat Pumps—Testing and Rating for Performance—Part 2: Water-to-Water and Brine-to-Water Heat Pumps |
| ... | |
| National Electrical Manufacturers Association (NEMA) 1300 N. 17th Street, Suite 4847900, Rosslyn <u>Arlington</u> , VA 22209 | |
| ANSI/NEMA MG 1- 2009 <u>2016</u> | Motors and Generators |
| ... | |
| National Fire Protection Association (NFPA) 1 Battery March Park, P.O. Box 9101, Quincy, MA 02269-9101 | |
| ... | |
| NFPA 96- 2014 <u>2017</u> | Ventilation Control and Fire Protection of Commercial Cooking Operations |
| Telecommunications Industry Association (TIA) 2500 Wilson Boulevard <u>1320 North Courthouse Road, Suite 200, Arlington, VA 22201</u> | |
| ANSI/TIA-942-REV AB, March 2014 <u>July 12, 2017</u> | Telecommunication Infrastructure Standard for Data Centers |
| Underwriters Laboratories, Inc. (UL) 333 Pfingsten Rd., Northbrook, IL 60062 | |
| ... | |
| UL 727- 06 <u>2018</u> | UL Standard for Safety—Oil Fired Central Furnaces |
| UL 731- 2012 <u>2018</u> | UL Standard for Safety—Oil-Fired Unit Heaters |
| ... | |
| U.S. Security and Exchange Commission (SEC) 100 F Street, NE, Washington, DC 2-549 <u>20549</u> | |
| ... | |

NOTE TO REVIEWER: Addenda AN, AO AV, AW, B, BI, BQ, BV, CN, CZ(2013) also affect portions of sections changed by this addendum, adding or updating other references. The following shows how the combined sections will appear if this addendum and addenda AN, AO, AV, AW, B, BI, BQ, BV, CN, CZ(2013) are published. References and portions of section not shown are unchanged.

Additional changes needed to combine this addendum with prior addenda are shown in ~~strikeout~~ and underline. Such changes do not change the substantive nature of prior approved addenda and are not available for comment.

12 Normative References

| Reference | Title |
|---|--|
| Air Conditioning, Heating and Refrigeration Institute (AHRI) 2311 Wilson Blvd., Arlington, VA 22201 | |
| AHRI 210/240-2017 | Unitary Air Conditioning and Air-Source Heat Pump Equipment |
| AHRI 210/240-2023 | (applicable before 1/1/2023) Unitary Air Conditioning and Air-Source Heat Pump Equipment (applicable on or after 1/1/2023) |
| AHRI 310/380-2017 | Packaged Terminal Air-Conditioners and Heat Pumps |
| AHRI 340/360-2019 | Performance Rating of Commercial and Industrial Unitary Air-Conditioning and Heat Pump Equipment |
| AHRI 365-2009 (I-P) | Commercial and Industrial Unitary Air-Conditioning |
| AHRI 366-2009 (SI) | Condensing Units |
| ANSI/AHRI 390-2003 | Performance Rating of Single Packaged Vertical Air-Conditioners and Heat Pumps |
| ANSI/AHRI 400(I-P)-2015 | Performance Rating of Liquid-to-Liquid Heat Exchangers |
| ANSI/AHRI 401 (SI)-2015 | |
| ANSI/AHRI 460-2005 | Remote Mechanical Draft Air Cooled Refrigerant Condensers |
| AHRI 550/590-2018 (I-P) and AHRI 551/591-2018 (SI) | Performance Rating of Water-Chilling and Heat-Pump Water-Heating Packages Using the Vapor Compression Cycle |
| AHRI 560-2018 | Absorption Water Chilling and Water Heating Packages |
| ANSI/AHRI Standard 910-2014 (I-P) | Performance Rating of Indoor Pool Dehumidifiers |
| ANSI/AHRI Standard 911-2014 (SI) | Performance Rating of Indoor Pool Dehumidifiers |
| ANSI/AHRI Standard 920-2015 (I-P) | Performance Rating of DX-Dedicated Outdoor Air System Units |
| ANSI/AHRI Standard 921-2015 (SI) | Performance Rating of DX-Dedicated Outdoor Air System Units |
| ANSI/AHRI 1160 (I-P) 2014 | Performance Rating of Heat Pump Pool Heaters |
| ANSI/AHRI 1161 (SI) 2014 | |
| ANSI/AHRI 1200 (I-P) 2013 | Performance Rating of Commercial Refrigerated Display Merchandisers and Storage Cabinets |
| ANSI/AHRI 1201 (SI) 2013 | Performance Rating of Variable Refrigerant Flow (VRF) |
| AHRI 1230-2014 with Addendum 1 | Multi-split Air-Conditioning and Heat Pump Equipment |
| AHRI Standard 1250-2014 (I-P) | Performance Rating of Walk-in Coolers and Freezers |
| AHRI Standard 1251-2014 (SI) | Performance Rating of Walk-in Coolers and Freezers |
| AHRI Standard 1360-2017 (I-P) | Performance Rating of Computer and Data Processing Room Air Conditioners |
| ANSI/AHRI Standard 1361-2017 (SI) | Performance Rating of Computer and Data Processing Room Air Conditioners |
| BTS 2000 Rev 06.07 | Testing Standard Method to Determine Efficiency of Commercial Space Heating Boilers |
| Air Movement and Control Association International (AMCA) 30 West University Drive, Arlington Heights, IL 60004-1806 | |
| ANSI/AMCA 208-18 | Calculation of the Fan Energy Index |
| ANSI/AMCA Standard 500-D-18 | Laboratory Methods of Testing Dampers for Rating |
| American Architectural Manufacturers Association (AAMA) 1900 E. Golf Rd, Suite 1250, Schaumburg, IL 60173-4268 | |
| Canadian Standards Association (CSA) 78 Rexdale Blvd. Toronto, On Canada M9W 1R3 | |
| Window and Door Manufacturers Association (WDMA) 2025 M Street, NW, Suite 800, Washington, DC 20036 | |
| AAMA/WDMA/CSA 101/I.S.2/A440-17 | NAFS-North American Fenestration Standard/Specification for Windows, Doors, and Skylights |
| American National Standards Institute (ANSI), 1899 L Street, NW, 11 th Floor, Washington, DC 20036 | |
| ANSI Z21.10.3-2017/CSA 4.3-2017 | Gas-Fired Water Heaters, Volume iii, Storage Water Heaters With Input Ratings Above 75,000 Btu Per Hour, Circulating And Instantaneous |

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|---|---|
| ANSI Z21.47-2016/CSA 2.3-2016 ANSI Z83.8-2016/CSA 2.6-2016 | Gas-Fired Central Furnaces Gas Unit Heaters, Gas Packaged Heaters, Gas Utility Heaters And Gas-Fired Duct Furnaces |
| American Society of Mechanical Engineers (ASME) Two Park Avenue, New York, NY 10016-5990 | |
| ASME A17.1-2016/CSA B44-2016 | Safety Code for Elevators and Escalators |
| ASHRAE 1791 Tullie Circle, NE, Atlanta, GA 30329 | |
| ANSI/ASHRAE Standard 55-2017 ANSI/ASHRAE Standard 62.1-2016 with Addenda b, c, d, e, f, g, h, j, k, o, q, r, u, v, w, z ... ANSI/ASHRAE Standard 90.4-2016 with Addenda a and b ... ANSI/ASHRAE Standard 140-2017 ANSI/ASHRAE Standard 154-2016 ... ANSI/ASHRAE/ASHE Standard 170-2017 ANSI/ASHRAE/ACCA Standard 183-2007 (RA 2017) | Thermal Environmental Conditions for Human Occupancy Ventilation for Acceptable Indoor Air Quality Energy Standard for Data Centers Standard Method of Test for the Evaluation of Building Energy Analysis Computer Programs Ventilation for Commercial Cooking Operations Ventilation of Health Care Facilities Peak Cooling and Heating Load Calculations in Buildings Except Low-Rise Residential Buildings |
| Association of Home Appliance Manufacturers (AHAM) 1111 19th Street NW, Suite 402, Washington, DC 20036 | |
| ANSI/AHAM HRF-1-2016 ANSI/AHAM RAC-1-R2015 | Energy and Internal Volume of Refrigerating Appliances Room Air Conditioners |
| ASTM International 100 Barr Harbor Dr., West Conshohocken, PA 19428-2959 | |
| ASTM C90-16A ... ASTM C272/C272M-18 ASTM C518-17 ASTM C835-06 (2013) e1 ASTM C1224-15 ... ASTM E779-2018 ... ASTM E1677-11 ASTM E1680-16 ASTM E1827-2017 ... ASTM E2357-18 | Standard Specification for Loadbearing Concrete Masonry Units Standard Test Method for Water Absorption of Core Materials for Sandwich Constructions Standard Test Method for Steady-State Thermal Transmittance Properties by Means of the Heat Flow Meter Apparatus Standard Test Method for Total Hemispherical Emittance of Surfaces up to 1400°C Standard Specification for Reflective Insulation for Building Applications Standard Test Method for Determining Air Leakage Rate by Fan Pressurization Standard Specification for an Air Retarder (AR) Material or System for Low-Rise Framed Building Walls Standard Test Method for Rate of Air Leakage Through Exterior Metal Roof Panel Systems Standard Test Methods for Determining Airtightness of Buildings Using an Orifice Blower Door Standard Test Method for Determining Air Leakage of Air Barrier Assemblies |
| Cool Roof Rating Council (CRRC) 449 15th Street, Suite 400 Oakland, CA 94612 2435 N. Lombard St. Portland, OR 97217 United States | |
| ANSI/CRRC S100-2016 | Standard Test Methods for Determining Radiative Properties of Materials |
| Cooling Technology Institute (CTI) 3845 Cypress Creek Parkway, Suite 420, Houston, TX 77068; P.O. Box 681807 ... | |

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|---|---|
| CTI ATC-105DS (18) | Acceptance Test Code for Dry Fluid Coolers |
| CTI ATC-105S (18) | Acceptance Test Code for Closed-Circuit Cooling Towers |
| ... | |
| CTI STD-201 RS (17) | Performance Rating of Evaporative Heat Rejection Equipment |
| Door and Access Systems Manufacturers Association (DASMA) 1300 Sumner Avenue, Cleveland, OH 44115-2851 | |
| ANSI/DASMA 105-2017 | Test Method for Thermal Transmittance and Air Infiltration of Garage Doors |
| Illuminating Engineering Society (IES) 120 Wall street, Floor 17, New York, NY 10005-4001 | |
| ANSI/IES RP-28-2016 | Lighting and the Visual Environment for Senior Living |
| International Organization for Standardization (ISO) ISO Central Secretariat BIBC II Chemin de Blandonnet 8, CP 401, 1214 Vernier, Geneva, Switzerland | |
| ... | |
| ANSI/AHRI/ASHRAE/ISO 13256-1:1998 (R2015) | Water-Source Heat Pumps—Testing and Rating for Performance—Part 1: Water-to-Air and Brine-to-Air Heat Pumps |
| ANSI/AHRI/ASHRAE/ISO 13256-2:1998 (R2015) | Water-Source Heat Pumps—Testing and Rating for Performance—Part 2: Water-to-Water and Brine-to-Water Heat Pumps |
| ... | |
| International Organization for Standardization (ISO) 1, rue de Varembe, Case postale 56, CH-1211 Geneve 20, Switzerland | |
| ISO 10211 (2007) | Thermal bridges in building construction – Heat flows and surface temperatures – Detailed calculations |
| ISO 14683 (2017) | Thermal bridges in building construction – Linear thermal transmittance – Simplified methods and default values |
| National Electrical Manufacturers Association (NEMA) 1300 N. 17th Street, Suite 900, Arlington, VA 22209 | |
| ANSI/NEMA MG 1-2016 | Motors and Generators |
| National Fenestration Rating Council (NFRC) 6305 Ivy Lane, Suite 140, Greenbelt, MD 20770-6323 | |
| ANSI/NFRC 100-2017 | Procedure for Determining Fenestration Product U-Factors |
| ANSI/NFRC 200-2017 | Procedure for Determining Fenestration Product Solar Heat Gain Coefficients and Visible Transmittance at Normal Incidence |
| NFRC 203-2017 | Procedure for Determining Visible Transmittance of Tubular Daylighting Devices |
| NFRC 300-2017 | Test Method for Determining the Solar Optical Properties of Glazing Materials and Systems |
| NFRC 301-2017 | Test Method for Emittance of Specular Surfaces Using Spectrometric Measurements |
| ANSI/NFRC 400-2017 | Procedure for Determining Fenestration Product Air Leakage |
| National Fire Protection Association (NFPA) 1 Battery March Park, P.O. Box 9101, Quincy, MA 02269-9101 | |
| <i>(note to reviewer: NFPA 70 was removed by addendum CZ(2013))</i> | |
| NFPA 96-2017 | Ventilation Control and Fire Protection of Commercial Cooking Operations |
| Telecommunications Industry Association (TIA) 1320 North Courthouse Road, Suite 200, Arlington, VA 22201 | |
| ANSI/TIA-942-REV B, July 12, 2017 | Telecommunication Infrastructure Standard for Data Centers |
| Underwriters Laboratories, Inc. (UL) 333 Pfingsten Rd., Northbrook, IL 60062 | |
| ... | |
| UL 727-2018 | UL Standard for Safety—Oil Fired Central Furnaces |
| UL 731-2018 | UL Standard for Safety—Oil-Fired Unit Heaters |
| ... | |
| U.S. Department of Defense 3010 Defense Pentagon, Washington, DC 20301 | |

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| <p>MIL-P-17639F (1996)</p> <p>MIL-P-17840C (1986)</p> <p>MIL-P-17881D (1972)</p> <p>MIL-P-18472 (1989)</p> <p>MIL-P-18682D</p> | <p>Pumps, Centrifugal, Miscellaneous Service, Naval Shipboard Use</p> <p>Pumps, Centrifugal, Close-Coupled, Navy Standard (For Surface Ship Application)</p> <p>Pumps, Centrifugal, Boiler Feed (Multi-Stage)</p> <p>Pumps, Centrifugal, Condensate, Feed Booster, Waste Heat Boiler, and Distilling Plant</p> <p>Pump, Centrifugal, Main Condenser Circulating, Naval Shipboard</p> |
| <p>U.S. Department of Energy (DOE) 1000 Independence Avenue, SW, Washington, DC 20585</p> | |
| <p>...</p> <p>10 CFR Part 431, Subpart Y</p> <p>10 CFR Part 431.304</p> <p>...</p> | <p>Pumps: Definitions, Energy Conservation Standards, and Uniform Test Method of the Measurement of Energy Consumption of Pumps</p> <p>Uniform test method for the measurement of energy consumption of walk-in coolers and walk-in freezers.</p> |
| <p>U.S. Security and Exchange Commission (SEC) 100 F Street, NE, Washington, DC 20549</p> <p>...</p> | |
| <p>U.S. Nuclear Regulatory Commission One White Flint North 11555 Rockville Pike Rockville, MD 20852-2738</p> <p>10 CFR Part 50</p> <p style="text-align: right;">Domestic Licensing of Production and Utilization Facilities</p> | |