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Current OMB control No.	Title	Title 49 CFR part or section where identified and described
2137–0557	Approvals for Hazardous Materials	§§ 107.402, 107.403, 107.405, 107.502, 107.503, 107.705, 107.713, 107.715, 107.717, 107.803, 107.805, 107.807, 110.30, 172.101, 172.102, Special Provisions 19, 26, 53, 55, 60, 105, 118, 121, 125, 129, 131, 133, 136, B45, B55, B61, B69, B77, B81, N10, N72, 173.2a, 173.4, 173.7, 173.21, 173.22, 173.24, 173.31, 173.38, 173.51, 173.56, 173.58, 173.59, 173.124, 173.128, 173.159, 173.166, 173.171, 173.214, 173.222, 173.224, 173.225, 173.245, 173.301, 173.305, 173.306, 173.314, 173.315, 173.316, 173.318, 173.334, 173.340, 173.411, 173.433, 173.457, 173.471, 173.472, 173.476, 174.50, 174.63, 175.8, 175.85, 175.701, 175.703, 176.168, 176.340, 176.704, 178.3, 178.35, 178.47, 178.53, 178.273, 178.274, 178.503, 178.509, 178.605, 178.606, 178.608, 178.801, 178.813, 180.213.
2137–0559	(Rail Carriers and Tank Car Tank Requirements) Requirements for Rail Tank Car Tanks—Transportation of Hazardous Materials by Rail..	§§ 172.102, Special provisions: B45, B46, B55, B61, B69, B77, B78, B81; 173.10, 173.31, 174.20, 174.50, 174.63, 174.104, 174.114, 174.204, 179.3, 179.4, 179.5, 179.6, 179.7, 179.11, 179.18, 179.22, 179.100–9, 179.100–12, 179.100–13, 179.100–16, 179.100–17, 179.102–4, 179.102–17, 179.103–1, 179.103–2, 179.103–3, 179.103–5, 179.200–10, 179.200–14, 179.200–15, 179.200–16, 179.200–17, 179.200–19, 179.201–3, 179.201–8, 179.201–9, 179.220–4, 179.220–7, 179.220–8, 179.220–13, 179.220–15, 179.220–17, 179.220–18, 179.220–20, 179.220–22, 179.300–3, 179.300–7, 179.300–9, 179.300–12, 179.300–13, 179.300–15, 179.300–20, 179.400–3, 179.400–4, 179.400–11, 179.400–13, 179.400–16, 179.400–17, 179.400–19, 179.400–20, 179.500–5, 179.500–8, 179.500–12, 179.500–18, 180.505, 180.509, 180.515, 180.517.
2137–0572	Testing Requirements for Non-Bulk Packaging ..	§§ 178.2, 178.601.
2137–0582	Container Certification Statement	§§ 176.27, 176.172.
2137–0586	Hazardous Materials Public Sector Training and Planning Grants.	Part 110.
2137–0591	Response Plans for Shipments of Oil	Part 130.
2137–0595	Cargo Tank Motor Vehicles in Liquefied Compressed Gas Service.	§§ 173.315, 178.337–8, 178.337–9, 180.405, 180.416.
2137–0612	Hazardous Materials Security Plans	Part 172, Subpart I, §§ 172.800, 172.802, 172.804.
2137–0613	Subsidiary Hazard Class and Number/Type of Packagings.	§§ 172.202, 172.203
2137–0620	Inspection and Testing of Meter Provers	Part 173, Subpart A, § 173.5a.
2137–0621	Requirements for United Nations (UN) Cylinders	§§ 173.301, 173.304, 173.304b, 178.69, 178.70, 178.74, 178.75, 180.207, 180.209, 180.212, 180.215, 180.217.

[Amdt. 171–111, 56 FR 66157, Dec. 20, 1991, as amended at 57 FR 1877, Jan. 16, 1992; Amdt. 171–121, 58 FR 51527, Oct. 1, 1993; Amdt. 171–137, 61 FR 33254, June 26, 1996; 62 FR 51558, Oct. 1, 1997; 64 FR 51915, Sept. 27, 1999; 64 FR 61220, Nov. 10, 1999; 65 FR 58619, Sept. 29, 2000; 67 FR 61012, Sept. 27, 2002; 67 FR 51640, Aug. 8, 2002; 68 FR 31628, May 28, 2003; 68 FR 45010, July 31, 2003; 69 FR 54045, Sept. 7, 2004; 70 FR 33379, June 8, 2005; 70 FR 56090, Sept. 23, 2005; 70 FR 73163, Dec. 9, 2005; 71 FR 54391, Sept. 14, 2006; 72 FR 55683, Oct. 1, 2007]

§ 171.7 Reference material.

(a) *Matter incorporated by reference—*
 (1) *General.* There is incorporated, by reference in parts 170–189 of this sub-

chapter, matter referred to that is not specifically set forth. This matter is hereby made a part of the regulations in parts 170–189 of this subchapter. The

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matter subject to change is incorporated only as it is in effect on the date of issuance of the regulation referring to that matter. The material listed in paragraph (a)(3) has been approved for incorporation by reference by the Director of the Federal Register in accordance with 5 U.S.C 552(a) and 1 CFR part 51. Material is incorporated as it exists on the date of the approval and a notice of any change in the material will be published in the FEDERAL REGISTER. Matters referenced by footnote are included as part of the regulations of this subchapter.

(2) *Accessibility of materials.* All incorporated matter is available for inspection at:

(i) The Office of Hazardous Materials Safety, Office of Hazardous Materials Standards, East Building, PHH-10, 1200 New Jersey Avenue, SE., Washington, DC 20590-0001. For information on the

availability of this material at PHH-10, call 1-800-467-4922, or go to: <http://www.phmsa.dot.gov>; and

(ii) The National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html.

(3) *Table of material incorporated by reference.* The following table sets forth material incorporated by reference. The first column lists the name and address of the organization from which the material is available and the name of the material. The second column lists the section(s) of this subchapter, other than §171.7, in which the matter is referenced. The second column is presented for information only and may not be all inclusive.

Source and name of material	49 CFR reference
<i>Air Transport Association of America</i> , 1301 Pennsylvania Avenue, N.W., Washington, DC 20004-1707: ATA Specification No. 300 Packaging of Airline Supplies, Revision 19, July 31, 1996	172.102.
<i>The Aluminum Association</i> , 420 Lexington Avenue, New York, NY 10017, telephone 301-645-0756, http://www.aluminum.org : Aluminum Standards and Data, Seventh Edition, June 1982	172.102; 178.65.
Welding Aluminum: Theory and Practice, 2002 Fourth Edition	178.68
<i>American National Standards Institute, Inc.</i> , 25 West 43rd Street, New York, NY 10036: ANSI/ASHRAE 15-94, Safety Code for Mechanical Refrigeration	173.306; 173.307.
ANSI B16.5-77, Steel Pipe Flanges, Flanged Fittings	178.360-4.
ANSI N14.1 Uranium Hexafluoride—Packaging for Transport, 1971, 1982, 1987, 1990, 1995 and 2001 Editions.	173.417; 173.420.
<i>American Petroleum Institute</i> , 1220 L Street, NW, Washington, D.C. 20005-4070: API Recommended Practice Closures of Underground Petroleum Storage Tanks, 3rd Edition, March 1996.	172.102.
<i>American Pyrotechnics Association (APA)</i> , P.O. Box 30438, Bethesda, MD 20824, (301) 907-8181, www.americanpyro.com : APA Standard 87-1, Standard for Construction and Approval for Transportation of Fireworks, Novelties, and Theatrical Pyrotechnics, December 1, 2001 version.	173.56.
<i>American Society of Mechanical Engineers</i> , ASME International, 22 Law Drive, P.O. Box 2900, Fairfield, NJ 07007-2900, telephone 1-800-843-2763 or 1-973-882-1170, http://www.asme.org .	

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Source and name of material	49 CFR reference
'ASME Code'; ASME Code, Sections II (Parts A and B), V, VIII (Division 1), and IX of 1998 Edition of American Society of Mechanical Engineers Boiler and Pressure Vessel Code.	172.102; 173.5b; 173.24b; 173.32; 173.306; 173.315; 173.318; 173.420; 178.245–1; 178.245–3; 178.245–4; 178.245–6; 178.245–7; 178.255–1; 178.255–2; 178.255–14; 178.255–15; 178.270–2; 178.270–3; 178.270–7; 178.270–9; 178.270–11; 178.270–12; 178.271–1; 178.272–1; 178.273; 178.274; 178.276; 178.277; 178.320; 178.337–1; 178.337–2; 178.337–3; 178.337–4; 178.337–6; 178.337–16; 178.337–18; 178.338–1; 178.338–2; 178.338–3; 178.338–4; 178.338–5; 178.338–6; 178.338–13; 178.338–16; 178.338–18; 178.338–19; 178.345–1; 178.345–2; 178.345–3; 178.345–4; 178.345–7; 178.345–14; 178.345–15; 178.346–1; 178.347–1; 178.348–1; 179.400–3; 180.407.
Pipeline Transportation Systems for Liquid Hydrocarbons and other Liquids, Chapters II, III, IV, V and VI, ASME B31.4–1998 Edition.	173.5a.
American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 1942, telephone (610) 832–9585, http://www.astm.org .	
Noncurrent ASTM Standards are available from: Engineering Societies Library, 354 East 47th Street, New York, NY 10017	
ASTM A 20/A 20M–93a Standard Specification for General Requirements for Steel Plates for Pressure Vessels.	178.337–2; 179.102–4; 179.102–1; 179.102–17.
ASTM A 47–68 Malleable Iron Castings	179.200–15.
ASTM A 53, ASTM A 53/A 53M–06a Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless.	173.5b.
ASTM A 106, ASTM A 106/A 106M–06a Standard Specification for Seamless Carbon Steel Pipe for High-Temperature Service.	173.5b.

Source and name of material	49 CFR reference
ASTM A 240/A 240M-99b Standard Specification for Heat-Resisting Chromium and Chromium-Nickel Stainless Steel Plate, Sheet and Strip for Pressure Vessels.	178.57; 178.358-5; 179.100-7; 179.100-10; 179.102-1; 179.102-4; 179.102-17; 179.200-7; 179.201-5; 179.220-7; 179.300-7; 179.400-5.
ASTM A 242-81 Standard Specification for High-Strength Low-Alloy Structural Steel	178.338-2.
ASTM A 262-93a Standard Practices for Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels.	179.100-7; 179.200-7; 179.201-4.
ASTM A 285-78 Pressure Vessel Plates, Carbon Steel, Low- and Intermediate-Tensile Strength	179.300-7.
ASTM A 300-58 Steel Plates for Pressure Vessels for Service at Low Temperatures	178.337-2.
ASTM A 302/A 302M-93 Standard Specification for Pressure Vessel Plates, Alloy Steel, Manganese-Molybdenum and Manganese-Molybdenum Nickel.	179.100-7; 179.200-7; 179.220-7.
ASTM A 333-67 Seamless and Welded Steel Pipe for Low-Temperature Service	178.45.
ASTM A 370-94 Standard Test 179.102-1; 179.102-4; Methods and Definitions for Mechanical Testing of Steel Products.	179.102-17.
ASTM A 441-81 Standard Specification for High-Strength Low-Alloy Structural Manganese Vanadium Steel.	178.338-2.
ASTM A 514-81 Standard Specification for High-Yield Strength Quenched and Tempered Alloy Steel Plate, Suitable for Welding.	178.338-2.
ASTM A 515/A 515M-03 Standard Specification for Pressure Vessel Plates, Carbon Steel, for Intermediate- and Higher-Temperature Service.	179.300-7.
ASTM A 516/A 516M-90 Standard Specification for Pressure Vessel Plates, Carbon Steel, for Moderate and Lower-Temperature Service.	178.337-2; 179.100-7; 179.102-1; 179.102-2; 179.102-4; 179.102-17; 179.200-7; 179.220-7; 179.300-7.
ASTM A 537/A 537M-91 Standard Specification for Pressure Vessel Plates, Heat-Treated, Carbon-Manganese-Silicon Steel.	179.100-7; 179.102-4; 179.102-17.
ASTM A 572-82 Standard Specification for High-Strength Low-Alloy Columbium-Vanadium Steels of Structural Quality.	178.338-2.
ASTM A 588-81 Standard Specification for High-Strength Low-Alloy Structural Steel with 50 Ksi Minimum Yield Point to 4 in. Thick.	178.338-2.
ASTM A 606-75 Standard Specification for Steel Sheet and Strip Hot-Rolled and Cold-Rolled, High-Strength, Low-Alloy, with Improved Atmospheric Corrosion Resistance, 1975 (Re-approved 1981).	178.338-2.
ASTM A 607-98 Standard Specification for Steel, Sheet and Strip, High-Strength, Low-Alloy, Columbium or Vanadium, or Both, Hot-Rolled and Cold-Rolled.	178.338-2.
ASTM A 612-72a High Strength Steel Plates for Pressure Vessels for Moderate and Lower Temperature Service.	178.337-2.
ASTM A 633-79a Standard Specification for Normalized High-Strength Low-Alloy Structural Steel, 1979 Edition.	178.338-2.
ASTM A 715-81 Standard Specification for Steel Sheet and Strip, Hot-Rolled, High-Strength, Low-Alloy with Improved Formability, 1981.	178.338-2.
ASTM A 1008/A 1008M-03 Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy and High Strength Low-Alloy with Improved Formability.	178.338-2; 178.345-2
ASTM A 1011/A 1011M-03a Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low Alloy and High Strength Low-Alloy with Improved Formability.	178.338-2; 178.345-2
ASTM B 162-93a Standard Specification for Nickel Plate, Sheet, and Strip	173.249; 179.200-7.
ASTM B 209-93 Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate	179.100-7; 179.200-7; 179.220-7.
ASTM B 221-76 Aluminum Alloy Extruded Bars, Rods, Shapes, and Tubes	178.46.
ASTM B 557-84 Tension Testing Wrought and Cast Aluminum and Magnesium-Alloy Products ..	178.46.
ASTM B 580-79 Standard Specification for Anodic Oxide Coatings on Aluminum, (Re-approved 2000).	173.316; 173.318; 178.338-17.
ASTM D 1238-90b Standard Test Method for Flow Rates of Thermoplastics for Extrusion Plastometer.	173.225.
ASTM D 1709-01 Standard Text Methods for Impact Resistance of Plastic Film by the Free-Falling Dart Method.	173.197.
ASTM D 1835-97 Standard Specification for Liquefied Petroleum (LP) Gases	180.209.

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ASTM D 1838–64 Copper Strip Corrosion by Liquefied Petroleum (LP) Gases	173.315.
ASTM D 1922–00a Standard Test Method for Propagation Tear Resistance of Plastic Film and Thin Sheeting by Pendulum Method.	173.197.
ASTM D 4206–96 Standard Test Method for Sustained Burning of Liquid Mixtures Using the Small Scale Open-Cup Apparatus.	173.120.
ASTM D 4359–90 Standard Test Method for Determining Whether a Material is a Liquid or a Solid.	171.8.
ASTM E 8–99 Standard Test Methods for Tension Testing of Metallic Materials	178.36; 178.37; 178.38; 178.39; 178.44; 178.45; 178.50; 178.51; 178.53; 178.55; 178.56; 178.57; 178.58; 178.59; 178.60; 178.61; 178.68.
ASTM E 23–98 Standard Test Methods for Notched Bar Impact Testing of Metallic Materials	178.57.
ASTM E 112–88 Standard Test Methods for Determining Average Grain Size	178.44.
ASTM E 112–96 Standard Test Methods for Determining Average Grain Size, 1996 Edition	178.274; Part 178, appendix A.
ASTM E 114–95 Standard Practice for Ultrasonic Pulse-Echo Straight-Beam Examination by the Contact Method.	178.45.
ASTM E 213–98 Standard Practice for Ultrasonic Examination of Metal Pipe and Tubing	178.45.
<i>American Water Works Association</i> , 1010 Vermont Avenue, N.W., Suite 810, Washington, DC 20005:	
AWWA Standard C207–55, Steel Pipe Flanges, 1955	178.360–4.
<i>American Welding Society</i> , 550 N.W. Le Jeune Road, Miami, Florida 33126:	
AWS Code B 3.0; Standard Qualification Procedure; 1972 (FRB 3.0–41, rev. May 1973)	178.356–2, 178.358–2.
AWS Code D 1.0; Code for Welding in Building Construction (FR D 1.0–66, 1966)	178.356–2; 178.358–2.
<i>Association of American Railroads</i> , American Railroads Building, 50 F Street, NW., Washington, DC 20001; telephone (877) 999–8824, http://www.aar.org/publications.com ;	

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AAR Manual of Standards and Recommended Practices, Section C—Part III, Specifications for Tank Cars, Specification M-1002, (AAR Specifications for Tank Cars), December 2000.	173.31; 174.63; 179.6; 179.7; 179.15; 179.16; 179.20; 179.22; 179.100-9; 179.100-10; 179.100-12; 179.100-13; 179.100-14; 179.100-18; 179.101-1; 179.102-1; 179.102-4; 179.102-17; 179.103-5; 179.200-7; 179.200-9; 179.200-10; 179.200-11; 179.200-13; 179.200-17; 179.200-22; 179.201-6; 179.220-6; 179.220-7; 179.220-10; 179.220-11; 179.220-14; 179.220-18; 179.220-26; 179.300-9; 179.300-10; 179.300-15; 179.300-17; 179.400-5; 179.400-6; 179.400-8; 179.400-11; 179.400-12; 179.400-15; 179.400-18; 179.400-20; 179.400-25; 180.509; 180.513; 180.515; 180.517.
AAR Manual of Standards and Recommended Practices, Section I, Specially Equipped Freight Car and Intermodal Equipment, 1988.	174.55; 174.63.
AAR Specifications for Design, Fabrication and Construction of Freight Cars, Volume 1, 1988 <i>Chlorine Institute, Inc.</i> , 1300 Wilson Boulevard, Arlington, VA 22209	179.16.
AAR Standard 286; AAR Manual of Standards and Recommended Practices, Section C, Car Construction Fundamentals and Details, Standard S-286, Free/Unrestricted Interchange for 286,000 lb Gross Rail Load Cars (Adopted 2002; Revised: 2003, 2005, 2006).	179.13
Chlorine Institute Emergency Kit "A" for 100-lb. & 150 lb. Chlorine Cylinders (with the exception of repair method using Device 8 for side leaks), Edition 10, June 2003.	173.3
Chlorine Institute Emergency Kit "B" for Chlorine Ton Containers (with the exception of repair method using Device 9 for side leaks), Edition 9, June 2003.	173.3
Type 1½ JQ 225, Dwg., H51970, Revision F, November 1996; or Type 1½ JQ 225, Dwg. H50155, Revision H, November 1996.	173.315.
Section 3, Pamphlet 57, Emergency Shut-Off Systems for Bulk Transfer of Chlorine, Edition 4, October 2003.	177.840.
Section 3, Pamphlet 166, Angle Valve Guidelines for Chlorine Bulk Transportation, 1st Edition, October 2002.	178.337-9.
Standard Chlorine Angle Valve Assembly, Dwg. 104-8, July 1993	178.337-9.
Excess Flow Valve with Removable Seat, Dwg. 101-7, July 1993	178.337-8.
Excess Flow Valve with Removable Basket, Dwg. 106-6, July 1993	178.337-8.
Standards for Housing and Manway Covers for Steel Cargo Tanks, Dwgs. 137-1 and 137-2, September 1, 1982.	178.337-10.
Typical Manway Arrangement Chlorine Cargo Tank, Dwg 137-5, November 1996	178.337-10.
Canadian General Standards Board, Place du Portage III, 6B1 11 Laurier Street, Gatineau, Quebec, Canada K1A 1G6 National Standard of Canada (CAN/CGSB 43.147—2005) Construction, Modification, Qualification, Maintenance, and Selection and Use of Means of Containment for the Handling, Offering for Transport, or Transportation of Dangerous Goods by Rail.	171.12

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<i>Compressed Gas Association, Inc.</i> , 4221 Walney Road, 5th Floor, Chantilly, Virginia 20151, telephone (703) 788–2700, http://www.cganet.com :	
CGA Pamphlet C–3, Standards for Welding on Thin-Walled Steel Cylinders, 1994	178.47; 178.50; 178.51; 178.53; 178.55; 178.56; 178.57; 178.58; 178.59; 178.60; 178.61; 178.65; 178.68; 180.211.
CGA C–5, Cylinder Service Life—Seamless Steel High Pressure Cylinders, 1991 (reaffirmed 1995).	173.302a.
CGA Pamphlet C–6, Standards for Visual Inspection of Steel Compressed Gas Cylinders, 1993	173.3, 173.198, 180.205, 180.209, 180.211, 180.411, 180.519.
CGA Pamphlet C–6.1, Standards for Visual Inspection of High Pressure Aluminum Compressed Gas Cylinders, 2002, Fourth Edition.	180.205; 180.209
CGA Pamphlet C–6.2, Guidelines for Visual Inspection and Requalification of Fiber Reinforced High Pressure Cylinders, 1996, Third Edition.	180.205.
CGA Pamphlet C–6.3, Guidelines for Visual Inspection and Requalification of Low Pressure Aluminum Compressed Gas Cylinders, 1991.	180.205; 180.209.
CGA C–7, Guide to Preparation of Precautionary Labeling and Marking of Compressed Gas Containers, Appendix A, issued 2004 (8th Edition).	172.400a.
CGA Pamphlet C–8, Standard for Requalification of DOT-3HT Cylinder Design, 1985	180.205; 180.209.
CGA Pamphlet C–11, Recommended Practices for Inspection of Compressed Gas Cylinders at Time of Manufacture, 2001, Third Edition.	178.35.
CGA Pamphlet C–12, Qualification Procedure for Acetylene Cylinder Design, 1994	173.301; 173.303; 178.59; 178.60.
CGA Pamphlet C–13, Guidelines for Periodic Visual Inspection and Requalification of Acetylene Cylinders, 2000, Fourth Edition.	173.303; 180.205; 180.209.
CGA Pamphlet C–14, Procedures for Fire Testing of DOT Cylinder Pressure Relief Device Systems, 1979.	173.301; 173.323.
CGA Pamphlet G–2.2, Guideline Method for Determining Minimum of 0.2% Water in Anhydrous Ammonia, 1985, Second Edition, Reaffirmed 1997.	173.315.
CGA Pamphlet G–4.1, Cleaning Equipment for Oxygen Service, 1985	178.338–15.
CGA Pamphlet P–20, Standard for the Classification of Toxic Gas Mixtures, 2003, Third Edition	173.115.
CGA Pamphlet P–20, Standard for the Classification of Toxic Gas Mixtures, 1995	173.115.
CGA S–1.1, Pressure Relief Device Standards—Part 1—Cylinders for Compressed Gases, 2005 (with the exception of paragraph 9.1.1.1), Twelfth Edition.	173.301, 173.304a 178.75.
CGA Pamphlet S–1.2, Safety Relief Device Standards Part 2—Cargo and Portable Tanks for Compressed Gases, 1980.	173.315; 173.318; 178.276; 178.277.
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CGA Technical Bulletin TB–25, Design Considerations for Tube Trailers, 2008 Edition	173.301.
<i>Department of Defense (DOD)</i> , 2461 Eisenhower Avenue, Alexandria, VA 22331:	
DOD TB 700–2; NAVSEAINST 8020.8B; AFTO 11A–1–47; DLAR 8220.1: Explosives Hazard Classification Procedures, January 1998.	173.56.
Packaging of Hazardous Material, DLAD 4145.41/ AR 700–143/AFJI 24–210/NAVSUPINST 4030.55B/MCO 4030.40B, January 14, 2000.	173.7
<i>Department of Energy (USDOE)</i> , 100 Independence Avenue SW., Washington, DC 20545:	
USDOE publications available from: Superintendent of Documents, Government Printing Office (GPO) or The National Technical Information Service (NTIS).	
USDOE, CAPE–1662, Revision 1, and Supplement 1, Civilian Application Program Engineering Drawings, April 6, 1988.	178.356–1;
	178.356–2;
	178.358–1;
	178.358–2;
	178.358–3;
	178.358–4.
USDOE, Material and Equipment Specification No. SP–9, Rev. 1, and Supplement—Fire Resistant Phenolic Foam, March 28, 1968.	178.356–2;
USDOE, KSS–471, November 30, 1986—Proposal for Modifications to U.S. Department of Transportation Specification 21PF–1, Fire and Shock Resistant Phenolic Foam—Insulated Metal Overpack.	178.358–2.
	178.358–1;
	178.358–3.
<i>General Services Administration</i> , Specification Office, Room 6662, 7th and D Street, S.W., Washington, DC 20407:	
Federal Specification RR–C–901D, Cylinders, Compressed Gas: Seamless Shatterproof, High Pressure DOT 3AA Steel, and 3AL Aluminum, February 21, 2003 (Superseding RR–C–901C, 1981).	173.302; 173.336; 173.337.
<i>Institute of Makers of Explosives</i> , 1120 19th Street NW., Suite 310, Washington, DC 20036–3605:	
IME Safety Library Publication No. 22 (IME Standard 22), Recommendation for the Safe Transportation of Detonators in a Vehicle with Certain Other Explosive Materials, May 1993.	173.63; 177.835.
<i>International Atomic Energy Agency (IAEA)</i> , P.O. Box 100, Wagramer Strasse 5, A–1400 Vienna, Austria:	

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<p>Also available from: Bernan Associates, 4611-F Assembly Drive, Lanham, MD 20706-4391, USA; or Renouf Publishing Company, Ltd., 812 Proctor Avenue, Ogdensburg, New York 13669, USA.</p> <p>IAEA, Regulations for the Safe Transport of Radioactive Material, (IAEA Regulations), 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised).</p>	<p>171.22; 171.23; 171.26, 173.415, 173.416, 173.417, 173.473</p>
<p><i>International Civil Aviation Organization ("ICAO")</i>, P.O. Box 400, Place de l'Aviation International, 1000 Sherbrooke Street West, Montreal, Quebec, Canada H3A 2R2, 1-514-954-8219, http://www.icao.int</p> <p>ICAO Technical Instructions available from: INTEREG, International Regulations, Publishing and Distribution Organization, P.O. Box 60105, Chicago, IL 60660.</p> <p>Technical Instructions for the Safe Transport of Dangerous Goods by Air ("ICAO Technical Instructions"), 2009-2010 Edition.</p>	<p>171.8; 171.22; 171.23; 171.24; 172.202; 172.401; 172.512; 172.602; 173.56; 173.320; 175.33; 178.3.</p>
<p>International Electrotechnical Commission (IEC) 3, rue de Varembe, P.O. Box 131, CH-1211, GENEVA 20, Switzerland:</p> <p>Fuel cell technologies—Part 6-1: Micro fuel cell power systems—Safety, IEC/PAS 62282-6-1:2006(E), First Edition 2006-02, with Corrigendum 1, First Edition 2007-04.</p>	<p>§ 175.10.</p>
<p><i>International Maritime Organization ("IMO")</i>, 4 Albert Embankment, London, SE1 7SR, United Kingdom or New York Nautical Instrument & Service Corporation, 140 West Broadway, New York, NY 10013, +44 (0) 20 7735 7611, http://www.imo.org</p>	
<p>International Convention for the Safety of Life at Sea, ("SOLAS") 176.63, 176.84. Amendments 2002, Chapter II-2/Regulation 19, Consolidated Edition 2004..</p>	
<p>International Maritime Dangerous Goods Code ("IMDG Code"), 2008 Edition, Incorporating Amendment 34-08 (English Edition), Volumes 1 and 2.</p>	<p>171.22; 171.23; 171.25; 172.101 Appendix B; 172.202; 172.401; 172.502; 172.602; 173.21; 173.56; 176.2; 176.5; 176.11; 176.27; 176.30; 176.84; 178.3; 178.274.</p>
<p><i>International Organization for Standardization</i>, Case Postale 56, CH-1211, Geneve 20, Switzerland, http://www.iso.org</p>	
<p>Also available from: ANSI 25, West 43rd Street, New York, NY 10036, 1-212-642-4900, http://www.ansi.org.</p>	
<p>ISO 535-1991(E) Paper and board—Determination of water absorptiveness—Cobb method</p>	<p>178.516; 178.707; 178.708.</p>
<p>ISO 1496-1: 1990 (E)—Series 1 freight containers—Specification and testing, Part 1: General cargo containers. Fifth Edition, (August 15, 1990).</p>	<p>173.411</p>
<p>ISO 1496-3—Series 1 freight containers—Specification and testing—Part 3: Tank containers for liquids, gases and pressurized dry bulk, Fourth edition, March 1995, (E).</p>	<p>178.74; 178.75; 178.274.</p>
<p>ISO 2431-1984(E) Standard Cup Method</p>	<p>173.121.</p>
<p>ISO 2592-1973(E) Petroleum products—Determination of flash and fire points—Cleveland open cup method.</p>	<p>173.120.</p>
<p>ISO 2919-1980(E) Sealed radioactive sources—Classification</p>	<p>173.469.</p>
<p>ISO 3036-1975(E) Board—Determination of puncture resistance</p>	<p>178.708.</p>
<p>ISO 3574-1986(E) Cold-reduced carbon steel sheet of commercial and drawing qualities</p>	<p>178.503; Part 178, appendix C.</p>
<p>ISO 3807-2, Cylinders for acetylene—Basic requirements—Part 2: Cylinders with fusible plugs, First edition, March 2000, (E).</p>	<p>173.303; 178.71.</p>
<p>ISO 4126-1 Safety valves—Part 1: General Requirements, December 15, 1991, First Edition</p>	<p>178.274.</p>
<p>ISO 6406, Gas cylinders—Seamless steel gas cylinders—Periodic inspection and testing, Second edition, February 2005, (E).</p>	<p>180.207.</p>
<p>ISO 6892 Metallic materials—Tensile testing, July 15, 1984, First Edition</p>	<p>178.274.</p>
<p>ISO 7225, Gas cylinders—Precautionary labels, Second Edition, July 2005, (E)</p>	<p>178.71.</p>
<p>ISO 7866, Gas cylinders—Refillable seamless aluminum alloy gas cylinders—Design, construction and testing, First edition, June 1999, (E).</p>	<p>178.71.</p>
<p>ISO 8115 Cotton bales—Dimensions and density, 1986 Edition</p>	<p>172.102.</p>
<p>ISO 9809-1: Gas cylinders—Refillable seamless steel gas cylinders—Design, construction and testing—Part 1: Quenched and tempered steel cylinders with tensile strength less than 1 100 MPa., First edition, June 1999, (E).</p>	<p>178.37; 178.71; 178.75.</p>
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<p>ISO 9809-3: Gas cylinders—Refillable seamless steel gas cylinders—Design, construction and testing—Part 3: Normalized steel cylinders, First edition, December 2000, (E).</p>	<p>178.71; 178.75.</p>
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ISO 10297, Gas cylinders—Refillable gas cylinder valves—Specification and type testing, First edition, May 1999, (E).	173.301b, 178.71.
ISO 10461, Gas cylinders—Seamless aluminum—alloy gas cylinders—Periodic inspection and testing, Second edition, February 2005, (E).	180.207.
ISO 10462, Gas cylinders—Transportable cylinders for dissolved acetylene—Periodic inspection and maintenance, Second edition, February 2005, (E).	180.207.
ISO 11114–1, Transportable gas cylinders—Compatibility of cylinder and valve materials with gas contents—Part 1: Metallic materials, First edition, October 1997, (E).	173.301b; 178.71.
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ISO 11117, Gas cylinders—Valve protection caps and valve guards for industrial and medical gas cylinders—Design, construction and tests, First edition, August 1998, (E).	173.301b.
ISO 11118, Gas cylinders—Non-refillable metallic gas cylinders—Specification and test methods, First edition, October 1999, (E).	178.71.
ISO 11119–1, Gas cylinders—Gas cylinders of composite construction—Specification and test methods—Part 1: Hoop-wrapped composite gas cylinders, First edition, May 2002, (E).	178.71.
ISO 11119–2, Gas cylinders—Gas cylinders of composite construction—Specification and test methods—Part 2: Fully wrapped fibre reinforced composite gas cylinders with load-sharing metal liners, First edition, May 2002, (E).	178.71.
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ISO 11120, Gas cylinders—Refillable seamless steel tubes of water capacity between 150 L and 3000 L—Design, construction and testing, First edition, March 1999, (E).	178.71; 178.75.
ISO 11621, Gas cylinders—Procedures for change of gas service, First edition, April 1997, (E) ..	173.302, 173.336, 173.337.
ISO 11623, Transportable gas cylinders—Periodic inspection and testing of composite gas cylinders, First edition, March 2002, (E).	180.207.
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<i>National Fire Protection Association</i> , Batterymarch Park, Quincy, MA 02269: NFPA 58-Liquefied Petroleum Gas Code, 2001 Edition	173.315.
<i>National Institute of Standards and Technology</i> , Department of Commerce, 5285 Port Royal Road, Springfield, VA 22151: USDC, NBS Handbook H–28 (1957), 1957 Handbook of Screw-Thread Standards for Federal Services, December 1966 Edition.	179.2; 178.45; 178.46.
<i>Organization for Economic Cooperation and Development (OECD)</i> , OECD Publications and Information Center, 2001 L Street, N.W., Suite 700, Washington, DC 20036: OECD Guideline for Testing of Chemicals, No. 404 “Acute Dermal Irritation/Corrosion,” 1992	173.137.
<i>Transport Canada</i> , TDG Canadian Government Publishing Center, Supply and Services, Canada, Ottawa, Ontario, Canada K1A 0S9, 416–973–1868, http://www.tc.gc.ca : Transportation of Dangerous Goods Regulations (Transport Canada TDG Regulations), August 2001 including Clear Language Amendments SOR 2001–286, Amendment 1 (SOR/2002–306) August 8, 2002; Amendment 2 (SOR/2003–273) July 24, 2003; Amendment 3 (SOR/2003–400) December 3, 2003; Amendment 4 (SOR/2005–216) July 13, 2005; Amendment 5 (SOR/2005–279) September 21, 2005; and subsection 4.18(5) of Amendment 6 (SOR/2008–34) February 7, 2008.	171.12; 171.22; 171.23; 172.401; 172.502; 172.519; 172.602; 173.31; 173.32; 173.33.
<i>Truck Trailer Manufacturers Association</i> , 1020 Princess Street, Alexandria, Virginia 22314: TTMA RP No. 61–98, Performance of manhole and/or Fill Opening Assemblies on MC 306, DOT 406, Non-ASME MC 312 and Non-ASME DOT 412 Cargo Tanks, June 1, 1998.	180.405.
TTMA RP No. 81–97, Performance of Spring Loaded Pressure Relief Valves on MC 306, MC 307, MC 312, DOT 406, DOT 407, and DOT 412 Tanks, July 1, 1997 Edition.	178.345–10; 178.346–3.
TTMA TB No. 107, Procedure for Testing In-Service Unmarked and/or Uncertified MC 306 and Non-ASME MC 312 Type Cargo Tank Manhole Covers, June 1, 1998 Edition.	180.405.
<i>United Nations</i> , Publications, 2 United Nations Plaza, Room DC2–853, New York, NY 10017, 1–212–963–8302, http://unp.un.org .	171.8; 171.12; 171.22; 171.23; 172.202; 172.401; 172.502; 173.22; 173.24; 173.24b; 173.40; 173.56; 173.192; 173.197; 173.302b; 173.304b; 178.75; 178.274; 178.801.
UN Recommendations on the Transport of Dangerous Goods, Fifteenth revised edition (2007). Volumes I and II.	

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Source and name of material	49 CFR reference
UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria, Fourth revised edition, (2003), and Addendum 2, (2004).	172.102; 173.21; 173.56; 173.57; 173.58; 173.115; 173.124; 173.125; 173.127; 173.128; 173.137; 173.185; Part 173, appendix H; 178.274.
United States Enrichment Corporation, Inc. (USEC): USEC Inc., 6903 Rockledge Drive, Bethesda, MD 20817. USEC-651—Good Handling Practices for Uranium Hexafluoride, Revision 8, January 1999	173.417

(b) *List of informational materials not requiring incorporation by reference.* The materials listed in this paragraph do not require approval for incorporation by reference and are included for informational purposes. These materials may be used as noted in those sections in which the material is referenced.

Source and name of material	49 CFR reference
<i>American Biological Safety Association</i> 1202 Allanson Road, Mundelein, IL 60060 Risk Group Classification for Infectious Agents, 1998	173.134
<i>American Institute of Chemical Engineers (AIChE)</i> , 3 Park Avenue New York, NY 10016-5991 Process Safety Progress Journal, Vol. 21, No. 2. Example of a Test Method for Venting Sizing: OPPSD/SPI Methodology	Note to § 173. 225(h)(3)(vi).
<i>American Society for Testing and Materials</i> , 100 Barr Harbor Drive, West Conshohocken, PA 19428: Noncurrent ASTM Standards are available from: Engineering Societies Library, 354 East 47th Street, New York, NY 10017 ASTM E 380-89 Standards for Metric Practice	171.10
<i>Association of American Railroads</i> , American Railroads Building, 50 F Street, NW., Washington, DC 20001 AAR Catalog Nos. SE60CHT; SE60CC; SE60CHTE; SE60CE; SE60DC; SE60DE	179.14
AAR Catalog Nos. SE67CC; SE67CE; SE67BHT; SE67BC; SE67BHTE; SE67BE	179.14
AAR Catalog Nos. SE68BHT; SE68BC; SE68BHTE; SE68BE	179.14
AAR Catalog Nos. SE69AHT; SE69AE	179.14
AAR Catalog Nos. SF70CHT; SF70CC; SF70CHTE; SF70CE	179.14
AAR Catalog Nos. SF73AC; SF73AE; SF73AHT; SF73AHT	179.14
AAR Catalog Nos. SF79CHT; SF79CC; SF79CHTE; SF79CE	179.14
<i>Bureau of Explosives</i> , Hazardous Materials Systems (BOE), Association of American Railroads, American Railroads Building, 50 F Street, NW., Washington, DC 20001	
Fetterley's Formula (The Determination of the Relief Dimensions for Safety Valves on Containers in which Liquefied gas is charged and when the exterior surface of the container is exposed to a temperature of 1,200 °F.).	173.315
Pamphlet 6, Illustrating Methods for Loading and Bracing Carload and Less-Than-Carload Shipments of Explosives and Other Dangerous Articles, 1962.	174.55; 174.101; 174.112; 174.115; 174.290
Pamphlet 6A (includes appendix No. 1, October 1944 and appendix 2, December 1945), Illustrating Methods for Loading and Bracing Carload and Less-Than-Carload Shipments of Loaded Projectiles, Loaded Bombs, etc., 1943.	174.101; 174.290
Pamphlet 6C, Illustrating Methods for Loading and Bracing Trailers and Less-Than-Trailer Shipments of Explosives and Other Dangerous Articles Via Trailer-on-Flatcar (TOFC) or Container-on-Flatcar (COFC), 1985.	174.55; 174.63; 174.101; 174.112; 174.115
Emergency Handling of Hazardous Materials in Surface Transportation, 1989	171.7
<i>Centers for Disease Control and Prevention</i> 1600 Clifton Road, Atlanta, GA 30333 Biosafety in Microbiological and Biomedical Laboratories, Fourth Edition, April 1999	173.134
Compressed Gas Association, Inc., 4221 Walney Road, 5th Floor, Chantilly, Virginia 20151 CGA C-1.1, Personnel Training and Certification Guidelines for Cylinder Requalification By the Volumetric Expansion Method, 2004, First Edition.	180.209
<i>National Institutes of Health</i> Bethesda, MD 20892 NIH Guidelines for Research Involving Recombinant DNA Molecules (NIH Guidelines), January 2001, Appendix B.	173.134
<i>Pantone Incorporated</i> 590 Commerce Boulevard, Carlstadt, New Jersey 07072-3098 Pantone® Formula guide coated/uncoated, Second Edition 2004	172.407, 172.519

Source and name of material	49 CFR reference
<i>Society of Plastics Industries, Inc.</i> , Organic Peroxide Producers Safety Division, 1275 K Street, NW., Suite 400, Washington, DC 20005	
Self Accelerating Decomposition Temperature Test, 1972	173.21
<i>Truck Trailer Manufacturers Association</i> , 1020 Princess Street, Alexandria, Virginia 22314, telephone (703) 549–3010, http://www.ttmanet.org .	
TTMA RP No. 96–01, TTMA RP No. 96–01, Structural Integrity of DOT 406, DOT 407, and DOT 412 Cylindrical Cargo Tanks, January 2001 Edition.	178.345–3

[Amdt. 171–111, 55 FR 52466, Dec. 21, 1990; 71 FR 78611, Dec. 29, 2006]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting §171.7, see the List of CFR Sections Affected which appears in the Finding Aids section of the printed volume and on GPO Access.

EDITORIAL NOTE: At 68 FR 19273, Apr. 18, 2003, §171.7(a)(3) was amended by removing the entry for “TTMA TB No. 81” under “Truck Trailer Manufacturers Association”. The amendment could not be incorporated because that entry does not exist.

§ 171.8 Definitions and abbreviations.

In this subchapter,

Administrator means the Administrator, Pipeline and Hazardous Materials Safety Administration.

Aerosol means any non-refillable receptacle containing a gas compressed, liquefied or dissolved under pressure, the sole purpose of which is to expel a nonpoisonous (other than a Division 6.1 Packing Group III material) liquid, paste, or powder and fitted with a self-closing release device allowing the contents to be ejected by the gas.

Aggregate lithium content means the sum of the grams of lithium content or equivalent lithium content contained by the cells comprising a battery.

Agricultural product means a hazardous material, other than a hazardous waste, whose end use directly supports the production of an agricultural commodity including, but not limited to a fertilizer, pesticide, soil amendment or fuel. An *agricultural product* is limited to a material in Class 3, 8 or 9, Division 2.1, 2.2, 5.1, or 6.1, or an ORM-D material.

Approval means a written authorization, including a competent authority approval, from the Associate Administrator or other designated Department official, to perform a function for which prior authorization by the Associate Administrator is required under subchapter C of this chapter (49 CFR parts 171 through 180.)

Approved means approval issued or recognized by the Department unless otherwise specifically indicated in this subchapter.

Asphyxiant gas means a gas which dilutes or replaces oxygen normally in the atmosphere.

Associate Administrator means the Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Materials Safety Administration.

Atmospheric gases means air, nitrogen, oxygen, argon, krypton, neon and xenon.

Authorized Inspection Agency means: (1) A jurisdiction which has adopted and administers one or more sections of the ASME Boiler and Pressure Vessel Code as a legal requirement and has a representative serving as a member of the ASME Conference Committee; or (2) an insurance company which has been licensed or registered by the appropriate authority of a State of the United States or a Province of Canada to underwrite boiler and pressure vessel insurance in such State or Province.

Authorized Inspector means an Inspector who is currently commissioned by the National Board of Boiler and Pressure Vessel Inspectors and employed as an Inspector by an Authorized Inspection Agency.

Bag means a flexible packaging made of paper, plastic film, textiles, woven material or other similar materials.

Bar means 1 BAR = 100 kPa (14.5 psi).

Barge means a non-selfpropelled vessel.

Biological product. See §173.134 of this subchapter.

Biological substances, Category B. See §173.134 of this subchapter.