§ 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 paragraphs (b) through (ee) of this section have 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/
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(a) Code of Federal Regulations/Ibr locations.html.

(b) Air Transport Association of America, 1301 Pennsylvania Avenue NW., Washington, DC 20004–1707.

2. [Reserved]


(d) American National Standards Institute, Inc., 25 West 43rd Street, New York, NY 10036.


2. [Reserved]


1. APA Standard 87–1, Standard for Construction and Approval for Transportation of Fireworks, Novelties, and Theatrical Pyrotechnics, December 1, 2001 version into §173.56.
2. [Reserved]


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(9) ASTM A 300–58 Steel Plates for Pressure Vessels for Service at Low Temperatures, 1958, into §178.337–2.
(22) ASTM A 612–72a High Strength Steel Plates for Pressure Vessels for Moderate and Lower Temperature Service, 1972, into §178.338–2.
(28) ASTM B 209–93 Standard Specification for Aluminum and Aluminum-


(35) ASTM D 56–05, Standard Test Method for Flash Point by Tag Closed Cup Tester, approved May 1, 2005, into § 173.120.


(37) ASTM D 93–08, Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester, approved October 15, 2008, into § 173.120.

(38) ASTM D 93–08, Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester, approved October 15, 2008, into § 173.120.


(40) ASTM D 1922–00a Standard Test Method for Propogation Tear Resistance of Plastic Film and Thin Sheeting by Pendulum Method, approved May 1, 2005, into § 173.120.


(43) ASTM E 8–99 Standard Test Methods for Tension Testing of Metallic Materials, 1999, into § 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.


(47) ASTM E 114–95 Standard Practice for Ultrasonic Pulse-Echo Straight-Beam Examination by the Contact Method, 1995, into § 178.45.

(48) ASTM E 213–98 Standard Practice for Ultrasonic Examination of Metal Pipe and Tubing, into § 178.45.


(50) American Welding Society, 550 NW. Le Jeune Road, Miami, Florida 33126.


(2) [Reserved]

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§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; 179.102-4; 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; 179.300-3; 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.


(3) AAR Specifications for Design, Fabrication and Construction of Freight Cars, Volume 1, 1988, into §179.16.


(i) Chlorine Institute, Inc., 1300 Wilson Boulevard, Arlington, VA 22209.

(1) 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, into §173.3.

(2) 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, into §173.3.

(3) Type 1 JQ 225, Dwg., HS1970, Revision F, November 1996, into §173.315.

(4) Type 1 JQ 225, Dwg., HS0155, Revision H, November 1996, into §173.315.


(12) Canadian General Standards Board, Place du Portage III, 6B1 11 Laurier Street, Gatineau, Quebec, Canada K1A 1G6.


(2) [Reserved]

(n) Compressed Gas Association (CGA), 1235 Jefferson Davis Highway, Arlington, VA 22202.

(1) CGA Pamphlet C-3, Standards for Welding on Thin-Walled Steel Cylinders, 1994, into §178.47; 178.50; 178.51; 178.53; 178.55; 178.56; 178.57; 178.59; 178.60; 178.61; 178.65; 178.68; 180.211.

(2) CGA C-5, Cylinder Service Life—Seamless Steel High Pressure Cylinders, 1991 (reaffirmed 1995), into §173.302a.


(7) CGA C-7, Guide to Preparation of Precautionary Labeling and Marking


(10) CGA Pamphlet C–12, Qualification Procedure for Acetylene Cylinder Design, 1994, into § 173.301; 173.303; 178.59; 178.60.


(o) Department of Defense (DOD), 2461 Eisenhower Avenue, Alexandria, VA 22331.

(1) DOD TB 700–2; NAVSEAINST 8020.8B; AFTO 11A–1–47; DLAR 8220.1: Explosives Hazard Classification Procedures, January 1998, into § 173.56.


(1) USDOE, CAPE–1662, Revision 1, and Supplement 1, Civilian Application Program Engineering Drawings, April 6, 1988, into §§ 178.356–1; 178.356–2; 178.358–1; 178.358–2; 178.358–3; 178.358–4.


(q) General Services Administration, Specification Office, Room 6662, 7th and D Street, S.W., Washington, DC 20407.


(2) [Reserved]

(r) Institute of Makers of Explosives, 1120 19th Street NW., Suite 310, Washington, DC 20036–3605.


(2) [Reserved]

(s) International Atomic Energy Agency (IAEA), P.O. Box 100, Wagramer Strasse 5, A–1400 Vienna, Austria. Also available from: Bernan Associates, 4611–F

(2) [Reserved]


(2) [Reserved]

(u) International Electrotechnical Commission (IEC), 3 rue de Varembe, P.O. Box 131, CH–1211, GENEVA 20, Switzerland.

(1) IEC 62282–6–100:2010(E), Fuel cell technologies—Part 6–100: Micro fuel cell power systems—Safety, Edition 1.0, March 2010, into §§171.8; 171.23; 171.24; 172.101; 172.202; 172.401; 172.512; 172.519; 172.602; 173.56; 173.320; 175.10, 175.33; 178.3.

(2) [Reserved]


(2) International Maritime Dangerous Goods Code (IMDG Code), Incorporating Amendment 36–12 (English Edition), 2011, into §§171.22; 171.23; 171.25; 172.101; 172.202; 172.203; 172.2041; 172.502; 172.519; 172.602; 173.21; 173.56; 176.2; 176.5; 176.11; 176.27; 176.30; 176.83; 176.84; 176.140; 176.720; 178.3; 178.274.


(12) ISO 3574–1986(E) Cold-reduced carbon steel sheet of commercial and drawing qualities, into §178.503; Part 178, appendix C.


(37) ISO 11114–1(E), Transportable gas cylinders—Compatibility of cylinder
§ 171.7

49 CFR Ch. I (10–1–13 Edition)

and valve materials with gas con-
tents—Part 1: Metallic materials, First
edition, October 1997, into §§ 173.301b;
178.71.

(38) ISO 11114–2(E), Transportable gas
cylinders—Compatibility of cylinder and
valve materials with gas con-
tents—Part 2: Non-metallic materials,
First edition, December 2000, into
§§ 173.301b; 178.71.

(39) ISO 11117-2008(E), Transportable gas
cylinders—Compatibility of cylinder and
valve materials with gas con-
tents—Part 2: Non-metallic materials,
First edition, December 2000, into
§§ 173.301b; 178.71.

(40) ISO 11117:2008(E), Gas cylinders—
Valve protection caps and valve
guards—Design, construction and tests,
Second edition, 2008–09–01, into
§ 173.301b.

(41) ISO 11117:2008/Cor.1:2009(E), Gas
cylinders—Valve protection caps and
valve guards—Design, construction and tests,
Technical Corrigendum 1, 2009–
05–01, into § 173.301b.

(42) ISO 11118(E), Gas cylinders—Non-
refillable metallic gas cylinders—Spec-
ification and test methods, First edi-
tion, October 1999, into §178.71.

(43) ISO 11119–1(E), Gas cylinders—
Gas cylinders of composite construc-
tion—Specification and test methods—
Part 1: Hoop-wrapped composite gas
cylinders, First edition, May 2002, into
§ 178.71.

(44) ISO 11119–2(E), Gas cylinders—
Gas cylinders of composite construc-
tion—Specification and test methods—
Part 2: Fully wrapped fibre reinforced
composite gas cylinders with load-sharing
metal liners, First edition, May 2002, into §
178.71.

(45) ISO 1119–3(E), Gas cylinders of
composite construction—Specification and test methods—
Part 3: Fully wrapped fibre reinforced composite gas
cylinders with non-load-sharing metal-
ic or non-metallic liners, First edi-

(46) ISO 11621(E), Gas cylinders—Pro-
cedures for change of gas service, First
edition, April 1997, into §§ 173.302,
173.336, 173.337.

(47) ISO 11623(E), Transportable gas
cylinders—Periodic inspection and
testing of composite gas cylinders,

(48) A LAE 13340:2001(E) Transportable
gas cylinders—Cylinder valves for non-
refillable cylinders—Specification and prototype testing, First edition, 2004–
04–01, into §§ 173.301b; 178.71.

(49) ISO 13736:2008(E), Determination
of flash point—Abel closed-cup method,
§ 173.120.

(50) ISO 16111:2008(E), Transportable
gas storage devices—Hydrogen ab-
sorbed in reversible metal hydride,
§§ 173.301b; 173.311; 178.71.

(51) ISO 18172-1:2007(E), Gas cylin-
ders—Refillable welded stainless steel
cylinders—Part 1: Test pressure 6
MPa and below, First Edition, 2007–03–
01, into § 178.71.

(52) ISO 20703:2006(E), Gas cylinders—
Refillable welded aluminum-alloy cy-
linders—Design, construction and test-
ing, First Edition, 2006–05–01, into
§ 178.71.

(x) National Board of Boiler and Press-
ure Vessel Inspectors, 1055 Crupper Ave-
nue, Columbus, Ohio 43229.

(1) NB–23, National Board Inspection
§ 180.413.

(2) [Reserved]

(y) National Fire Protection Associa-
tion, 1 Batterymarch Park, Quincy,
MA, 02169–7471 1–617–770–3000,

(1) NFPA 58-Liquefied Petroleum Gas

(2) NFPA 498-Standards for Safe Ha-
vens and Interchange Lots for Vehicles
Transporting Explosives, 2010 Edition,
into § 177.835.

(z) National Institute of Standards and
Technology, Department of Commerce,
5285 Port Royal Road, Springfield, VA
22151.

(1) USDC, NBS Handbook H–28 (1957),
1957 Handbook of Screw-Thread Stand-
ards for Federal Services, December
1966 Edition, into §§ 179.2; 178.45; 178.46.

(2) [Reserved]

(aa) Organization for Economic Co-
operation and Development (OECD),
OECD Publications and Information
Center, 2001 L Street, N.W., Suite 700,
Washington, DC 20036.

(1) Test No. 404: Acute Dermal Irrita-
tion/Corrosion, OECD Guidelines for
the Testing of Chemicals, Section 4:
Health Effects, adopted April 24, 2002,
into § 173.137.


(1) Transportation of Dangerous Goods Regulations (Transport Canada TDG Regulations), into §§171.12; 171.22; 171.23; 172.401; 172.502; 172.519; 172.602; 173.31; 173.32; 173.33.


(iv) SOR/2003–400 December 3, 2003

(v) SOR/2005–216 July 13, 2005

(vi) SOR/2005–279 September 21, 2005

(vii) SOR/2008–34 February 7, 2008


(2) [Reserved]

(cc) Truck Trailer Manufacturers Association, 1020 Princess Street, Alexandria, Virginia 22314.


(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, into §180.405.


(1) UN Recommendations on the Transport of Dangerous Goods, Model Regulations (UN Recommendations), 17th revised edition, Volumes I and II (2011), into §§171.8; 171.12; 172.202; 172.401; 172.407; 172.502; 173.22; 173.24; 173.24b; 173.40; 173.56; 173.192; 173.304b; 178.75; 178.274.

(2) UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria, (Manual of Tests and Criteria), into §§172.102; 173.21; 173.56; 173.57; 173.58; 173.60; 173.60a; 173.60b; 173.115; 173.124; 173.125; 173.127; 173.128; 173.137; 173.165; 173.220; part 173, appendix H; 178.274.

(i) Fifth revised edition (2009).


(ee) United States Enrichment Corporation, Inc. (USEC), USEC Inc., 6903 Rockledge Drive, Bethesda, MD 20817.


Table 1 to 49 CFR 171.7—Materials Not Incorporated by Reference

<table>
<thead>
<tr>
<th>Source and name of material</th>
<th>49 CFR reference</th>
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<tr>
<td>American Biological Safety Association 1202 Allanson Road, Mundelein, IL 60060: Risk Group Classification for Infectious Agents, 1998</td>
<td>173.134.</td>
</tr>
<tr>
<td>Association of American Railroads, American Railroads Building, 50 F Street, NW., Washington, DC 20001: AAR Catalog Nos. S600CH; S600CC; S600CHTE; S600CE; S600DC; S600DE; S600CD; S600CC; S600CD; S600DE; S600CD; S600DE</td>
<td>179.14</td>
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<td>AAR Catalog Nos. S600CC; S600CD; S600CHTE; S600CE; S600DC; S600DE</td>
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### § 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.

**Aircraft battery** means a battery designed in accordance with a recognized aircraft battery design standard (e.g. FAA technical standard order) that is capable of meeting all aircraft airworthiness requirements and operating regulations.

**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

#### TABLE 1 TO 49 CFR 171.7—MATERIALS NOT INCORPORATED BY REFERENCE—Continued

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<th>Source and name of material</th>
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<tr>
<td>AAR Catalog Nos. SF70CHT; SF70CC; SF70CHTE; SF70CE</td>
<td>179.14</td>
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<td>AAR Catalog Nos. SF73AC; SF73AE; SF73AH; SF73AHTE</td>
<td>179.14</td>
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<tr>
<td>AAR Catalog Nos. SF79CHT; SF79CC; SF79CHTE; SF79CE</td>
<td>179.14</td>
</tr>
<tr>
<td>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.), Intermodal Loading Guide for Products in Closed Trailers and Containers, issued June 2001.</td>
<td>174.55; 174.101; 174.112; 174.115.</td>
</tr>
<tr>
<td>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.</td>
<td>174.101; 174.290</td>
</tr>
<tr>
<td>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).</td>
<td>174.55; 174.63; 174.101; 174.112; 174.115.</td>
</tr>
<tr>
<td>National Institutes of Health, Bethesda, MD 20892.</td>
<td>173.14</td>
</tr>
<tr>
<td>Pantone Incorporated, 590 Commerce Boulevard, Carlstadt, New Jersey 07072–3098.</td>
<td>173.14</td>
</tr>
<tr>
<td>Society of Plastics Industries, Inc., 4221 Walney Road, 5th Floor, Chantilly, Virginia 20151.</td>
<td>172.407; 172.519</td>
</tr>
<tr>
<td>Compress Gas Association, 1020 19th Street NW., Suite 520, Washington, DC 20036.</td>
<td>172.407; 172.519</td>
</tr>
<tr>
<td>Molten Sulphur Rail Tank Car Guidance document, November 2010.</td>
<td>172.102</td>
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