

**NOT YET SCHEDULED FOR ORAL ARGUMENT**  
**Appeal No. 22-7063**

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UNITED STATES COURT OF APPEALS  
FOR THE DISTRICT OF COLUMBIA CIRCUIT

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AMERICAN SOCIETY FOR TESTING AND MATERIALS; NATIONAL FIRE  
PROTECTION ASSOCIATION, INC.; AMERICAN SOCIETY OF HEATING,  
REFRIGERATING, AND AIR-CONDITIONING ENGINEERS, INC.

*Plaintiffs-Appellants,*

V.

PUBLIC.RESOURCE.ORG, INC.

*Defendant-Appellee.*

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APPEAL FROM THE UNITED STATES DISTRICT COURT FOR THE  
DISTRICT OF COLUMBIA

Hon. Tanya S. Chutkan, Case No. 1:13-cv-1215-TSC

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**ADDENDUM TO BRIEF OF AMERICAN FEDERATION OF STATE,  
COUNTY AND MUNICIPAL EMPLOYEES AS *AMICUS CURIAE* IN  
SUPPORT OF DEFENDANT-APPELLEE AND AFFIRMANCE**

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December 9, 2022


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**§ 1910.6 Incorporation by reference., 29 C.F.R. § 1910.6**

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 KeyCite Yellow Flag - Negative Treatment  
Proposed Regulation

**Code of Federal Regulations****Title 29. Labor****Subtitle B. Regulations Relating to Labor****Chapter XVII. Occupational Safety and Health Administration, Department of Labor****Part 1910. Occupational Safety and Health Standards (Refs & Annos)****Subpart A. General (Refs & Annos)****29 C.F.R. § 1910.6****§ 1910.6 Incorporation by reference.****Effective: July 15, 2019**Currentness

(a)(1) The standards of agencies of the U.S. Government, and organizations which are not agencies of the U.S. Government which are incorporated by reference in this part, have the same force and effect as other standards in this part. Only the mandatory provisions (i.e., provisions containing the word “shall” or other mandatory language) of standards incorporated by reference are adopted as standards under the Occupational Safety and Health Act.

(2) Any changes in the standards incorporated by reference in this part and an official historic file of such changes are available for inspection in the Docket Office at the national office of the Occupational Safety and Health Administration, U.S. Department of Labor, Washington, DC 20210; telephone: 202-693-2350 (TTY number: 877-889-5627).

(3) The standards listed in this section are incorporated by reference into this part with the approval of the Director of the Federal Register in accordance with [5 U.S.C. 552\(a\)](#) and 1 CFR part 51. To enforce any edition other than that specified in this section, OSHA must publish a document in the Federal Register and the material must be available to the public.

(4) Copies of standards listed in this section and issued by private standards organizations are available for purchase from the issuing organizations at the addresses or through the other contact information listed below for these private standards organizations. In addition, these standards are available for inspection at any Regional Office of the Occupational Safety and Health Administration (OSHA), or at the OSHA Docket Office, U.S. Department of Labor, 200 Constitution Avenue NW, Room N-3508, Washington, DC 20210; telephone: 202-693-2350 (TTY number: 877-889-5627). They are also available for inspection at the National Archives and Records Administration (NARA). For information on the availability of these standards at NARA, telephone: 202-741-6030, or go to [www.archives.gov/federal-register/cfr/ibr-locations.html](http://www.archives.gov/federal-register/cfr/ibr-locations.html).

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(b) The following material is available for purchase from the American Conference of Governmental Industrial Hygienists (ACGIH), 1014 Broadway, Cincinnati OH 45202:

(1) “Industrial Ventilation: A Manual of Recommended Practice” (22nd ed., 1995), incorporation by reference (IBR) approved for § 1910.124(b)(4)(iii).

(2) Threshold Limit Values and Biological Exposure Indices for 1986–87 (1986), IBR approved for § 1910.120, PEL definition.

(c) The following material is available for purchase from the American Society of Agricultural Engineers (ASAE), 2950 Niles Road, Post Office Box 229, St. Joseph, MI 49085:

(1) ASAE Emblem for Identifying Slow Moving Vehicles, ASAE S276.2 (1968), IBR approved for § 1910.145(d)(10).

(2) [Reserved]

(d) The following material is available for purchase from the Agriculture Ammonia Institute–Rubber Manufacturers (AAI–RMA) Association, 1400 K St. NW, Washington DC 20005:

(1) AAI–RMA Specifications for Anhydrous Ammonia Hose, IBR approved for § 1910.111(b)(8)(i).

(2) [Reserved]

(e) Except as noted, copies of the standards listed below in this paragraph are available for purchase from the American National Standards Institute (ANSI), 25 West 43rd Street, 4th Floor, New York, NY 10036; telephone: 212–642–4900; fax: 212–398–0023; Web site: <http://www.ansi.org>.

(1), (2) [Reserved by 72 FR 71608]

(3) ANSI A11.1–65 (R 70) Practice for Industrial Lighting, IBR approved for §§ 1910.219(c)(5)(iii); 1910.261(a)(3)(i), (c)(10), and (k)(21); and 1910.265(c)(2).

(4) ANSI A11.1–65 Practice for Industrial Lighting, IBR approved for §§ 1910.262(c)(6) and 1910.265(d)(2)(i)(a).

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(5) [Reserved by 72 FR 71608]

(6) ANSI A13.1–56 Scheme for the Identification of Piping Systems, IBR approved for §§ 1910.253(d)(4)(ii); 1910.261(a)(3)(iii); 1910.262(c)(7).

(7) ANSI A14.1–68 Safety Code for Portable Wood Ladders, Supplemented by ANSI A14.1a–77, IBR approved for § 1910.261(a)(3)(iv) and (c)(3)(i).

(8) ANSI A14.2–56 Safety Code for Portable Metal Ladders, Supplemented by ANSI A14.2a–77, IBR approved for § 1910.261(a)(3)(v) and (c)(3)(i).

(9) ANSI A14.3–56 Safety Code for Fixed Ladders, IBR approved for §§ 1910.68(b)(4); and 1910.261(a)(3)(vi) and (c)(3)(i).

(10) ANSI A17.1–65 Safety Code for Elevators, Dumbwaiters and Moving Walks, Including Supplements, A17.1a (1967); A17.1b (1968); A17.1c (1969); A17.1d (1970), IBR approved for § 1910.261(a)(3)(vii), (g)(11)(i), and (l)(4).

(11) ANSI A17.2–60 Practice for the Inspection of Elevators, Including Supplements, A17.2a (1965), A17.2b (1967), IBR approved for § 1910.261(a)(3)(viii).

(12) ANSI A90.1–69 Safety Standard for Manlifts, IBR approved for § 1910.68(b)(3).

(13) ANSI A92.2–69 Standard for Vehicle Mounted Elevating and Rotating Work Platforms, IBR approved for § 1910.67(b)(1), (2), (c)(3), and (4) and 1910.268(s)(1)(v).

(14) ANSI A120.1–70 Safety Code for Powered Platforms for Exterior Building Maintenance, IBR approved for § 1910.66 app. D (b) through (d).

(15) ANSI B7.1–70 Safety Code for the Use, Care and Protection of Abrasive Wheels, IBR approved for §§ 1910.215(b)(12) and 1910.218(j).

(16) ANSI B15.1–53 (R 58) Safety Code for Mechanical Power Transmission Apparatus, IBR approved for §§ 1910.68(b)(4) and 1910.261(a)(3)(ix), (b)(1), (e)(3), (e)(9), (f)(4), (j)(5)(iv), (k)(12), and (l)(3).

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- (17) ANSI B20.1–57 Safety Code for Conveyors, Cableways, and Related Equipment, IBR approved for §§ 1910.218(j)(3); 1910.261(a)(3)(x), (b)(1), (c)(15)(iv), (f)(4), and (j)(2); 1910.265(c)(18)(i).
- (18) ANSI B30.2–43 (R 52) Safety Code for Cranes, Derricks, and Hoists, IBR approved for § 1910.261(a)(3)(xi), (c)(2)(vi), and (c)(8)(i) and (iv).
- (19) ANSI B30.2.0–67 Safety Code for Overhead and Gantry Cranes, IBR approved for §§ 1910.179(b)(2); 1910.261(a)(3)(xii), (c)(2)(v), and (c)(8)(i) and (iv).
- (20) ANSI B30.5–68 Safety Code for Crawler, Locomotive, and Truck Cranes, IBR approved for §§ 1910.180(b)(2) and 1910.261(a)(3)(xiii).
- (21) ANSI B30.6–69 Safety Code for Derricks, IBR approved for §§ 1910.181(b)(2) and 1910.268(j)(4)(iv)(E) and (H).
- (22) ANSI B31.1–55 Code for Pressure Piping, IBR approved for § 1910.261(g)(18)(iii).
- (23) ANSI B31.1–67, IBR approved for § 1910.253(d)(1)(i)(A)
- (24) ANSI B31.1a–63 Addenda to ANSI B31.1 (1955), IBR approved for § 1910.261(g)(18)(iii).
- (25) ANSI B31.1–67 and Addenda B31.1 (1969) Code for Pressure Piping, IBR approved for §§ 1910.103(b)(1)(iii)(b); 1910.104(b)(5)(ii); 1910.218(d)(4) and (e)(1)(iv); and 1910.261(a)(3)(xiv) and (g)(18)(iii).
- (26) ANSI B31.2–68 Fuel Gas Piping, IBR approved for § 1910.261(g)(18)(iii).
- (27) ANSI B31.3–66 Petroleum Refinery Piping, IBR approved for § 1910.103(b)(3)(v)(b).
- (28) ANSI B31.5–66 Addenda B31.5a (1968) Refrigeration Piping, IB approved for §§ 1910.103(b)(3)(v)(b) and 1910.111(b)(7)(iii).
- (29) ANSI B56.1–69 Safety Standard for Powered Industrial Trucks, IBR approved for §§ 1910.178(a)(2) and (3) and 1910.261(a)(3)(xv), (b)(6), (m)(2), and (m)(5)(iii).

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(30) ANSI B57.1–65 Compressed Gas Cylinder Valve Outlet and Inlet Connections, IBR approved for § 1910.253(b)(1)(iii).

(31) [Reserved]

(32) ANSI B175.1–1991, Safety Requirements for Gasoline–Powered Chain Saws § 1910.266(e)(2)(i).

(33) [Reserved]

(34) ANSI C33.2–56 Safety Standard for Transformer–Type Arc Welding Machines, IBR approved for § 1910.254(b)(1).

(35) [Reserved]

(36) ANSI H23.1–70 Seamless Copper Water Tube Specification, IBR approved for § 1910.110(b)(8)(ii) and (13)(ii)(b)(1).

(37) ANSI H38.7–69 Specification for Aluminum Alloy Seamless Pipe and Seamless Extruded Tube, IBR approved for § 1910.110(b)(8)(i).

(38) ANSI J6.4–71 Standard Specification for Rubber Insulating Blankets, IBR approved for § 1910.268(f)(1) and (n)(11)(v).

(39) ANSI J6.6–71 Standard Specification for Rubber Insulating Gloves, IBR approved for § 1910.268(f)(1) and (n)(11)(iv).

(40) ANSI K13.1–67 Identification of Gas Mask Canisters, IBR approved for § 1910.261(a)(3)(xvi) and (h)(2)(iii).

(41) ANSI K61.1–60 Safety Requirements for the Storage and Handling of Anhydrous Ammonia, IBR approved for § 1910.111(b)(11)(i).

(42) ANSI K61.1–66 Safety Requirements for the Storage and Handling of Anhydrous Ammonia, IBR approved for § 1910.111(b)(11)(i).

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- (43) ANSI O1.1–54 (R 61) Safety Code for Woodworking Machinery, IBR approved for § 1910.261(a)(3)(xvii), (e)(7), and (i)(2).
- (44) ANSI S1.4–71 (R 76) Specification for Sound Level Meters, IBR approved for § 1910.95 appendixes D and I.
- (45) ANSI S1.11–71 (R 76) Specification for Octave, Half–Octave and Third–Octave Band Filter Sets, IBR approved for § 1910.95 appendix D.
- (46) ANSI S3.6–69 Specifications for Audiometers, IBR approved for § 1910.95(h)(2) and (5)(ii) and appendix D.
- (47) ANSI Z4.1–68 Requirements for Sanitation in Places of Employment, IBR approved for § 1910.261(a)(3)(xviii) and (g)(15)(vi).
- (48) [Reserved]
- (49) ANSI Z9.1–51 Safety Code for Ventilation and Operation of Open Surface Tanks, IBR approved for 1910.261(a)(3)(xix), (g)(18)(v), and (h)(2)(i).
- (50) ANSI Z9.1–71 Practices for Ventilation and Operation of Open–Surface Tanks, IBR approved for § 1910.124(b)(4)(iv).
- (51) ANSI Z9.2–60 Fundamentals Governing the Design and Operation of Local Exhaust Systems, IBR approved for §§ 1910.94(a)(4)(i) introductory text, (a)(6) introductory text, (b)(3)(ix), (b)(4)(i) and (ii), (c)(3)(i) introductory text, (c)(5)(iii)(b), and (c)(7)(iv)(a); 1910.261(a)(3)(xx), (g)(1)(i) and (iii), and (h)(2)(ii).
- (52) ANSI Z9.2–79 Fundamentals Governing the Design and Operation of Local Exhaust Systems, IBR approved for § 1910.124(b)(4)(i).
- (53) ANSI Z12.12–68 Standard for the Prevention of Sulfur Fires and Explosions, IBR approved for § 1910.261(a)(3)(xxi), (d)(1)(i), (f)(2)(iv), and (g)(1)(i).
- (54) ANSI Z12.20–62 (R 69) Code for the Prevention of Dust Explosions in Woodworking and Wood Flour Manufacturing Plants, IBR approved for § 1910.265(c)(20)(i).



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(55) ANSI Z21.30–64 Requirements for Gas Appliances and Gas Piping Installations, IBR approved for § 1910.265(c)(15).

(56) ANSI Z24.22–57 Method of Measurement of Real-Ear Attenuation of Ear Protectors at Threshold, IBR approved for § 1910.261(a)(3)(xxii).

(57) ANSI Z33.1–61 Installation of Blower and Exhaust Systems for Dust, Stock, and Vapor Removal or Conveying, IBR approved for §§ 1910.94(a)(4)(i); 1910.261(a)(3)(xxiii) and (f)(5); and 1910.265(c)(20)(i).

(58) ANSI Z33.1–66 Installation of Blower and Exhaust Systems for Dust, Stock, and Vapor Removal or Conveying, IBR approved for § 1910.94(a)(2)(ii).

(59) ANSI Z35.1–1968, Specifications for Accident Prevention Signs; IBR approved for § 1910.261(c). Copies available for purchase from the IHS Standards Store, 15 Inverness Way East, Englewood, CO 80112; telephone: 1–877–413–5184; Web site: [www.global.ihs.com](http://www.global.ihs.com).

(60) ANSI Z41–1999, American National Standard for Personal Protection—Protective Footwear; IBR approved for § 1910.136(b)(1)(ii). Copies of ANSI Z41–1999 are available for purchase only from the National Safety Council, P.O. Box 558, Itasca, IL 60143–0558; telephone: 1–800–621–7619; fax: 708–285–0797; Web site: <http://www.nsc.org>.

(61) ANSI Z41–1991, American National Standard for Personal Protection—Protective Footwear; IBR approved for § 1910.136(b)(1)(iii). Copies of ANSI Z41–1991 are available for purchase only from the National Safety Council, P.O. Box 558, Itasca, IL 60143–0558; telephone: 1–800–621–7619; fax: 708–285–0797; Web site: <http://www.nsc.org>.

(62), (63) [Reserved by 72 FR 71608]

(64) ANSI Z49.1–67 Safety in Welding and Cutting, IBR approved for § 1910.252(c)(1)(iv)(A) and (B).

(65) USAS Z53.1–1967 (also referred to as ANSI Z53.1–1967), Safety Color Code for Marking Physical Hazards, ANSI approved October 9, 1967; IBR approved for § 1910.97(a) and 1910.145(d). Copies available for purchase from the IHS Standards Store, 15 Inverness Way East, Englewood, CO 80112; telephone: 1–877–413–5184; Web site: [www.global.ihs.com](http://www.global.ihs.com).

(66) ANSI Z535.1–2006 (R2011), Safety Colors, reaffirmed July 19, 2011; IBR approved for §§ 1910.97(a) and 1910.145(d). Copies available for purchase from the:

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(i) American National Standards Institute's e-Standards Store, 25 W 43rd Street, 4th Floor, New York, NY 10036; telephone: 212-642-4980; Web site: <http://webstore.ansi.org/>;

(ii) IHS Standards Store, 15 Inverness Way East, Englewood, CO 80112; telephone: 877-413-5184; Web site: [www.global.ihs.com](http://www.global.ihs.com); or

(iii) TechStreet Store, 3916 Ranchero Dr., Ann Arbor, MI 48108; telephone: 877-699-9277; Web site: [www.techstreet.com](http://www.techstreet.com).

(67) ANSI Z535.2-2011, Environmental and Facility Safety Signs, published September 15, 2011; IBR approved for § 1910.261(c). Copies available for purchase from the:

(i) American National Standards Institute's e-Standards Store, 25 W 43rd Street, 4th Floor, New York, NY 10036; telephone: 212-642-4980; Web site: <http://webstore.ansi.org/>;

(ii) IHS Standards Store, 15 Inverness Way East, Englewood, CO 80112; telephone: 877-413-5184; Web site: [www.global.ihs.com](http://www.global.ihs.com); or

(iii) TechStreet Store, 3916 Ranchero Dr., Ann Arbor, MI 48108; telephone: 877-699-9277; Web site: [www.techstreet.com](http://www.techstreet.com).

(68) ANSI Z54.1-63 Safety Standard for Non-Medical X-Ray and Sealed Gamma Ray Sources, IBR approved for § 1910.252(d)(1)(vii) and (2)(ii).

(69) ANSI/ISEA Z87.1-2010, Occupational and Educational Personal Eye and Face Protection Devices, Approved April 13, 2010; IBR approved for § 1910.133(b). Copies are available for purchase from:

(i) American National Standards Institute's e-Standards Store, 25 W 43rd Street, 4th Floor, New York, NY 10036; telephone: (212) 642-4980; Web site: <http://webstore.ansi.org/>;

(ii) IHS Standards Store, 15 Inverness Way East, Englewood, CO 80112; telephone: (877) 413-5184; Web site: <http://global.ihs.com>; or

(iii) TechStreet Store, 3916 Ranchero Dr., Ann Arbor, MI 48108; telephone: (877) 699-9277; Web site: <http://techstreet.com>.

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(70) ANSI Z87.1–2003, Occupational and Educational Eye and Face Personal Protection Devices Approved June 19, 2003; IBR approved for §§ 1910.133(b). Copies available for purchase from the:

(i) American National Standards Institute's e-Standards Store, 25 W 43rd Street, 4th Floor, New York, NY 10036; telephone: (212) 642–4980; Web site: <http://webstore.ansi.org/>;

(ii) IHS Standards Store, 15 Inverness Way East, Englewood, CO 80112; telephone: (877) 413–5184; Web site: <http://global.ihs.com>; or

(iii) TechStreet Store, 3916 Ranchero Dr., Ann Arbor, MI 48108; telephone: (877) 699–9277; Web site: <http://techstreet.com>.

(71) ANSI Z87.1–1989 (R–1998), Practice for Occupational and Educational Eye and Face Protection, Reaffirmation approved January 4, 1999; IBR approved for § 1910.133(b). Copies are available for purchase from:

(i) American National Standards Institute's e-Standards Store, 25 W 43rd Street, 4th Floor, New York, NY 10036; telephone: (212) 642–4980; Web site: <http://webstore.ansi.org/>;

(ii) IHS Standards Store, 15 Inverness Way East, Englewood, CO 80112; telephone: (877) 413–5184; Web site: <http://global.ihs.com>; or

(iii) TechStreet Store, 3916 Ranchero Dr., Ann Arbor, MI 48108; telephone: (877) 699–9277; Web site: <http://techstreet.com>.

(72) ANSI Z88.2–1969, Practices for Respiratory Protection; IBR approved for §§ 1910.94(c)(6)(iii)(a), 1910.134(c); and 1910.261(a)(3)(xxvi), (b)(2), (f)(5), (g)(15)(v), (h)(2)(iii), (h)(2)(iv), and (i)(4).

(73) American National Standards Institute (ANSI) Z89.1–2009, American National Standard for Industrial Head Protection, approved January 26, 2009; IBR approved for § 1910.135(b)(1)(i). Copies of ANSI Z89.1–2009 are available for purchase only from the International Safety Equipment Association, 1901 North Moore Street, Arlington, VA 22209–1762; telephone: 703–525–1695; fax: 703–528–2148; Web site: [www.safetyequipment.org](http://www.safetyequipment.org).

(74) American National Standards Institute (ANSI) Z89.1–2003, American National Standard for Industrial Head Protection; IBR approved for § 1910.135(b)(1)(ii). Copies of ANSI Z89.1–2003 are available for purchase only from the International Safety Equipment Association, 1901 North Moore Street, Arlington, VA 22209–1762; telephone: 703–525–1695; fax: 703–528–2148; Web site: [www.safetyequipment.org](http://www.safetyequipment.org).

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(75) American National Standards Institute (ANSI) Z89.1–1997, American National Standard for Personnel Protection—Protective Headwear for Industrial Workers—Requirements; IBR approved for § 1910.135(b)(1)(iii). Copies of ANSI Z89.1–1997 are available for purchase only from the International Safety Equipment Association, 1901 North Moore Street, Arlington, VA 22209–1762; telephone: 703–525–1695; fax: 703–528–2148; Web site: www.safetysite.org.

(76) ANSI Z41.1–1967 Men's Safety Toe Footwear; IBR approved for § 1910.261(i)(4).

(77) ANSI Z87.1–1968 Practice of Occupational and Educational Eye and Face Protection; IBR approved for § 1910.261(a)(3)(xxv), (d)(1)(ii), (f)(5), (g)(1), (g)(15)(v), (g)(18)(ii), and (i)(4).

(78) ANSI Z89.1–1969 Safety Requirements for Industrial Head Protection; IBR approved for § 1910.261(a)(3)(xxvii), (b)(2), (g)(15)(v), and (i)(4).

(79) ANSI Z89.2–1971 Safety Requirements for Industrial Protective Helmets for Electrical Workers, Class B; IBR approved for § 1910.268(i)(1).

(f) The following material is available for purchase from the American Petroleum Institute (API), 1220 L Street NW, Washington DC 20005:

(1) [Reserved]

(2) API 12B (May 1958) Specification for Bolted Production Tanks, 11th Ed., With Supplement No. 1, Mar. 1962, IBR approved for § 1910.106(b)(1)(i)(a)(3).

(3) API 12D (Aug. 1957) Specification for Large Welded Production Tanks, 7th Ed., IBR approved for § 1910.106(b)(1)(i)(a)(3).

(4) API 12F (Mar. 1961) Specification for Small Welded Production Tanks, 5th Ed., IBR approved for § 1910.106(b)(1)(i)(a)(3).

(5) API 620, Fourth Ed. (1970) Including appendix R, Recommended Rules for Design and Construction of Large Welded Low Pressure Storage Tanks, IBR approved for §§ 1910.103(c)(1)(i)(a); 1910.106(b)(1)(iv)(b)(1); and 1910.111(d)(1)(ii) and (iii).

(6) API 650 (1966) Welded Steel Tanks for Oil Storage, 3rd Ed., IBR approved for § 1910.106(b)(1)(iii)(a)(2).

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(7) API 1104 (1968) Standard for Welding Pipelines and Related Facilities, IBR approved for § 1910.252(d)(1)(v).

(8) API 2000 (1968) Venting Atmospheric and Low Pressure Storage Tanks, IBR approved for § 1910.106(b)(2)(iv)(b)(1).

(9) API 2201 (1963) Welding or Hot Tapping on Equipment Containing Flammables, IBR approved for § 1910.252(d)(1)(vi).

(g) The following material is available for purchase from the American Society of Mechanical Engineers (ASME), United Engineering Center, 345 East 47th Street, New York, NY 10017:

(1) ASME Boiler and Pressure Vessel Code, Sec. VIII, 1949, 1950, 1952, 1956, 1959, and 1962 Ed., IBR approved for §§ 1910.110(b)(10)(iii) (Table H-26), (d)(2) (Table H-31); (e)(3)(i) (Table H-32), (h)(2) (Table H-34); and 1910.111(b)(2)(vi);

(2) ASME Code for Pressure Vessels, 1968 Ed., IBR approved for §§ 1910.106(i)(3)(i); 1910.110(g)(2)(iii)(b)(2); and 1910.217(b)(12);

(3) ASME Boiler and Pressure Vessel Code, Sec. VIII, 1968, IBR approved for §§ 1910.103; 1910.104(b)(4)(ii); 1910.106(b)(1)(iv)(b)(2) and (i)(3)(ii); 1910.107; 1910.110(b)(11)(i)(b) and (iii)(a)(1); 1910.111(b)(2)(i), (ii), and (iv); and 1910.169(a)(2)(i) and (ii);

(4) ASME Boiler and Pressure Vessel Code, Sec. VIII, Paragraph UG-84, 1968, IBR approved for § 1910.104(b)(4)(ii) and (b)(5)(iii);

(5) ASME Boiler and Pressure Vessel Code, Sec. VIII, Unfired Pressure Vessels, Including Addenda (1969), IBR approved for §§ 1910.261; 1910.262; 1910.263(i)(24)(ii);

(6) Code for Unfired Pressure Vessels for Petroleum Liquids and Gases of the API and the ASME, 1951 Ed., IBR approved for § 1910.110(b)(3)(iii); and

(7) ASME B56.6-1992 (with addenda), Safety Standard for Rough Terrain Forklift Trucks, IBR approved for § 1910.266(f)(4).

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(h) Copies of the standards listed below in this paragraph (h) are available for purchase from ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959; Telephone: 610-832-9585; Fax: 610-832-9555; Email: [seviceastm.org](mailto:seviceastm.org); Web site: <http://www.astm.org>. Copies of historical standards or standards that ASTM does not have may be purchased from Information Handling Services, Global Engineering Documents, 15 Inverness Way East, Englewood, CO 80112; Telephone: 1-800-854-7179; Email: [global@ihs.com](mailto:global@ihs.com); Web sites: <http://global.ihs.com> or <http://www.store.ihs.com>.

- (1) ASTM A 47-68, Malleable Iron Castings, IBR approved for § 1910.111.
- (2) ASTM A 53-69, Welded and Seamless Steel Pipe, IBR approved for §§ 1910.110 and 1910.111.
- (3) ASTM A 126-66, Gray Iron Casting for Valves, Flanges and Pipe Fitting, IBR approved for § 1910.111.
- (4) ASTM A 391-65 (ANSI G61.1-1968), Alloy Steel Chain, IBR approved for § 1910.184.
- (5) ASTM A 395-68, Ductile Iron for Use at Elevated Temperatures, IBR approved for § 1910.111.
- (6) ASTM B 88-66A, Seamless Copper Water Tube, IBR approved for § 1910.252.
- (7) ASTM B 88-69, Seamless Copper Water Tube, IBR approved for § 1910.110.
- (8) [Reserved by 81 FR 82981]
- (9) ASTM B 210-68, Aluminum-Alloy Drawn Seamless Tubes, IBR approved for § 1910.110.
- (10) ASTM B 241-69, Standard Specifications for Aluminum-Alloy Seamless Pipe and Seamless Extruded Tube, IBR approved for § 1910.110.
- (11) ASTM D 5-65, Test for Penetration by Bituminous Materials, IBR approved for § 1910.106.
- (12) ASTM D 56-70, Test for Flash Point by Tag Closed Tester, IBR approved for § 1910.106.
- (13) ASTM D 56-05, Standard Test Method for Flash Point by Tag Closed Cup Tester, Approved May 1, 2005, IBR approved for Appendix B to § 1910.1200.

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- (14) ASTM D 86–62, Test for Distillation of Petroleum Products, IBR approved for §§ 1910.106 and 1910.119.
- (15) ASTM D 86–07a, Standard Test Method for Distillation of Petroleum Products at Atmospheric Pressure, Approved April 1, 2007, IBR approved for Appendix B to § 1910.1200.
- (16) ASTM D 88–56, Test for Saybolt Viscosity, IBR approved for § 1910.106.
- (17) ASTM D 93–71, Test for Flash Point by Pensky Martens, IBR approved for § 1910.106.
- (18) ASTM D 93–08, Standard Test Methods for Flash Point by Pensky–Martens Closed Cup Tester, Approved Oct. 15, 2008, IBR approved for Appendix B to § 1910.1200.
- (19) ASTM D 240–02 (Reapproved 2007), Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter, Approved May 1, 2007, IBR approved for Appendix B to § 1910.1200.
- (20) ASTM D 323–68, Standard Test Method of Test for Vapor Pressure of Petroleum Products (Reid Method), IBR approved for § 1910.106.
- (21) ASTM D 445–65, Test for Viscosity of Transparent and Opaque Liquids, IBR approved for § 1910.106.
- (22) ASTM D 1078–05, Standard Test Method for Distillation Range of Volatile Organic Liquids, Approved May 15, 2005, IBR approved for Appendix B to § 1910.1200.
- (23) ASTM D 1692–68, Test for Flammability of Plastic Sheeting and Cellular Plastics, IBR approved for § 1910.103.
- (24) ASTM D 2161–66, Conversion Tables for SUS, IBR approved for § 1910.106.
- (25) ASTM D 3278–96 (Reapproved 2004) E1, Standard Test Methods for Flash Point of Liquids by Small Scale Closed–Cup Apparatus, Approved November 1, 2004, IBR approved for Appendix B to § 1910.1200.
- (26) ASTM D 3828–07a, Standard Test Methods for Flash Point by Small Scale Closed Cup Tester, Approved July 15, 2007, IBR approved for Appendix B to § 1910.1200.

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(27) ASTM F-2412-2005, Standard Test Methods for Foot Protection, IBR approved for § 1910.136.

(28) ASTM F-2413-2005, Standard Specification for Performance Requirements for Protective Footwear, IBR approved for § 1910.136.

(i) The following material is available at the American Thoracic Society (ATS), 25 Broadway, 18th Floor New York, NY 10004; website: [www.atsjournals.org/](http://www.atsjournals.org/).

(1) Spirometric Reference Values from a Sample of the General U.S. Population. Hankinson JL, Odencrantz JR, Fedan KB. American Journal of Respiratory and Critical Care Medicine, 159:179-187, 1999, IBR approved for § 1910.1043(h).

(2) [Reserved]

(j) The following material is available for purchase from the American Welding Society (AWS), 550 NW, LeJeune Road, P.O. Box 351040, Miami FL 33135:

(1) [Reserved by 72 FR 71608]

(2) [Reserved]

(3) AWS B3.0-41 Standard Qualification Procedure, IBR approved for § 1910.67(c)(5)(i).

(4) AWS D1.0-1966 Code for Welding in Building Construction, IBR approved for § 1910.27(b)(6).

(5) AWS D2.0-69 Specifications for Welding Highway and Railway Bridges, IBR approved for § 1910.67(c)(5)(iv).

(6) AWS D8.4-61 Recommended Practices for Automotive Welding Design, IBR approved for § 1910.67(c)(5)(ii).

(7) AWS D10.9-69 Standard Qualification of Welding Procedures and Welders for Piping and Tubing, IBR approved for § 1910.67(c)(5)(iii).

(k) The following material is available for purchase from the Department of Commerce:



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(1) [Reserved by 81 FR 82981]

(2) Publication “Model Performance Criteria for Structural Fire Fighters’ Helmets,” IBR approved for § 1910.156(e)(5)(i).

(l) The following material is available for purchase from the Compressed Gas Association (CGA), 1235 Jefferson Davis Highway, Arlington, VA 22202:

(1) CGA C–6 (1968) Standards for Visual Inspection of Compressed Gas Cylinders, IBR approved for § 1910.101(a).

(2) CGA C–8 (1962) Standard for Requalification of ICC–3HT Cylinders, IBR approved for § 1910.101(a).

(3) CGA G–1–2009 Acetylene, Twelfth Edition, IBR approved for § 1910.102(a). Copies of CGA Pamphlet G–1–2009 are available for purchase from the: Compressed Gas Association, Inc., 4221 Walney Road, 5th Floor, Chantilly, VA 20151; telephone: (703) 788–2700; fax: (703) 961–1831; email: [cga@cganet.com](mailto:cga@cganet.com).

(4) CGA G–7.1 (1966) Commodity Specification, IBR approved for § 1910.134(d)(1).

(5) CGA G–8.1 (1964) Standard for the Installation of Nitrous Oxide Systems at Consumer Sites, IBR approved for § 1910.105.

(6) CGA P–1 (1965) Safe Handling of Compressed Gases, IBR approved for § 1910.101(b).

(7) CGA P–3 (1963) Specifications, Properties, and Recommendations for Packaging, Transportation, Storage and Use of Ammonium Nitrate, IBR approved for § 1910.109(i)(1)(ii)(b).

(8) CGA S–1.1 (1963) and 1965 Addenda. Safety Release Device Standards—Cylinders for Compressed Gases, IBR approved for §§ 1910.101(c); 1910.103(c)(1)(iv)(a)(2).

(9) CGA S–1.2 (1963) Safety Release Device Standards, Cargo and Portable Tanks for Compressed Gases, IBR approved for §§ 1910.101(c); 1910.103(c)(1)(iv)(a)(2).

(10) CGA S–1.3 (1959) Safety Release Device Standards—Compressed Gas Storage Containers, IBR approved for §§ 1910.103(c)(1)(iv)(a)(2); 1910.104(b)(6)(iii); and 1910.111(d)(4)(ii)(b).

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(11) CGA 1957 Standard Hose Connection Standard, IBR approved for § 1910.253(e)(4)(v) and (5)(iii).

(12) CGA and RMA (Rubber Manufacturer's Association) Specification for Rubber Welding Hose (1958), IBR approved for § 1910.253(e)(5)(i).

(13) CGA 1958 Regulator Connection Standard, IBR approved for § 1910.253(e)(4)(iv) and (6).

(m) The following material is available for purchase from the Crane Manufacturer's Association of America, Inc. (CMAA), 1 Thomas Circle NW, Washington DC 20005:

(1) CMAA Specification 1B61, Specifications for Electric Overhead Traveling Cranes, IBR approved for § 1910.179(b)(6)(i).

(2) [Reserved]

(n) The following material is available for purchase from the General Services Administration:

(1) GSA Pub. GG-B-0067b, Air Compressed for Breathing Purposes, or Interim Federal Specifications, Apr. 1965, IBR approved for § 1910.134(d)(4).

(2) [Reserved]

(o) The following material is available for purchase from the Department of Health and Human Services:

(1) Publication No. 76-120 (1975), List of Personal Hearing Protectors and Attenuation Data, IBR approved for § 1910.95 App. B.

(2) [Reserved]

(p) The following material is available for purchase from the Institute of Makers of Explosives (IME), 420 Lexington Avenue, New York, NY 10017:

(1) IME Pamphlet No. 17, 1960, Safety in the Handling and Use of Explosives, IBR approved for §§ 1910.261(a)(4)(iii) and (c)(14)(ii).

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(2) [Reserved]

(q) The following material is available from the International Labour Organization (ILO), 4 route des Morillons, CH-1211 Genève 22, Switzerland; telephone: +41 (0) 22 799 6111; fax: +41 (0) 22 798 8685; website: [www.ilo.org/](http://www.ilo.org/).

(1) Guidelines for the Use of the ILO International Classification of Radiographs of Pneumoconioses, Revised Edition 2011, Occupational safety and health series; 22 (Rev.2011), IBR approved for § 1910.1001.

(2) [Reserved]

(r)(1) The following materials are available for purchase from the International Standards Organization (ISO) through ANSI, 25 West 43rd Street, Fourth Floor, New York, NY 10036-7417; Telephone: 212-642-4980; Fax: 212-302-1286; Email: [info@ansi.org](mailto:info@ansi.org); Web site: <http://www.ansi.org>.

(2) Documents not available in the ANSI store may be purchased from:

(i) Document Center Inc., 111 Industrial Road, Suite 9, Belmont, 94002; Telephone: 650-591-7600; Fax: 650-591-7617; Email: [info@document-center.com](mailto:info@document-center.com); Web site: [www.document-center.com](http://www.document-center.com).

(ii) DECO—Document Engineering Co., Inc., 15210 Stagg Street, Van Nuys, CA 91405; Telephone: 800-645-7732 or 818-782-1010; Fax: 818-782-2374; Email: [doceng@doceng.com](mailto:doceng@doceng.com); Web site: [www.doceng.com](http://www.doceng.com)

(iii) Global Engineering Documents, 15 Inverness Way East, Englewood, CO 80112; Telephone: 1-800-854-7179 or 303-397-7956; Fax: 303-397-2740; Email: [global@ihs.com](mailto:global@ihs.com); Web sites: <http://global.ihs.com> or <http://www.store.ihs.com>;

(iv) ILI Infodisk, Inc., 610 Winters Avenue, Paramus, NJ 07652; Telephone: 201-986-1131; Fax: 201-986-7886; Email: [sales@ili-info.com](mailto:sales@ili-info.com); Web site: [www.ili-info.com](http://www.ili-info.com).

(v) Techstreet, a business of Thomson Reuters, 3916 Ranchero Drive, Ann Arbor, MI 48108; Telephone: 800-699-9277 or 734-780-8000; Fax: 734-780-2046; Email: [techstreet.service@thomsonreuters.com](mailto:techstreet.service@thomsonreuters.com); Web site: [www.Techstreet.com](http://www.Techstreet.com).

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(3) ISO 10156:1996 (E), Gases and Gas Mixtures—Determination of Fire Potential and Oxidizing Ability for the Selection of Cylinder Valve Outlets, Second Edition, Feb. 15, 1996, IBR approved for Appendix B to § 1910.1200.

(4) ISO 10156-2:2005 (E), Gas cylinders—Gases and Gas Mixtures—Part 2: Determination of Oxidizing Ability of Toxic and Corrosive Gases and Gas Mixtures, First Edition, Aug. 1, 2005, IBR approved for Appendix B to § 1910.1200.

(5) ISO 13943:2000 (E/F), Fire Safety—Vocabulary, First Edition, April, 15, 2000, IBR approved for Appendix B to § 1910.1200.

(s) The following material is available for purchase from the National Electrical Manufacturer's Association (NEMA):

(1) NEMA EW-1 (1962) Requirements for Electric Arc Welding Apparatus, IBR approved for §§ 1910.254(b)(1).

(2) [Reserved]

(t) The following material is available for purchase from the National Fire Protection Association (NFPA), 1 Batterymarch Park, Quincy, MA 02269; Telephone: 800-344-3555 or 617-770-3000; Fax: 1-800-593-6372 or 1-508-895-8301; Email: [custserv@nfpa.org](mailto:custserv@nfpa.org); Web site: <http://www.nfpa.org>.

(1) NFPA 30 (1969) Flammable and Combustible Liquids Code, IBR approved for § 1910.178(f)(1).

(2) NFPA 32-1970 Standard for Dry Cleaning Plants, IBR approved for § 1910.106(j)(6)(i).

(3) NFPA 33-1969 Standard for Spray Finishing Using Flammable and Combustible Material, IBR approved for § 1910.94(c)(2).

(4) NFPA 34-1966 Standard for Dip Tanks Containing Flammable or Combustible Liquids, IBR approved for § 1910.124(b)(4)(iv).

(5) NFPA 34-1995 Standard for Dip Tanks Containing Flammable or Combustible Liquids, IBR approved for § 1910.124(b)(4)(ii).

(6) NFPA 35-1970 Standard for the Manufacture of Organic Coatings, IBR approved for § 1910.106(j)(6)(ii).

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- (7) NFPA 36–1967 Standard for Solvent Extraction Plants, IBR approved for § 1910.106(j)(6)(iii).
- (8) NFPA 37–1970 Standard for the Installation and Use of Stationary Combustion Engines and Gas Turbines, IBR approved for §§ 1910.106(j)(6)(iv) and 1910.110(b)(20)(iv)(c) and (e)(11).
- (9) NFPA 51B–1962 Standard for Fire Protection in Use of Cutting and Welding Processes, IBR approved for § 1910.252(a)(1) introductory text.
- (10) NFPA 54–1969 Standard for the Installation of Gas Appliances and Gas Piping, IBR approved for § 1910.110(b)(20)(iv)(a).
- (11) NFPA 54A–1969 Standard for the Installation of Gas Piping and Gas Equipment on Industrial Premises and Certain Other Premises, IBR approved for § 1910.110(b)(20)(iv)(b).
- (12) NFPA 58–1969 Standard for the Storage and Handling of Liquefied Petroleum Gases (ANSI Z106.1–1970), IBR approved for §§ 1910.110(b)(3)(iv) and (i)(3)(i) and (ii); and 1910.178(f)(2).
- (13) NFPA 59–1968 Standard for the Storage and Handling of Liquefied Petroleum Gases at Utility Gas Plants, IBR approved for §§ 1910.110(b)(3)(iv) and (i)(2)(iv).
- (14) NFPA 62–1967 Standard for the Prevention of Dust Explosions in the Production, Packaging, and Handling of Pulverized Sugar and Cocoa, IBR approved for § 1910.263(k)(2)(i).
- (15) NFPA 68–1954 Guide for Explosion Venting, IBR approved for § 1910.94(a)(2)(iii).
- (16) [Reserved]
- (17) NFPA 78–1968 Lightning Protection Code, IBR approved for § 1910.109(i)(6)(ii).
- (18) NFPA 80–1968 Standard for Fire Doors and Windows, IBR approved for § 1910.106(d)(4)(i).
- (19) NFPA 80–1970 Standard for the Installation of Fire Doors and Windows, IBR approved for § 1910.253(f)(6)(i)(I).

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(20) NFPA 86A–1969 Standard for Oven and Furnaces Design, Location and Equipment, IBR approved for §§ 1910.107(j)(1) and (l)(3) and 1910.108(b)(2) and (d)(2).

(21) NFPA 91–1961 Standard for the Installation of Blower and Exhaust Systems for Dust, Stock, and Vapor Removal or Conveying (ANSI Z33.1–61), IBR approved for § 1910.107(d)(1).

(22) NFPA 91–1969 Standards for Blower and Exhaust Systems, IBR approved for § 1910.108(b)(1).

(23) NFPA 96–1970 Standard for the Installation of Equipment for the Removal of Smoke and Grease Laden Vapors from Commercial Cooking Equipment, IBR approved for § 1910.110(b)(20)(iv)(d).

(24) NFPA 101–1970 Code for Life Safety From Fire in Buildings and Structures, IBR approved for § 1910.261(a)(4)(ii).

(25) NFPA 101–2009, Life Safety Code, 2009 edition, IBR approved for §§ 1910.34, 1910.35, 1910.36, and 1910.37.

(26) NFPA 203M–1970 Manual on Roof Coverings, IBR approved for § 1910.109(i)(1)(iii)(c).

(27) NFPA 251–1969 Standard Methods of Fire Tests of Building Construction and Materials, IBR approved for §§ 1910.106(d)(3)(ii) introductory text and (d)(4)(i).

(28) NFPA 302–1968 Fire Protection Standard for Motor–Craft (Pleasure and Commercial), IBR approved for § 1910.265(d)(2)(iv) introductory text.

(29) NFPA 385–1966 Recommended Regulatory Standard for Tank Vehicles for Flammable and Combustible Liquids, IBR approved for § 1910.106(g)(1)(i)(e)(1).

(30) NFPA 496–1967 Standard for Purged Enclosures for Electrical Equipment in Hazardous Locations, IBR approved for § 1910.103(c)(1)(ix)(e)(1).

(31) NFPA 505–1969 Standard for Type Designations, Areas of Use, Maintenance, and Operation of Powered Industrial Trucks, IBR approved for § 1910.110(e)(2)(iv).

(32) NFPA 566–1965 Standard for the Installation of Bulk Oxygen Systems at Consumer Sites, IBR approved for §§ 1910.253(b)(4)(iv) and (c)(2)(v).

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(33) NFPA 656–1959 Code for the Prevention of Dust Ignition in Spice Grinding Plants, IBR approved for § 1910.263(k)(2)(i).

(34) NFPA 1971–1975 Protective Clothing for Structural Fire Fighting, IBR approved for § 1910.156(e)(3)(ii) introductory text.

(35) NFPA 51A (2001) Standard for Acetylene Cylinder Charging Plants, IBR approved for § 1910.102(b) and (c). Copies of NFPA 51A–2001 are available for purchase from the: National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169–7471; telephone: 1–800–344–35557; e-mail: [custserv@nfpa.org](mailto:custserv@nfpa.org).

(36) NFPA 51A (2006) Standard for Acetylene Cylinder Charging Plants, IBR approved for § 1910.102(b) and (c). Copies of NFPA 51A–2006 are available for purchase from the: National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169–7471; telephone: 1–800–344–35557; e-mail: [custserv@nfpa.org](mailto:custserv@nfpa.org).

(37) NFPA 30B, Code for the Manufacture and Storage of Aerosol Products, 2007 Edition, Approved August 17, 2006, IBR approved for Appendix B to § 1910.1200.

(u) The following material is available for purchase from the National Food Plant Institute, 1700 K St. NW., Washington, DC 20006:

(1) Definition and Test Procedures for Ammonium Nitrate Fertilizer (Nov. 1964), IBR approved for § 1910.109 Table H–22, fn. 3.

(2) [Reserved]

(v) The following material is available for purchase from the National Institute for Occupational Safety and Health (NIOSH):

(1) Registry of Toxic Effects of Chemical Substances, 1978, IBR approved for § 1910.1020(c)(13)(i) and appendix B.

(2) Development of Criteria for Fire Fighters Gloves; Vol. II, part II; Test Methods, 1976, IBR approved for § 1910.156(e)(4)(i) introductory text.

(3) NIOSH Recommendations for Occupational Safety and Health Standards (Sept. 1987), IBR approved for § 1910.120 PEL definition.

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(w) The following material is available for purchase from the Public Health Service:

(1) U.S. Pharmacopeia, IBR approved for § 1910.134(d)(1).

(2) Publication No. 934 (1962), Food Service Sanitation Ordinance and Code, part V of the Food Service Sanitation Manual, IBR approved for § 1910.142(i)(1).

(x) The following material is available for purchase from the Society of Automotive Engineers (SAE), 485 Lexington Avenue, New York, NY 10017:

(1) SAE J185, June 1988, Recommended Practice for Access Systems for Off-Road Machines, IBR approved for § 1910.266(f)(5)(i).

(2) SAE J231, January 1981, Minimum Performance Criteria for Falling Object Protective Structure (FOPS), IBR approved for § 1910.266(f)(3)(ii).

(3) SAE J386, June 1985, Operator Restraint Systems for Off-Road Work Machines, IBR approved for § 1910.266(d)(3)(iv).

(4) SAE J397, April 1988, Deflection Limiting Volume-ROPS/FOPS Laboratory Evaluation, IBR approved for § 1910.266(f)(3)(iv).

(5) SAE 765 (1961) SAE Recommended Practice: Crane Loading Stability Test Code, IBR approved for § 1910.180(c)(1)(iii) and (e)(2)(iii)(a).

(6) SAE J1040, April 1988, Performance Criteria for Rollover Protective Structures (ROPS) for Construction, Earthmoving, Forestry and Mining Machines, IBR approved for § 1910.266(f)(3)(ii).

(y) The following material is available for purchase from the Fertilizer Institute, 1015 18th Street NW, Washington, DC 20036:

(1) Standard M-1 (1953, 1955, 1957, 1960, 1961, 1963, 1965, 1966, 1967, 1968), Superseded by ANSI K61.1-1972, IBR approved for § 1910.111(b)(1)(i) and (iii).



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(2) [Reserved]

(z) The following material is available for purchase from Underwriters Laboratories (UL), 207 East Ohio Street, Chicago, IL 60611:

(1) UL 58–61 Steel Underground Tanks for Flammable and Combustible Liquids, 5th Ed., IBR approved for § 1910.106(b)(1)(iii)(a)(1).

(2) UL 80–63 Steel Inside Tanks for Oil–Burner Fuel, IBR approved for § 1910.106(b)(1)(iii)(a)(1).

(3) UL 142–68 Steel Above Ground Tanks for Flammable and Combustible Liquids, IBR approved for § 1910.106(b)(1)(iii)(a)(1).

(aa) The following material is available for purchase from the: International Code Council, Chicago District Office, 4051 W. Flossmoor Rd., Country Club Hills, IL 60478; telephone: 708–799–2300, x3–3801; facsimile: 001–708–799–4981; e-mail: [order@iccsafe.org](mailto:order@iccsafe.org).

(1) IFC–2009, International Fire Code, copyright 2009, IBR approved for §§ 1910.34, 1910.35, 1910.36, and 1910.37.

(2) [Reserved]

(bb)(1) The following document is available for purchase from United Nations Publications, Customer Service, c/o National Book Network, 15200 NBN Way, PO Box 190, Blue Ridge Summit, PA 17214; telephone: 1–888–254–4286; fax: 1–800–338–4550; email: [unpublications@nbnbooks.com](mailto:unpublications@nbnbooks.com). Other distributors of United Nations Publications include:

(i) Bernan, 15200 NBN Way, Blue Ridge Summit, PA 17214; telephone: 1–800–865–3457; fax: 1–800–865–3450; email: [customercare@bernan.com](mailto:customercare@bernan.com); Web site: <http://www.bernan.com>; and

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(ii) Renouf Publishing Co. Ltd., 812 Proctor Avenue, Ogdensburg, NY 13669-2205; telephone: 1-888-551-7470; Fax: 1-888-551-7471; email: [orders@renoufbooks.com](mailto:orders@renoufbooks.com); Web site: <http://www.renoufbooks.com>.

(2) UN ST/SG/AC.10/Rev.4, The UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria, Fourth Revised Edition, 2003, IBR approved for appendix B to [§ 1910.1200](#).

**Credits**

[[39 FR 23502](#), June 27, 1974; [49 FR 5321](#), Feb. 10, 1984; [61 FR 9231](#), March 7, 1996; [64 FR 13908](#), March 23, 1999; [69 FR 18803](#), April 9, 2004; [69 FR 68717](#), Nov. 24, 2004; [70 FR 8291](#), Feb. 18, 2005; [70 FR 53929](#), Sept. 13, 2005; [72 FR 7190](#), Feb. 14, 2007; [72 FR 71068](#), Dec. 14, 2007; [73 FR 13754](#), March 14, 2008; [74 FR 40447](#), Aug. 11, 2009; [74 FR 46355](#), Sept. 9, 2009; [74 FR 57883](#), Nov. 10, 2009; [76 FR 33606](#), June 8, 2011; [76 FR 75786](#), Dec. 5, 2011; [77 FR 13969](#), March 8, 2012; [77 FR 17764](#), March 26, 2012; [77 FR 37598](#), June 22, 2012; [77 FR 62433](#), Oct. 15, 2012; [77 FR 68684](#), Nov. 16, 2012; [78 FR 35565](#), June 13, 2013; [78 FR 66641](#), Nov. 6, 2013; [78 FR 66642](#), Nov. 6, 2013; [81 FR 16090](#), March 25, 2016; [81 FR 82981](#), Nov. 18, 2016; [84 FR 21457](#), May 14, 2019]

SOURCE: [39 FR 23502](#), June 27, 1974; [53 FR 12120](#), April 12, 1988; [58 FR 35308](#), June 30, 1993; [61 FR 9230](#), March 7, 1996; [62 FR 29668](#), June 2, 1997; [64 FR 13908](#), March 23, 1999; [65 FR 46818](#), July 31, 2000; [69 FR 68716](#), Nov. 24, 2004; [70 FR 8291](#), Feb. 18, 2005; [70 FR 53929](#), Sept. 13, 2005; [71 FR 38086](#), July 5, 2006; [72 FR 7190](#), Feb. 14, 2007; [72 FR 40074](#), July 23, 2007; [72 FR 71068](#), Dec. 14, 2007; [73 FR 13754](#), March 14, 2008; [73 FR 75583](#), Dec. 12, 2008; [74 FR 40447](#), Aug. 11, 2009; [74 FR 46355](#), Sept. 9, 2009; [75 FR 12685](#), March 17, 2010; [76 FR 10515](#), Feb. 25, 2011; [77 FR 17764](#), March 26, 2012; [77 FR 37598](#), June 22, 2012; [77 FR 68684](#), Nov. 16, 2012; [79 FR 21848](#), April 18, 2014; [82 FR 31253](#), July 6, 2017, unless otherwise noted.

AUTHORITY: [29 U.S.C. 653](#), [655](#), [657](#); Secretary of Labor's Order Numbers 12-71 ([36 FR 8754](#)), 8-76 ([41 FR 25059](#)), 9-83 ([48 FR 35736](#)), 1-90 ([55 FR 9033](#)), 6-96 ([62 FR 111](#)), 3-2000 ([65 FR 50017](#)), 5-2002 ([67 FR 65008](#)), 5-2007 ([72 FR 31159](#)), 4-2010 ([75 FR 55355](#)), or 1-2012 ([77 FR 3912](#)), as applicable.; Sections 1910.6, 1910.7, 1910.8 and 1910.9 also issued under 29 CFR 1911. Section 1910.7(f) also issued under [31 U.S.C. 9701](#); [29 U.S.C. 9a](#); [5 U.S.C. 553](#); Public Law 106-113 (113 Stat. 1501A-222); Public Law 11-8 and 111-317; and OMB Circular A-25 (dated July 8, 1993) ([58 FR 38142](#), July 15, 1993).

**Notes of Decisions (1)**

Current through Nov. 30, 2022, 87 FR 73506. Some sections may be more current. See credits for details.

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**§ 658. Citations, 29 USCA § 658**

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KeyCite Yellow Flag - Negative Treatment

Proposed Legislation

United States Code Annotated

Title 29. Labor

Chapter 15. Occupational Safety and Health (Refs &amp; Annos)

29 U.S.C.A. § 658

§ 658. Citations

[Currentness](#)**(a) Authority to issue; grounds; contents; notice in lieu of citation for de minimis violations**

If, upon inspection or investigation, the Secretary or his authorized representative believes that an employer has violated a requirement of [section 654](#) of this title, of any standard, rule or order promulgated pursuant to [section 655](#) of this title, or of any regulations prescribed pursuant to this chapter, he shall with reasonable promptness issue a citation to the employer. Each citation shall be in writing and shall describe with particularity the nature of the violation, including a reference to the provision of the chapter, standard, rule, regulation, or order alleged to have been violated. In addition, the citation shall fix a reasonable time for the abatement of the violation. The Secretary may prescribe procedures for the issuance of a notice in lieu of a citation with respect to de minimis violations which have no direct or immediate relationship to safety or health.

**(b) Posting**

Each citation issued under this section, or a copy or copies thereof, shall be prominently posted, as prescribed in regulations issued by the Secretary, at or near each place a violation referred to in the citation occurred.

**(c) Time for issuance**

No citation may be issued under this section after the expiration of six months following the occurrence of any violation.

**CREDIT(S)**

([Pub.L. 91-596](#), § 9, Dec. 29, 1970, 84 Stat. 1601.)

[Notes of Decisions \(66\)](#)

29 U.S.C.A. § 658, 29 USCA § 658

Current through P.L. 117-214. Some statute sections may be more current, see credits for details.

Fla. Admin. Code R. 69A-3.012 (2005)

!'#\$%&'()\*+,-./0/1\*23,45\*6-.72.-8\*9705\*:02,5;72.\*#112;7-,72.\*-./\*<,450\*+,-./-0/1\*# /2=,5/!&
!'# %&'()\*+,\$,)( '-.-'+//0\$ 1 23.-.(3\$40\$, \*+\*5\*(26\$ 40\$\*7(\$ 8\*+\*(9-6(\$ : +6,7+/,;65/(\$, \$7(\$9/26-3+9-6(\$>6(?(@\*-2@ \$A23(\$B\*7
%3\*-2@ \$!CDCD#E\$ F7-'7\$-, \$' 2 1 )6-, (3\$2.\$\*7(\$9/26-3+), ) ('-.-'(\$3\*-2@ \$2.\$G9>H\$ "D"\$\*7(\$ I-.( \$8+.( \*O\$ A23(' !CD" J\$ (3\*-2@ # \$+@3\$\*7(\$
9/26-3+), ) ('-.-'(\$3\*-2@ \$2.\$G9>H\$ " \$\*7(\$9-6(\$ A23(\$ !CD" J\$ (3\*-2@ # \$+6(\$ 7(6(40\$+32)\*(\$3\$+@3\$-@' 26)26+\*(3\$ 40\$ 6(. (6(@' (\$+@3\$+6(\$
+))/-'+4/(\$2\$\*72, (\$45-/3-@K\$, \$+@3\$, \*65 '\*56(\$, \$, ) ('-.-'(\$3-\$@) +6+K6+ )7, \$ !+ # \$+@3\$ !4# \$2.\$, 54, ('\*-2@ \$ !"# \$2.\$ 8 ('\*-2@ \$ LMMNCDL\$ 9N8\$ 0@ \$
+33\*-2@ \$\*7(\$2//2F-@K\$, \$+@3+63, \$ (&'()\*+,\$, \$, ) ('-.-'+//0\$ 1 23.-.(3\$40\$, \*+\*5\*(26\$ 40\$\*7(\$65/(\$ '7+)\*(\$6,-@65/(\$P-?-,-2@ \$LQH\$+6(\$7(6(40\$+32)\*(\$3\$+@3\$
-@' 26)26+\*(3\$40\$6(. (6(@' (\$+@3\$, 7+//\$\*R(\$.. ('\*2@ \$\*7(\$.. ('\*-?(\$3+\*(\$2.\$\*7-, 65/(\$+,\$+)\$+6\*\$2.\$\*7(\$5@-.26 1 \$.-6(\$,+ (\*O\$, \*+@3+63, \$+32)\*(\$3\$
40\$65/(\$40\$\*7(\$8\*+\*(9-6(\$ : +6,7+/\$+@3\$+6(\$+))/-'+4/(\$2\$\*72, (\$45-/3-@K\$, \$+@3\$, \*65 '\*56(\$, \$, ) ('-.-'(\$3-\$@8 ('\*-2@ \$, LMMNCDL!"# !+\$+@3\$!4# \$
9N8\$
!+ # G9>H\$C\$CD" L\$ (3\*-2@ \$T0362K( @ \$U( '7@/2/2K-(, \$A23(N
!4# G9>H\$V\$CD" J\$ (3\*-2@ \$8\*+@3+63\$.26\$0@\*(K6+\*(3\$9-6(\$>62\*( '\*-2@ \$+@3\$ I-.( \$8+.( \*O\$80, \*( 1 \$U(, \*-@K
!'# G9>H\$ "D\$CD" J\$ (3\*-2@ \$8\*+@3+63\$.26\$>26\*+4/(\$9-6(\$%&\*-@K5-, 7(6,N
!3# G9>H\$ " " \$CD" L\$ (3\*-2@ \$8\*+@3+63\$.26\$ I2FW\$ : (3-5 1 W\$+@3\$T-K7W\$%&)+@,-2@ \$92+ 1 N
!(# G9>H\$ "C\$CD" X\$ (3\*-2@ \$8\*+@3+63\$2@ \$A+642@ \$P-2&-3(\$%&\*-@K5-, 7-@K\$80, \*( 1 ,N
!.# G9>H\$ "CH\$CD" X\$ (3\*-2@ \$8\*+@3+63\$2@ \$T+2@ \$ "MD"\$9-6(\$%&\*-@K5-, 7-@K\$80, \*( 1 ,N
!K# G9>H\$ "M\$CD" L\$ (3\*-2@ \$8\*+@3+63\$.26\$\*7(\$0@, \*+//+\*-2@ \$2.\$8)6-@R/(6\$80, \*( 1 ,N
!7# G9>H\$ "MP\$CD" L\$ (3\*-2@ \$8\*+@3+63\$.26\$\*7(\$0@, \*+//+\*-2@ \$2.\$8)6-@R/(6\$80, \*( 1 , \$-@ \$ Y@(\$W\$+@3\$ UF2W\$ 9+ 1 -/O\$ P F (/-@K, \$+@3
: +@5.+ '\*56(3\$T2 1 (, N
!# G9>H\$ "MZ\$CD" L\$ (3\*-2@ \$8\*+@3+63\$.26\$\*7(\$0@, \*+//+\*-2@ \$2.\$8)6-@R/(6\$80, \*( 1 , \$-@ \$ I2FWZ-, (\$Z(, -3(@\*-+/\$Y' '5)+@'-(, N
!# G9>H\$ "V\$CD" L\$ (3\*-2@ \$8\*+@3+63\$.26\$\*7(\$0@, \*+//+\*-2@ \$2.\$8\*+@3- ) (\$+@3\$T2, (\$80, \*( 1 ,N
!R# G9>H\$ "X\$CD" B\$ (3\*-2@ \$8\*+@3+63\$.26\$ \ +\*(6\$8)6+O\$9-&(3\$80, \*( 1 , \$, 26\$9-6(\$>62\*( '\*-2@ N
!# G9>H\$ "L\$CD" X\$ (3\*-2@ \$8\*+@3+63\$.26\$\*7(\$0@, \*+//+\*-2@ \$2.\$92+ 1 W \ +\*(6\$8)6-@R/(6\$+@3\$92+ 1 W \ +\*(6\$8)6+O\$80, \*( 1 ,N
! 1 # G9>H\$ "B\$CD" B\$ (3\*-2@ \$8\*+@3+63\$.26\$ P6O\$A7( 1 -'+/\$%&\*-@K5-, 7-@K\$80, \*( 1 ,N
!@# G9>H\$ "BH\$CD" B\$ (3\*-2@ \$8\*+@3+63\$.26\$ \ (\*\$A7( 1 -'+/\$%&\*-@K5-, 7-@K\$80, \*( 1 ,N
!2# G9>H\$CD\$CD" L\$ (3\*-2@ \$8\*+@3+63\$.26\$\*7(\$0@, \*+//+\*-2@ \$2.\$8\*+\*-2@+60\$>5 1 ), \$.26\$9-6(\$>62\*( '\*-2@ N
!)# G9>H\$CC\$CD" M\$ (3\*-2@ \$8\*+@3+63\$.26\$ \ +\*(6\$U+@R, \$.26\$>6-?\*( \$9-6(\$>62\*( '\*-2@ N
!]# G9>H\$CV\$CD" L\$ (3\*-2@ \$8\*+@3+63\$.26\$\*7(\$0@, \*+//+\*-2@ \$2.\$>6-?\*( \$9-6(\$8(6?-' (\$ : +@, \$+@3\$U7(-6\$H) )56\*( @+@' (, N
!6# G9>H\$CX\$CD" B\$ (3\*-2@ \$8\*+@3+63\$.26\$\*7(\$0@, ) ('\*-2@ \$U(, \*-@K\$+@3\$ : +@\*( @+@' (\$2.\$ \ +\*(6W^+, (3\$9-6(\$>62\*( '\*-2@ \$80, \*( 1 ,N
!,# G9>H\$MD\$CD" J\$ (3\*-2@ \$9/+ 1 1 +4/(\$+@3\$A2 1 45, \*-4/(\$I-]5-3, \$A23(N
!# G9>H\$MDH\$CD" J\$ (3\*-2@ \$A23(\$26\$ : 2\*26\$95/(\$P-, ) (@, -@K\$9+ '-/-'-(\$+@3\$Z( ) +6\$ \_+6+K(, N
!5# G9>H\$MD^\$CD" X\$ (3\*-2@ \$A23(\$26\$\*7(\$ : +@5.+ '\*56(\$+@3\$8\*26+K(\$2.\$H(62, 2/\$>6235 '\*, N
!#?# G9>H\$M" \$CD" L\$ (3\*-2@ \$8\*+@3+63\$.26\$\*7(\$0@, \*+//+\*-2@ \$2.\$Y-W^56@-@K\$]5-) 1 (@\*N
!F# G9>H\$M\$CD" L\$ (3\*-2@ \$8\*+@3+63\$.26\$P60'/(+@-@K\$9+ '-/-'-(, N
!&# G9>H\$MM\$CD" L\$ (3\*-2@ \$8\*+@3+63\$.26\$8)6+O\$H) )/-'+\*-2@ \$ ` , -@K\$9/+ 1 1 +4/(\$26\$A2 1 45, \*-4/(\$ : +\*(6+/, N
!0# G9>H\$MV\$CD" X\$ (3\*-2@ \$8\*+@3+63\$.26\$P-) )-@K\$A2+\*-@K\$+@3\$>6-@-@K\$>62' (, , (\$ ` , -@K\$9/+ 1 1 +4/(\$26\$A2 1 45, \*-4/(\$I-]5-3, N
!a# G9>H\$MX\$CD" L\$ (3\*-2@ \$8\*+@3+63\$.26\$\*7(\$ : +@5.+ '\*56(\$2.\$Y6K+@-' \$A2+\*-@K, N
!+#+#G9>H\$ML\$CD" B\$ (3\*-2@ \$8\*+@3+63\$.26\$82/?(@\*\$%&\*6+' \*-2@ \$>/+@\*, N
!44#G9>H\$MB\$CD" J\$ (3\*-2@ \$8\*+@3+63\$.26\$\*7(\$0@, \*+//+\*-2@ \$+@3\$ ` , (\$2.\$8\*+\*-2@+60\$A2 1 45, \*-2@ \$%K-@ (, \$+@3\$ \_+, \$U564-@ (, N
!' '# G9>H\$VD\$CD" L\$ (3\*-2@ \$8\*+@3+63\$.26\$\*7(\$8\*26+K(\$+@3\$T+@3/-@K\$2.\$A(//5/2, (\$G-\*6+\*(9-/+ 1 N
!33# G9>H\$VX\$CD" X\$ (3\*-2@ \$8\*+@3+63\$2@ \$9-6(\$>62\*( '\*-2@ \$26\$ I+426+\*26-(, \$ ` , -@K\$A7( 1 -'+/, N
!(#G9>H\$X" \$CD" J\$ (3\*-2@ \$8\*+@3+63\$.26\$\*7(\$P(, -K\$+@3\$0@, \*+//+\*-2@ \$2.\$Y&0K(@W95/(\$ \_+, \$80, \*( 1 , \$.26\$ \ (/3-@K\$A5\*\*-@K\$+@3
H/-(3\$>62' (, , (, N
!.#G9>H\$X" ^\$CD" V\$ (3\*-2@ \$8\*+@3+63\$.26\$9-6(\$>6(?(@\*-2@ \$P56-@K\$ \ (/3-@K\$A5\*\*-@K\$+@3\$Y\*7(6\$T2\$ \ 26R\$
!KK#G9>H\$XC\$CD" L\$ (3\*-2@ \$b(7-' 5/+6\$G+\*56+/\$ \_+, \$95/(\$80, \*( 1 , \$A23(N
!77#G9>H\$XV\$CD" J\$ (3\*-2@ \$G+\*-2@+/\$95/(\$ \_+, \$A23(N
!-# G9>H\$XX\$CD" L\$ (3\*-2@ \$A2 1 )6(, , (3\$ \_+, , (\$+@3\$A602K(@-' \$9/5-3, \$A23(N
![[#G9>H\$XL\$CD" B\$ (3\*-2@ \$8\*+@3+63\$.26\$9-6(\$+@3\$%&)/2, -2@ \$>6(?(@\*-2@ \$P56-@K\$A/(+@-@K\$+@3\$>56K-@K\$2.\$9/+ 1 1 +4/(\$ \_+, \$>-) -@K
80, \*( 1 , N
!RR#G9>H\$XJ\$CD" B\$ (3\*-2@ \$I-]5(- (3\$>(\*62/(5 1 \$ \_+, \$A23(N

!/# G9>H\$XQ\$CD"J\$(3\*-2@\\$`\*/-0\$I>W\_+,\$>/+@\*A23(N  
! 1 1# G9>H\$XQH\$CD"L\$(3\*-2@\\$8\*+@3+63\$.26\$\*7(\$>6235 '\*-2@\\$8\*26+K(\$+@3\$T+@3/-@K\$2.\$I-]5(-(\$3G+\*56+/\$\_+,\$!IG\_#N  
!@@#G9>H\$L"CD"BS(3\*-2@\\$8\*+@3+63\$.26\$\*7(\$>6(?(@\*-2@2\$.9-6(,\$+@3\$P5,\$%&)/2,-2@,\$-@HK6-'5/\*56+/\$+@3\$9223}>62'(-, -@K  
9+'-/\*-(,N\$  
!22#G9>H\$LJ\$CD"MS(3\*-2@\\$8\*+@3+63\$2@%&)/2,-2@>62\*('\*-2@40\$P(. /+K6+\*-2@b (@\*-@KN  
!))#G9>H\$LQ\$CD"VS(3\*-2@\\$8\*+@3+63\$2@%&)/2,-2@>6(?(@\*-2@80,\*( 1 ,N  
!]#G9>H\$BD\$CD"BS(3\*-2@\\$G+\*-2@+/\$%/( '\*6-' +/\$A23('!N\$  
!66#G9>H\$BC\$CD"L\$(3\*-2@\\$G+\*-2@+/\$9-6(\$H/+6 1 \$+@3\$8-K@+/-@K\$A23(N\$  
! , #G9>H\$BX\$CD"BS(3\*-2@\\$8\*+@3+63\$.26\$\*7(\$9-6(\$>62\*('\*-2@2\$.S0@.26 1 +\*-2@SU('7@2/2K0\$% ]5-) 1 (@\*N\$  
!##G9>H\$BL\$CD"L\$(3\*-2@\\$8\*+@3+63\$.26\$\*7(\$9-6(\$>62\*('\*-2@2\$.SU(/(' 2 1 15@-' +\*-2@, \$9+' -/\*-(,N\$  
!55#G9>H\$JD\$CD"L\$(3\*-2@\\$8\*+@3+63\$.26\$9-6(\$P226,\$+@3\$Y\*7(6\$Y)(@-@K\$>62\*('\*-?( ,N\$  
!??# G9>H\$JC\$CD"VS(3\*-2@\\$8\*+@3+63\$2@S0@-' -(6+\*26,\$+@3\$ \ +,\*(+@3\$I-@(\$T+@3/-@K\$80,\*( 1 , \$+@3\$% ]5-) 1 (@\*N\$  
!FF#G9>H\$JX\$CD"XS(3\*-2@\\$^2/(6\$+@3\$A2 1 45, \*-2@80,\*( 1 , \$T+a+63,\$A23(N\$  
!&&# G9>H\$JL\$CD"XS(3\*-2@\\$8\*+@3+63\$.26\$Y?(@, \$+@3\$956@+' ( ,N\$  
!00#G9>H\$JH\$CD"XS(3\*-2@\\$8\*+@3+63\$.26\$>+6R-@K\$8\*65 '\*56( ,N\$  
!aa#G9>H\$QDH\$CD"J\$(3\*-2@\\$8\*+@3+63\$.26\$\*7(S0@, \*+//+\*-2@2\$.SH-6WA2@3\*-2@-@K\$+@3\$b (@\*-/\*-@K\$80,\*( 1 ,N\$  
!++#G9>H\$QD^\$CD"J\$(3\*-2@\\$8\*+@3+63\$.26\$\*7(S0@, \*+//+\*-2@2\$. \ +6 1 \$H-6\$T(+\*-@K\$+@3\$H-6WA2@3\*-2@-@K\$80,\*( 1 ,N\$  
!444#G9>H\$Q"\$CD"XS(3\*-2@\\$8\*+@3+63\$.26\$%&7+5,\$\*80,\*( 1 ,\$.26\$H-6\$A2@?(0-@K\$2.\$b+)26,\$\_+,( , \$ : -, \*, \$+@3\$>+6\*'5/\*(\$82/-3,N\$  
!' '# G9>H\$QC\$CD"XS(3\*-2@\\$8\*+@3+63\$.26\$8 1 2R(WA2@\*62/\$80,\*( 1 ,N\$  
!333# G9>H\$QL\$CD"BS(3\*-2@\\$8\*+@3+63\$.26\$b (@\*-/\*-2@A2@\*62/\$+@3\$9-6(\$>62\*('\*-2@2\$.A2 1 1 (6'-+/\$A22R-@K\$Y)(6+\*-2@,N\$  
!((#G9>H\$QQ\$CD"J\$(3\*-2@\\$T(+/\*7\$A+6(\$9+'-/\*-(, \$A23(N\$  
!...#G9>H\$QQ^\$CD"J\$(3\*-2@\\$8\*+@3+63\$.26\$T0)24+6-' \$9+'-/\*-(,N\$  
!KKK#G9>H\$"D"\$CD"J\$(3\*-2@\\$I-.( \$8+.( \*O\$A23('!N\$  
!777#G9>H\$"D"H\$CD"L\$(3\*-2@\\$\_5-3(\$2@H/\*(6@+\*-?( \$H) )62+' 7(, \$\*2\$I-.( \$8+.( \*ON\$  
!--# G9>H\$"DC\$CD"L\$(3\*-2@\\$8\*+@3+63\$.26\$\_6+@3, \*+@3, \$92/3-@K\$+@3\$U(/(, '2)-' \$8(+\*-@K\$U(@\*, \$+@3\$ : ( 1 46+@(\$8\*65 '\*56(,N\$  
![[#G9>H\$"DX\$CD"L\$(3\*-2@\\$8\*+@3+63\$.26\$8 1 2R(\$P226\$H, ,( 1 4/-,( \$+@3\$Y\*7(6\$Y)(@-@K\$>62\*('\*-?( ,N\$  
!RRR#G9>H\$"D\$CD"L\$(3\*-2@\\$8\*+@3+63\$.26\$% 1 (6K(@'O\$+@3\$8\*+@340\$>2F(6\$80,\*( 1 ,N\$  
!//# G9>H\$" "\$CD"L\$(3\*-2@\\$8\*+@3+63\$2@8\*26(3\$%/( '\*6-' +/\$% (6K0\$% 1 (6K(@'O\$+@3\$8\*+@340\$>2F(6\$80,\*( 1 ,N\$  
! 1 1 1# G9>H\$"X\$CD"L\$(3\*-2@\\$8\*+@3+63\$.26\$I+, (6\$9-6(\$>62\*('\*-2@N\$  
!@@#G9>H\$"CD\$CD"XS(3\*-2@\\$8\*+@3+63\$.26\$9-6(\$>6(?(@\*-2@+@3\$A2@\*62/\$-@A2+/\$ : -@ ( ,N\$  
!222# G9>H\$"CC\$CD"XS(3\*-2@\\$8\*+@3+63\$.26\$9-6(\$>6(?(@\*-2@+@3\$ A2@\*62/\$-@ : (\*+/\$G2@ 1 (\*+/\$ : -@-@K\$ +@3\$ : (\*+/\$ : -@ (6+/  
>62'(-, -@K\$9+'-/\*-(,N\$  
!))#G9>H\$"MD\$CD"BS(3\*-2@\\$8\*+@3+63\$.26\$9-&(3\$\_5-3(F+O\$U6+@, -\*\$+@3\$>+,, (@K(6\$Z+/\$80,\*( 1 ,N\$  
!]#G9>H\$"VD\$CD"MS(3\*-2@\\$8\*+@3+63\$ 2@ : 2\*-2@>-\*56(\$ +@3\$ U(/(?,-2@>6235 '\*-2@8\*53-2\$ 825@3,\*+K(,\$ H) )62?(3\$  
>6235 '\*-2@9+'-/\*-(, \$+@3\$>6235 '\*-2@I2'+\*-2@,N\$  
!666#G9>H\$"XD\$CD"L\$(3\*-2@\\$8\*+@3+63\$2@9-6(\$+@3\$I-.( \$8+.( \*O\$-@H@- 1 +/\$T25, -@K\$9+'-/\*-(,N\$  
! , , #G9>H\$"LD\$CD"L\$(3\*-2@\\$8\*+@3+63\$.26\$\*7(\$` , (\$2.\$9/+ 1 (\$%.. ('\*\$^ (.26(\$+@H\$53-(@' (N\$  
!##G9>H\$"BD\$CD"XS(3\*-2@\\$8\*+@3+63\$.26\$9-6(\$8+.( \*O\$+@3\$% 1 (6K(@'O\$80 1 42/,N\$  
!555#G9>H\$CDV\$CD"XS(3\*-2@\\$8\*+@3+63\$.26\$8 1 2R(\$+@3\$T(+\*\$b (@\*-@KN\$  
!??# G9>H\$C"\$CD"L\$(3\*-2@\\$8\*+@3+63\$.26\$A7- 1 @ (0, \$9-6( )/+' ( , \$b (@\*, \$+@3\$82/-3\$95(W^56@-@K\$H) )/+' ( ,N\$  
!F F F#G9>H\$CC"\$CD"J\$(3\*-2@\\$8\*+@3+63\$.26\$T-K7\$A7+//(@K(\$9-6(\$ \ +//, \$9-6(\$ \ +//, \$+@3\$9-6(\$^+66-(6\$ \ +//,N\$  
!&&&# G9>H\$CMC\$CD"BS(3\*-2@\\$8\*+@3+63\$.26\$\*7(\$>62\*('\*-2@2\$.SZ(' 263,N\$  
!000#G9>H\$CV"\$CD"MS(3\*-2@\\$8\*+@3+63\$.26\$8+.( K5+63-@K\$A2@\*65 '\*-2@H/\*(6+\*-2@+@3\$P( 1 2/\*-2@Y)(6+\*-2@,N\$  
!aaa#G9>H\$CX"\$CDLL(3\*-2@\\$8\*+@3+63\$ : (\*723,\$2.\$U( , \$2.\$9-6(\$Z(-, \*+@' (\$2.\$^5/-3-@K\$A2@\*65 '\*-2@+@3\$ : +\*(6+/,N\$  
!+++#G9>H\$XCX\$CD"BS(3\*-2@\\$8\*+@3+63\$ : (\*723,\$2.\$9-6(\$U( , \$2.\$P226\$H, ,( 1 4/-,( ,N\$  
!444#G9>H\$XCM\$CD"XS(3\*-2@\\$8\*+@3+63\$ : (\*723\$2.\$U( , \$2.\$A6-\*'+/\$Z+3+@\*\$9/5&\$2.\$9/226\$A2?(6-@K\$80,\*( 1 , \$` , -@K\$+Z+3+@\*  
T(+\*\$% (6K0\$8256' (N\$  
!' '# G9>H\$CXB\$CD"BS(3\*-2@\\$8\*+@3+63\$2@9-6(\$U( , \$2.6\$ \ -@32F\$+@3\$\_+/ , , \$^/2'R\$H, ,( 1 4/-,( ,N\$  
!3333# G9>H\$CXQ\$CD"MS(3\*-2@\\$8\*+@3+63\$U( , \$ : (\*723\$.26\$>2\*(@\*+/\$T(+\*\$2.\$^5/-3-@K\$ : +\*(6+/,N\$

!(((#G9>H\$CLD\$CD"MS(3\*-2@8\*+@3+63\$ : (\*723,\$2.\$U(,\*,\$+@3\$A/+,-.'+\*-2@80,\*(1\$.26\$A-K+6(\*\*\$0K@\*-2@Z(-,\*,\*+@\$2.\$A21)2@(@,\$2.\$` )72/,\*(6(3\$956@\*56(N\$  
!...#G9>H\$CL"CD"MS(3\*-2@8\*+@3+63\$ : (\*723\$2.\$U(,\*\$.26\$P(\*61-@-@K\$Z(-,\*,\*+@\$2.\$ : 2'RW` )\$` )72/,\*(6(3\$956@\*56(N\$ : +\*(6+/\$H,,(14/-(,\$2\$0K@\*-2@40\$812/3(6-@K\$A-K+6(\*\*,(N\$  
!KKKK#G9>H\$CLX\$CD"XS(3\*-2@8\*+@3+63\$ : (\*723,\$2.\$9-6(\$U(,\*,\$.26\$%?+/5+\*-@K\$Z221\$9-6(\$\_62F\*7\$A2@\*6-45\*-2@2.\$U(&\*-/(\$26\$%&)+@3(3\$b-@0/\$ \ +/\$A2?(6-@K,\$2@95/\$T(-K7\*\$>+@(/,\$+@3\$ \ +/\$,N\$  
!7777#G9>H\$CJL\$CD"XS(3\*-2@8\*+@3+63\$ : (\*723,\$2.\$9-6(\$U(,\*\$.26\$%?+/5+\*-@K\$A2@\*6-45\*-2@2.\$ \ +/\$+@3\$A(-/@K\$0@\*(6-26\$9-@-,7\$ \*2\$Z221\$9-6(\$\_62F\*7\$N\$  
!----#G9>H\$CJ\$CD"BS(3\*-2@8\*+@3+63\$ : (\*723,\$2.\$9-6(\$U(,\*,\$2.\$T26-a2@\*+/\$9-6(\$P226\$H,,(14/-(,\$0@,\*+/(3\$-@T26-a2@\*+/\$9-6(\$Z(-,\*,\*+@'(WZ+\*(3\$H,,(14/-(,N\$  
![[[##G9>H\$CJQ\$CD"MS(3\*-2@8\*+@3+63\$ : (\*723\$2.\$9-6(\$U(,\*\$.26\$0@3-?-35+/\$95(/\$>+'R+K(,N\$  
!RRRR#G9>H\$MD"CD"JS(3\*-2@A23(\$26\$8+.(0\$\*2\$I-.(.621\$9-6(\$2@2\$ : (6'7+@\*\$b(,(/,N\$  
!///#G9>H\$MDC\$CD"XS(3\*-2@9-6(\$>62\*( '\*-2@8\*+@3+63\$.26\$>/(+,56(\$+@3\$A211(6'-+/\$ : 2\*26\$A6+.\*N\$  
!1111#G9>H\$MDM\$CD"LS(3\*-2@9-6(\$>62\*( '\*-2@8\*+@3+63,\$.26\$ : +6-@+,\$+@3\$^2+\*0+63,N\$  
!@@@##G9>H\$MDB\$CD"LS(3\*-2@8\*+@3+63\$.26\$7(\$A2@,\*5 '\*-2@5+@3\$9-6(\$>62\*( '\*-2@2.\$ : +6-@(\$U(61-@+/,<\$>-(6,\$+@3\$ \ 7+6?(,N\$  
!2222#G9>H\$MC\$CD"LS(3\*-2@8\*+@3+63\$.26\$9-6(\$>62\*( '\*-2@2.\$b(,(/,\$P56-@K\$A2@,\*65 '\*-2@A2@?(6,-2@<\$Z()+6\$+@3\$I+0W` )N\$  
!)))#G9>H\$MJ\$CD"JS(3\*-2@8\*+@3+63\$.26\$7(\$>62\*( '\*-2@2.\$8(1- '2@35 '\*26\$9+46-' +\*-2@9+ '-/-(,N\$  
!]]]]#G9>H\$MCL\$CD"XS(3\*-2@8\*+@3+63\$.26\$7(\$8+.(K5+63-@K\$2.\$U+@R,\$+@3\$A2@\*+@ (6,\$.26\$%@\*60\$A/(@+@K\$26\$Z()+6N\$  
!6666#G9>H\$MJX\$CD"BS(3\*-2@8\*+@3+63\$.26\$U+@R\$b(7-'/(,\$.26\$9/+11+4/(\$+@3\$A2145,\*-4/(\$I-]5-3,N\$  
!,,,#G9>H\$VDD\$CD"LS(3\*-2@T+a+6325,\$ : +\*(6+/,A23(N\$  
!\*\*\*#G9>H\$VDM\$CD"JS(3\*-2@8\*+@3+63\$.26\$H-6'6+.\*Z(,'5(\$+@3\$9-6(W9-K7\*-@K\$8(6?-'(\$+\*\$H-6)26\*,N\$  
!5555#G9>H\$VDB\$CD"BS(3\*-2@8\*+@3+63\$.26\$H-6'6+.\*\$95(/8(6?-'-@KN\$  
!???#G9>H\$VDJ\$CD"BS(3\*-2@8\*+@3+63\$.26\$H-6'6+.\*\$T+@3\$>26\*+4/(\$9-6(\$%&\*-@K5-,7(6,N\$  
!FFF#G9>H\$VDQ\$CD"LS(3\*-2@8\*+@3+63\$2@H-6'6+.\*\$T+@K+6,N\$  
!&&&#G9>H\$V"D\$CD"XS(3\*-2@8\*+@3+63\$2@H-6'6+.\*\$ : +@\*(@+@'(N\$  
!0000#G9>H\$V"X\$CD"LS(3\*-2@8\*+@3+63\$2@H-6)26\*\$U(61-@+/\$^5-3-@K,\$95(-/@K\$Z+1)\$P6+@+K(\$+@3\$I2+3-@K\$ \ +/RF+0,N\$  
!aaa#G9>H\$V"J\$CD"LS(3\*-2@8\*+@3+63\$.26\$T(-)26\*,N\$  
!++++#G9>H\$VCM\$CD"LS(3\*-2@8\*+@3+63\$.26\$A2@,\*65 '\*-2@5+@3\$>62\*( '\*-2@2.\$H-6'6+.\*\$%@K-@(\$U(,\$9+ '-/-(,N\$  
!4444#G9>H\$VJV\$CD"XS(3\*-2@8\*+@3+63\$.26\$A2145,\*-4/(\$ : (\*+/,N\$  
!''''#G9>H\$VQX\$CD"MS(3\*-2@8\*+@3+63\$)/2,-?(\$ : +\*(6+/,A23(N\$  
!3333#G9>H\$VQJ\$CD"MS(3\*-2@8\*+@3+63\$.26\$8+.((\$T+?(@,\$+@3\$0@\*(6'7+@K(\$I2\*,\$.26\$b(7-'/(,\$U6+@,)26\*-@K\$%&)/2,-?(,N\$  
!(((#G9>H\$XD"CD"BS(3\*-2@8\*+@3+63\$2@2\$ : +@5+ '\*56(3\$T25,-@KN\$  
!....#G9>H\$XD"H\$CD"BS(3\*-2@8\*+@3+63\$.26\$9-6(\$8+.(0\$A6\*(6+\$.26\$ : +@5+ '\*56(3\$T21(\$0@,\*+/@\*-2@,\$8-\*(,\$+@3\$A2115@\*-(,N\$  
!KKKK#G9>H\$XDC\$CD"BS(3\*-2@8\*+@3+63\$.26\$Z2+3\$U5@(/,\$^6-3K(\$+@3\$Y\*7(6\$I-1-\*(3\$H' '(,,\$T-K7F+0,N\$  
!7777#G9>H\$XDX\$CD"MS(3\*-2@9-6(\$8+.(0\$8\*+@3+63\$.26\$>2F(6(3\$0@35,\*6+/\$U65'R,\$0@'/53-@K\$U0)(\$P(-,K@+\*-2@,\$H6(+,\$2.\$` ,(\$A2@?(6,-2@,\$ : +@\*(@+@'( \$+@3\$Y)(6+\*-2@,N\$  
!----#G9>H\$LD"CD"XS(3\*-2@8\*+@3+63\$.26\$8('56-0\$8(6?-'(\$,-@9-6(\$I2,,\$>6?(@\*-2@N\$  
![[[##G9>H\$LXC\$CD"LS(3\*-2@8\*+@3+63\$2@\*7(\$95@3+1(@\*+/,2.\$A2145,\*-4/(\$P5,\*N\$  
!RRRR#G9>H\$LV\$CD"MS(3\*-2@8\*+@3+63\$.26\$7(\$>6?(@\*-2@2.\$9-6(\$+@3\$P5,\*%&)/2,-2@,\$.621\$\*7(\$ : +@5+ '\*56-@K\$>62'(-,-@K\$ +@3\$T+@3/-@K\$2.\$A2145,\*-4/(\$>+6-'5/+\*(\$82/-3,N\$  
!////#G9>H\$LXX\$CD"BS(3\*-2@8\*+@3+63\$.26\$>6?(@\*-2@2.\$85/.56\$9-6(\$+@3\$%&)/2,-2@,N\$  
!1111#G9>H\$LLV\$CD"BS(3\*-2@8\*+@3+63\$.26\$ \*7(\$>6?(@\*-2@2.\$9-6(\$+@3\$%&)/2,-2@,\$-@ \$ \ 223\$ >62'(-,-@K\$ +@3\$ \ 223F26R-@K\$9+ '-/-(,N\$  
!@@@##G9>H\$BD"CD"XS(3\*-2@8\*+@3+63\$ : (\*723,\$2.\$9-6(\$U(,\*\$.26\$9/+1(\$>62)+K+\*-2@2.\$U(&\*-/(\$+@3\$9-/1,N\$  
!2222#G9>H\$BDM\$CD"JS(3\*-2@8\*+@3+63\$.26\$9-6(\$Z(\*+63+@\*WU6(+\*3\$ \ 223\$ +@3\$9-6(WZ(\*+63+@\*\$A2+\*-@K,\$.26\$ ^5-3-@K\$ : +\*(6+/,N\$  
!)))))#G9>H\$BDV\$CD"BS(3\*-2@8\*+@3+63\$80,\*(1\$.26\$\*7(\$03(@\*-.'+\*-2@2.\$\*7(\$T+a+63,\$2.\$ : +\*(6+/,\$.26\$%1(6K(@'0\$Z(,)2@,(N\$  
!]]]]#G9>H\$BCD\$CD"XS(3\*-2@8\*+@3+63\$.26\$7(\$0@,\*+/@\*-2@2.\$A+642@2\$ : 2@2&-3(\$!AY#\$P(\*'-2@5+@3\$ \ +6-@K\$%]5-)1(@\*N\$



!66666#G9>H\$BM"CD"BS(3\*-2@8\*+@3+63\$.26\$7(\$0@,\*//+\*-2@2.\$%/'\*62@-'\$>6(1-,(\$8('56\*0\$80,\*(1,NS  
!,,,,#G9>H\$BXD\$CD"XS(3\*-2@8\*+@3+63\$2@2 \ +\*(6\$ : -,\*\$9-6(\$>62\*('\*-2@80,\*(1,NS  
!\*\*\*\*#G9>H\$BJD\$CD"BS(3\*-2@8\*+@3+63\$.26\$7(\$0@,\*//+\*-2@2.\$I-K7\*=@K\$>62\*('\*-2@80,\*(1,NS  
!55555#G9>H\$JD"CD"V\$(3\*-2@8\*+@3+63\$.26\$9-6(\$>62\*('\*-2@2.26\$9+'-/\*-(\$T+@3/@K\$Z+3-2+'\*?(\$ : +\*(6+/,NS  
!????#G9>H\$JDV\$CD"XS(3\*-2@8\*+@3+63\$.26\$9-6(\$>62\*('\*-2@2.26\$H3?+@'(3\$I-K7\$ \ +\*(6\$Z(+\*26\$%/('\*6-'\$ \_ (@ (6+\*=@K\$>/+@\*,NS  
!FFFFF#G9>H\$JDX\$CD"XS(3\*-2@8\*+@3+63\$.26\$9-6(\$>62\*('\*-2@2.26\$ I-K7\$ \ +\*(6\$ Z(+\*26\$ %/'\*6-'\$ \_ (@ (6+\*=@K\$>/+@\*,NS  
!&&&&&#G9>H\$JCD\$CD"LS(3\*-2@8\*+@3+63\$.26\$9-6(\$>62\*('\*-2@2-\$ \ +,\*(F+\*(6\$U6(+\*1 (@\*\$+@3\$A2//('\*-2@9+'-/\*-(\$,NS  
!00000#G9>H\$QDQ\$CD"BS(3\*-2@8\*+@3+63\$.26\$7(\$>62\*('\*-2@2.\$A5/\$5+/\$Z(,256'(\$>62)(6\*-(,\$d\$ : 5,(5 1,\$I-46+6-(,\$+@3\$>+/'(\$,2.\$  
\ 26,7-)NS  
!aaaaa#G9>H\$Q"V\$CD"XS(3\*-2@8\*+@3+63\$.26\$9-6(\$>62\*('\*-2@2.\$T-,\*26-'\$8\*65'\*56(\$,NS  
!+++++ #G9>H\$""CC\$CD"JS(3\*-2@8\*+@3+63\$.26\$ : 23(/\$Z2'R(\*60\$NS  
!444444#G9>H\$""CM\$QX\$X(3\*-2@8\*+@3+63\$.26\$9-6(F26R,\$P-,)/+0\$NS  
!' ' ' ' '#G9>H\$""CV\$CD"BS(3\*-2@8\*+@3+63\$.26\$7(\$ : +@5.+\*56(\$U6+@,)26\*+\*-2@3\$8\*26+K(\$2.\$9-6(F26R,\$+@3\$>062\*('7@-'\$  
H6\*-'/(,NS  
!333333#G9>H\$""CX\$CD"BS(3\*-2@8\*+@3+63\$.26\$7(\$ : +@5.+\*56(\$2.\$ : 23(/\$Z2'R(\*\$+@3\$T-K7W>2F(6\$Z2'R(\$ : 2\*26,NS  
!(((((\$G9>H\$""CL\$CD"LS(3\*-2@8\*+@3+63\$.26\$7(\$`,\$2.\$>062\*('7@-'\$, \$^(.26(\$+\$>62&-1+\*(H53-(@'(\$NS  
!.....#G9>H\$""CB\$CD"JS(3\*-2@8\*+@3+63\$.26\$T-K7\$>2F(6\$Z2'R(\*60\$NS  
!KKKKK#G9>H\$""V"\$CD"BS(3\*-2@8\*+@3+63\$.26\$9-6(\$>62\*('\*-2@2@.6+,\*65'\*56(\$26\$I+@3\$P(?/2)1 (@\*\$-@ \$ \ -/3+@3\$Z56+/\$+@3\$  
854564+@H6(+,NS  
!777777#G9>H\$""VC\$CD"BS(3\*-2@8\*+@3+63\$2@2 \ +\*(6\$85)))-/(\$,26\$854564+@3+@3\$Z56+/\$9-6(\$9-K7\*=@K\$NS  
!-----#G9>H\$""VV\$CD"JS(3\*-2@8\*+@3+63\$.26\$Z(35'-@K\$8\*65'\*56(\$0K@\*-2@2\$T+a+63,\$.62 1\$ \ -/3+@3\$9-6(\$NS  
![[[[[ #G9>H\$""QC\$CD"JS(3\*-2@8\*+@3+63\$2@2Z('6(+\*-2@+/\$b(7-'/(,NS  
!RRRRR#G9>H\$""QV\$CD"JS(3\*-2@8\*+@3+63\$.26\$Z('6(+\*-2@+/\$b(7-'/(\$>+6R,\$+@3\$A+1)K625@3,NS  
!///// #G9>H\$""CC"\$CD"LS(3\*-2@8\*+@3+63\$.26\$7(\$0@,\*//+\*-2@2 \$ : +@\*(+@('(\$+@3\$`,\$2.\$%1(6K(@'0\$8(6?-'(\$,A2 1 1 5@-'\*+\*2@,\$  
80,\*(1,NS  
!1 1 1 1 1 1 #G9>H\$""BMD\$CD"LS(3\*-2@8\*+@3+63\$2@2 \$Y6K+@-a\*+\*2@+@3\$P( )/20 1 (@\*\$2.\$9-6(\$>6(?(@\*-2@2@,)( '\*-2@+@3\$A23(\$  
% @.26' (1 (@\*\$>/+@3\$Z(?-(F\$0@?(\$,\*K+\*-2@3\$>54/-'5%35'+\*-2@\$Y)(6+\*-2@,NS  
!@@@ #G9>H\$""QD"\$CD"LS(3\*-2@8\*+@3+63\$.26\$H5\*2 1 2\*?(\$9-6(\$H)))+6+\*5,NS  
!222222#G9>H\$""QDL\$CD"LS(3\*-2@8\*+@3+63\$.26\$ \ -/3+@3\$9-6(\$H)))+6+\*5,NS  
!)))))#G9>H\$""QXC\$CD"MS(3\*-2@8\*+@3+63\$2@2 \$ : +6-@(\$9-6(W9-K7\*=@K\$b(,(/,NS  
!] ] ] ] ] #G9>H\$""QLM\$CD"V\$(3\*-2@8\*+@3+63\$.26\$9-6(\$T2,(\$A2@@('\*-2@,NS  
!666666#G9>H\$CDD"\$CD"XS(3\*-2@8\*+@3+63\$2@2@A/(+@SHK(@\*\$9-6(\$%&\*-@K5-,7-@K\$80,\*(1,NS  
!,,,,#G9>H\$CD"D\$CD"XS(3\*-2@8\*+@3+63\$.26\$9-6(\$3\$H(62,2/\$9-6(W%&\*-@K5-,7-@K\$80,\*(1,NS  
!\*\*\*\*#G9>H\$C"M\$CD"XS(3\*-2@8\*+@3+63\$2@2\$8/( '\*-2@A+6(\$`,\$+@3\$ : +@\*(+@'(\$2.\$9/+1 (WZ(-,\*+\*\$ \_+6 1 (@\*\$,26\$>62\*('\*-2@2@  
2.\$0@35,\*6+/\$>(6,2@@(/\$HK+@,\*\$8726\*WP56+\*-2@SU7(6 1 +/\$%&)2,56(\$,62 1 \$9-6(\$NS  
!C# H/\$45-/3-@K,\$\*65'\*56(\$,\$+4/-,7 1 (@\*\$,\$+/-/\*-(\$,\$[5-) 1 (@\*\$26\$?(7-'5/+6\$[5-) 1 (@\*\$2?(6\$F7-'7\$7(\$8\*+\*(\$9-6(\$ : +6,7+/\$7+,  
[56-,3-'\*2@F7-'7\$+6(\$'2@,\*65'\*(3\$6(@2?+\*(3\$ (&)+@3(3\$6(7+4-/\*+\*(3\$26\$-@+@0\$2\*7(6\$F+0\$,-K@-.-+@\*/0\$+/\*(6(3\$2@2 26\$+.\*6\$7(\$  
(..(\*?(\$3+\*(\$2.\$7(\$+32)\*-2@2.\$\*7(\$'23(\$,+@3\$,\$+@3+63,\$+32)\*(3\$-@,\$54,('\*-2@!)"#+\$42?(\$,\$7+/\$'2@.26 1 \$2\$\*7(\$6([5-6(1 (@\*\$,2.\$\*7(\$  
'23(\$,\$+@3+63,\$6('2 1 1 (@3(3\$)6+'\*-'(\$,\$+@3\$ 1 +@5+,\$'2@\*+@(\$3\*7(6(-@5@/(\$,\$\*7(\$,\$\*65'\*56(\$,\$+4/-,7 1 (@\*\$26\$.+/-/\*0\$7+,\$4((@\$  
(&(1)\*(3\$.62 1 \$'2 1 )/0-@K\$4'+5,(\$\*7(\$45-/3-@K\$,\$\*65'\*56(\$,\$+4/-,7 1 (@\*\$.\$+/-/\*0\$[5-) 1 (@\*\$26\$?(7-'5/+6\$[5-) 1 (@\*\$7+,\$4((@\$  
K6+@3\$+@(\$&(1)\*-2@.62 1 \$'2 1 )/+@'(\$40\$+\*\$2.\$\*7(\$I(K,-/+\*56(\$NS  
!M# H/\$45-/3-@K,\$\*65'\*56(\$,\$+4/-,7 1 (@\*\$,\$+/-/\*-(\$,\$[5-) 1 (@\*\$26\$?(7-'5/+6\$[5-) 1 (@\*\$2?(6\$F7-'7\$7(\$8\*+\*(\$9-6(\$ : +6,7+/\$7+,  
[56-,3-'\*2@F7-'7\$+6(\$-@(\$&,\*(@'(\$2@26\$+\*(6\$7(\$(..(\*?(\$3+\*(\$2.\$\*7(\$+32)\*-2@2.\$\*7(\$'23(\$,+@3\$,\$+@3+63,\$+32)\*(3\$-@,\$54,('\*-2@!)"#  
+42?(\$,\$7+/\$'2@.26 1 \$2\$\*7(\$6([5-6(1 (@\*\$,2.\$\*72,(\$'23(\$,+@3\$,\$+@3+63,\$F\*7-@+\$6(+,2@+4/(\$)(6-23\$2.\*-1 (N\$0\$-,\$5@3(6,\*223\$7+\*\$7(\$  
'266('\*-2@2.\$,2 1 (\$-.6(\$,+(\$0\$?-/2+\*-2@,\$F-/\$@('(-,\*+\*\$\*7(\$ (1)/20 1 (@\*\$2.\$3(-,K@)\$62.(,-2@+/\$,F7-/(2\*7(6\$?2/+\*2@,\$'+@4(\$  
(&)(3\*-25,/0\$6(,2/?(3\$= \ -\*7-@+\$6(+,2@+4/(\$\*-1 (E\$-\$3(-@(\$3+,\$\*7(\$+ 1 25@\*\$2.\$\*1 (\$-\$F25/3\$@26 1 +/0\$\*+R(\$2\$'266('\*\$+,\$)'--'\$.-6(\$  
'23(\$?2+\*-2@5@3(6\$7(\$+,\$5 1)\*-2@7+\*\$\*7(\$)62)(6\$0\$2F@(\$F25/3\$4(K-@\*\$2\$'266('\*\$,+3\$?2/+\*2@,\$5)2@2\$6'(-)\*\$2.\$+@2.-'--+/\$  
32'5 1 (@\*\$,62 1 \$\*7(\$@.26'-@K\$+K(@'0\$NS

!V#1+#U7(\$G9>H\$, \*+@3+63,\$6(. (6(@ ' (3\$-@\$,54, ('\*-2@#!"#+6(\$'2)06-K7\*(3\$ 1 +\*(6-+/, \$\*7+\*\$' +@2\*\$4(\$'2)-(3\$45\$ 1 +0\$4(\$\$  
"N Y4\*+-(3\$ 40\$ '2@\*+ '\*-@K\$ 7(\$G9>H\$ +\*\$ "\$ ^+\*(60 1 +6'7\$ >+6R\$ e5-'0\$ : +, +, '75, (\*\*, \$DC" LQWBVB" f\$ >72@(\$ " !JDD#MVVWXXXXF  
\ (4, -\*( \$F F F N @ . ) +N26K N \$ 26\$  
CN H ' ' ( , (3\$-@\$+\$6(+3W2@/0\$@2@W)6-@\*+4/( \$ @2@W32F@/2+3+4/(\$ .26 1 +\*\$+\*\$7(\$G9>H; , \$F(4, -\*( \$+\*\$7\*\* ) , Scc F F F N @ . ) +N26KcA23( , W+@3W  
8\*+@3+63, cH/WA23( , W+@3W8\*+@3+63, c96( (W+ ' ' ( , , \$  
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*Rulemaking Authority 633.104(1), 633.202, 633.206, 633.222 FS. Law Implemented 633.104(1), 633.202, 633.206, 633.222, 791.012 FS. History—  
New 5-14-86, Amended 2-12-87, 4-8-90, 10-30-91, 4-3-95, 11-27-01, Formerly 4A-3.012, Amended 8-7-05, 5-18-08, 12-31-08, 12-13-09, 12-31-  
11, 12-31-14, 12-31-17, 12-31-20.*

## 2005 Florida Statutes

<p><u>Title XXXVII</u> INSURANCE</p>	<p><u>Chapter 633</u> FIRE PREVENTION AND CONTROL</p> <p><u>Entire Chapter</u></p>	<p><b>SECTION 022</b> <b>Uniform firesafety standards.</b></p>
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**633.022 Uniform firesafety standards.**--The Legislature hereby determines that to protect the public health, safety, and welfare it is necessary to provide for firesafety standards governing the construction and utilization of certain buildings and structures. The Legislature further determines that certain buildings or structures, due to their specialized use or to the special characteristics of the person utilizing or occupying these buildings or structures, should be subject to firesafety standards reflecting these special needs as may be appropriate.

(1) The department shall establish uniform firesafety standards that apply to:

(a) All new, existing, and proposed state-owned and state-leased buildings.

(b) All new, existing, and proposed hospitals, nursing homes, assisted living facilities, adult family-care homes, correctional facilities, public schools, transient public lodging establishments, public food service establishments, elevators, migrant labor camps, mobile home parks, lodging parks, recreational vehicle parks, recreational camps, residential and nonresidential child care facilities, facilities for the developmentally disabled, motion picture and television special effects productions, and self-service gasoline stations, of which standards the State Fire Marshal is the final administrative interpreting authority.

In the event there is a dispute between the owners of the buildings specified in paragraph (b) and a local authority requiring a more stringent uniform firesafety standard for sprinkler systems, the State Fire Marshal shall be the final administrative interpreting authority and the State Fire Marshal's interpretation regarding the uniform firesafety standards shall be considered final agency action.

(2)(a) With respect to the uniform firesafety standards, the department shall develop uniform statewide standards which are reasonably prudent with respect to protecting life, safety, and property and which take into consideration the characteristics of the people utilizing the subject buildings and structures and other hazards associated with the subject buildings and structures throughout the state.

(b) A local authority may not require more stringent uniform firesafety standards with respect to buildings or structures subject to such standards except as provided in paragraph (c). A local authority may, on a case-by-case basis, in order to meet special situations arising from historic, geographic, or unusual conditions, with respect to a building or structure which is subject to the uniform firesafety standards, authorize equivalent alternative standards for such building or structure; however, the alternative requirements shall not result in a level of protection to life, safety, or property less stringent than the applicable uniform firesafety standards. All such local authorities shall enforce, within their firesafety jurisdiction, the uniform firesafety standards for those buildings specified in paragraph (1)(b) and the minimum firesafety standards adopted pursuant to s. [394.879](#)

(c) A local authority may require more stringent uniform firesafety standards for sprinkler systems in buildings specified in paragraph (b), for which the construction contract is let after January 1, 1994, if the following conditions are met:

**ADD-0033**

1. The local authority has adopted, by ordinance, a fire service facilities and operation plan that outlines goals and objectives for related equipment, personnel, and capital improvement needs of the local authority for the next 5 years.
2. The local authority has adopted, by ordinance, a provision requiring proportionate reductions in, or rebate or waivers of, impact or other fees or assessments levied on buildings that are built or modified in compliance with the more stringent sprinkler standards.
3. The local authority has adopted, by ordinance, a plan that requires buildings specified in paragraph (b) to be equipped with an automatic sprinkler system installed in compliance with the provisions prescribed in standards as established by the National Fire Protection Association and adopted by the State Fire Marshal.

In the event there is a dispute between the owners of the buildings specified in paragraph (b) and a local authority requiring a more stringent uniform firesafety standard for sprinkler systems, the State Fire Marshal shall be the final administrative interpreting authority and the State Fire Marshal's interpretation regarding the uniform firesafety standards shall be considered final agency action.

(3) In establishing the uniform firesafety standards and the minimum firesafety standards, as required by s. [394.879](#), the department shall consider types of construction materials and their flame spread and smoke characteristics, occupancy levels, means of egress, special hazard protection, smoke barriers, interior finish, and fire protection systems or equipment and occupancy features necessary to minimize danger to life from fire, smoke, fumes, or panic. In considering these factors, the department shall develop minimum standards which are reasonably prudent with respect to protecting life, safety, and property.

(4)(a) Notwithstanding any provision of law to the contrary, each nursing home licensed under part II of chapter 400 shall be protected by an approved, supervised automatic sprinkler system in accordance with s. 9 of National Fire Protection Association, Inc., Life Safety Code, in accordance with the following schedule:

1. Each hazardous area of each nursing home shall be protected by an approved, supervised automatic sprinkler system by no later than December 31, 2008.
2. Each entire nursing home shall be protected by an approved, supervised automatic sprinkler system by no later than December 31, 2010.

(b) The division may grant up to two 1-year extensions of the time limits for compliance in subparagraph (a)2. if the division determines that the nursing home has been prevented from complying for reasons beyond its control.

(c) The division is authorized to adopt any rule necessary for the implementation and enforcement of this subsection. The division shall enforce this subsection in accordance with the provisions of this chapter, and any nursing home licensed under part II of chapter 400 that is in violation of this subsection may be subject to administrative sanctions by the division pursuant to this chapter.

(d) Adjustments shall be made to the provider Medicaid rate to allow reimbursement over a 5-year period for Medicaid's portion of the costs incurred to meet the requirements of this subsection. Funding for this adjustment shall come from existing nursing home appropriations.

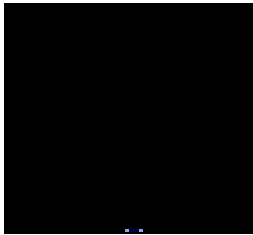
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Disclaimer: The information on this system is unverified. The journals or printed bills of the respective chambers should be consulted for official purposes.

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**RHODE ISLAND  
STATE BUILDING CODE**

**SBC-5 STATE ELECTRICAL CODE**



**Effective August 1, 2008**

Replaces Regulation SBC-5-2005

**STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS**

**Department of Administration  
BUILDING CODE STANDARDS COMMITTEE  
One Capitol Hill  
Providence, Rhode Island 02908-5859  
(401) 222-3033  
FAX NO (401) 222-2599**

**ADD-0036**

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**Regulation SBC-5-2008**  
**August 1, 2008**

The Building Code Standards Committee, in accordance with the rule making authority of Title 23, Chapter 23-27.3, Section 109.1, paragraphs a through c inclusive hereby adopts the provisions of the National Electrical Code, 2008 edition, as published by the National Fire Protection Association, as the Rhode Island State Electrical Code, together with the amendments thereto hereinafter set forth to the chapters and sections of said code:



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State Electrical Code  
**Regulation SBC-5-2008**  
August 1, 2008

**The Building Code Standards Committee, in accordance with the rule making authority of Title 23, Chapter 23-27.3, Section 109.1, paragraphs a through c inclusive, has formally adopted and promulgated as the Rhode Island State Electrical Code, the provisions of the National Electrical Code, 2008 edition, as published by the National Fire Protection Association (NFPA) together with amendments thereto hereinafter set forth to the articles and sections of this code:**

**The provisions of Title 23, Chapter 27.3 of the General Laws of Rhode Island establishing administration and enforcement are hereby incorporated by reference. Regulatory Administration Chapter 1 immediately follows and is supplemental to the General Laws.**

*Editorial Note: Code users please note:*

*When purchasing or using the NEC 2008 code, please take note of the particular printing edition. Errata to that printing edition is available on-line directly at no charge at [www.necdirect.org](http://www.necdirect.org) or the office of the State Building Code Commissioner or call 401-222-3033 for further information.*

*Printed copies of the administrative and enforcement provisions of Title 23, Chapter 27.3 are available at the Office of the State Building Code Commission or on-line at [www.rilim.state.ri.us/statutes/title23/23\\_27.3/index.htm](http://www.rilim.state.ri.us/statutes/title23/23_27.3/index.htm).*

*The National Electrical Code, 2008 Edition, is protected by the copyright that has been issued to NPFA. As a result, the State Electrical Code is not available in complete form to the public in an electronic format. The National Electrical Code 2008 edition that is referred to within is contained in a printed volume and is also in an electronic format that have been published by NPFA under an exclusive license.*

*The Office of the State Building Code Commissioner has purchased volumes of these codes and they shall be distributed to Rhode Island cities and towns during the month of July 2008 so that local officials will have access to the code prior to the implementation of these rules on August 1, 2008.*

*In order to assure public access to this code the Office of the State Building Code Commissioner shall provide a copy of this code to the Rhode Island State Library, which is located on the second floor of the State House. In addition, all codes may be viewed during business hours at the Department of Administration's Library which is located on the fourth floor of the William E. Powers Building, One Capitol Hill, Providence.*

*The Legislative Regulation Committee approved adoption of this code on June 19, 2008.*

*By:*

*John P. Leyden  
Executive Secretary  
Rhode Island Building Code Standards Committee*

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**STATE OF RHODE ISLAND  
BUILDING CODE STANDARDS COMMITTEE**

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Public Member

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Mechanical Engineer

Vacant  
Builder

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Vacant  
Representative for the Disabled

James Fink, PE  
Electrical Engineer

John P. Leyden, CBO  
State Building Commissioner  
Executive Secretary

Donald Gagnon  
Minimum Housing Inspector

Thomas Coffey  
Legal Counsel

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STATE BUILDING CODE REGULATIONS

The following list includes all regulations promulgated by the State Building Code Standards Committee. All regulations are available for a fee at the State Building Commission.

1.	Building Code	SBC-1-2007
2..	One and Two Family Dwelling Code	SBC-2-2007
3.	Plumbing Code	SBC-3-2007
4.	Mechanical Code	SBC-4-2007
5.	Electrical Code	SBC-5-2008
6.	Reserved	
7.	Reserved	
8.	Energy Conservation Code	SBC-8-2008
9	Enforcement and Implementation Procedures for Projects Under the Jurisdiction of The State of Rhode Island	SBC-9-2007
10.	Code Interpretations	SBC-10-2007
11.	Certification of Building Officials, Building, Electrical, Plumbing and Mechanical Inspectors	SBC-11-2002
12.	New Materials and Methods of Construction	SBC-12
13.	State Building Code for Existing Schools	SBC-13
14.	Reserved	
15.	Reserved	
16.	Reserved	
17.	Public Buildings Accessibility Meeting Standards	SBC-17
18.	Native Lumber	SBC-18
19.	Fuel Gas Code	SBC-19-2007

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## GENERAL

Delete all references to IEC and substitute Rhode Island Electrical Code SBC-5-2008.

Delete all reference to any other International Code (IBC, IRC, IMC, etc.) and refer to appropriate SBC regulations. (See Amendment 2701.6 of SBC-1-2007.

NFPA 70-08 may also be referenced as NEC 08 and are one and the same document.

## ARTICLE 90

90.1 Add the following to 90.1.

- E) The installation of all work shall be accomplished by persons licensed by the State of Rhode Island, Department of Labor and Training, Division of Professional Regulation of Electricians, Title 5, Chapter 6, and Telecommunications Chapter 5-70 of the General Laws of the State of Rhode Island.

90.4 Delete 90.4 and substitute the following:

**90.4 Enforcement.** This Code is intended to be suitable for mandatory application by governmental bodies that exercise legal jurisdiction over electrical installations and for use by insurance inspectors. The Committee shall have the responsibility for deciding upon the approval of New Materials and Methods of Construction in accordance with SBC-12. The Commissioner shall have the responsibility to issue official interpretations in accordance with SBC-10. The authority having jurisdiction will have the responsibility for granting special permission contemplated in a number of the rules.

The authority having jurisdiction may waive specific requirements in this Code or permit alternate methods where it is assured that equivalent objectives can be achieved by establishing and maintaining effective safety.

This Code may require new products, constructions, or materials that may not yet be available at the time the Code is adopted. In such event, the authority having jurisdiction may permit the use of the products, constructions, or materials that comply with the most recent previous edition of this Code adopted by the jurisdiction.



90.6 Delete 90.6 and substitute the following:

**90.6 Formal Interpretations.** To promote uniformity of interpretation and application of the provisions of this Code, formal interpretation procedures have been established and are found in the NFPA Regulations Governing Committee Projects.

Formal interpretations issued by the NFPA are advisory in nature and are not binding on the local authority having jurisdiction unless reissued as a formal opinion by the State Building Code Commissioner.

90.10 Add the following new Article 90.10:

**90.10 Other Provisions.** The provisions of Chapter 27 of SBC-1-2007 are herein incorporated by reference and are considered part of this code. See SBC-1-2007 for any future amendments.

110.2 Add the following new paragraph after the FPN:

Except as modified by the authority enforcing this Code, plans, specifications, schedules and calculations in sufficient detail shall be filed with the authority enforcing this Code, showing the location, and capacity of all lighting facilities, and all electrically operated equipment including power circuits required for all electrical service equipment of the building or structure. Details shall include available fault current at each protective device. Details shall include showing all raceways, cables and or circuiting on plans.

Annexes A, B, C, D and F may be used and are included for informational purpose only.

Annex E refers to construction types in NFPA 220 which do not correlate directly with construction types and hourly ratings specified in SBC-1-2007. Refer any questions to the building code authority having jurisdiction.

Annex G is deleted. See the provisions of RIGL 23-27.3-100 et al for administration and enforcement provisions.