

**REGISTER**

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**Wednesday  
December 10, 1980**

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**Part IV**

**Office of the  
Federal Register**

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**Approval of Incorporations by Reference;  
49 CFR Parts 170-179, Hazardous  
Materials Regulations**

**OFFICE OF THE FEDERAL REGISTER****1 CFR Part 51****Approval of Incorporations by Reference****AGENCY:** Office of the Federal Register.**ACTION:** Approval of incorporations by reference.

**SUMMARY:** On September 30, 1980, the Office of the Federal Register published a document which listed materials approved by the Director of the Federal Register for incorporation by reference into Titles 42-50 of the Code of Federal Regulations. At that time, the Director also granted some extensions. This document today list final approvals for some documents previously given extensions in the September 30th document and found to meet the requirements for incorporation by reference.

**DATES:** The Director approves the following incorporations by reference from December 5, 1980 through September 30, 1981.

**FOR FURTHER INFORMATION CONTACT:** Susan Schruth, (202) 523-4534.

**SUPPLEMENTARY INFORMATION:****Authority**

Each agency that wishes material incorporated by reference in the CFR to remain effective must annually submit to the Director a list of that material and the date of its last revision (1 CFR 51.13).

The materials included on the table below are incorporated by reference in the CFR under 5 U.S.C. 552(a) and 1 CFR Part 51. These procedures provide that material approved for incorporation by reference by the Director of the Federal Register has the same legal status as if it were published in full in the Federal Register.

**Extensions**

The Director granted extensions of approval for some material in Titles 42-50 of the Code of Federal Regulations, and indicated this in documents published in the Federal Register on September 30, 1980 (45 FR 64816) and on October 31, 1980 (45 FR 72464). These extensions were necessary to complete the review process under 1 CFR 51.13. The table in this document lists material which has received final approval for incorporation by reference by the Director of the Federal Register.

**Availability**

Before an agency may incorporate by reference any material into the *Code of Federal Regulations*, it must make the material reasonably available to the class of persons affected by it. Agencies have indicated where you can obtain each item included in the table. The materials approved for incorporation by reference are available for inspection and copying at the Office of the Federal Register, 1100 L Street, N.W. Washington, D.C. (202) 633-6930.

**Amendments**

If the producer of materials approved for incorporation by reference changes or updates the material, and the agency wishes to enforce the changed or updated version, the agency shall publish an amendatory document in the Federal Register indicating that the material is amended. The agency also shall make the amended material available as indicated on the table, or as modified in the amendatory document. Amendments are not properly incorporated until a document is published in the Federal Register, and the amendment is filed at the Office of the Federal Register and made available to the public.

**Other CFR Titles**

For materials approved for incorporation by reference in Titles 28 through 41 of the CFR, see documents published on June 30, 1980 at 45 FR 44090; on July 14, 1980 at 45 FR 47111; and on September 9, 1980 at 45 FR 59297.

For materials approved for incorporation by reference in Titles 1 through 16 of the CFR, a document will be published on December 31, 1980.

For materials approved for incorporation by reference in Titles 17 through 27 of the CFR, a document will be published on March 31, 1981.

**Problems**

If you have any problems getting the material, notify the agency. If you find the material is not available, notify the Director of the Federal Register (NARS), Washington, D.C. 20408 or call (202) 523-4534.

•Dated: December 5, 1980.

John E. Byrne,

Director of the Federal Register.

## 49 CFR Parts 170-179—Hazardous Materials Regulations

## CFR Citation

## THE ALUMINUM ASSOCIATION

420 Lexington Avenue, New York, New York 10017  
 Aluminum Standards and Data, 1970-71, Dated December 1969..... 173.266; 178.65-5

## AMERICAN NATIONAL STANDARDS INSTITUTE

1430 Broadway, New York, N.Y. 10018  
 ANSI MH6.11972 "Pictorial Marking for Handling of Goods,"..... 172.312  
 ANSI B16.5, Steel Pipe Flanges, Flanged Fittings, 1977 ..... 178.34  
 ANSI N14.1, "Packaging of Uranium Hexafluoride for Transport", 1971. 171.7; 173.306

## AMERICAN SOCIETY OF MECHANICAL ENGINEERS

United Engineering Ctr., 345 47th Street, New York, N.Y. 10017  
 ASME Code, Sec. VIII (Div. I) and IX of 1977 edition of American Society of Mechanical Engineers Boiler and Pressure Code and Addenda through 12/31/78. 171.7; 173.33; 173.306, 173.315, 177.814; 178.251; 178.255; 178.337; 178.340; 178.342; 178.343; 178.245; 173.32; 179.400

ASME Code, Section V (FR Nondestructive examination, 1977)..... 173.33

ASME Code, Section IX (FR Welding and Brazing Qualification 77 + Add 79. 178.245

## AMERICAN SOCIETY FOR TESTING AND MATERIALS

1916 Race Street, Philadelphia, Pa. 19103, Annual Book of ASTM Standards

ASTM A20-72a, "General Requirements for Delivery of Steel Plates for Pressure Vessels". 178.337  
 ASTM A47-68, "Malleable Iron Castings" ..... 179.200  
 ASTM A53-69a, Welded and Seamless Steel Pipe ..... 179.12-2  
 ASTM A179-70, "Electric Resistance Welded Carbon Steel Boiler Tubes". 179.12  
 ASTM A192-69, "Seamless Carbon Steel Boiler Tubes for High Pressure Service". 179.12  
 ASTM A-240-70, Spec. for Chrome and Chromium-Nickel Stainless Steel Plate, Sheet and Strip for Fusion-Welding Unfired Pressure Vessels. 179.200; 179.201; 179.220  
 ASTM A-240, Type 304..... 178.57; 179.100; 179.200; 179.201; 179.220; 179.400  
 ASTM A-240, Type 304L, 316L..... 179.200; 179.201; 179.220  
 ASTM A242-68, Spec. for High-Strength Low Alloy Structural Steel ..... 179.100  
 ASTM A262-44-T, Boiling Nitric Acid Test for Corrosion Resisting Steels. 178.83  
 ASTM A265-69, Spec. for Nickel and Nickel-Base Alloy Clad Steel Plate. 173.252  
 ASTM A300-58, Steel Plates for Pressure Vessels for Service at Low Temperatures. 178.337  
 ASTM A312-70, Seamless and Welded Austenitic Stainless Steel Pipe... 179.12  
 ASTM A370-68, Methods and Definitions for Mechanical Testing for Steel Products (FR 370-68). 179.102  
 ASTM A388-67, Ultrasonic Testing and Inspection of Heavy Steel Forgings. 178.45  
 ASTM A515-69, Carbon Steel Plates for Pressure Vessels for Intermediate and Higher Temperature Service. 179.100; 179.200; 179.220; 174.300  
 ASTM A516 (-72), Spec. for Carbon Steel Plates for Pressure Vessels for Moderate and Low Temp. Service. 179.100; 179.102; 179.200; 178.337  
 ASTM A516-70a, Carbon Steel Plates for Pressure Vessels for Moderate and Lower Temperature Service. 179.100; 179.102; 179.200; 179.220  
 ASTM A537-69, Spec. for Carbon-manganese-Silicon Steel Plates Heat Treated for Pressure Vessels. 179.100  
 ASTM A572-68, Spec. for High-Strength Low Alloy Columbium-Vanadium Steels of Structural Quality. 179.100  
 ASTM A612-72a, High-Strength Steel Plates for Pressure Vessels for Moderate and Lower Temperature Service. 178.337  
 ASTM B-90-69, Magnesium Alloy Sheet and Plate..... 178.251  
 ASTM B161-70, Spec. for Nickel Seamless Pipe and Tube, 1970 ..... 179.12  
 ASTM B162-69, Spec. for Nickel Plate, Sheet, and Strip ..... 173.252; 179.200  
 ASTM B209-69, Aluminum Alloy Sheet and Plate..... 178.340, 179.100; 179.200; 179.220

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ASTM B210-70, Aluminum Alloy Drawn Stainless Tables (FR B210-68 (78)).	179.12
ASTM B221-69, Aluminum Alloy Extruded Bars, Rods, Shapes, and Tubes.	179.12
ASTM C148-77, Polariscopic Examination of Glass Containers.....	171.7; 178.17
ASTM D56-70, Flash Point by Tag Closed Tester.....	171.7; 173.115
ASTM D-88-56, Saybolt Viscosity .....	173.115
ASTM D93-71, Flash Point by Pensky Martens Closed Tester .....	173.115
ASTM D323, 1958, 68, Vapor Pressure of Petroleum Products (Rec'd Method).	171.7; 173.119; 173.300
ASTM D1505-68, Density of Plastics by the Density Gradient Technique.	Appendix B to Part 178
ASTM D1838-64, Copper Strip Corrosion by Liquefied Petroleum (LP) Gases.	173.315
ASTM D445-65, Viscosity of Transparent and Opaque Liquids (Kinematic and Dynamic Viscosities).	173.115
ASTM D638 (61T), Tensile Properties of Plastics .....	178.19
ASTM D638-68, Tensile Properties of Plastics .....	Appendix B to Part 178
ASTM D1056-68, Testing Sponge and Expanded Cellular Rubber Products.	171.7; 178.121
ASTM D1238 (62T), Measuring Flow Rates of Thermoplastics By Extrusion Plastometer.	178.19
ASTM D1238-65T, Measuring Flow Rates of Thermoplastics By Extrusion Plastometer (FR 57-T).	Appendix B to Part 178
ASTM D2161-68, Conversion of Kinematic Viscosity to Saybolt Universal Viscosity or to Saybolt Furol Viscosity.	173.115
ASTM D3243-73T, Flash Point of Aviation Turbine Fuels by Setaflash Closed Tester.	173.115
ASTM D3278-73, Flash Point of Liquids by Setaflash Closed Tester .....	173.115
ASTM E112-63, Estimating the Average Grain Size of Metals.....	Appendix A to Part 178
ASTM D445-72, "Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity)".	171.8
ASTM D1200-70, "Viscosity of Paints, Varnish, and Lacquers by Ford Viscosity Cup".	171.8
ASTM E8-69, Tension Testing of Metallic Materials .....	178.45
ASTM E8-78, Tension Testing of Metallic Materials .....	178.36; 178.37; 178.38; 178.39; 178.40; 178.41; 178.43; 178.44, 178.48; 178.49; 178.50; 178.51; 178.52; 178.53; 178.54; 178.55; 178.56; 178.57; 178.58; 178.59; 178.60; 178.61; 178.68
ASTM E467-74, "Standard Method of Test for Constant Temperature Stability of Chemical Materials".	171.7; 173.21
ASTM G23-69, "Standard Recommended Practice for Operating Light-and-Water Exposure Apparatus (Carbon-Arc Type) for Exposure of Nonmetallic Materials".	171.7; 172.407; 172.519
ASTM G26-70, "Standard Recommended Practice for operating Light-and-Water-Exposure Apparatus (Xenon-Arc-Type) for Exposure of Nonmetallic Materials.	171.7; 172.407; 172.519
<b>AMERICAN WATER WORKS ASSOCIATION</b>	
2 Park Avenue, New York, N.Y. 10016	
AWWA Standard C207-55, "AWWA Standard for Steel Pipe Flanges"; 1955.	171.7; 178.34
<b>AMERICAN WELDING SOCIETY</b>	
345 East 47th Street, New York, N.Y. 10016	
AWS Code B 3.0; "Standard Qualification Procedure;" 1972 (FRB 3.0-41 rev. May 73).	171.7; 178.12
AWS Code D-1.0 "Code for Welding in Building Construction," (FR D1.0-66).	171.7; 178.120

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## CFR Citation

<b>ASSOCIATION OF AMERICAN RAILROADS</b>	
59 East Van Buren Street; Chicago, Ill. 60605	
"Association of American Railroads Specification from Tank Cars", 1970, exclusive of: (1) pp. 28-80, "AAR Part 179, changes to DOT regulations proposed by AAR Committee on Tank Cars"; and (2) DOT Regulations in effect January 1, 1970.	171.7; 173.31; 173.31; 179.12; 179.100; 179.101; 179.102; 179.103; 179.105; 179.200; 179.202; 179.220; 179.300; 179.400; 179.201; 179.6
AAR Catalog Nos. F70BHT; F70BHTE; F71BHT; F72BHT; F73HT; F79BHT.	179.14
AAR Catalog Nos. SE60CHTM; SE60CHTE; SF70CHT; SF70CHTE.....	179.14
AAR Catalog Nos. F70CHT; F70CHTE; F73AHT; F73AHTE; F79CHT; F79CHTE.	179.14
AAR Catalog Nos. SE67BHT; SE67BHTE; SE68BHT; SE68BHTE; SF79CHT; SF79CHTE.	179.14
AAR Catalog Nos. SE60CHT; SE60CHTE; SE67BHT; SE67BHTE; SE68BHT; SE68BHTE.	179.105
AAR Catalog Nos. SF70CHT; SF70CHTE; SF79CHT; SF79CHTE.....	179.105 179.000
AAR Specification for Design Fabrication and Construction of Freight Cars; September 1, 1964.	179.100
<b>BUREAU OF EXPLOSIVES</b>	
1920 L Street NW., Washington, D.C. 20036	
Bureau of Explosives Impact Apparatus (test), January 24, 1961 .....	173.53; 173.64; 173.65; 173.114
Bureau of Explosive Closed Drum Apparatus (test) .....	173.300
Bureau of Explosive Open Drum Apparatus Test .....	173.300
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 1200° F.).	173.315
Flame Projection Test Jan. 24, 1958 .....	173.300
Bureau of Explosive Pamphlet 6 "Illustrating Methods for Loading and Bracing Carload and Less Than Carload Shipments of Explosives and Other Dangerous Articles" 1962.	171.7; 174.55; 174.101; 174.112; 174.115; 174.290
Bureau of Explosive 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.	171.7; 174.101; 174.290
Bureau of Explosive Pamphlet 6c "Illustrating Methods for Loading and Bracing Trailers and Less-Than Trailer Shipments of Explosives and Other Dangerous Articles Via Trailer-on-Flat-Car (TOFC) or Container-on-Flat-Car (CDFC)", September 1968.	171.7; 174.55; 174.63; 174.101; 174.112; 174.115
Bureau of Explosive Pamphlets 1 & 2 "Emergency Handling of Hazardous Materials in Surface Transportation; June 1973".	171.7; 177.861
<b>CANADIAN TRANSPORT COMMISSION</b>	
275 Slater Street, Ottawa, Ontario K1A 0N9	
Canadian Transport Commission Regulations; 1974 .....	173.8; 174.11
<b>COMPRESSED GAS ASSOCIATION, INC.</b>	
500 Fifth Avenue, New York, N.Y. 10036	
CGA Pamphlet C-6 "Standards for Visual Inspection of Compressed GAS Cylinders," 1975.	171.7; 173.31; 173.34; 173.126
CGA Pamphlet C-7 "A Guide for the Preparation of Precautionary Marking for Compressed Gas Containers", Appendix A, May 15, 1971, and Addenda January 1976.	171.7; 172.400
CGA Pamphlet C-8 "Standard for Requalification of ICC-3HT Cylinders" 1972.	171.7; 173.34
CGA Pamphlet S-1.2 "Safety Relief Device Standards Part 2—Cargo and Portable Tanks for Compressed Gases," 1966.	171.7; 173.315
CGA Pamphlet G-2.2 "Tentative Standard Method for Determining Minimum of 0.2% Water in Anhydrous Ammonia," 1975.	173.315
CGA Technical Bulletin TB-2; "Guidelines for Inspection and Repair of MC-330 and MC-331 Cargo Tanks," 1975.	173.33
<b>U.S. DEPARTMENT OF DEFENSE</b>	
2461 Eisenhower Avenue, Alexandria, Virginia	
Department of Defense—DOD TB 700-2, "Explosives Hazard Classification Procedures".	173.86

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## CFR Citation

## U.S. DEPARTMENT OF ENERGY

1000 Independent Avenue SW., Washington, D.C. 20545  
 International Atomic Energy Agency (IAEA); Regulations for the Safe Transport of Radioactive Materials Safety Series No. 6, 1967 edition. 171.7; 171.12; 172.203;  
 173.389; 173.393;  
 173.394; 173.395;  
 173.296

USAEC, ORO-651 "Uranium Hexafluoride Handling Procedures and Container Criteria," Revision 3, 1972. 171.7; 173.396

## THE FERTILIZER INSTITUTE

1015 18th Street, Washington, D.C. 20036  
 "Definitions and Test Procedures for Ammonium Nitrate Fertilizer Revised May 7, 1971," January 16, 1973. 173.182; 174.510

## U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

Public Health Service, Center for Disease Control, National Institute for Occupational Safety and Health, Cincinnati, Ohio 45226  
 NIOSH Registry—"Registry of Toxic Effects of Chemical Substances;" 1978. 171.7; 172.203

## INSTITUTE OF MAKERS OF EXPLOSIVES

420 Lexington Avenue; New York, N.Y. 10017  
 "IME Standard for the Safe Transport of Class C Detonators (Blasting Caps) in a Vehicle with Certain Other Explosives," March 21, 1979. 171.7; 177.835

## INTER-GOVERNMENTAL MARITIME CONSULTATIVE ORGANIZATION

101-104 Piccadilly, London, W1V 0AE, England  
 International Maritime Dangerous Goods Codes, Volumes I, II, III, IV, 1977, and Amendments 14-76, 15-77, and 16-78 thereto. 171.7; 171.12; 172.102;  
 172.401; 172.407;  
 176.5; 176.11;  
 176.27; 176.30

## NATIONAL ASSOCIATION OF CORROSION ENGINEERS

240 West Loop South, Houston, Texas 77027  
 NACE Standard TM-01-69 "Test Method Laboratory Corrosion Testing of Metals for the Process Industries;" 1969. 171.7; 173.240;  
 173.500

## NATIONAL BUREAU OF STANDARDS

Department of Commerce, 5285 Port Royal Road, Springfield, VA. 22151  
 NBS Handbook H-28 (1957) "1957 Handbook of Screw-Thread Standards for Federal Services, Part II," December 1966 Edition. 171.7; 178.45  
 USDC, USDOE—Material and Equipment Specification No. SP-9, Revision 1 and Supplement "Fire Resistant Phenolic Foam". 171.7; 178.120

## NATIONAL FIRE PROTECTION ASSOCIATION

60 Batterymarch Street, Boston, Mass. 02110  
 NFPA Pamphlet No. 58 "Standard for the Storage and Handling of Liquefied Petroleum Gases," 1972. 171.7, 173.315

## SOCIETY OF THE PLASTICS INDUSTRIES, INC.

Organic Peroxide Producers Safety Division, 355 Lexington Avenue, New York, N.Y. 10017  
 "Self Accelerating Decomposition Temperature Test" ..... 171.7; 173.21

## UNIFORM CLASSIFICATION COMMITTEE

222 South Riverside Plaza, Chicago, Ill. 60606  
 UFC Classification 13 ..... 171.7; 173.620;  
 173.630; 173.650;  
 173.1060

## UNITED NATIONS

United Nations Sales Section, New York, N.Y. 10017  
 "Transport of Dangerous Goods" ..... 171.7; 172.401;  
 172.407; 172.519

[FR Doc. 80-38316 Filed 12-9-80; 8:45 am]

BILLING CODE 1505-M