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July 14, 2009

Gary M. Stern, General Counsel
National Archives and Records Administration
NGC-Room 3110
8601 Adelphi Road
College Park, MD 20740

Dear Mr. Stern:

This is a request under the Freedom of Information Act (FOIA), [5 U.S.C. § 552](#) as further specified in the National Archives and Records Administration (NARA) FOIA Regulations, [36 C.F.R. § 1250](#). The purpose of this request is to obtain copies of all technical standards that have been Incorporated By Reference into the Code of Federal Regulations.

In addition to the requirements of the FOIA, this request should be granted because it is for access to the text of the binding laws that govern the operations and activities of government as well as all citizens. This request should be granted based on the specific requirements of [1 C.F.R. § 51](#) governing the Incorporation By Reference mechanism, the requirements of [OMB Circular A-130](#), the policies of our new President, and long-standing principles of due process and equal protection clearly stated by the courts.

Incorporation By Reference and the Code of Federal Regulations

The U.S. Code requires publication in the Federal Register of "rules of procedure," "substantive rules," and other information published by agencies of the executive branch. However, the Act specifies "matter reasonably available to the class of persons affected thereby is deemed published in the Federal Register when incorporated by reference therein with the approval of the Director of the Federal Register." 5 U.S.C. § 552(a).

According to the NARA Incorporation By Reference Manual: "Congress authorized incorporation by reference in the Freedom of Information Act to reduce the volume of material published in the Federal Register and C.F.R.. (See 5 U.S.C. § 552(a) and 1 C.F.R. § 51). Congress gave complete authority to the Director of the Federal Register to determine whether a proposed incorporation by reference serves the public interest."

In 1 C.F.R. § 51, NARA spells out several requirements by which the Incorporation By Reference mechanism is carried out, including a requirement that the publication be

placed on file with NARA. In addition, the mechanism is quite precise, requiring a specific version of a specific standard, and substantial requirements of notice, need, and limitation of scope, as well as an affirmative determination for each standard by the Director of the Office of the Federal Register.

Nowhere in the U.S. Code or the C.F.R. is there an exemption of these technical standards from the requirements of the FOIA to make records available. However, NARA does appear to have an informal policy, not published in the C.F.R. or other formal regulations, with prominent notices that proclaim **“OFR does not distribute IBR materials”** and **“This site does not link to or contain standards incorporated by reference into the CFR.”** [emphasis in original at the [OFR web site](#).]

What I Am Specifically Asking For

I would like NARA to make available some or all of the standards that have been Incorporated By Reference through any one of the following mechanisms:

- NARA can simply scan all IBR materials and make them available in the E-C.F.R. web site you maintain in conjunction with the Government Printing Office.
- NARA can allow Public.Resource.Org to scan or photocopy the materials at the Office of Federal Register’s downtown Washington, DC location. While there is a procedure for doing this listed on your web site it seems to indicate prior approval is required of each copy request and it also appears you may not allow more than limited copying.
- NARA can furnish the materials to Public.Resource.Org as photocopies or electronically under the usual and customary procedures of the FOIA.

I am particularly interested in technical standards from Underwriters Laboratories, the American National Standards Institute, and other standards that are expensive and unavailable on the Internet and in public libraries. For your convenience, a specific list of the standards I am interested in is attached as Appendix A. It is important to stress that these materials we are seeking are not readily available through other means:

- For example, Underwriters Laboratories Standard 727, “Oil-Fired Central Furnaces,” is a key safety standard that has been incorporated by reference into numerous parts of our Code of Federal Regulations including 10 C.F.R. § 434.403.1, 10 § C.F.R. 431.76(c)(1), and 24 § C.F.R. 200. To [purchase](#) this 124-page standard costs \$708 and the [Worldcat.Org system](#) shows that the only library in the United States with a copy is the Washington State Department Labor & Industries library.
- Likewise, Underwriters Laboratories Standard 1191, “Standard for Components for Personal Flotation Devices,” is mandated by the U.S. Coast Guard in 46 C.F.R. §§ 160.002, 160.047, 160.048, 160.049, 160.050, 160.052, 160.053, 160.055, 160.060, 160.064, 160.076, 160.077, 160.150, 160.155, 160.176, 164.019, and 164.023. Yet, the only copy of this standard [listed in Worldcat.Org](#) is in the University of Wisconsin-Madison General Library System (1,700 miles away from my location) and it is the wrong version of the standard. To [purchase](#) the document costs \$1,120.
- The only reasonably complete collections of ANSI documents available to the public in the United States appear to be at the Illinois State Library in Springfield, Illinois and the Linda Hall Library in Kansas City, Missouri.

Request for News Media Fee Status

Public.Resource.Org asks that we not be charged search or review fees for this request because we qualify as a “representative of the news media” pursuant to the FOIA and 36 C.F.R. § 1250.2(g).

Public.Resource.Org, Inc. is a 501(c)(3) public charity chartered to make government information more broadly available without fee to any and all users. We have been certified as a “news media” requester for the purposes of obtaining and publishing government records under the FOIA and other acts by the Department of the Army, the Department of the Air Force, the Department of Veteran Affairs, and the Food and Drug Administration. I would be happy to furnish copies of these determinations at your request.

Public.Resource.Org is also engaged in a Joint Venture with the National Technical Information Service (“NTIS”) under [Agreement No. NTIS-1832](#) to more broadly disseminate hundreds of hours of video materials from the government onto the Internet. Documents from this current FOIA request will be promptly published, joining over 90 million pages of U.S. government documents we have made available on the Internet.

Due to our extensive publication activities of both raw materials and editorial products, Public.Resource.Org is a “representative of the news media” under the FOIA and agency regulations. As such, this request is subject only to duplication fees after the first 100 pages. However, all duplication fees should be waived, as discussed below, because disclosure of the information requested above is in the public interest.

Request for a Public Interest Fee Waiver

Public.Resource.Org is entitled to a waiver of duplication fees because disclosure of the requested information is in the public interest within the meaning of 36 C.F.R. §§ 1250.58 and 1250.60. This request clearly satisfies these criteria.

A fee waiver is appropriate here because Public.Resource.Org has no commercial interest in the disclosure of the requested records. Public.Resource.Org is a 501(c)(3) nonprofit organizations and will derive no commercial benefit from the information at issue here and will distribute all documents widely at no charge on the Internet.

Under 36 C.F.R. § 1260, several criteria are listed to be used in evaluating our request. This request meets all 6 of those criteria:

- As mentioned above, the primary legal materials published and binding on all citizens is the very essence of “operations and activities of the Federal Government” under 36 CFR § 1260(a)(1).
- Because these materials are out of the reach of most Americans and are only available in a small handful of libraries, this activity will release “meaningful information about Federal Government activities that [are] not already publicly known” under 36 CFR § 1260(a)(2).
- Technical standards are the very nuts and bolts of our public safety, environmental, and other codes will “advance the understanding of the general public on the issue” under 36 CFR § 1260(a)(3).
- Public.Resource.Org has published over 90 million pages of primary legal materials and we have substantial experience working with technical standards

for 3 decades, demonstrating an “expertise in or a thorough understanding of these records” under 36 CFR § 1260(a)(4).

- Public.Resource.Org maintains one of the most popular and visible document servers on the Internet for legal information and have demonstrated significant expertise to “disseminate this information to a broad spectrum of the public” under 36 CFR § 1260(a)(5).
- Disclosure of this material, making available standards that govern our daily activities but have been inaccessible to those without significant wealth will “lead to a significantly greater understanding of the Government by the public” under 36 CFR § 1260(a)(6).

It is particularly important to note that our prior work in making available public safety codes at the state level has demonstrated that the general public has a tremendous interest in reading and consulting these technical standards. The building, electrical, plumbing, boiler, elevator, fire, and other public safety codes we published for all 50 states have been extremely popular not only with specialists in the trades but with the general public, journalists, homeowners, and many others.

Limitation of Fees

If you decide that we qualify neither as News Media or for a Public Interest Fee Waiver, we agree to pay fees up to a maximum of \$5,000. If \$5,000 is not sufficient to fully satisfy the request of all IBR documents, please provide a partial response with \$5,000 worth of documents.

NARA’s Obligations Under OMB Circular A-130 and Title 44

Irrespective of your determination under the FOIA, we respectfully submit that NARA is required to make this information available under the requirements of the E-Government Act and related statutes and regulations. In particular, **44 U.S.C. § 1510(a)** requires that the Code of Federal Regulations contain the “complete codifications of the documents of each agency of the Government having general applicability and legal effect, issued or promulgated by the agency by publication in the Federal Register or by filing with the Administrative Committee.” Nowhere are standards Incorporated by Reference excluded from this requirement.

Publication of the C.F.R. is governed under the provisions of **OMB Circular A-130** which states that “the free flow of information between the government and the public is essential to a democratic society” and requires that agencies, to the maximum extent possible, “disseminate information dissemination products on equitable and timely terms.” Requiring purchase of a \$1,120 document in order to read the law of the land is not equitable and does not promote a democratic society.

The policies of the E-Government Act and OMB promoting dissemination of government information should be considered in light of the clear, unequivocal language of the President’s **January 21, 2009 Memorandum**: “In the face of doubt, openness prevails.” The President’s instructions are very clear: “All agencies should adopt a presumption in favor of disclosure, in order to renew their commitment to the principles embodied in FOIA, and to usher in a new era of open Government. The presumption of disclosure should be applied to all decisions involving FOIA.”

Given the lack of any specific regulations governing disclosure of materials Incorporated By Reference, given the importance of these core materials, and given the clear, unqualified language of the President, NARA should disclose this material.

Primary Legal Materials Must Be Available To the Public

In *Veeck v. Southern Building Code Congress*, 293 F.3d 791 (5th Circuit, 2002), Chief Judge Edith H. Jones clearly stated that “a continuous understanding that ‘the law,’ whether articulated in judicial opinions or legislative acts or ordinances, is in the public domain and thus not amenable to copyright.”

Chief Judge Jones and the 5th Circuit were ruling consistently with a long line of decisions dating back to *Wheaton v. Peters*, 33 U.S. (8 Pet.) 591 (1834) which stated that “the law, which, binding every citizen, is free for publication to all, whether it is a declaration of unwritten law, or an interpretation of a constitution or statute.”

It is important to note that the *Veeck* decision was specifically on point in addressing the mechanism of Incorporation By Reference, the same mechanism used by NARA for the documents we are requesting. Indeed, when the *Veeck* decision was appealed to the Supreme Court, the Court specifically invited the views and then followed the strong recommendation of the Solicitor General in denying certiorari and upholding the decision. In that Amicus Brief, Solicitor General Olson stressed that the standards incorporated by reference are “indistinguishable from other laws of general applicability that the public has always had the right to copy freely.” Brief for the United States as Amicus Curiae, No. 02-355, May 2003.

The purpose of the Federal Register system is to notify citizens what laws they must obey. Access to the materials that make up the regulations of the executive branch is a foundational issue of our system of government. There can be no due process or equal protection under the law if the texts that make it up are not available for citizens to read. This FOIA request should be granted because it is the very purpose of the Office of the Federal Register to broadly disseminate the law and this request will further that purpose.

Timeline for Response

As the FOIA provides, I will anticipate a determination on this request from your office within 20 working days.

Thank you for your consideration of this request.

Respectfully yours,

Carl Malamud
President & CEO
Public.Resource.Org

Appendix A
Standards Incorporated by Reference and Requested Under FOIA
Office of the Federal Register, Code of Federal Regulations

For More Information, Please Consult the Standards Incorporated By Reference Database
National Institute of Standards and Technology, <http://standards.gov/sibr/query/index.cfm>

AA Aluminum Design Manual, Specifications and Guidelines for Aluminum Structures, Part 1-A, Sixth Edition, October 1994, and Part 1
AA-ASM 35-80 Specifications for Aluminum Sheet Metal Work in Building Construction Aluminum Association, 900 19th Street, NW., Wash
AAI-RMA Specifications for Anhydrous Ammonia Hose, Agriculture Ammonia Institute-Rubber Manufacturers (AAI-RMA) Association, 1400 F
AAMA 605-98 Voluntary Specification Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions a
AAMA 1503.1-1988 Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors, and Glazed Wall Sec
AAMA 1504-88 Voluntary Standards for Thermal Performance of Windows, Doors and Glazed Wall Sections
AAMA 1701.2-95 Voluntary Standard Primary Window and Sliding Glass Door for Utilization in Manufactured Housing
AAMA 1704-1985 Voluntary Standard Egress Window Systems for Utilization in Manufactured Housing
AAMA-800-92 Voluntary Specifications and Test Methods for Sealants American Architectural Manufacturers Association
AAMA-1503.1-88 Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sectic
AASHTO Guide to Metric Conversion, AASHTO, 1993
AASHTO LRFD Bridge Design Specifications, First Edition, AASHTO 1994 (U.S. Units).
AASHTO Manual . "Manual for Condition Evaluation of Bridges," second edition
AASHTO Standard Specifications for Movable Highway Bridges, AASHTO 1988
AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, AASHTO 1994
AASHTO Traffic Engineering Metric Conversion Factors, 1993-Addendum to the Guide to Metric Conversion, AASHTO, October 1993
AASHTO, A Policy on Design Standards Interstate System, AASHTO, January 2005
AASHTO, A Policy on Geometric Design of Highways and Streets, AASHTO 2001 AMerican Associatino of State Highway and Traffic Officia
AASHTO, Interim Specifications-Bridges, AASHTO 1993
AASHTO, Interim Specifications-Bridges, AASHTO 1994
AASHTO, Interim Specifications-Bridges, AASHTO 1995
ABS Guide for High Speed Craft, 1997
ABS Rules for Building and Classing Aluminum Vessels (1975)
ABS Rules for Building and Classing Mobile Offshore Drilling Units (1994)
ABS Rules for Building and Classing Mobile Offshore Drilling Units, 1998
ABS Rules for Building and Classing Reinforced Plastic Vessels, 1978
ABS Rules for Building and Classing Steel Vessels (1995)
ABS Rules for Building and Classing Steel Vessels for Service on Rivers and Intracoastal Waterways, 1995
ABS Rules for Building and Classing Steel Vessels Under 61 Meters (200 feet) in Length, 1983
ABS Rules for Building and Classing Steel Vessels, 1981
ABS Rules for Building and Classing Steel Vessels, 1986
ABS Rules for Building and Classing Steel Vessels, 1989
ABS Rules for Building and Classing Steel Vessels, 1995
ABS Rules for Building and Classing Steel Vessels, 1996
ABS Rules for Building and Classing Steel Vessels, 1997
ABS Rules for Building and Classing Steel Vessels, 1998
ABS U.S. Supplement to ABS Rules for Mobile Offshore Drilling Units, 1 June 1998
ABS U.S. Supplement to ABS Rules for Steel Vessels for Vessels on International Voyages, 1 August 1997
ABS U.S. Supplement to ABS Rules for Steel Vessels for Vessels on International Voyages, 21 October 1996
ABYC A-1-78-"Marine LPG-Liquefied Petroleum Gas Systems"
ABYC A-1-93-Marine Liquified Petroleum Gas (LPG) Systems
ABYC A-3-70-"Recommended Practices and Standards Covering Galley Stoves"

ABYC A-3-1993 Galley Stoves
 ABYC A-7-1970 Recommended Practices and Standards Covering Boat Heating Systems
 ABYC A-16-89—Electric Navigation Lights
 ABYC A-16-97 American Boat and Yacht Council, Inc., 3069 Solomons Island Road, Edgewater, Maryland 21037-1416:, ABYC A-16 Electric
 ABYC A-22-78—"Marine CNG—Compressed Natural Gas Systems"
 ABYC A-22-93—Marine Compressed Natural Gas (CNG) Systems
 ABYC E-1-1972 Bonding of Direct-Current Systems
 ABYC E-8-1985—Alternating Current (AC) Electrical Systems on Boats
 ABYC E-8-1994 Alternating-Current (AC) Electrical Systems on Boats
 ABYC E-9-1981—Recommended Practices and Standards Covering Direct Current (DC) Electrical Systems on Boats
 ABYC E-9-1990 Direct-Current (DC) Electrical Systems on Boats
 ABYC H-2-1989—Ventilation of Boats Using Gasoline
 ABYC H-2.5—"Ventilation of Boats Using Gasoline—Design and Construction" (1981)
 ABYC H-22-86—DC Electric Bilge Pumps Operating Under 50 Volts
 ABYC H-24-93—Gasoline Fuel Systems
 ABYC H-24.9 (g) and (h)—"Fuel Strainers and Fuel Filters" (1975)
 ABYC H-25-1981—Portable Fuel Systems and Portable Containers for Flammable Liquids, May 12, 1981.
 ABYC H-25-1986 American Boat and Yacht Council (ABYC), 3069 Solomons Island Road, Edgewater, MD 21037-1416m H-25-1986—Portable Fuel
 ABYC H-25-1994—Portable Gasoline Fuel Systems for Flammable Liquids
 ABYC H-32-87—Ventilation of Boats Using Diesel Fuel
 ABYC H-33-1989—Diesel Fuel Systems
 ABYC P-1-1973 American Boat and Yacht Council (ABYC) P-1-73, Safe Installation of Exhaust Systems for Propulsion and Auxiliary Mach
 ABYC P-1-1986—Installation of Exhaust Systems for Propulsion and Auxiliary Engines
 ABYC P-1-1993—Installation of Exhaust Systems for Propulsion and Auxiliary Engines
 ABYC P-4-89—Marine Inboard Engines
 ACGIH American Conference of Governmental Industrial Hygienists (ACGIH), 1014 Broadway, Cincinnati, OH 45202, Threshold limit value
 ACGIH Chapter 3, "Local Exhaust Hoods" and Chapter 5, "Exhaust System Design Procedure" of "Industrial Ventilation: A Manual of Rec
 ACGIH's "Industrial Ventilation: A Manual of Recommended Practice" (22nd ed., 1995); or
 ACI 211.1-89 Standard Practice for Selecting Proportions for Normal, Heavyweight and Mass Concrete American Concrete Institute
 ACI 211.2-91 Standard Practice for Selecting Proportions for Structural Lightweight Concrete
 ACI 213R-87 Guide for Structural Lightweight Aggregate Concrete
 ACI 301-89 Specifications for Structural Concrete for Buildings
 ACI 302.1R-80 Guide for Concrete Floor and Slab Construction
 ACI 304R-89 Guide for Measuring, Mixing, Transporting and Placing Concrete
 ACI 305R-77 Hot Weather Concreting (Revised 1989)
 ACI 306R-78 Cold Weather Concreting (Revised 1988)
 ACI 311.4R-80 Guide for Concrete Inspection (Revised 1988)
 ACI 315-80 Guide for Detailing of Concrete Reinforcement
 ACI 318-89 Building Code Requirements for Reinforced Structural Plain Concrete (Revised 1992)
 ACI 322-72 Structural Plain Concrete
 ACI 347-78 Recommended Practice for Concrete Formwork (Reapproved 1984)
 ACI 357R-84 Guide for the Design and Construction of Fixed Offshore Concrete Structures, 1984; reapproved 1997
 ACI 504R-77 Guide to Joint Sealants for Concrete Structures
 ACI 506-90 Recommended Practice for Shotcreting
 ACI 515.1R-79 A Guide to the Use of Waterproofing, Dampproofing, Protective and Decorative Barrier Systems for Concrete (Revised 19
 ACI 533.1R-69 Quality Standards and Tests for Precast Concrete Wall Panels
 ACI 533.2R-69 Selection and Use of Materials for Precast Concrete Wall Panels
 ACI 533.3R-70 Fabrication, Handling and Erection of Precast Concrete Wall Panels
 ACI Standard 318-95, Building Code Requirements for Reinforced Concrete (ACI 318-95) and Commentary (ACI 318R-95)
 AFPA Design Values for Joists and Rafters 1992, AFPA.
 AFPA Span Tables for Joists and Rafters—PS-20-70, 1993, AFPA.
 AFPA Wood Structural Design Data, 1989, Revised 1992, AFPA.
 AGA American Gas Association (AGA) (1) "Purging Principles and Practices," (3rd edition, 2001).
 AGA American Gas Association Report No. 3: Orifice Metering of Natural Gas and Other Related Hydrocarbon Fluids, Part 1: General Eq
 AGA American Gas Association Transmission Measurement Committee Report No. 7: Measurement of Gas by Turbine Meters (Second Revisor

ANSI S1.4-1983 Specification for Sound Level Meters, American National Standards Institute, S1.4-1983, incorporation by reference a

ANSI S1.4-1983 Specification for Sound Level Meters, American National Standards Institute, S1.4-1983, incorporation by reference a

ANSI S1.4-1983 Specification for Sound Level Meters, including Amendment S1.4A-1985.

ANSI S1.11-71 (R 76) Specification for Octave, Half-Octave and Third-Octave Band Filter Sets

ANSI S3.6-69 Specifications for Audiometers

ANSI S3.6-1969 American National Standard Specification for Audiometers, ANSI S3.6-1969

ANSI S3.22-1996 - NSI S3.22-1996 "Specification of Hearing Aid Characteristics," ANSI S3.22-1996 (ASA 70-1996) (Revision of ANSI S

ANSI S12.13 Part I, Performance Requirements, Combustible Gas Detectors, 1986

ANSI T1.506-1990 American National Standard for Telecommunications-Network Performance-Transmission Specifications for Switched Exc

ANSI Z-124.9 Plastic Urinal Fixtures, 1994.

ANSI Z4.1-68 Requirements for Sanitation in Places of Employment

ANSI Z9.1-51 Safety Code for Ventilation and Operation of Open Surface Tanks

ANSI Z9.1-71 Practices for Ventilation and Operation of Open-Surface Tanks

ANSI Z9.1-1971 Practices for Ventilation and Operation of Open-Surface Tanks,

ANSI Z9.2-60 Fundamentals Governing the Design and Operation of Local Exhaust Systems

ANSI Z9.2-79 Fundamentals Governing the Design and Operation of Local Exhaust Systems

ANSI Z9.2-1979 Fundamentals Governing the Design and Operation of Local Exhaust Systems;

ANSI Z12.2-1962 (R1969) (Code for the Prevention of Dust Explosion in Woodworking and Wood Flour Manufacturing Plants),

ANSI Z12.12-68 Standard for the Prevention of Sulfur Fires and Explosions

ANSI Z12.12-1968. Prevention of Sulfur Fires and Explosions,

ANSI Z12.20-62 (R 69) Code for the Prevention of Dust Explosions in Woodworking and Wood Flour Manufacturing Plants

ANSI Z21.1-2000 Household Cooking Gas Appliances-ANSI Z21.1-2000.

ANSI Z21.1-2000. Household Cooking Gas Appliances-

ANSI Z21.5.1 Gas Clothes Dryers Volume 1, Type 1 Clothes Dryers-ANSI Z21.5.1-/CSA 7.1-M99-1999 with Addendum Z21.5.1a-1999.

ANSI Z21.10.1-1998 Gas Water Heaters-Volume 1, Storage Water Heaters with Input Ratings of 75,000 BTU per hour or Less-ANSI Z21.10.

ANSI Z21.10.1-1998 with Addendum Z21.10.1a-2000. Gas Water Heaters-Volume 1, Storage Water Heaters with Input Ratings of 75,000 BTU

ANSI Z21.10.3-1998 CSA 4.3-M98, and its Addenda, ANSI Z21.10.3a-2000, CSA 4.3a-M00,

ANSI Z21.15-1997 Manually Operated Gas Valves for Appliances, Appliances Connector Valves, and Hose End Valves

ANSI Z21.15-1997 Manually Operated Gas Valves

ANSI Z21.15-1997 Manually Operated Gas Valves for Appliances, Appliances Connector Valves, and Hose End Valves

ANSI Z21.15/CGA 9.1-M97-1997. Manually Operated Gas Valves for Appliances, Appliance Connector Valves and Hose End Valves-

ANSI Z21.15/CGA Manually Operated Gas Valves for Appliances, Appliance Connector Valves and Hose End Valves-ANSI Z21.15/CGA 9.1-M97

ANSI Z21.19-1990 Refrigerators Using Gas Fuel-ANSI Z21.19-1990, with Addendum ANSI Z21.19a-1992 and Z21.19b-1995.

ANSI Z21.19-1990 Refrigerators Using Gas Fuel-ANSI Z21.19-1990, with Addendum ANSI Z21.19a-1992 and Z21.19b-1995.

ANSI Z21.20 Automatic Gas Ignition Systems and Components-ANSI Z21.20 with Addendum Z21.20a-2000.

ANSI Z21.20 Automatic Gas Ignition Systems and Components-ANSI Z21.20 with Addendum Z21.20a-2000.

ANSI Z21.21 Automatic Valves for Gas Appliances-ANSI Z21.21/CSA 6.5-2000.

ANSI Z21.21/CSA 6.5-2000, Automatic Valves for Gas Appliances-ANSI Z21.21/CSA 6.5-2000.

ANSI Z21.22-1986 Relief Valves and Automatic Gas Shutoff Devices for Hot Water Supply Systems-ANSI Z21.22-1986, With Addendum Z21.2

ANSI Z21.22-1986 Relief Valves and Automatic Gas Shutoff Devices for Hot Water Supply Systems-ANSI Z21.22-1986, With Addendum Z21.2

ANSI Z21.22/CSA 4.4-M99 Relief Valves and Automatic Gas Shutoff Devices for Hot Water Supply Systems-ANSI Z21.22/CSA 4.4-M99, 1999.

ANSI Z21.22/CSA 4.4-M99, 1999., Relief Valves and Automatic Gas Shutoff Devices for Hot Water Supply Systems-

ANSI Z21.23-1989 Gas Appliance Thermostats-ANSI Z21.23-1989, with Addendum Z21.23a-1991.

ANSI Z21.23-1989 Gas Appliance Thermostats-ANSI Z21.23-1989, with Addendum Z21.23a-1991.

ANSI Z21.24 Connectors for Gas Appliances-ANSI Z21.24/CGA 6.10-M97-1997.

ANSI Z21.24/CGA 6.10-M97-1997, Connectors for Gas Appliances--.

ANSI Z21.30-64 Requirements for Gas Appliances and Gas Piping Installations

ANSI Z21.30-1964 American National Standard Requirements for the Installation of Gas Appliances and Gas Piping Z21.30-1964

ANSI Z21.40.1 Gas Fired Absorption Summer Air Conditioning Appliances-ANSI Z21.40.1/CGA 2.91-M961996.

ANSI Z21.40.1/CGA 2.91-M961996. Gas Fired Absorption Summer Air Conditioning Appliances-

ANSI Z21.47-1990 Gas-Fired Central Furnaces (Except Direct Vent System Central Furnaces)-ANSI Z21.47-1990 with Addendum Z21.47a-199

ANSI Z21.47-1990 with Addendum Z21.47a-1990 and Z21.47b-1992. Gas-Fired Central Furnaces (Except Direct Vent System Central Furnace

ANSI Z21.47-1998 "Gas-Fired Central Furnaces," IBR approved for §431.76.

ANSI Z21.56-1994 "Gas-Fired Pool Heaters," section 2.9.

ANSI Z24.22-57 Method of Measurement of Real-Ear Attenuation of Ear Protectors at Threshold

ANSI Z26.1-1977 (including 1980 Supplement), Safety Code for Safety Glazing Materials for Glazing Motor Vehicles Operating on Land
ANSI Z33.1-61 Installation of Blower and Exhaust Systems for Dust, Stock, and Vapor Removal or Conveying
ANSI Z33.1-66 Installation of Blower and Exhaust Systems for Dust, Stock, and Vapor Removal or Conveying
ANSI Z33.1-1961. Installation of Blower and Exhaust Systems for Dust, Stock, and Vapor Removal or Conveying,
ANSI Z34.1-1993 Third-Party Certification Programs for Products, Processes, and Services
ANSI Z34.1-1987 American National Standard for Certification, Third-Party Certification Program
ANSI Z34.1-1993 Third-Party Certification Programs for Products, Processes, and Services.
ANSI Z35.1-68 Specifications for Accident Prevention Signs
ANSI Z41-91 Personal Protection-Protective Footwear
ANSI Z41-1983-American National Standard for Personal Protection-Protective Footwear.
ANSI Z41-1991 "American National Standard for Personal Protection-Protective Footwear,"
ANSI Z41.1-1967 American National Standard for Men's Safety-Toe Footwear,
ANSI Z49.1 "Safety in Welding, Cutting and Allied Processes," sections 4.3 and E4.3 (1999) (incorporated by reference, see §851.27)
ANSI Z53.1-67 Safety Color Code for Marking Physical Hazards and the Identification of Certain Equipment
ANSI Z53.1-1953 American National Standard Safety Color Code for Marking Physical Hazards and the Identification of Certain Equipme
ANSI Z54.1-1963 American National Standard Safety Standard for Non-Medical X-ray and Sealed Gamma-Ray Sources, ANSI Z54.1-1963
ANSI Z87.1-1968 Practice of Occupational and Educational Eye and Face Protection
ANSI Z87.1-1979 Practice for Occupational and Educational Eye and Face Protection, 1979
ANSI Z87.1-1989 "American National Standard Practice for Occupational and Educational Eye and Face Protection,"
ANSI Z88.2 "American National Standard for Respiratory Protection," (1992) (incorporated by reference, see §851.27).
ANSI Z88.2-69 Practices for Respiratory Protection
ANSI Z88.2-1969 "American National Standards Practices for Respiratory Protection ANSI Z88.2-1969
ANSI Z88.2-1992 American National Standard for Respiratory Protection
ANSI Z88.2-1980-Practices for Respiratory Protection
ANSI Z89.1-69 Safety Requirements for Industrial Head Protection, 1969
ANSI Z89.1-86 Protective Headwear for Industrial Workers Requirements
ANSI Z89.1-1969 Safety Requirement for Industrial Head Protection
ANSI Z89.1-1981-Safety Requirements for Industrial Head Protection.
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 ASTM A333/A 333M-94, Standard Specification for Seamless and Welded Steel Pipe for Low-Temperature Service
 ASTM A333/A333M-05 "Standard Specification for Seamless and Welded Steel Pipe for Low-Temperature Service"
 ASTM A333/A333M-05 (2005) "Standard Specification for Seamless and Welded Steel Pipe for Low-Temperature Service."
 ASTM A334/A 334M-96, Standard Specification for Seamless and Welded Carbon and Alloy-Steel Tubes for Low-Temperature Service
 ASTM A335/A 335M-95a, Standard Specification for Seamless Ferritic Alloy-Steel Pipe for High-Temperature Service
 ASTM A350/A 350M-97, Standard Specification for Carbon and Low-Alloy Steel Forgings, Requiring Notch Toughness Testing for Piping (C
 ASTM A351/A 351M-94a, Standard Specification for Castings, Austenitic, Austenitic-Ferritic (Duplex), for Pressure-Containing Parts
 ASTM A352/A 352M-93 (1998), Standard Specification for Steel Castings, Ferritic and Martensitic, for Pressure-Containing Parts, Sui
 ASTM A358/A 358M-95a, Standard Specification for Electric-Fusion-Welded Austenitic Chromium-Nickel Alloy Steel Pipe for High-Temper
 ASTM A366/A 366M-91, Standard Specification for Steel, Sheet, Carbon, Cold-Rolled, Commercial Quality;
 ASTM A369/A 369M-92, Standard Specification for Carbon and Ferritic Alloy Steel Forged and Bored Pipe for High-Temperature Service
 ASTM A370-97a Standard Test Methods and Definitions for Mechanical Testing of Steel Products
 ASTM A370-94 Standard Test 179.102-1; 179.102-4; Methods and Definitions for Mechanical Testing of Steel Products
 ASTM A372/A372M-03 (2003) "Standard Specification for Carbon and Alloy Steel Forgings for Thin-Walled Pressure Vessels."
 ASTM A376/A 376M-96, Standard Specification for Seamless Austenitic Steel Pipe for High-Temperature Central-Station Service
 ASTM A381-96 (Reapproved 2001) "Standard Specification for Metal-Arc Welded Steel Pipe for Use With High-Pressure Transmission Syst
 ASTM A391-65 (ANSI G61.1-1968) Alloy Steel Chain
 ASTM A395-68 Ductile Iron for Use at Elevated Temperatures
 ASTM A395/A 395M-98, Standard Specification for Ferritic Ductile Iron Pressure-Retaining Castings for Use at Elevated Temperatures
 ASTM A403/A 403M-98, Standard Specification for Wrought Austenitic Stainless Steel Piping Fittings
 ASTM A420/A 420M-96a, Standard Specification for Piping Fittings of Wrought Carbon Steel and Alloy Steel for Low-Temperature Servic
 ASTM A441-81 Standard Specification for High-Strength Low-Alloy Structural Manganese Vanadium Steel
 ASTM A482-76 93, Standard Specification for Ferrochromesilicon, IBR approved for \$60.261.
 ASTM A483-64 74 (Reapproved 1988), Standard Specification for Silicomanganese, IBR approved for \$60.261.
 ASTM A495-76 94, Standard Specification for Calcium-Silicon and Calcium Manganese-Silicon, IBR approved for \$60.261.
 ASTM A505-87 Standard Specification for Steel, Sheet and Strip, Alloy, Hot-Rolled and Cold-Rolled, General Requirements for;
 ASTM A514-81 Standard Specification for High-Yield Strength Quenched and Tempered Alloy Steel Plate, Suitable for Welding
 ASTM A515/A 515M-03 Standard Specification for Pressure Vessel Plates, Carbon Steel, for Intermediate- and Higher-Temperature Servi
 ASTM A516/A 516M-90 Standard Specification for Pressure Vessel Plates, Carbon Steel, for Moderate and Lower-Temperature Service
 ASTM A520-97 Standard Specification for Supplementary Requirements for Seamless and Electric-Resistance-Welded Carbon Steel Tubular
 ASTM A522/A 522M-95b, Standard Specification for Forged or Rolled 8 and 9% Nickel Alloy Steel Flanges, Fittings, Valves, and Parts
 ASTM A525-91b Standard Specification for General Requirements for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process;
 ASTM A526/A 526M-90, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process, Commercial Quality;
 ASTM A536-84 (1993), Standard Specification for Ductile Iron Castings
 ASTM A537/A 537M-91 Standard Specification for Pressure Vessel Plates, Heat-Treated, Carbon-Manganese-Silicon Steel
 ASTM A539-90a Specification for Electric-Resistance-Welded Coiled Steel Tubing for Gas and Field Oil Lines, ASTM, A539-90a
 ASTM A539-1999 Standard Specification for Electric-Resistance-Welded Coiled Steel Tubing for Gas and Fuel Oil Lines, ASTM A539-1999
 ASTM A539-90a Specification for Electric-Resistance-Welded Coiled Steel Tubing for Gas and Field Oil Lines,
 ASTM A569/A 569M-91a, Standard Specification for Steel, Carbon (0.15 Maximum, Percent), Hot-Rolled Sheet and Strip Commercial Quali
 ASTM A572-82 Standard Specification for High-Strength Low-Alloy Columbian-Vanadium Steels of Structural Quality
 ASTM A575-96 Standard Specification for Steel Bars, Carbon, Merchant Quality, M-Grades
 ASTM A576-90b (1995), Standard Specification for Steel Bars, Carbon, Hot-Wrought, Special Quality
 ASTM A588-81 Standard Specification for High-Strength Low-Alloy Structural Steel with 50 Ksi Minimum Yield Point to 4 in. Thick
 ASTM A606-75 Standard Specification for Steel Sheet and Strip Hot- Rolled and Cold-Rolled, High-Strength, Low-Alloy, with Improved
 ASTM A607-98 Standard Specification for Steel, Sheet and Strip, High-Strength, Low-Alloy, Columbian or Vanadium, or Both, Hot-Rolle
 ASTM A612-72a High Strength Steel Plates for Pressure Vessels for Moderate and Lower Temperature Service
 ASTM A621/A 621M-92, Standard Specification for Steel, Sheet and Strip, Carbon, Hot-Rolled, Drawing Quality;
 ASTM A633-79a Standard Specification for Normalized High-Strength Low-Alloy Structural Steel, 1979 Edition
 ASTM A640-91 Standard Specification for Zinc-Coated Steel Strand for Messenger Support of Figure 8 Cable;
 ASTM A671-04 (2004) "Standard Specification for Electric-Fusion-Welded Steel Pipe for Atmospheric and Lower Temperatures"

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 ASTM A691-98 (Reapproved 2002) "Standard Specification for Carbon and Alloy Steel Pipe Electric-Fusion-Welded for High-Pressure Ser
 ASTM A715-81 Standard Specification for Steel Sheet and Strip, Hot-Rolled, High-Strength, Low-Alloy with Improved Formability, 1981
 ASTM A1008/A 1008M-03 Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy and High St
 ASTM A1011/A 1011M-03a Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low Alloy a
 ASTM Adjunct F 1626, Symbols for Use in Accordance with Regulation II-2/20 of the 1974 SOLAS Convention as amended PCN: 12-616260-(
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 ASTM B3-90 Standard Specification for Soft or Annealed Copper Wire;
 ASTM B16-92 Standard Specification for Free-Cutting Brass Rod, Bar, and Shapes for Use in Screw Machines
 ASTM B21-96 Standard Specification for Naval Brass Rod, Bar, and Shapes
 ASTM B26/B 26M-97, Standard Specification for Aluminum-Alloy Sand Castings
 ASTM B33-91 Standard Specifications for Tinned Soft or Annealed Copper Wire for Electrical Purposes.
 ASTM B42-93 Standard Specification for Seamless Copper Pipe, Standard Sizes-ASTM B42-93.
 ASTM B42-96 Standard Specification for Seamless Copper Pipe, Standard Sizes
 ASTM B42-93. Standard Specification for Seamless Copper Pipe, Standard Sizes- ASTM B42-93.
 ASTM B43-91 Standard Specification for Seamless Red Brass Pipe, Standard Sizes-ASTM B43-91.
 ASTM B43-96 Standard Specification for Seamless Red Brass Pipe, Standard Sizes
 ASTM B43-91. Standard Specification for Seamless Red Brass Pipe, Standard Sizes- ASTM B43-91.
 ASTM B68-95 Standard Specification for Seamless Copper Tube, Bright Annealed
 ASTM B75-97 Standard Specification for Seamless Copper Tube
 ASTM B85-96 Standard Specification for Aluminum-Alloy Die Castings
 ASTM B88-66A Seamless Copper Water Tube
 ASTM B88-69 Seamless Copper Water Tube
 ASTM B88-93 Standard Specification for Seamless Copper Water Tube, ASTM B88-93
 ASTM B88-96 Standard Specification for Seamless Copper Water Tube
 ASTM B88-66a Standard Specification for Seamless Copper Water Tube, ASTM B88-66a
 ASTM B88-93. Standard Specification for Seamless Copper Water Tube- ASTM B88-93.
 ASTM B96-93 Standard Specification for Copper-Silicon Alloy Plate, Sheet, Strip, and Rolled Bar for General Purposes and Pressure V
 ASTM B111-95 Standard Specification for Copper and Copper-Alloy Seamless Condenser Tubes and Ferrule Stock
 ASTM B117-64 Salt Spray (Fog) Test
 ASTM B117-97 Standard Practice for Operating Salt Spray (Fog) Apparatus
 ASTM B117-90 Standard Test Method of Salt Spray (Fog) Testing;
 ASTM B117-97 "Standard Practice for Operating Salt Spray (Fog) Apparatus" (ASTM B117-97) is hereby incorporated into S7.3.2 by refe
 ASTM B122/B 122M-95, Standard Specification for Copper-Nickel-Tin Alloy, Copper-Nickel-Zinc Alloy (Nickel Silver), and Copper-Nicke
 ASTM B124-96 Standard Specification for Copper and Copper Alloy Forging Rod, Bar, and Shapes
 ASTM B127-98 Standard Specification for Nickel-Copper Alloy (UNS NO4400) Plate, Sheet, and Strip
 ASTM B152-97a Standard Specification for Copper Sheet, Strip, Plate, and Rolled Bar
 ASTM B161-93 Standard Specification for Nickel Seamless Pipe and Tube
 ASTM B162-93a Standard Specification for Nickel Plate, Sheet, and Strip
 ASTM B165-93 Standard Specification of Nickel-Copper Alloy (UNS NO4400) Seamless Pipe and Tube
 ASTM B167-97a Standard Specification for Nickel-Chromium-Iron Alloys (UNS NO6600, NO6601, NO6603, NO6690, NO6025, and NO6045) Seam
 ASTM B171-95 Standard Specification for Copper-Alloy Plate and Sheet for Pressure Vessels, Condensers, and Heat Exchangers
 ASTM B193-87 Standard Test Method for Resistivity of Electrical Conductor Materials;
 ASTM B209-96 Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate
 ASTM B209-93 Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate
 ASTM B210-68 Aluminum-Alloy Drawn Seamless Tubes
 ASTM B210-95 Standard Specification for Aluminum and Aluminum-Alloy Drawn Seamless Tubes
 ASTM B221-76 Aluminum Alloy Extruded Bars, Rods, Shapes, and Tubes
 ASTM B224-80 Standard Classification of Coppers;
 ASTM B224-91 Standard Classification of Coppers;
 ASTM B234-95 Standard Specification for Aluminum and Aluminum-Alloy Drawn Seamless Tubes for Condensers and Heat Exchangers
 ASTM B241-69
 ASTM B241/B 241M-96, Standard Specification for Aluminum and Aluminum-Alloy Seamless Pipe and Seamless Extruded Tube
 ASTM B251-93. Standard Specification for General Requirements for Wrought Seamless Copper and Copper-Alloy Tubes- ASTM B251-93.

ASTM B280 A-95. Standard Specification for Seamless Copper Tube for Air Conditioning and Refrigeration Field Service- ASTM B280, A-
 ASTM B280-97 Standard Specification for Seamless Copper Tube for Air Conditioning and Refrigeration Field Service
 ASTM B280-1995 Standard Specification for Seamless Copper Tube for Air Conditioning and Refrigeration Service, ASTM B280-1995
 ASTM B283-96 Standard Specification for Copper and Copper-Alloy Die Forgings (Hot-Pressed)
 ASTM B306-92 Standard Specification for Copper Drainage Tube (DWV)-ASTM B306-92.
 ASTM B315-93 Standard Specification for Seamless Copper Alloy Pipe and Tube
 ASTM B361-95 Standard Specification for Factory-Made Wrought Aluminum and Aluminum-Alloy Welding Fittings
 ASTM B456-95 "Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium" (?
 ASTM B539-90 Standard Test Methods for Measuring Contact Resistance of Electrical Connections (Static Contacts);
 ASTM B557-84 Tension Testing Wrought and Cast Aluminum and Magnesium-Alloy Products
 ASTM B580-79 Standard Specification for Anodic Oxide Coatings on Aluminum, (Re-approved 2000)
 ASTM B633-85 Standard Specification for Electrodeposited Coatings of Zinc on Iron and Steel;
 ASTM B694-86 Standard Specification for Copper, Copper Alloy, and Copper-Clad Stainless Steel Sheet and Strip for Electrical Cable
 ASTM B736-92a Standard Specification for Aluminum, Aluminum Alloy, and Aluminum-Clad Steel Cable Shielding Stock;
 ASTM B858M-95 Standard Test Method for Determination of Susceptibility to Stress Corrosion Cracking in Copper Alloys Using an Ammor
 ASTM C12-91 Standard Practice for Installing Vitrified Clay Pipe Lines
 ASTM C33-99a, Standard Specification for Concrete Aggregates
 ASTM C36/C 36M-99 Standard Specification for Gypsum Wallboard-ASTM C36/C 36M-99, 1999.
 ASTM C94/C 94M-99 Standard Specification for Ready-Mixed Concrete
 ASTM C150-99 Standard Specification for Portland Cement
 ASTM C177-85 (1993), Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of t
 ASTM C177-04 "Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guar
 ASTM C208-72 Insulating Board (Cellulosic Fiber), Structural and Decorative (Reapproved 1982)
 ASTM C209-84 Standard Methods of Testing Insulating Board (Cellulosic Fiber), Structural and Decorative
 ASTM C216-91c Standard Specification for Facing Brick (Solid Masonry Units Made from Clay or Shale)
 ASTM C220-91 Standard Specification for Flat Asbestos-Cement Sheets
 ASTM C221-91 Standard Specification for Corrugated Asbestos-Cement Sheets
 ASTM C223-91 Standard Specification for Asbestos-Cement Siding
 ASTM C330-99, Standard Specification for Lightweight Aggregates for Structural Concrete
 ASTM C509-91 Standard Specification for Elastomeric Cellular Preformed Gasket and Sealing Material
 ASTM C516-80 Standard Specification for Vermiculite Loose Fill Thermal Insulation (Reapproved 1985)
 ASTM C518-91 Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Heat
 ASTM C518-04 "Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus."
 ASTM C549-81 Standard Specification for Perlite Loose Fill Insulation (Reapproved 1986)
 ASTM C564-88 Standard Specification for Rubber Gaskets for Cast Iron Soil Pipe and Fittings
 ASTM C564-88. Standard Specification for Rubber Gaskets for Cast Iron Soil Pipe and Fittings- ASTM C564-88.
 ASTM C578-92 Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation
 ASTM C595-98 Standard Specification for Blended Hydraulic Cements
 ASTM C640-83 Standard Specification for Insulation Board, Thermal (Cork)
 ASTM C726-88 Standard Specification for Mineral Fiber and Roof Insulation Board
 ASTM C739-03 "Standard Specification for Cellulosic Fiber Loose-Fill Thermal Insulation."
 ASTM C739-91 Standard Specification for Cellulosic Fiber (Wood-Based) Loose-Fill Thermal Insulation
 ASTM C754-88 Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum
 ASTM C834-91 Standard Specification for Latex Sealants
 ASTM C841-90 Standard Specification for Installation of Interior Lathing and Furring
 ASTM C842-85 Standard Specification for Application of Interior Gypsum Plaster (Reapproved 1990)
 ASTM C843-92 Standard Specification for Application of Gypsum Veneer Plaster
 ASTM C844-85 Standard Specification for Application of Gypsum Base to Receive Gypsum Veneer Plaster
 ASTM C846-76 Standard Practice for Application of Structural Insulating Board (Fiberboard) Sheathing (Reapproved 1982)
 ASTM C864-90 Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks and Spacers.
 ASTM C926-90 Standard Specification for Application of Portland Cement-Based Plaster
 ASTM C1036-91 Standard Specification for Flat Glass
 ASTM C1045-01 "Standard Practice for Calculating Thermal Transmission Properties from Steady-State Conditions."
 ASTM C1048-91 Standard Specification for Heat-Treated Flat Glass-Kind HS, Kind FT Coated and Uncoated Glass
 ASTM C1114-00 "Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Thin-Heater Apparatus."

ASTM C1149-02 "Standard Specification for Self-Supported Spray Applied Cellulosic Thermal Insulation."

ASTM C1224-03 "Standard Specification for Reflective Insulation for Building Applications."

ASTM C1315-95 Standard Specification for Liquid Membrane-Forming Compounds Having Special Properties for Curing and Sealing Concrete

ASTM C1363-97 "Standard Test Method for the Thermal Performance of Building Assemblies by Means of a Hot Box Apparatus."

ASTM C1371-04a "Standard Test Method for Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers."

ASTM C1374-03 "Standard Test Method for Determination of Installed Thickness of Pneumatically Applied Loose-Fill Building Insulation"

ASTM CISPI-301-90 Standard Specification for Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent

ASTM D5-65 Test for Penetration by Bituminous Materials

ASTM D5-65 Test for Penetration for Bituminous Materials, D-5-65

ASTM D9-87 (1992), Standard Terminology Relating to Wood

ASTM D56-70 Test for Flash Point by Tag Closed Tester

ASTM D56-70) Standard Method of Test for Flashpoint by Tag Closed Tester (ASTM D-56-70)

ASTM D86-62 Test for Distillation of Petroleum Products

ASTM D86-82 Standard Method for Distillation of Petroleum Products

ASTM D86-62 Standard Method of Test for Distillation of Petroleum Products, ASTM D-86-62

ASTM D86-78 82, 90, 93, 95, 96, Distillation of Petroleum Products, IBR approved for §§60.562-2(d), 60.593(d), 60.593a(d), and 60.6

ASTM D86-82 "Standard Method for Distillation of Petroleum Products,"

ASTM D88-56 Test for Saybolt Viscosity

ASTM D88-81 "Standard Test Method for Saybolt Viscosity,"

ASTM D92-97 Standard Test Method for Flash and Fire Points by Cleveland Open Cup

ASTM D93-71 Test for Flash Point by Pensky Martens

ASTM D93-97 Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester

ASTM D93-71 Standard Method of Test for Flashpoint by Pensky-Martens Closed Tester ()

ASTM D127-60 ("Standard Method of Test for Melting Point of Petrolatum and Microcrystalline Wax" (Revised 1960),

ASTM D129-00 (Reapproved 2005), Standard Test Method for Sulfur in Petroleum Products (General Bomb Method), IBR approved for §60.4

ASTM D129-64 78, 95, 00, Standard Test Method for Sulfur in Petroleum Products (General Bomb Method), IBR approved for §§60.106(j)(

ASTM D150-87 Standard Test Methods for A-C Loss Characteristics and Permittivity (Dielectric Constant) of Solid Electrical Insulation

ASTM D156-82 "Standard Test Method for Saybolt Color of Petroleum Products (Saybolt Chromometer Method),"

ASTM D156-82 "Standard Test Method for Saybolt Color of Petroleum Products (Saybolt Chromometer Method),"

ASTM D240-00 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter, for appendices A, D and F

ASTM D240-76 92, Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter, IBR approved for §§60

ASTM D257-91 Standard Test Methods for D-C Resistance or Conductance of Insulating Materials;

ASTM D270-65 75, Standard Method of Sampling Petroleum and Petroleum Products, IBR approved for Appendix A: Method 19, Section 12.5

ASTM D287-92 (Reapproved 2000), Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method)

ASTM D323-94 Standard Test Method for Vapor Pressure of Petroleum Products (Reid Method)

ASTM D323-68 "Standard Method of Test for Vapor Pressure of Petroleum Products (Reid Method)," American Society for Testing and Mat

ASTM D323-82 94, Test Method for Vapor Pressure of Petroleum Products (Reid Method), IBR approved for §§60.111(l), 60.111a(g), 60.1

ASTM D381-80 "Standard Test Method for Existent Gum in Fuels by Jet Evaporation,"

ASTM D388-77 Standard Specification for Classification of Coals by Rank, ASTM D 388-77

ASTM D388-92 Standard Classification of Coals by Rank

ASTM D388-99 Standard Classification of Coals by Rank, incorporation by reference for appendix F of this part.

ASTM D388-38 Class I, Group 2, "Standard Specifications for Classification of Coal by Rank,"

ASTM D388-77 90, 91, 95, 98a, 99 (Reapproved 2004)§1 , Standard Specification for Classification of Coals by Rank, IBR approved for

ASTM D388-77 90, 91, 95, 98a, Standard Specification for Classification of Coals by Rank, IBR approved for §§60.251(b) and (c) of s

ASTM D388-99.1 Standard Classification of Coals by Rank,1 IBR approved for §63.7575.

ASTM D396-90a Standard Specification for Fuel Oils

ASTM D396-02a Standard Specification for Fuel Oils,1 IBR approved for §63.7575.

ASTM D396-78 89, 90, 92, 96, 98, Standard Specification for Fuel Oils, IBR approved for §§60.41b of subpart Db of this part, 60.41c

ASTM D412-98A "Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension,"

ASTM D413-82 (1993), Standard Test Methods for Rubber Property-Adhesion to Flexible Substrate

ASTM D445-65 Test for Viscosity of Transparent and Opaque Liquids

ASTM D445-65). Standard Method of Test for Viscosity of Transparent and Opaque Liquids (ASTM D445-65).

ASTM D445-74 "Test for Kinematic Viscosity of Transparent and Opaque Liquids,"

ASTM D465-82 "Standard Test Methods for Acid Number of Rosin,"

ASTM D471 Standard D 471. American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

ASTM D471-96 Standard Test Method for Rubber Property-Effect of Liquids

ASTM D509-70 (Reapproved 1981), "Standard Methods of Sampling and Grading Rosin,"

ASTM D523-89 (Reapproved 1999), Standard Test Method for Specular Gloss,

ASTM D523-89 Standard Test Method for Specular Gloss, IBR approved for §63.782.

ASTM D566-76 (Reapproved 1982), "Standard Test Method for Dropping Point of Lubricating Grease,"

ASTM D570-95 Standard Test Method for Water Absorption of Plastics

ASTM D610-85 (Reapproved 1989), Standard Test Method for Evaluating Degree of Rusting on Painted Steel Surfaces;

ASTM D611-82 "Standard Test Methods for Aniline Point and Mixed Aniline Point of Petroleum Products and Hydrocarbon Solvents,"

ASTM D635-97 Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position

ASTM D638-03 "Standard Test Method for Tensile Properties of Plastics."

ASTM D665-98 Standard Test Method for Rust-Preventing Characteristics of Inhibited Mineral Oil in the Presence of Water

ASTM D721-56T "Tentative Method of Test for Oil Content of Petroleum Waxes" (Revised 1956)

ASTM D729-81 "Standard Specification for Vinylidene Chloride Molding Compounds,"

ASTM D737-75 Standard Test Method for Air Permeability of Textile Fabrics, incorporation by reference (IBR) approved January 27, 19

ASTM D751-95 Standard Test Methods for Coated Fabrics

ASTM D781-1968 Standard Test Methods for Puncture and Stiffness of Paperboard, and Corrugated and Solid Fiberboard, ASTM D-781-1968

ASTM D822-89 Standard Practice for Conducting Tests on Paint and Related Coatings and Materials using Filtered Open-Flame Carbon-Ar

ASTM D835-85 Standard Specification for Refined Benzene-485, IBR approved September 14, 1989 for §61.270(a).

ASTM D836-84 Standard Specification for Industrial Grade Benzene, IBR approved September 14, 1989 for §61.270(a).

ASTM D882-97 Standard Test Method for Tensile Properties of Thin Plastic Sheeting

ASTM D938-71 (Reapproved 1981), "Standard Test Method for Congealing Point of Petroleum Waxes, Including Petrolatum,"

ASTM D968-81 "Standard Test Methods for Abrasion Resistance of Organic Coatings by the Falling Abrasive Tester,"

ASTM D975-91 Standard Specification for Diesel Fuel Oils

ASTM D975-98 Standard Specification for Diesel Fuel Oils

ASTM D975-78 96, 98a, Standard Specification for Diesel Fuel Oils, IBR approved for §§60.111(b) of subpart K of this part and 60.11

ASTM D1004-94a Standard Test Method for Initial Tear Resistance of Plastic Film and Sheeting

ASTM D1037-89 Standard Test Methods for Evaluating the Properties of Wood-Base Fiber and Particle Panel Materials

ASTM D1072-06 Standard Test Method for Total Sulfur in Fuel Gases by Combustion and Barium Chloride Titration

ASTM D1072-80 90 (Reapproved 1994), Standard Test Method for Total Sulfur in Fuel Gases, IBR approved for §60.335(b)(10)(ii).

ASTM D1072-90 (Reapproved 1999), Standard Test Method for Total Sulfur in Fuel Gases, IBR approved for §60.4415(a)(1)(ii).

ASTM D1137-53 75, Standard Method for Analysis of Natural Gases and Related Types of Gaseous Mixtures by the Mass Spectrometer, IBF

ASTM D1193-77 91, Standard Specification for Reagent Water, IBR approved for appendix B: Method 101, Section 7.1.1; Method 101A, Se

ASTM D1217-993 (Reapproved 1998), Standard Test Method for Density and Relative Density (Specific Gravity) of Liquids by Bingham Py

ASTM D1238-82 "Standard Test Method for Flow Rates of Thermoplastics by Extrusion Plastometer,"

ASTM D1238-90b Standard Test Method for Flow Rates of Thermoplastics for Extrusion Plastometer

ASTM D1243-79 "Standard Test Method for Dilute Solution Viscosity of Vinyl Chloride Polymers,"

ASTM D1248-84 (1989), Standard Specification for Polyethylene Plastic Molding and Extrusion Materials,

ASTM D1248-84(1989) Standard Specification for Polyethylene Plastics Molding and Extrusion Materials;

ASTM D1250-07 , Standard Guide for Use of the Petroleum Measurement Tables

ASTM D1266-87 91, 98, Standard Test Method for Sulfur in Petroleum Products (Lamp Method), IBR approved for §§60.106(j)(2) and 60.3

ASTM D1266-98 (Reapproved 2003)e1, Standard Test Method for Sulfur in Petroleum Products (Lamp Method), IBR approved for §60.4415(a)

ASTM D1298-99 Standard Test Method for Density, Relative Density (Specific Gravity) or API Gravity of Crude Petroleum and Liquid Pe

ASTM D1303-55 (Reapproved 1979), "Standard Test Method for Total Chlorine in Vinyl Chloride Polymers and Copolymers,"

ASTM D1331-89 Standard Test Methods for Surface and Interfacial Tension of Solutions of Surface Active Agents, IBR approved for app

ASTM D1353-78 "Standard Test Method for Nonvolatile Matter in Volatile Solvents for Use in Paint, Varnish, Lacquer, and Related Pro

ASTM D1386-78 "Standard Test Method for Acid Number (Empirical) of Synthetic and Natural Waxes" (Revised 1978)

ASTM D1386-78 "Standard Test Method for Saponification Number (Empirical) of Synthetic and Natural Waxes" (Revised 1978)

ASTM D1387-78 "Standard Test Method for Acid Number (Empirical) of Synthetic and Natural Waxes" (Revised 1978),

ASTM D1415-88 "Standard Test Method for Rubber Property-International Hardness"

ASTM D1418-81 "Standard Practice for Rubber and Rubber Latices-Nomenclature,"

ASTM D1434-82 (1988), Standard Test Method for Determining Gas Permeability Characteristics of Plastic Film and Sheeting

ASTM D1457-56T "Test for Thermal Instability index of Tetrafluoroethylene Homopolymer" (Revised 1956)

ASTM D1475-85 Standard Test Method for Density of Paint, Varnish, Lacquer, and Related Products

ASTM D1475-60 (Reapproved 1980), 90, Standard Test Method for Density of Paint, Varnish Lacquer, and Related Products, IBR approved

ASTM D1475-90 Standard Test Method for Density of Paint, Varnish Lacquer, and Related Products, IBR approved for §63.788, appendix
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ASTM D3684-01 Standard Test Method for Total Mercury in Coal by the Oxygen Bomb Combustion/Atomic Absorption Method, 1 IBR approved
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ASTM D4084-05 Standard Test Method for Analysis of Hydrogen Sulfide in Gaseous Fuels (Lead Acetate Reaction Rate Method), IBR approved

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ASTM D4606-03 Standard Test Method for Determination of Arsenic and Selenium in Coal by the Hydride Generation/Atomic Absorption Method

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ASTM D4809-95 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter (Precision Method), IBR approved

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