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 packages	§§ 173.168, 178.2, 178.601, Appendix C to Part 178, Appendix D to Part 178.
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]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 171.6, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at *www.fdsys.gov*.

§ 171.7 Reference material.

(a) *Matter incorporated by reference*—(1) *General.* There is incorporated, by reference in parts 170–189 of this subchapter, 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 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
Air Transport Association of America, 1301 Pennsylvania Avenue, N.W., Washington, DC 20004–1707:	
ATA Specification No. 300 Packaging of Airline Supplies, Revision 19, July 31, 1996	172.102.
The Aluminum Association, 1525 Wilson Blvd, Suite 6000, Arlington, VA 22209, telephone 703–358–2960, *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
American National Standards Institute, Inc., 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.
American Petroleum Institute, 1220 L Street, NW, Washington, D.C. 20005–4070:	
API Recommended Practice Closures of Underground Petroleum Storage Tanks, 3rd Edition, March 1996.	172.102.
American Pyrotechnics Association (APA), 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.
American Society of Mechanical Engineers, 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*:	

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 Columbian-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 (Reapproved 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 56–05, Standard Test Method for Flash Point by Tag Closed Cup Tester, approved May 1, 2005	173.120
ASTM D 86–07a, Standard Test Method for Distillation of Petroleum Products at Atmospheric Pressure, approved April 1, 2007.	173.121
ASTM D 93–08, Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester, approved October 15, 2008.	173.120

Source and name of material	49 CFR reference
ASTM D 1078–05, Standard Test Method for Distillation Range of Volatile Organic Liquids, approved May 15, 2005.	173.121
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.
ASTM D 1838–64 Copper Strip Corrosion by Liquefied Petroleum (LP) Gases	173.315.
ASTM D 1922–00a Standard Test Method for Propogation Tear Resistance of Plastic Film and Thin Sheeting by Pendulum Method.	173.197.
ASTM D 3278–96 (Reapproved 2004) E [1], Standard Test Methods for Flash Point of Liquids by Small Scale Closed-Cup Apparatus, approved November 1, 2004.	173.120
ASTM D 3828–07a, Standard Test Methods for Flash Point by Small Scale Closed Cup Tester, approved July 15, 2007.	173.120
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.
ASTM E 290–97a Standard Test Methods for Bend Testing of Material for Ductility, published February 1998.	178.37.
American Water Works Association, 1010 Vermont Avenue, N.W., Suite 810, Washington, DC 20005:	
AWWA Standard C207–55, Steel Pipe Flanges, 1955	178.360–4.
American Welding Society, 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.
Association of American Railroads, American Railroads Building, 50 F Street, NW., Washington, DC 20001; telephone (877) 999–8824, *http://www.aar.org/publications.com*;	

Source and name of material	49 CFR reference
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; 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	179.16.
Chlorine Institute, Inc., 1300 Wilson Boulevard, Arlington, VA 22209	
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	171.12
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.	

Source and name of material	49 CFR reference
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.
CGA S–7, Method for Selecting Pressure Relief Devices for Compressed Gas Mixtures in Cylinders, 2005.	173.301.
CGA Technical Bulletin TB–2, Guidelines for Inspection and Repair of MC–330 and MC–331 Cargo Tanks, 1980.	180.407; 180.413.
CGA Technical Bulletin TB–25, Design Considerations for Tube Trailers, 2008 Edition	173.301.
Department of Defense (DOD), 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
Department of Energy (USDOE), 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; 178.358–2.
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.	178.358–1; 178.358–3.
General Services Administration, 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.
Institute of Makers of Explosives, 1120 19th Street NW., Suite 310, Washington, DC 20036–3605:	
IME Safety Library Publication No. 22 (IME Standard 22), Recommendations for the Safe Transportation of Detonators in a Vehicle with Certain Other Explosive Materials, February 2007.	173.63; 177.835
International Atomic Energy Agency (IAEA), P.O. Box 100, Wagramer Strasse 5, A–1400 Vienna, Austria:	

Source and name of material	49 CFR reference
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.	
IAEA, Regulations for the Safe Transport of Radioactive Material, (IAEA Regulations), 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised).	171.22; 171.23; 171.26, 173.415, 173.416, 173.417, 173.473
International Civil Aviation Organization (''ICAO''), 999 University Street, Montréal, Quebec H3C 5H7, Canada, 1–514–954–8219, *http://www.icao.int:*	
ICAO Technical Instructions available from: INTEREG, International Regulations, Publishing and Distribution Organization, P.O. Box 60105, Chicago, IL 60660.	
Technical Instructions for the Safe Transport of Dangerous Goods by Air (ICAO Technical Instructions), 2011–2012 Edition.	171.8; 171.22; 171.23; 171.24; 172.101; 172.202; 172.401; 172.512; 172.519; 172.602; 172.704; 173.1; 173.56; 173.320; 175.33; 178.3.
International Electrotechnical Commission (IEC) 3, rue de Varembé, P.O. Box 131, CH—1211, GENEVA 20, Switzerland:	
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.	§ 175.10.
International Maritime Organization (''IMO''), 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:*	
International Convention for the Safety of Life at Sea, 1974, as amended (SOLAS), Chapter II–2, Construction—Fire protection, fire detection and fire extinction, Regulation 19, Carriage of dangerous goods, Consolidated Edition 2009.	176.63, 176.84
International Maritime Dangerous Goods Code (IMDG Code), 2010 Edition, Incorporating Amendment 35–10 (English Edition), Volumes 1 and 2.	171.22; 171.23; 171.25; 172.101 172.202; 172.203 172.401; 172.502; 172.519; 172.602; 172.704; 173.1; 173.21; 173.56; 173.320; 176.2; 176.5; 176.11; 176.27; 176.30; 176.83; 176.84; 176.140; 176.720; 178.3; 178.274.
International Organization for Standardization, Case Postale 56, CH–1211, Geneve 20, Switzerland, *http://www.iso.org*:	
Also available from: ANSI 25, West 43rd Street, New York, NY 10036, 1–212–642–4900, *http://www.ansi.org*.	
ISO 535–1991(E) Paper and board—Determination of water absorptiveness—Cobb method	178.516; 178.707; 178.708.
ISO 1496–1: 1990 (E)—Series 1 freight containers—Specification and testing, Part 1: General cargo containers. Fifth Edition, (August 15, 1990).	173.411
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).	178.74; 178.75; 178.274.
ISO 1516:2002(E), Determination of flash/no flash—Closed cup equilibrium method, Third Edition, 2002–03–01.	173.120.
ISO 1523:2002(E), Determination of flash point—Closed cup equilibrium method, Third Edition, 2002–03–01.	173.120.
ISO 2431–1984(E) Standard Cup Method	173.121.
ISO 2592:2000(E), Determination of flash and fire points—Cleveland open cup method, Second Edition, 2000–09–15.	173.120.
ISO 2719:2002(E), Determination of flash point—Pensky-Martens closed cup method, Third Edition, 2002–11–15.	173.120.
ISO 2919–1980(E) Sealed radioactive sources—Classification	173.469.
ISO 3036–1975(E) Board—Determination of puncture resistance	178.708.
ISO 3405:2000(E), Petroleum products—Determination of distillation characteristics at atmospheric pressure, Third Edition, 2000–03–01.	173.121.
ISO 3574–1986(E) Cold-reduced carbon steel sheet of commercial and drawing qualities	178.503; Part 178, appendix C.
ISO 3679:2004(E), Determination of flash point—Rapid equilibrium closed cup method, Third Edition, 2004–04–01.	173.120.
ISO 3680:2004(E), Determination of flash/no flash—Rapid equilibrium closed cup method, Fourth Edition, 2004–04–01.	173.120.
ISO 3807–2, Cylinders for acetylene—Basic requirements—Part 2: Cylinders with fusible plugs, First edition, March 2000, (E).	173.303; 178.71.

Source and name of material	49 CFR reference
ISO 3924:1999(E), Petroleum products—Determination of boiling range distribution—Gas chromatography method, Second Edition, 1999–08–01.	173.121.
ISO 4126–1 Safety valves—Part 1: General Requirements, December 15, 1991, First Edition	178.274.
ISO 4626:1980(E), Volatile organic liquids—Determination of boiling range of organic solvents used as raw materials, First Edition, 1980–03–01.	173.121.
ISO 4706:2008(E), Gas cylinders—Refillable welded steel cylinders—Test pressure 60 bar and below, First Edition, 2008–04–15, Corrected Version, 2008–07–01.	178.71.
ISO 6406, Gas cylinders—Seamless steel gas cylinders—Periodic inspection and testing, Second edition, February 2005, (E).	180.207.
ISO 6892 Metallic materials—Tensile testing, July 15, 1984, First Edition	178.274.
ISO 7225, Gas cylinders—Precautionary labels, Second Edition, July 2005, (E)	178.71.
ISO 7866, Gas cylinders—Refillable seamless aluminum alloy gas cylinders—Design, construction and testing, First edition, June 1999, (E).	178.71.
ISO 8115 Cotton bales—Dimensions and density, 1986 Edition	172.102.
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).	178.37; 178.71; 178.75.
ISO 9809–2: Gas cylinders—Refillable seamless steel gas cylinders—Design, construction and testing—Part 2: Quenched and tempered steel cylinders with tensile strength greater than or equal to 1 100 MPa., First edition, June 2000, (E).	178.71; 178.75.
ISO 9809–3: Gas cylinders—Refillable seamless steel gas cylinders—Design, construction and testing—Part 3: Normalized steel cylinders, First edition, December 2000, (E).	178.71; 178.75.
ISO 9978:1992(E)—Radiation protection—Sealed radioactive sources—Leakage test methods. First Edition, (February 15, 1992).	173.469.
ISO 10156:1996, Gases and Gas Mixtures—Determination of fire potential and oxidizing ability for the selection of cylinder valve outlets, Second edition, February 1996 (E).	173.115.
ISO 10156–2:2005, Gas cylinders—Gases and gas mixtures—Part 2: Determination of oxidizing ability of toxic and corrosive gases and gas mixtures, First edition, August 2005, (E).	173.115.
ISO 10297:2006(E), Transportable gas cylinders—Cylinder valves—Specification and type testing, Second Edition, 2006–01–15.	173.301b; 178.71.
ISO 10461:2005(E), Gas cylinders—Seamless aluminum-alloy gas cylinders—Periodic inspection and testing, Second Edition, 2005–02–15 and Amendment 1, 2006–07–15.	180.207.
ISO 10462, Gas cylinders—Transportable cylinders for dissolved acetylene—Periodic inspection and maintenance, Second edition, February 2005, (E).	180.207.
ISO 10692–2:2001(E), Gas cylinders—Gas cylinder valve connections for use in the micro-electronics industry—Part 2: Specification and type testing for valve to cylinder connections, First Edition, 2001–08–01.	173.40.
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.
ISO 11114–2, Transportable gas cylinders—Compatibility of cylinder and valve materials with gas contents—Part 2: Non-metallic materials, First edition, December 2000, (E).	173.301b; 178.71.
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.
ISO 11119–3, Gas cylinders of composite construction—Specification and test methods—Part 3: Fully wrapped fibre reinforced composite gas cylinders with non-load-sharing metallic or non-metallic liners, First edition, September 2002, (E).	178.71.
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.
ISO 13736:2008(E), Determination of flash point—Abel closed-cup method, Second Edition, 2008–09–15	173.120.
ISO 16111:2008(E), Transportable gas storage devices—Hydrogen absorbed in reversible metal hydride, First Edition, 2008–11–15.	173.301b; 173.311; 178.71.
ISO 18172–1:2007(E), Gas cylinders—Refillable welded stainless steel cylinders—Part 1: Test pressure 6 MPa and below, First Edition, 2007–03–01.	178.71.
ISO 20703:2006(E), Gas cylinders—Refillable welded aluminum-alloy cylinders—Design, construction and testing, First Edition, 2006–05–01.	178.71.
National Board of Boiler and Pressure Vessel Inspectors, 1055 Crupper Avenue, Columbus, Ohio 43229:	
National Board Inspection Code, A Manual for Boiler and Pressure Vessel Inspectors, NB–23, 1992 Edition.	180.413.
National Fire Protection Association, 1 Batterymarch Park, Quincy, MA, 02169–7471 1–617–770–3000,, *http://www.nfpa.org*:.	
NFPA 58–Liquefied Petroleum Gas Code, 2001 Edition	173.5, 173.315.
NFPA 498–Standard for Safe Havens and Interchange Lots for Vehicles Transporting Explosives, 2010 Edition.	177.835

Source and name of material	49 CFR reference
National Institute of Standards and Technology, 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.
Organization for Economic Cooperation and Development (OECD), OECD Publications and Information Center, 2001 L Street, N.W., Suite 700, Washington, DC 20036:	
OECD (2002), Test No. 404: Acute Dermal Irritation/Corrosion, OECD Guidelines for the Testing of Chemicals, Section 4: Health Effects, OECD Publishing, adopted April 24, 2002.	173.137.
OECD (2004), Test No. 430: *In Vitro* Skin Corrosion: Transcutaneous Electrical Resistance Test (TER), OECD Guidelines for the Testing of Chemicals, Section 4: Health Effects, OECD Publishing, adopted April 13, 2004.	173.137.
OECD (2004), Test No. 431: *In Vitro* Skin Corrosion: Human Skin Model Test, OECD Guidelines for the Testing of Chemicals, Section 4: Health Effects, OECD Publishing, adopted April 13, 2004.	173.137.
OECD (2006), Test No. 435: *In Vitro* Membrane Barrier Test Method for Skin Corrosion, OECD Guidelines for the Testing of Chemicals, Section 4: Health Effects, OECD Publishing, adopted July 19, 2006.	173.137.
Transport Canada, TDG Canadian Government Publishing Center, Supply and Services, Canada, Ottawa, Ontario, Canada K1A 059, 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; SOR/2002–306 August 8, 2002; SOR/2003–273 July 24, 2003; SOR/2003–400 December 3, 2003; SOR/2005–216 July 13, 2005; SOR/2005–279 September 21, 2005; SOR/2008–34 February 7, 2008 and SOR/2007–179 July 31, 2007.	171.12; 171.22; 171.23; 172.401; 172.502; 172.519; 172.602; 173.31; 173.32; 173.33.
Truck Trailer Manufacturers Association, 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.
United Nations, Publications, 2 United Nations Plaza, Room DC2–853, New York, NY 10017, 1–212–963–8302, *http://unp.un.org*.	
UN Recommendations on the Transport of Dangerous Goods, Model Regulations, sixteenth revised edition, Volumes I and II (2009).	171.8; 171.12; 172.202; 172.401; 172.407; 172.502; 173.1; 173.3; 173.22; 173.24; 173.24b; 173.40; 173.56; 173.192; 173.302b; 173.304b; 178.75; 178.274; 178.500; 178.700; 178.900.
UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria, fifth revised edition (2009).	172.102; 173.21; 173.56; 173.57; 173.58; 173.60; 173.115; 173.124; 173.125; 173.127; 173.128; 173.137; 173.185; 173.220; 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
American Biological Safety Association	
1202 Allanson Road, Mundelein, IL 60060	
Risk Group Classification for Infectious Agents, 1998	173.134
American Institute of Chemical Engineers (AIChE),	
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).

Source and name of material	49 CFR reference
American Society for Testing and Materials, 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
Association of American Railroads, 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. SE69AHTE; SE69AE	179.14
AAR Catalog Nos. SF70CHT; SF70CC; SF70CHTE; SF70CE	179.14
AAR Catalog Nos. SF73AC; SF73AE; SF73AHT; SF73AHTE	179.14
AAR Catalog Nos. SF79CHT; SF79CC; SF79CHTE; SF79CE	179.14
Bureau of Explosives, 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
Intermodal Loading Guide for Products in Closed Trailers and Containers, issued June 2001	174.55; 174.101; 174.112; 174.115.
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
Centers for Disease Control and Prevention 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
National Institutes of Health Bethesda, MD 20892	
NIH Guidelines for Research Involving Recombinant DNA Molecules (NIH Guidelines), January 2001, Appendix B.	173.134
Pantone Incorporated 590 Commerce Boulevard, Carlstadt, New Jersey 07072–3098	
Pantone® Formula guide coated/uncoated, Second Edition 2004	172.407, 172.519
Society of Plastics Industries, Inc., Organic Peroxide Producers Safety Division, 1275 K Street, NW., Suite 400, Washington, DC 20005	
Self Accelerating Decomposition Temperature Test, 1972	173.21
Truck Trailer Manufacturers Association, 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]

EDITORIAL NOTES: 1. 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.

2. 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 at *www.fdsys.gov*.

§ 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