

**DEPARTMENT OF LABOR****Occupational Safety and Health Administration**

**29 CFR Parts 1901, 1902, 1910, 1915, 1926, 1928, 1950 and 1951**

**Miscellaneous Minor and Technical Amendments**

**AGENCY:** Occupational Safety and Health Administration, Department of Labor.

**ACTION:** Final rule; corrections and technical amendments.

**SUMMARY:** The Occupational Safety and Health Administration (OSHA) has initiated a comprehensive line-by-line review of its standards published in the Code of Federal Regulations (CFR) as directed by President Clinton in March 1995. From this review, OSHA has identified a number of sections and provisions of these standards for correction and technical amendment. In this document, OSHA is making corrections, deleting redundant provisions, and clarifying and reorganizing various other provisions throughout OSHA's standards in the CFR. This document does not change the substantive requirements of the standards.

**EFFECTIVE DATE:** May 6, 1996. The incorporations by reference of the consensus standards listed in §§ 1926.1002, 1926.1003, and 1928.51 are approved by the Director of the Federal Register as of May 6, 1996.

**FOR FURTHER INFORMATION CONTACT:** Ms. Anne Cyr, Office of Information and Consumer Affairs, OSHA, U.S. Department of Labor, Room N-3647, 200 Constitution Avenue, N.W., Washington, D.C. 20210; telephone: (202) 219-8615.

**SUPPLEMENTARY INFORMATION:****I. Background**

In March 1995, the President directed Federal agencies to undertake a line-by-line review of their regulations to determine where they could be simplified or clarified. OSHA initiated such a review, and as a result completed a document on May 31, 1995, entitled "OSHA's Regulatory Reform Initiatives." That document detailed the Agency's findings as to which regulations could be deleted or revised to improve compliance by employers and, consequently, provide enhanced occupational safety and health protection to employees. This regulatory improvement process involves revocation of outdated and obsolete provisions, consolidation of repetitious

provisions, and clarification of confusing language.

The Agency is beginning this process with this document, by addressing minor clarifications, corrections, and technical amendments to OSHA standards. These do not require notice and comment. A detailed discussion of these actions is provided below under "Summary and Explanation." In addition, the Agency plans to undertake several more regulatory reform initiatives. OSHA is developing a proposal to make substantive changes in various standards to diminish regulatory burdens without reducing worker protections. OSHA also intends to take actions to reduce paperwork and shorten and simplify its standards that are codified in the CFR.

**II. Summary and Explanation****A. Merging the 13 Carcinogen Standards Into Single Standards in 29 CFR Parts 1910, 1915, and 1926**

Thirteen similar standards for carcinogenic chemicals are codified in subpart Z of OSHA's General Industry standards at 29 CFR 1910.1003 through 1016. The regulatory requirements for each are similar, with the few differences based principally on the corrosiveness of the substance, or its physical state at room temperature. Because of their similarities, OSHA has decided to combine the 13 standards into a single rule. Accordingly, OSHA is issuing a technical amendment combining the 13 carcinogenic chemical standards into a single consolidated standard at § 1910.1003, entitled "13 Carcinogens." No substantive revisions have been made to any provisions of the 13 carcinogenic chemical standards. Where requirements vary for different chemicals, paragraphs are being added to § 1910.1003 to include these differing requirements.

The standards for the 13 carcinogenic chemicals found under 29 CFR Parts 1915 and 1926 are being consolidated in the same manner. They will be consolidated under single standards for each of these parts, §§ 1915.1003 and 1926.1103, titled "13 Carcinogens."

**B. Consensus Standards and Organizations and Incorporation by Reference Statements in 29 CFR Part 1910**

Among the provisions being removed from the CFR are the following 12 General Industry sections that list the addresses of consensus organizations: 29 CFR 1910.40, 1910.70, 1910.100, 1910.116, 1910.140, 1910.148, 1910.171, 1910.190, 1910.222, 1910.247, 1910.257, and 1910.275. These addresses are being

consolidated into § 1910.6, titled "Incorporation by Reference." The addresses have been updated and may be used to obtain copies of the original consensus standards that were incorporated into these sections. Consistent with this revision, § 1910.6 is being amended to include a list of the consensus standards incorporated by reference into the CFR, as well as references to the OSHA-related CFR sections developed from each of these incorporated consensus standards.

Copies of the original consensus standards are also available from OSHA area offices.

The following 14 sections of 29 CFR part 1910 contain only identifying information regarding the consensus standards which were originally used as sources for OSHA standards: 29 CFR 1910.31, 1910.39, 1910.69, 1910.99, 1910.115, 1910.139, 1910.150, 1910.153, 1910.170, 1910.189, 1910.221, 1910.246, 1910.256, and 1910.274. Because OSHA has revised and updated many of its standards over the past 25 years, the references to the original sources for these standards are no longer valid. Accordingly, OSHA is deleting these references. The parenthetical note entitled "Source" at the bottom of § 1910.68(e)(3) is being removed as well.

In this document, OSHA is also consolidating all "incorporation by reference" (IBR) statements into § 1910.6. These statements are currently scattered throughout part 1910. The paragraphs affected by this change are: § 1910.133(b) (1) and (2), 1910.135(b) (1) and (2), 1910.136(b) (1) and (2), and § 1910.266 (d)(3)(iv), (e)(2)(i), (f)(3) (ii) through (iv), (f)(4), and (f)(5)(i).

**C. Effective Dates Codified Under 29 CFR Part 1910**

Several OSHA standards published in the CFR provide information regarding the date the standard was to become effective. In general, effective dates are not included or retained as part of the CFR. In addition, the effective dates published in the CFR under these provisions have expired. OSHA therefore is revising or deleting the effective date provisions of the following standards, as appropriate: §§ 1910.17, 1910.66, 1910.114, 1910.145, 1910.157, 1910.158, 1910.182, 1910.216, 1910.217, 1910.261, 1910.265, and 1910.272.

**D. Editorial Corrections to 29 CFR part 1910**

The following miscellaneous editorial corrections are being made to 29 CFR part 1910:

1. Because internal units within a CFR section are to be referred to as

“paragraphs,” the phrase “subdivision (A) of this subdivision” in § 1910.68(c)(7)(ii)(B) is being revised to read “paragraph (c)(7)(ii)(A) of this section,” while the phrase “subparagraph (6)(ii) of this paragraph” in § 1910.94(c)(4)(iii) is being changed to read “paragraph (c)(6)(ii) of this section.”

2. In the first sentence of § 1910.20(c)(13)(i), the word “least” is being changed to “latest.”

3. In § 1910.94, the term “[Reserved]” at the beginning of paragraph (c)(5)(iii) is being removed, and the succeeding designation letter “(A)” is being moved immediately to the right of the “(iii)” at the beginning of the paragraph.

4. The table titled “OSHA Onsite Consultation Project Directory” in Appendix G to § 1910.95 is being deleted. Since this table was first published, numerous revisions have occurred to the entries cited in the directory, making the information in this table obsolete.

5. In two places (Appendix H to § 1910.95 and Appendix D to subpart L of 29 CFR part 1910), an out-of-date telephone number for OSHA’s Technical Data Center, “523-9700,” is being changed to the current number, “219-7500.”

6. In § 1910.120, the comma that runs into the beginning of the word “uncontrolled” near the middle of paragraph (a)(1)(i) is being removed to improve clarity.

7. In paragraphs (d)(2), (d)(4), and (d)(6) of § 1910.145, the paragraph designation “(i)” is being removed because these paragraphs have no subsequent designations.

8. In the listing for OSHA’s Publications Office under Appendix B to § 1910.177, an out-of-date telephone number, “523-9667,” is being changed to the current number “219-4667.”

9. In table O-10 following § 1910.217(f)(4), the fourth entry in the first column that reads “1½ to 5½” is being changed to read “3½ to 5½.”

10. In § 1910.217(g), the title “Director of the Office of Standards Development” is being changed to read “Director of the Directorate of Safety Standards Programs.”

11. In § 1910.440, the phrase “Health, Education and Welfare” in paragraphs (b)(1) and (b)(5)(ii) is being revised to read “Health and Human Services.”

#### *E. Revisions to 29 CFR Part 1926 Standards Incorporated From 29 CFR Part 1910*

Minor corrections and technical amendments also are being made to several 29 CFR part 1926 (Construction Industry) standards that were

incorporated from 29 CFR part 1910 (General Industry) in a previous rulemaking notice (June 30, 1993, 58 FR 35076). This previous action made no substantive changes to the incorporated standards, but the publication of these standards introduced various typographical errors and omissions. In addition, some changes were made to properly reflect the legal history and their adoption under the relevant statutes.

#### *F. Miscellaneous Technical Amendments to 29 CFR Part 1926*

On April 20, 1982 (47 FR 16986), OSHA published a final rule that consolidated standards addressing ship repair, shipbuilding, and shipbreaking, located under 29 CFR parts 1915 through 1917, into 29 CFR part 1915 (“Shipyard employment”). Paragraph (b) of § 1926.30 (“Shipbuilding and ship repairing”), however, still refers to old parts 1916 and 1917. These references are being corrected.

Several changes are being made to § 1926.31 to provide current addresses and cross-references.

#### *G. Revisions to Standards Addressing Roll-Over Protection Structures for Tractors Under 29 CFR Parts 1926 and 1928*

Various provisions of OSHA standards that specify minimum test procedures and performance requirements for manufacturers who design and construct roll-over protective structures (ROPS) and overhead protection attached to tractors used in construction work and agricultural operations are being removed. OSHA is removing these detailed specifications from the CFR because they are design criteria generally not useful to employers. The Agency is replacing them with references to the source consensus standards from which they were developed. The references will be provided in footnotes to the relevant provisions of the OSHA standards. The substantive requirements are unchanged.

This rulemaking involves the following amendments:

1. Paragraphs (c) through (i), and (k) of § 1926.1002 are deleted and replaced with a reference to Society of Automotive Engineers (SAE) consensus standard J334a in paragraph (a)(1) of § 1926.1002.

2. Paragraphs (c) through (g) of § 1926.1003 are deleted and replaced with a reference to SAE J167 in paragraph (a)(1) of § 1926.1003.

3. Sections 1928.52 and 1928.53 and Appendix B to subpart C of 29 CFR part 1928 are deleted and replaced by

references to SAE J168 and J334 and American Society of Agricultural Engineers consensus standards 306.3 and 336.1 in paragraph (b)(1) of § 1928.51.

#### *H. Revisions to the Cadmium Standard Under 29 CFR Part 1928*

The cadmium standard for the Agriculture Industry, § 1928.1027, duplicates the cadmium standard of 29 CFR part 1910. The Agency has determined that publishing the full text of the standard under part 1928 is unnecessary because the requirements of the standard can be found in the General Industry cadmium standard (§ 1910.1027). A cross-reference from the agriculture industry standards to § 1910.1027 is being inserted in place of the full text of the standard. OSHA also is adding paragraph (a)(6) to § 1928.21 specifying that the cadmium standard under part 1910 is applicable to the agriculture industry.

#### *I. Agreements With and Grants to States*

The primary purpose of 29 CFR part 1901 has been to interpret and apply section 18(h) of the Occupational Safety and Health Act of 1970 (the Act). Since the State agreements that were permitted under section 18(h) have been obsolete since 1972, most of part 1901 is no longer necessary. Therefore OSHA is revoking all of part 1901, with the exception of the first sentence of § 1901.2. That sentence interprets the preemption language in section 18(a) of the Act and is relied on by courts in preemption cases. That language is being moved to become the fourth sentence in paragraph (a) of 29 CFR 1902.1.

Part 1950 of title 29 CFR interprets and applies section 23 (a) and (b) of the Act, which authorizes the Secretary of Labor to make grants to the States for certain development and planning purposes with regard to occupational safety and health State plans. As the statutory authority for making these grants to the States expired in 1973, it is being revoked.

Part 1951 of title 29 CFR contains procedures for making grants to the States to assist them in administering and enforcing programs for occupational safety and health contained in State plans. Since financial grant rules and regulations can be found in 29 CFR part 97 and in Office of Management and Budget Circular A-102, part 1951 is redundant and is being revoked.

#### *III. Exemption From Notice and Comment Procedures*

OSHA has determined that this rulemaking is not subject to the

procedures for public notice-and-comment rulemaking specified under section 4 of the Administrative Procedure Act (5 U.S.C. 553) or sec. 6(b) of the Occupational Safety and Health Act of 1970 (29 U.S.C. 655(b)) because this rulemaking does not affect the substantive requirements or coverage of the standards involved. This rulemaking does not modify or revoke existing rights and obligations, and new rights and obligations have not been established. Under this rulemaking, the Agency is merely correcting or clarifying existing regulatory requirements. OSHA therefore finds that public notice-and-comment procedures are unnecessary within the meaning of 5 U.S.C. 553(b)(3)(B) and 29 CFR 1911.5.

#### IV. Clearance of Information Collection Requirement

On August 29, 1995, the Office of Management and Budget (OMB) published a new 5 CFR part 1320 (60 FR 44978), implementing the information collection provisions of the Paperwork Reduction Act of 1995 (PRA 95) (Pub. L. 104-13, May 22, 1995). Part 1320, which became effective on October 1, 1995, sets forth procedures for information collection requirements. The Act changed the previous law in several significant ways. Among other things, it redefined "collection of information" to include third-party and public disclosures.

To be in compliance with PRA 95 by October 1995, the Department of Labor published a document in the Federal Register seeking generic clearances from OMB for a number of existing information collection requests (60 FR 35228, July 6, 1995). This was necessary as third-party disclosure paperwork burden hours were previously deleted from the Information Collection Requests as adjustments resulting from the *Dole, Secretary of Labor et al. v. United Steelworkers of America*, Opinion of the Court 494 U.S. 26, 33 (1990) decision. The 13 carcinogen standards' information collection requests were part of this overall generic clearance.

On September 19, 1995, OMB approved the information collection requirements contained in the 13 carcinogen standards until August 31, 1996. Each of the 13 carcinogen standards currently set out the OMB approval number at the end of the corresponding CFR section. While this final rule combines the 13 carcinogens under a single CFR section (which appears in OSHA's standards as §§ 1910.1003, 1915.1003, and 1926.1103), it does not affect or change the burden of those requirements. The

OMB numbers for the 13 carcinogens standards are unchanged, and being are listed as a group at the end of the combined carcinogens section.

The 13 separate information collection requests will be combined into one information collection request when submitting the package to OMB for approval later this year. This package will be submitted under OMB number 1218-0085.

#### List of Subjects

##### *29 CFR Part 1901*

Intergovernmental relations, Occupational safety and health.

##### *29 CFR Part 1902*

Occupational safety and health, State and local government.

##### *29 CFR Part 1910*

Hazardous materials, Incorporation by reference, Occupational safety and health.

##### *29 CFR Part 1915*

Shipyards, Occupational safety and health, Protective equipment.

##### *29 CFR Part 1926*

Construction industry, Hazardous materials, Incorporation by reference, Occupational safety and health.

##### *29 CFR Part 1928*

Agriculture, Incorporation by reference, Occupational safety and health, Protective equipment.

##### *29 CFR Parts 1950 and 1951*

Grant programs—health, Grant programs—labor, Occupational safety and health, Reporting and recordkeeping requirements.

#### V. Authority

This document was prepared under the direction of Joseph A. Dear, Assistant Secretary of Labor for Occupational Safety and Health, U.S. Department of Labor, 200 Constitution Avenue, N.W., Washington, D.C. 20210.

Signed at Washington, D.C., this 8th day of February, 1996.

Joseph A. Dear,

*Assistant Secretary of Labor.*

Accordingly, pursuant to sections 4, 6, and 8 of the Occupational Safety and Health Act of 1970 (29 U.S.C. 653, 655, 657), sec. 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 333), and Secretary of Labor's Order No. 1-90 (55 FR 9033), title 29 CFR chapter XVII is amended as set forth below.

#### **PART 1901—[REMOVED AND RESERVED]**

1. Part 1901 is removed and reserved.

#### **PART 1902—STATE PLANS FOR THE DEVELOPMENT AND ENFORCEMENT OF STATE STANDARDS**

1. The authority citation for part 1902 continues to read as follows:

Authority: Secs. 8 and 18 of the Occupational Safety and Health Act of 1970, 29 U.S.C. 657 and 667.

2. Paragraph (a) of § 1902.1 is revised to read as follows:

##### **§ 1902.1 Purpose and scope.**

(a) This part applies the provisions of section 18 of the Williams-Steiger Occupational Safety and Health Act of 1970 (hereinafter referred to as the Act) relating to State plans for the development and enforcement of State occupational safety and health standards. The provisions of the part set forth the procedures by which the Assistant Secretary for Occupational Safety and Health (hereinafter referred to as the Assistant Secretary) under a delegation of authority from the Secretary of Labor (Secretary's Order No. 12-71, 36 FR 8754, May 12, 1971) will approve or reject State plans submitted to the Secretary. In the Act, Congress declared it to be its purpose and policy " \* \* \* to assure so far as possible every working man and woman in the Nation safe and healthful working conditions and to preserve our human resources" by, among other actions and programs, " \* \* \* encouraging the State to assume the fullest responsibility for the administration and enforcement of their occupational safety and health laws. Section 18(a) of the Act is read as preventing any State agency or court from asserting jurisdiction under State law over any occupational safety or health issue with respect to which a Federal standard has been issued under section 6 of the Act. However, section 18(b) provides that any State that desires to assume responsibility for the development and enforcement therein of occupational safety and health standards relating to issues covered by corresponding standards promulgated under section 6 of the Act shall submit a plan for doing so to the Assistant Secretary.

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#### **PART 1910—OCCUPATIONAL SAFETY AND HEALTH STANDARDS**

##### **Subpart A—General**

1. The authority citation for subpart A is revised to read as follows:

Authority: Secs. 4, 6 and 8 of the Occupational Safety and Health Act of 1910 (29 U.S.C. 653, 655, 657); Secretary of Labor's Order No. 12-71 (36 FR 8754); 8-76 (41 FR 25059); 9-83 (48 FR 35736), or 1-90 (55 FR 9033), as applicable; 29 CFR part 1911; 5 U.S.C. 553.

2. In § 1910.6, paragraph (a) is redesignated as paragraph (a)(1); paragraph (b) is redesignated as paragraph (a)(3) and revised; paragraph (c) is redesignated as paragraph (a)(2); and new paragraphs (a)(4) and (b) through (w) are added to read as follows:

**§ 1910.6 Incorporation by reference.**

(a) \* \* \*

(3) The materials listed in paragraphs (b) through (w) of this section are incorporated by reference in the corresponding sections noted as they exist on the date of the approval, and a notice of any change in these materials will be published in the Federal Register. These incorporations by reference were approved by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR part 51.

(4) Copies of the following standards that are issued by the respective private standards organizations may be obtained from the issuing organizations. The materials are available for purchase at the corresponding addresses of the private standards organizations noted below. In addition, all are available for inspection at the Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington DC, and through the OSHA Docket Office, room N2625, U.S. Department of Labor, 200 Constitution Ave., Washington, DC 20210, or any of its regional offices.

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

(1) ACGIH Manual "Industrial Ventilation" (1970), incorporation by reference (IBR) approved for § 1910.94(d) (7)(iv) and (8)(i).

(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) The following material is available for purchase from the American National Standards Institute (ANSI), 11 West 42nd St., New York, NY 10036:

(1) ANSI A10.2-44 Safety Code for Building Construction, IBR approved for § 1910.144(a)(1)(ii).

(2) ANSI A10.3-70 Safety Requirements for Explosive-Actuated Fastening Tools, IBR approved for § 1910.243(d)(1)(i).

(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).

(5) ANSI A12.1-67 Safety Requirements for Floor and Wall Openings, Railings, and Toe Boards, IBR approved for §§ 1910.66 Appendix D, (c)(4); 1910.68 (b)(4) and (b)(8)(ii); 1910.261 (a)(3)(ii), (b)(3), (c)(3)(i), (c)(15)(ii), (e)(4), (g)(13), (h)(1), (h)(3)(vi), (j)(4) (ii) and (iv), (j)(5)(i), (k)(6), (k)(13)(i), and (k)(15).

(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 (12); 1910.179(c)(2); 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 §§ 1910.94(b)(5)(i)(a); 1910.215(b)(12); and 1910.218(j)(5).

(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).

(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).

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

(31) ANSI B71.1-68 Safety Specifications for Power Lawn Mowers, IBR approved for § 1910.243(e)(1)(i).

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

(33) ANSI C1-71 National Electrical Code, IBR approved for § 1910.66 Appendix D (c)(22) (i) and (vii).

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

(35) ANSI D8.1-67 Practices for Railroad Highway Grade Crossing Protection, IBR approved for § 1910.265(c)(31)(i).

(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)(1)(v).

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

(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) ANSI Z4.2-42 Standard Specifications for Drinking Fountains, IBR approved for § 1910.142(c)(4).

(49) ANSI Z9.1-51 Safety Code for Ventilation and Operation of Open Surface Tanks, IBR approved for §§ 1910.94(c)(5)(iii)(e) and 1910.261 (a)(3)(xix), (g)(18)(v), and (h)(2)(i).

(50) 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), (c)(7)(iv)(a), (d)(1)(ii), (d)(3), (d)(7)(iv), (d)(8)(i); 1910.261 (a)(3)(xx), (g)(1) (i) and (iii), and (h)(2)(ii).

(51) 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).

(52) 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).

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

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

(55) 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).

(56) 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).

(57) ANSI Z35.1-68 Specifications for Accident Prevention Signs, IBR approved for § 1910.261 (a)(3)(xxiv) and (c)(16).

(58) ANSI Z41.1-67 Men's Safety Toe Footwear, IBR approved for §§ 1910.94(a)(5)(v); 1910.136(b)(2) and 1910.261(i)(4).

(59) ANSI Z41-91, Personal Protection-Protective Footwear, IBR approved for § 1910.136(b)(1).

(60) ANSI Z48.1-54 Method for Marking Portable Compressed Gas Containers to Identify the Material Contained, IBR approved for §§ 1910.103(b)(1)(i)(c); 1910.110(b)(5)(iii); and 1910.253(b)(1)(iii).

(61) ANSI Z48.1-54 (R 70) Method for Marking Portable Compressed Gas Containers To Identify the Material Contained, IBR approved for §§ 1910.111(e)(1) and 1910.134(d)(4).

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

(63) ANSI Z53.1-67 Safety Color Code for Marking Physical Hazards and the Identification of Certain Equipment, IBR approved for §§ 1910.97(a)(3)(ii); 1910.145(d) (2), (4), and (6).

(64) 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).

(65) ANSI Z87.1-68 Practice of Occupational and Educational Eye and Face Protection, IBR approved for §§ 1910.133(b)(2); 1910.252(b)(2)(ii)(I); and 1910.261 (a)(3)(xxv), (d)(1)(ii), (f)(5), (g)(10), (g)(15)(v), (g)(18)(ii), and (i)(4).

(66) ANSI Z87.1-89, Practice for Occupational and Educational Eye and Face Protection, IBR approved for § 1910.133(b)(1).

(67) ANSI Z88.2-69 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) and (iv), and (i)(4).

(68) ANSI Z89.1-69 Safety Requirements for Industrial Head Protection, IBR approved for §§ 1910.135(b)(2); and 1910.261 (a)(3)(xxvii), (b)(2), (g)(15)(v), and (i)(4).

(69) ANSI Z89.1-86, Protective Headwear for Industrial Workers Requirements, IBR approved for § 1910.135(b)(1).

(70) ANSI Z89.2-71 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) API 12A (Sept. 1951) Specification for Oil Storage Tanks With Riveted Shells, 7th Ed., IBR approved for § 1910.106(b)(1)(i)(a)(2).

(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).

(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 (j)(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).

(h) The following material is available for purchase from the American Society for Testing and Materials (ASTM), 1916 Race Street, Philadelphia, PA 19103:

(1) ASTM A 47-68 Malleable Iron Castings, IBR approved for § 1910.111(b)(7)(vi).

(2) ASTM A 53-69 Welded and Seamless Steel Pipe, IBR approved for §§ 1910.110(b)(8)(i) (a) and (b) and 1910.111(b)(7)(iv).

(3) ASTM A 126-66 Gray Iron Casting for Valves, Flanges and Pipe Fitting, IBR approved for § 1910.111(b)(7)(vi).

(4) ASTM A 391-65 (ANSI G61.1-1968) Alloy Steel Chain, IBR approved for § 1910.184(e)(4).

(5) ASTM A 395-68 Ductile Iron for Use at Elevated Temperatures, IBR approved for § 1910.111(b)(7)(vi).

(6) ASTM B 88-69 Seamless Copper Water Tube, IBR approved for § 1910.110(b) (8)(i)(a) and (13)(ii)(b)(1).

(7) ASTM B 88-66A Seamless Copper Water Tube, IBR approved for § 1910.252(d)(1)(i)(A)(2).

(8) ASTM B 117-64 Salt Spray (Fog) Test, IBR approved for § 1910.268(g)(2)(i)(A).

(9) ASTM B 210-68 Aluminum-Alloy Drawn Seamless Tubes, IBR approved for § 1910.110(b)(8)(ii).

(10) ASTM B 241-69, IBR approved for § 1910.110(b)(8)(i) introductory text.

(11) ASTM D 5-65 Test for Penetration by Bituminous Materials, IBR approved for § 1910.106(a)(17).

(12) ASTM D 56-70 Test for Flash Point by Tag Closed Tester, IBR approved for § 1910.106(a)(14)(i).

(13) ASTM D 86-62 Test for Distillation of Petroleum Products, IBR approved for §§ 1910.106(a)(5) and 1910.119(b) "Boiling point."

(14) ASTM D 88-56 Test for Saybolt Viscosity, IBR approved for § 1910.106(a)(37).

(15) ASTM D 93-71 Test for Flash Point by Pensky Martens, IBR approved for § 1910.106(a)(14)(ii).

(16) ASTM D 323-68, IBR approved for § 1910.106(a)(30)

(17) ASTM D 445-65 Test for Viscosity of Transparent and Opaque Liquids, IBR approved for § 1910.106(a)(37).

(18) ASTM D 1692-68 Test for Flammability of Plastic Sheeting and Cellular Plastics, IBR approved for § 1910.103(c)(1)(v)(d).

(19) ASTM D 2161-66 Conversion Tables For SUS, IBR approved for § 1910.106(a)(37).

(i) 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) AWS A3.0 (1969) Terms and Definitions, IBR approved for § 1910.251(c).

(2) AWS A6.1 (1966) Recommended Safe Practices for Gas Shielded Arc Welding, IBR approved for § 1910.254(d)(1).

(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).

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

(1) Commercial Standard, CS 202-56 (1961) "Industrial Lifts and Hinged Loading Ramps," IBR approved for § 1910.30(a)(3).

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

(k) 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 (1966) Acetylene, IBR approved for § 1910.102(a).

(4) CGA G-1.3 (1959) Acetylene Transmission for Chemical Synthesis, IBR approved for § 1910.102(b).

(5) CGA G-1.4 (1966) Standard for Acetylene Cylinder Charging Plants, IBR approved for § 1910.102(b).

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

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

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

(9) 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).

(10) 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).

(11) 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).

(12) 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).

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

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

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

(l) 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].

(m) 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]

(n) 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]

(o) 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).

(2) [Reserved]

(p) 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]

(q) The following material is available for purchase from the National Fire Protection Association (NFPA), Batterymarch Park, Quincy, MA 02269:

(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) (1)(ii), (2), (3) (i) and (iii), and (5).

(4) NFPA 34-1966 Standard for Dip Tanks Containing Flammable or Combustible Liquids, IBR approved for § 1910.94(d)(2)(iv).

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

(6) NFPA 36-1967 Standard for Solvent Extraction Plants, IBR approved for § 1910.106(j)(6)(iii).

(7) 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).

(8) NFPA 51B-1962 Standard for Fire Protection in Use of Cutting and Welding Processes, IBR approved for § 1910.252(a)(1) introductory text.

(9) NFPA 54-1969 Standard for the Installation of Gas Appliances and Gas Piping, IBR approved for § 1910.110(b)(20)(iv)(a).

(10) 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).

(11) 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).

(12) 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).

(13) 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).

(14) NFPA 68-1954 Guide for Explosion Venting, IBR approved for § 1910.94(a)(2)(iii).

(15) NFPA 70-1971 National Electrical Code, IBR approved for § 1910.66 App. D(c)(2).

(16) NFPA 78-1968 Lightning Protection Code, IBR approved for § 1910.109(i)(6)(ii).

(17) NFPA 80-1968 Standard for Fire Doors and Windows, IBR approved for § 1910.106(d)(4)(i).

(18) NFPA 80-1970 Standard for the Installation of Fire Doors and Windows, IBR approved for § 1910.253(f)(6)(i)(I).

(19) 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).

(20) 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).

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

(22) 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).

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

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

(25) 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).

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

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

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

(29) 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).

(30) 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).

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

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

(r) 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]

(s) 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 § 1910.20(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.

(t) 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).

(u) 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).

(v) 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).

(2) [Reserved]

(w) 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).

### Subpart B—Adoption and Extension of Established Federal Standards

3. The authority citation for subpart B is revised to read as follows:

Authority: Secs. 4, 6 and 8 of the Occupational Safety and Health Act, 29 U.S.C. 653, 655, 657; Walsh-Healey Act, 41 U.S.C. 35 et seq; Service Contract Act of 1965, 41 U.S.C. 351 et seq; sec. 107, Contract Work Hours and Safety Standards Act (Construction Safety Act), 40 U.S.C. 333; sec. 41, Longshore and Harbor Workers' Compensation Act, 33 U.S.C. 941; National Foundation of Arts and Humanities Act, 20 U.S.C. 951 et seq.; Secretary of Labor's Order No. 12-71 (36 FR 8754); 8-76 (41 FR 25059), 9-83 (48 FR 35736), or 1-90 (55 FR 9033), as applicable; and 29 CFR part 1911.

#### § 1910.17 [Amended]

4. In § 1910.17, paragraphs (a) and (b) are removed and reserved and in paragraph (c), the phrase "Except as provided in paragraph (b) of this section, except" which appears at the beginning of the paragraph, is removed and the word "Except" is added in its place.

### Subpart C—General Safety and Health Provisions

5. The authority citation for subpart C continues to read as follows:

Authority: Sec. 8 of the Occupational Safety and Health Act, 29 U.S.C. 657; Secretary of Labor's Order No. 9-83 (48 FR 35736); and 29 CFR part 1911.

#### § 1910.20 [Amended]

6. In the first sentence of § 1910.20(c)(13)(i), the word "least" is revised to read "latest" and the phrase "which is incorporated by reference as specified in § 1910.6" is added after the words "Substances (RTECS)".

### Subpart D—Walking-Working Surfaces

7. The authority citation for subpart D is revised to read as follows:

Authority: Secs. 4, 6, and 8 of the Occupational Safety and Health Act of 1970 (29 U.S.C. 653, 655, and 657); Secretary of Labor's Order No. 12-71 (36 FR 8754), 8-76 (41 FR 25059), 9-83 (48 FR 35736), or 1-90 (55 FR 9033), as applicable; and 29 CFR part 1911.

#### § 1910.30 [Amended]

8. In § 1910.30(a)(3), the phrase "which is incorporated by reference as specified in § 1910.6" is added after the words "Department of Commerce" at the end of the paragraph.

#### § 1910.31 [Removed]

9. Section 1910.31 is removed.

#### § 1910.32 [Removed]

10. Section 1910.32 is removed.

### Subpart E—Means of Egress

11. The authority citation for subpart E continues to read as follows:

Authority: Sections 4, 6, and 8 of the Occupational Safety and Health Act of 1970 (29 U.S.C. 653, 655, 657); Secretary of Labor's Order No. 12-71 (36 FR 8754), 8-76 (41 FR 25059), 9-83 (48 FR 35736), or 1-90 (55 FR 9033), as applicable.

#### § 1910.39 [Removed]

12. Section 1910.39 is removed.

#### § 1910.40 [Removed]

13. Section 1910.40 is removed.

### Subpart F—Powered Platforms, Manlifts, and Vehicle-Mounted Work Platforms

14. The authority citation for subpart F is revised to read as follows:

Authority: Secs. 4, 6, and 8 of the Occupational Safety and Health Act of 1970 (29 U.S.C. 653, 655, and 657); Secretary of Labor's Order No. 12-71 (36 FR 8754), 8-76 (41 FR 25059), 9-83 (48 FR 35736), or 1-90 (55 FR 9033), as applicable; and 29 CFR part 1911.

#### § 1910.66 [Amended]

15. Paragraph (k) of § 1910.66 is removed.

#### § 1910.67 [Amended]

16. In the introductory text to § 1910.67(b)(1), at the end of the first sentence, after the words "including appendix," the phrase "which is incorporated by reference as specified in § 1910.6" is added.

17. In the introductory text to § 1910.67(c)(5), after the words "Society (AWS) Standards" the phrase "which are incorporated by reference as specified in § 1910.6," is added.

#### § 1910.68 [Amended]

18. In § 1910.68(b)(3), after the designation "A90.1-1969," the phrase "which is incorporated by reference as specified in § 1910.6" is added.

19. In § 1910.68(b)(4), the following new final sentence is added: "The preceding ANSI standards are incorporated by reference as specified in § 1910.6."

20. In § 1910.68(c)(7)(ii)(b), the phrase "subdivision (a) of the subdivision" is changed to read "paragraph (c)(7)(ii)(a) of this section".

21. The parenthetical note entitled "Source" that appears at the end of the section is removed.

#### § 1910.69 [Removed]

22. Section 1910.69 is removed.



**§ 1910.70 [Removed]**

23. Section 1910.70 is removed.

**Subpart G—Occupational Health and Environmental Controls**

24. The authority citation for subpart G is revised to read as follows:

Authority: Sections 4, 6, and 8 of the Occupational Safety and Health Act of 1970 (29 U.S.C. 653, 655, 657); Secretary of Labor's Order No. 12-71 (36 FR 8754), 8-76 (41 FR 25059), 9-83 (48 FR 35736), or 1-90 (55 FR 9033), as applicable; 29 CFR part 1911.

**§ 1910.94 [Amended]**

25. In § 1910.94(a)(2)(iii), following the designation "(NFPA 91-1961)" that appears near the end of the second sentence, the phrase ", which is incorporated by reference as specified in § 1910.6" is added and the words "Guide, NFPA 68-1954" that appear at the end of the paragraph are revised to read "Guide, NFPA 68-1954, which is incorporated by reference as specified in § 1910.6".

26. At the end of the introductory text to § 1910.94(a)(4)(i), following the designation "ANSI Z33.1-1961," the phrase ", which are incorporated by reference as specified in § 1910.6" is added.

27. In § 1910.94(a)(5)(v)(a), following the designation "Z41.1-1967" that appears at the end of the paragraph, the phrase ", which is incorporated by reference as specified in § 1910.6" is added.

28. In § 1910.94(b)(5)(i)(a), following the designation "B7.1-1970" that appears at the end of the paragraph, the phrase ", which is incorporated by reference as specified in § 1910.6" is added.

29. In § 1910.94(c)(1)(ii), following the designation "NFPA No. 33-1969" that appears at the end of the paragraph, the phrase ", which is incorporated by reference as specified in § 1910.6" is added.

30. In § 1910.94(c)(4)(iii), the phrase "subparagraph (6)(ii) of this paragraph" that appears at the end of the paragraph is changed to read "paragraph (c)(6)(ii) of this section."

31. In § 1910.94(c)(5)(i)(a), the phrase "subdivision (iii) of this subparagraph" is changed to read "paragraph (c)(5)(iii) of this section."

32. In § 1910.94(c)(5)(iii), the bracketed designation "[Reserved]" for the introductory text is removed.

33. In § 1910.94(c)(5)(iii)(e), following the designation "Z9.1-1951" that appears at the end of the first sentence, the phrase ", which is incorporated by reference as specified in § 1910.6" is added.

34. In the first sentence of § 1910.94(c)(6)(ii), the phrase "subdivision (i) of this subparagraph" is revised to read "paragraph (c)(6)(i) of this section."

35. In § 1910.94(c)(6)(iii)(a), following the designation "Z88.2-1969" that appears near the end of the paragraph, the phrase ", which is incorporated by reference as specified in § 1910.6," is added.

36. In § 1910.94(c)(7)(iv)(e), the phrase "paragraph (f) of this subdivision" that appears at the end of the paragraph is revised to read "paragraph (c)(7)(iv)(f) of this section."

37. In § 1910.94(d)(2)(iv), following the words "Fire Protection Association" that appear at the end of the second sentence, the phrase ", which is incorporated by reference as specified in § 1910.6" is added.

38. In § 1910.94(d)(7)(iv), following the words "Governmental Industrial Hygienists 1970" that appear at the end of the first sentence, the phrase ", which is incorporated by reference as specified in § 1910.6" is added.

**§ 1910.95 [Amended]**

39. In § 1910.95(h)(2), following the designation "S3.6-1969" that appears at the end of the paragraph, the phrase ", which is incorporated by reference as specified in § 1910.6," is added.

40. In Appendix G to § 1910.95, under the heading entitled "Where Can Equipment AND Technical Advice be Obtained," the last sentence of the second paragraph is removed.

41. In Appendix G to § 1910.95, the table entitled "OSHA Onsite Consultation Project Directory" is removed.

42. In Appendix H to § 1910.95, the telephone number for OSHA's Technical Data Center that appears near the end of the last paragraph is revised to read "(202) 219-7500".

**§ 1910.97 [Amended]**

43. In § 1910.97(a)(3)(ii), following the designation "Z53.1-1953" that appears near the end of the first sentence, the phrase "which is incorporated by reference as specified in § 1910.6," is added.

**§ 1910.99 [Removed]**

44. Section 1910.99 is removed.

**§ 1910.100 [Removed]**

45. Section 1910.100 is removed.

**Subpart H—Hazardous Materials**

46. The authority citation for subpart H is revised to read as follows:

Authority: Sections 4, 6, and 8 of the Occupational Safety and Health Act of 1970

(29 U.S.C. 653, 655, 657); Secretary of Labor's Order No. 12-71 (36 FR 8754), 8-76 (41 FR 25059), 9-83 (48 FR 35736), or 1-90 (55 FR 9033), as applicable; 29 CFR part 1911.

Sections 1910.103, 1910.106-1910.111, and 1910.119 are also issued under 29 CFR part 1911.

Section 1910.119 is also issued under sec. 304, Clean Air Act Amendments of 1990 (Pub. L. 101-549, Nov. 15, 1990, reprinted at 29 U.S.C. 655 Note (Supp. 1991)).

Section 1910.120 is also issued under sec. 126, Superfund Amendments and Reauthorization Act of 1986 as amended (29 U.S.C. 655 Note), 5 U.S.C. 553, and 29 CFR part 1911.

**§ 1910.101 [Amended]**

47. In § 1910.101(a), following the designation "C-8-1962" that appears at the end of the paragraph, the phrase ", which is incorporated by reference as specified in § 1910.6" is added.

48. In § 1910.101(b), following the designation "P-1-1965" that appears at the end of the paragraph, the phrase ", which is incorporated by reference as specified in § 1910.6" is added.

49. In § 1910.101(c), following the designation "S-1.2-1963" that appears at the end of the paragraph, the phrase ", which is incorporated by reference as specified in § 1910.6" is added.

**§ 1910.102 [Amended]**

50. In § 1910.102(a), following the designation "G-1-1966" that appears at the end of the paragraph, the phrase ", which is incorporated by reference as specified in § 1910.6" is added.

51. In § 1910.102(b), following the designation "G-1.3-1959" that appears at the end of the paragraph, the phrase ", which is incorporated by reference as specified in § 1910.6" is added.

52. In § 1910.102(c), following the designation "G-1.4-1966" that appears at the end of the paragraph, the phrase ", which is incorporated by reference as specified in § 1910.6" is added.

**§ 1910.103 [Amended]**

53. In § 1910.103(b)(1)(i)(a)(I), following the words "Pressure Vessels—1968" that appears at the end of the paragraph, the phrase ", which is incorporated by reference as specified in § 1910.6" is added.

54. In § 1910.103(b)(1)(i)(c), following the designation "Z48.1-1954" that appears at the end of the first sentence, the phrase ", which is incorporated by reference as specified in § 1910.6" is added.

55. In § 1910.103(b)(1)(iii)(b), following the designation "B31.1-1969" that appears at the end of the paragraph, the phrase ", which is incorporated by reference as specified in § 1910.6" is added.

56. In § 1910.103(c)(1)(i)(a), following the parenthetical "(April 1965)" that appears at the end of the paragraph, the phrase ", which is incorporated by reference as specified in § 1910.6" is added.

57. In § 1910.103(c)(1)(iv)(a)(I), following the phrase "Gas Storage Containers" that appears at the end of the paragraph, the phrase ", which is incorporated by reference as specified in § 1910.6" is added.

58. In § 1910.103(c)(1)(v)(b), following the words "as a guide" that appear at the end of the paragraph, the phrase ", which are incorporated by reference as specified in § 1910.6" is added.

59. In § 1910.103(c)(1)(v)(d), following the designation "ASTM Procedures D1692-68" that appears near the end of the second sentence, the phrase ", which is incorporated by reference as specified in § 1910.6," is added.

#### § 1910.104 [Amended]

60. In § 1910.104(b)(4)(ii), following the words "Pressure Vessels—1968" that appear at the end of the first sentence, the phrase ", which is incorporated by reference as specified in § 1910.6" is added.

61. In § 1910.105(b)(5)(ii), following the designation "B31.10a-1969" that appears at the end of the paragraph, the phrase ", which is incorporated by reference as specified in § 1910.6" is added.

62. In § 1910.105(b)(6)(iii), following the designation "S-1, Part 3" that appears at the end of the paragraph, the phrase ", which is incorporated by reference as specified in § 1910.6" is added.

#### § 1910.105 [Amended]

63. In § 1910.105, following the designation "G-8.1-1964" that appears at the end of the section, the phrase ", which is incorporated by reference as specified in § 1910.6" is added.

#### § 1910.106 [Amended]

64. In § 1910.106(a)(5), following the designation "ASTM D-86-62" that appears near the end of the paragraph, the phrase ", which is incorporated by reference as specified in § 1910.6," is added.

65. In § 1910.106(a)(14)(i), following the parenthetical designation "(ASTM D-56-70)" that appears near the end of the paragraph, the phrase ", which is incorporated by reference as specified in § 1910.6," is added.

66. In § 1910.106(a)(14)(ii), the following new sentence is added at the end of the paragraph: "The preceding ASTM standards are incorporated by reference as specified in § 1910.6."

67. In § 1910.106(a)(17), following the designation "D-5-65" that appears at the end of the first sentence, the phrase ", which is incorporated by reference as specified in § 1910.6" is added.

68. In § 1910.106(a)(30), following the designation "ASTM D323-68" that appears at the end of the paragraph, the phrase ", which is incorporated by reference as specified in § 1910.6," is added.

69. In § 1910.106(b)(1)(i)(a), the phrase "(b) through (e) of this subdivision" that appears at the end of the paragraph is changed to read "paragraphs (b)(1)(i) (b) through (e) of this section".

70. In § 1910.106(b)(1)(iii)(a), at the end of the introductory text and preceding the colon, the following phrase is added: "the following consensus standards that are incorporated by reference as specified in § 1910.6".

71. In § 1910.106(b)(1)(iv)(b), at the end of the introductory text and preceding the colon, the following phrase is added: "the following consensus standards that are incorporated by reference as specified in § 1910.6".

72. In § 1910.106(b)(2)(ii)(b), the phrase "subdivision (c) of this subdivision" that appears in the first sentence is changed to read "paragraph (b)(2)(ii)(c) of this section".

73. In § 1910.106(b)(2)(iv)(b)(I), following the words "Storage Tanks" the phrase ", which is incorporated by reference as specified in § 1910.6" is added before the semicolon.

74. In § 1910.106(d)(3)(ii), at the end of the first sentence in the introductory text, following the designation "NFPA 251-1969," the phrase ", which is incorporated by reference as specified in § 1910.6," is added.

75. In § 1910.106(d)(4)(i), near the end of the next-to-last sentence, the phrase "which is incorporated by reference as specified in § 1910.6," is added following the designation "NFPA 80-1968".

76. In § 1910.106(j)(6), at the end of the introductory text, the following phrase is added immediately preceding the colon: "that are incorporated by reference as specified in § 1910.6".

#### § 1910.107 [Amended]

77. In § 1910.107(d)(1), the phrase ", which is incorporated by reference as specified in § 1910.6" is added following the designation "NFPA 91-1961".

78. In § 1910.107(e)(5), following the words "Pressure Vessels—1968" that appear at the end of the next-to-last sentence, the phrase ", which is

incorporated by reference as specified in § 1910.6" is added.

79. In § 1910.107(j)(1), the phrase ", which is incorporated by reference as specified in § 1910.6" is added following the designation "NFPA 86A-1969".

#### § 1910.108 [Amended]

80. In § 1910.108(b)(1), at the end of the second sentence, following the designation "(NFPA Pamphlet No. 91-1969)," the phrase ", which are incorporated by reference as specified in § 1910.6" is added.

81. In § 1910.108(b)(2), following the designation "(NFPA No. 86A-1969)" that appears at the end of the paragraph, the phrase ", which is incorporated by reference as specified in § 1910.6" is added.

#### § 1910.109 [Amended]

82. In § 1910.109(i)(1)(ii)(b), the address "1235 Jefferson Davis Highway, Arlington, VA 22202" is removed and the phrase "which is incorporated by reference as specified in § 1910.6" is added in its place.

83. In § 1910.109(i)(2)(iii)(c), following the designation "NFPA 203M-1970" that appears at the end of the paragraph, the phrase ", which is incorporated by reference as specified in § 1910.6" is added.

84. In § 1910.109(i)(6)(ii), following the designation "NFPA 78-1968" that appears at the end of the paragraph, the phrase ", which is incorporated by reference as specified in § 1910.6" is added.

#### § 1910.110 [Amended]

85. In § 1910.110(b)(3)(i), following the words "Pressure Vessel code, 1968 edition" that appear at the end of the paragraph, the phrase ", which is incorporated by reference as specified in § 1910.6" is added.

86. In § 1910.110(b)(3)(iii), near the end of the first sentence, following the words "Mechanical Engineers," the phrase ", which is incorporated by reference as specified in § 1910.6," is added.

87. In the introductory text to § 1910.110(b)(5)(i), the phrase "subparagraph (3)(i) of this paragraph, except as provided in subparagraph (3)(iv) of this paragraph" is revised to read "paragraph (b)(3)(i) of this section, except as provided in paragraph (b)(3)(iv) of this section".

88. In § 1910.110(b)(5)(iii), following the words "the Material Contained" that appear at the end of the paragraph, the phrase ", which is incorporated by reference as specified in § 1910.6" is added.

89. In § 1910.110(b)(8)(i), following the designation “(ASTM, B241–69)” that appears in the middle of the second sentence of the introductory text, the phrase “, which is incorporated by reference as specified in § 1910.6” is added.

90. In § 1910.110(b)(8)(i)(a), following the words “Flash Welded Pipe” that appear near the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6,” is added.

91. In § 1910.110(b)(8)(ii), following the designation “(ASTM B88–69)” that appears at the end of the second sentence, the phrase “, which is incorporated by reference as specified in § 1910.6” is added.

92. In § 1910.110(b)(8)(ii), following the designation “(ASTM B210–68)” that appears in the middle of the third sentence, the parenthetical phrase “(which is incorporated by reference as specified in § 1910.6)” is added.

93. In § 1910.110(b)(20)(iv), following the words “with the following” that appear at the end of the introductory text, the phrase “NFPA consensus standards, which are incorporated by reference as specified in § 1910.6” is added.

94. In § 1910.110(e)(2)(iv), following the designation “(NFPA 505–1969)” that appears at the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6” is added.

#### **§ 1910.111 [Amended]**

95. In § 1910.111(b)(1)(i), following the words “Anhydrous Ammonia, M–1,” that appear near the end of the paragraph, the parenthetical phrase “(both of which are incorporated by reference as specified in § 1910.6)” is added.

96. In § 1910.111(b)(7)(iii), near the end of the paragraph, following the designation “addenda B31.1a-1968” the phrase “, which is incorporated by reference as specified in § 1910.6,” is added.

97. In § 1910.111(b)(7)(iv), near the end of the first sentence, following the words “Flash Welded Pipe,” the phrase “, which is incorporated by reference as specified in § 1910.6,” is added.

98. In § 1910.111(b)(7)(vi), at the end of the paragraph, following the words “Class B or C,” the phrase “all of which are incorporated by reference as specified in § 1910.6” are added.

99. In § 1910.111(d)(1)(ii), following the designations “R2.2.1, or R2.3” that appear near the end of the paragraph, the phrase “which are incorporated by reference as specified in § 1910.6” is added.

100. In § 1910.111(d)(4)(ii)(b), in the middle of the first sentence, following the words “Storage Containers, 1959,” the phrase “which is incorporated by reference as specified in § 1910.6,” is added.

101. In § 1910.111(e)(1), following the designation “Z48.1–1954 (R1970)” that appears at the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6” is added.

#### **§ 1910.114 [Removed]**

102. Section 1910.114 is removed.

#### **§ 1910.115 [Removed]**

103. Section 1910.115 is removed.

#### **§ 1910.116 [Removed]**

104. Section 1910.116 is removed.

#### **§ 1910.119 [Amended]**

105. In § 1910.119(b), in the definition of “Boiling point,” following the designation “(ASTM D–86–62)” that appears near the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6” is added.

#### **§ 1910.120 [Amended]**

106. In § 1910.120(a)(1)(i), the comma at the beginning of the word “uncontrolled” near the middle of the paragraph is removed.

107. In § 1910.120(a)(3), in the definition of “published exposure level,” the words “dated 1986 incorporated by reference” that appear near the beginning of the paragraph are revised to read “dated 1986, which is incorporated by reference as specified in § 1910.6.” In addition, the words “dated 1987 incorporated by reference” that appear at the end of the paragraph are revised to read “dated 1987, which is incorporated by reference as specified in § 1910.6.”

#### **Subpart I—Personal Protective Equipment**

108. The authority citation for subpart I continues to read as follows:

Authority: Sections 4, 6, and 8 of the Occupational Safety and Health Act of 1970 (29 U.S.C. 653, 655, 657); Secretary of Labor Order No. 12–71 (36 FR 8754), 8–76 (41 FR 25059), 9–83 (48 FR 35736), or 1–90 (55 FR 9033), as applicable.

#### **§ 1910.133 [Amended]**

109. In the first sentence of § 1910.133(b)(1), the phrase “as specified in § 1910.6” is added following the words “incorporated by reference,” and the remaining text to the paragraph after the first sentence is removed.

110. In the first sentence of § 1910.133(b)(2), the phrase “, which is incorporated by reference as specified in § 1910.6,” is added after the designation “Z87.1–1968,” and the remaining text to the paragraph after the first sentence is removed.

#### **§ 1910.135 [Amended]**

111. In the first sentence of § 1910.135(b)(1), the phrase “as specified in § 1910.6” is added before the comma that follows the words “incorporated by reference,” and the remaining text to the paragraph after the first sentence is removed.

112. In the first sentence of § 1910.135(b)(2), the phrase “, which is incorporated by reference as specified in § 1910.6,” is added after the designation “Z89.1–1969,” and the remaining text to the paragraph after the first sentence is removed.

#### **§ 1910.136 [Amended]**

113. In the first sentence of § 1910.136(b)(1), the phrase “as specified in § 1910.6” is added before the comma that follows the words “incorporated by reference,” and the remaining text to the paragraph after the first sentence is removed.

114. In the first sentence of § 1910.136(b)(2), the phrase “as specified in § 1910.6,” is added before the comma that follows the words “incorporated by reference,” and the remaining text to the paragraph after the first sentence is removed.

#### **§ 1910.139 [Removed]**

115. Section 1910.139 is removed.

#### **§ 1910.140 [Removed]**

116. Section 1910.140 is removed.

#### **Subpart J—General Environmental Controls**

117. The authority citation for subpart J continues to read as follows:

Authority: Sections 4, 6, and 8 of the Occupational Safety and Health Act of 1970 (29 U.S.C. 653, 655, 657); Secretary of Labor Order No. 12–71 (36 FR 8754), 8–76 (41 FR 25059), 9–83 (48 FR 35736), or 1–90 (55 FR 9033), as applicable.

Sections 1910.141, 1910.142, and 1910.145–1910.147 also issued under 29 CFR part 1911.

#### **§ 1910.142 [Amended]**

118. In § 1910.142(c)(4), near the end of the paragraph, following the designation “Z42–1942,” the phrase “, which is incorporated by reference as specified in § 1910.6,” is added.

119. In § 1910.142(i)(1), at the end of the paragraph, following the designation “(Publication 934 (1965))” the phrase

“, which is incorporated by reference as specified in § 1910.6” is added.

**§ 1910.144 [Amended]**

120. In § 1910.144(a)(1)(ii), at the end of the second sentence, following the designation “A10.2–1944,” the phrase “, which is incorporated by reference as specified in § 1910.6.” is added.

**§ 1910.145 [Amended]**

121. In § 1910.145(a)(2), the phrase “on and after August 31, 1971,” is removed.

122. In § 1910.145(d)(2)(i), (4)(i), and (6)(i), the paragraph designation (i) is removed from each paragraph.

123. In § 1910.145(d)(2), at the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6.” is added following the designation “Z53.1–1967”.

124. In § 1910.145(d)(10), at the end of the paragraph, the phrase “, which are incorporated by reference as specified in § 1910.6.” is added following the designation “(ANSI B114.1–1971)”.

**§ 1910.148 [Removed]**

125. Section 1910.148 is removed.

**§ 1910.149 [Removed]**

126. Section 1910.149 is removed.

**§ 1910.150 [Removed]**

127. Section 1910.150 is removed.

**Subpart K—Medical and First Aid**

128. The authority citation for subpart K is revised to read as follows:

Authority: Sections 4, 6, and 8 of the Occupational Safety and Health Act of 1970 (29 U.S.C. 653, 655, 657); Secretary of Labor's Order No. 12–71 (36 FR 8754), 8–76 (41 FR 25059), 9–83 (48 FR 35736), or 1–90 (55 FR 9033), as applicable.

**§ 1910.153 [Removed]**

129. Section 1910.153 is removed.

**Subpart L—Fire Protection**

130. The authority citation for subpart L continues to read as follows:

Authority: Sections 4, 6, and 8 of the Occupational Safety and Health Act of 1970 (29 U.S.C. 653, 655, 657); Secretary of Labor's Order No. 12–71 (36 FR 8754), 8–76 (41 FR 25059), 9–83 (48 FR 35736), or 1–90 (55 FR 9033), as applicable.

**§ 1910.156 [Amended]**

131. In the introductory text of § 1910.156(e)(3)(ii), near the end of the paragraph, the phrase “which is incorporated by reference as specified in § 1910.6,” is added following the words “‘Structural Fire Fighting’”.

132. In the second sentence of the introductory text to § 1910.156(e)(4)(i), near the end of the paragraph, the

phrase “which is incorporated by reference as specified in § 1910.6,” is added following the words “‘Part II: Test Methods’”.

133. In § 1910.156(e)(5)(i), following the parenthetical “(August 1977)” that appears near the end of the paragraph, the phrase “which is incorporated by reference as specified in § 1910.6,” is added.

**§ 1910.157 [Amended]**

134. In § 1910.157(c)(5), the phrase “The employer shall permanently remove from service by January 1, 1982,” that appears at the beginning of the paragraph is revised to read “The employer shall remove from service”.

**§ 1910.158 [Amended]**

135. In § 1910.158(c)(3)(iii), the phrase “Beginning January 1, 1981, the” that appears at the beginning of the paragraph is removed and the word “The” is added in its place.

136. In paragraph (c)(4), the phrase “Beginning July 1, 1981, the” that appears at the beginning of the paragraph is removed and the word “The” is added in its place.

**Subpart L, Appendix D—[Amended]**

137. In Appendix D to Subpart L (§§ 1910.155–1910.165), in the listing for the address of OSHA's Technical Data Center that appears almost at the end of the appendix, the telephone number “523–9700” is changed to “219–7500”.

**Subpart M—Compressed Gas and Compressed Air Equipment**

138. The authority citation for subpart M continues to read as follows:

Authority: Sections 4, 6, and 8 of the Occupational Safety and Health Act of 1970 (29 U.S.C. 653, 655, 657); Secretary of Labor's Order No. 12–71 (36 FR 8754), 8–76 (41 FR 25059), 9–83 (48 FR 35736), or 1–90 (55 FR 9033), as applicable.

**§ 1910.169 [Amended]**

139. In § 1910.169(a)(2)(i), at the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6” is added following the designation “Code Section VIII”.

**§ 1910.170 [Removed]**

140. Section 1910.170 is removed.

**§ 1910.171 [Removed]**

141. Section 1910.171 is removed.

**Subpart N—Materials Handling and Storage**

142. The authority citation for subpart N is revised to read as follows:

Authority: Sections 4, 6, and 8 of the Occupational Safety and Health Act of 1970 (29 U.S.C. 653, 655, 657); Secretary of Labor's Order No. 12–71 (36 FR 8754), 8–76 (41 FR 25059), 9–83 (48 FR 35736), or 1–90 (55 FR 9033), as applicable; 29 CFR part 1911.

**§ 1910.177 [Amended]**

143. In Appendix B to § 1910.177, in the listing for the address of OSHA's Publications Office that appears at the end of the appendix, the telephone number “523–9667” is revised to “219–4667”.

**§ 1910.178 [Amended]**

144. In § 1910.178(a)(2), near the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6” is added following the designation “B56.1–1969”.

145. In § 1910.178(f)(1), at the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6” is added following the designation “(NFPA No. 30–1969)”.

146. In § 1910.178(f)(2), at the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6” is added following the designation “(NFPA No. 58–1969)”.

**§ 1910.179 [Amended]**

147. In § 1910.179(b)(2), at the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6” is added following the designation “B30.2.0–1967”.

148. In § 1910.179(b)(6)(i), near the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6” is added following the designation “Specification No. 61”.

149. In § 1910.179(c)(2), at the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6” is added following the designation “A14.3–1956”.

**§ 1910.180 [Amended]**

150. In § 1910.180(b)(2), at the end of the second sentence, the phrase “, which is incorporated by reference as specified in § 1910.6” is added following the designation “B30.5–1968”.

151. In § 1910.180(c)(1)(i), the phrase “subdivisions (ii) and (iii) of this subparagraph” that appears at the end of the paragraph is changed to read “paragraphs (c)(1)(ii) and (iii) of this section”.

152. In § 1910.180(c)(1)(iii), near the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6” is added following the designation “(SAE) No. J765”.

153. In the introductory text to § 1910.180(d)(3), the phrase

"subdivision (2)(i) of this subparagraph" that appears near the middle of the first sentence is changed to read "paragraph (d)(2)(i) of this section".

**§ 1910.181 [Amended]**

154. In § 1910.181(b)(2), at the end of the paragraph, the phrase " , which is incorporated by reference as specified in § 1910.6" is added following the designation "B30.6-1969".

**§ 1910.182 [Removed]**

155. Section 1910.182 is removed.

**§ 1910.184 [Amended]**

156. In § 1910.184(e)(4), at the end of the first sentence, the phrase " , which is incorporated by reference as specified in § 1910.6" is added following the designation "Specification A391-65".

**§ 1910.189 [Removed]**

157. Section 1910.189 is removed.

**§ 1910.190 [Removed]**

158. Section 1910.190 is removed.

**Subpart O—Machinery and Machine Guarding**

159. The authority citation for subpart O is revised to read as follows:

Authority: Sections 4, 6, and 8 of the Occupational Safety and Health Act of 1970 (29 U.S.C. 653, 655, 657); Secretary of Labor's Order No. 12-71 (36 FR 8754), 8-76 (41 FR 25059), 9-83 (48 FR 35736), or 1-90 (55 FR 9033), as applicable; 29 CFR part 1911.

**§ 1910.215 [Amended]**

160. In § 1910.215(b)(12), at the end of the first sentence, the phrase " , which is incorporated by reference as specified in § 1910.6" is added following the designation "ANSI B7.1-1970."

**§ 1910.216 [Amended]**

161. In § 1910.216, paragraphs (a) (1) and (2) are removed and reserved.

**§ 1910.217 [Amended]**

162. In § 1910.217(b)(12), at the end of the paragraph, the phrase " , which is incorporated by reference as specified in § 1910.6" is added following the words "Pressure Vessels, 1968 Edition".

163. In § 1910.217(c)(1)(ii), the phrase "subdivision (i) of this subparagraph" is revised to read "paragraph (c)(1)(i) of this section".

164. In § 1910.217, the words "after December 31, 1976" that appear at the end of paragraph (c)(3)(v) are removed.

165. In § 1910.217, the words "section. This requirement shall be complied with by November 1, 1975;" that appear at the end of paragraph (c)(5)(i) are removed and "section;" is added in their place.

166. In § 1910.217, the phrase "Effective February 1, 1975, the" that

appears at the beginning of the introductory text to paragraph (d)(1) is removed and the word "The" is added in its place.

167. In table O-10 following § 1910.217(f)(4), the fourth entry in the first column that reads "1½ to 5½" is revised to read "3½ to 5½".

168. In § 1910.217(g), the phrase "Director of the Office of Standards Development" is revised to read "Director of the Directorate of Safety Standards Programs".

**§ 1910.218 [Amended]**

169. In § 1910.218 (d)(4) and (e)(1)(iv), at the end of the paragraphs, the phrase " , which is incorporated by reference as specified in § 1910.6" is added following the date "April 28, 1971".

170. In § 1910.218(j)(3), at the end of the paragraph, the phrase " , which is incorporated by reference as specified in § 1910.6" is added following the words "Related Equipment."

171. In § 1910.218(j)(5), near the end of the paragraph, the phrase "which is incorporated by reference as specified in § 1910.6," is added following the words "Abrasive Wheels."

**§ 1910.219 [Amended]**

172. In § 1910.219(c)(5)(iii), following the designation "A11.1-1965 (R-1970)" that appears at the end of the paragraph, the phrase " , which is incorporated by reference as specified in § 1910.6" is added.

**§ 1910.220 [Removed]**

173. Section 1910.220 is removed.

**§ 1910.221 [Removed]**

174. Section 1910.221 is removed.

**§ 1910.222 [Removed]**

175. Section 1910.222 is removed.

**Subpart P—Hand and Portable Powered Tools and Other Hand-Held Equipment**

176. The authority citation for subpart P is revised to read as follows:

Authority: Sections 4, 6, and 8 of the Occupational Safety and Health Act of 1970 (29 U.S.C. 653, 655, 657); Secretary of Labor's Order No. 12-71 (36 FR 8754), 8-76 (41 FR 25059), 9-83 (48 FR 35736), or 1-90 (55 FR 9033), as applicable; 29 CFR part 1911.

Section 1910.243 also issued under 29 CFR part 1910.

**§ 1910.243 [Amended]**

177. In § 1910.243(d)(1)(i), following the designation "ANSI A10.3-1970" that appears at the end of the first sentence, the phrase " , which is incorporated by reference as specified in § 1910.6" is added.

178. In § 1910.243(e)(1)(i), following the designation "ANSI B71.1-X1968" that appears at the end of the first sentence, the phrase " , which is incorporated by reference as specified in § 1910.6" is added.

**§ 1910.245 [Removed]**

179. Section 1910.245 is removed.

**§ 1910.246 [Removed]**

180. Section 1910.246 is removed.

**§ 1910.247 [Removed]**

181. Section 1910.247 is removed.

**Subpart Q—Welding, Cutting and Brazing**

182. The authority citation for subpart Q continues to read as follows:

Authority: Sections 4, 6, and 8 of the Occupational Safety and Health Act of 1970 (29 U.S.C. 653, 655, 657); Secretary of Labor's Order No. 12-71 (36 FR 8754), 8-76 (41 FR 25059); 9-83 (48 FR 35736), or 1-90 (55 FR 9033), as applicable; 5 U.S.C. 553; 29 CFR part 1911.

**§ 1910.251 [Amended]**

183. In § 1910.251(c), the designation "A3.0-969" that appears at the end of the paragraph is revised to read "A3.0-1969" and the phrase " , which is incorporated by reference as specified in § 1910.6" is added immediately following it.

**§ 1910.252 [Amended]**

184. In § 1910.252(a)(1), following the designation "Standard 51B, 1962" that appears at the end of the first sentence of the introductory text, the phrase " , which is incorporated by reference as specified in § 1910.6" is added.

185. In § 1910.252(b)(2)(ii)(I), following the words "Face Protection" that appear at the end of the paragraph, the phrase " , which is incorporated by reference as specified in § 1910.6" is added.

186. In § 1910.252(d)(1)(v), following the designation "API Std. 1104-1968" that appears at the end of the paragraph, the phrase " , which is incorporated by reference as specified in § 1910.6" is added.

187. In § 1910.252(d)(1)(vi), following the designation "API Std. PSD 2201-1963" that appears at the end of the paragraph, the phrase " , which is incorporated by reference as specified in § 1910.6" is added.

188. In § 1910.252(d)(1)(vii), following the designation "ANSI Z54.1-1963" that appears at the end of the paragraph, the phrase " , which is incorporated by reference as specified in § 1910.6" is added.

**§ 1910.253 [Amended]**

189. In § 1910.253(b)(1)(ii), following the designation “ANSI Z48.1–1954” that appears at the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6” is added.

190. In § 1910.253(b)(1)(iii), following the designation “ANSI Z57.1–1965” that appears at the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6” is added.

191. In § 1910.253(b)(4)(iv), following the designation “NFPA No. 566–1965” that appears at the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6” is added.

192. In the introductory text to § 1910.253(d)(1)(i)(A), following the designation “ANSI B31.1–1967,” the phrase “which is incorporated by reference as specified in § 1910.6,” is added.

193. In § 1910.253(d)(1)(i)(A)(2), following the designation “ASTM B88–66a” that appears at the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6” is added.

194. In § 1910.253(d)(4)(ii), following the designation “ANSI A13.1–1956” that appears at the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6” is added.

195. In § 1910.253(e)(4) (iv) and (v), following the words “Compressed Gas Association” that appear at the end of both paragraphs, the phrase “, which is incorporated by reference as specified in § 1910.6” is added.

196. In § 1910.253(e)(5)(i), following the words “Rubber Manufacturers Association” that appear at the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6” is added.

197. In § 1910.253(f)(6)(i)(I), following the designation “NFPA 80–1970” that appears at the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6” is added.

**§ 1910.254 [Amended]**

198. In § 1910.254(b)(1), following the words “Underwriters’ Laboratories” that appear at the end of the paragraph, the phrase “, both of which are incorporated by reference as specified in § 1910.6” is added.

199. In § 1910.254(d)(1), following the words “Welding Society” that appear at the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6” is added.

**§ 1910.256 [Removed]**

200. Section 1910.256 is removed.

**§ 1910.257 [Removed]**

201. Section 1910.257 is removed.

**Subpart R—Special Industries**

202. The authority citation for subpart R is revised to read as follows:

Authority: Sections 4, 6, and 8 of the Occupational Safety and Health Act of 1970 (29 U.S.C. 653, 655, 657); Secretary of Labor’s Order No. 12–71 (36 FR 8754), 8–76 (41 FR 25059), 9–83 (48 FR 35736), or 1–90 (55 FR 9033), as applicable; 29 CFR part 1911.

Sections 1910.261, 1910.262, 1910.265 through 1910.269, 1910.274, and 1910.275 also issued under 29 CFR part 1910.

**§ 1910.261 [Amended]**

203. In § 1910.261(a)(3), before the colon at the end of the introductory text, the phrase “, which are incorporated by reference as specified in § 1910.6” is added.

204. In the introductory text of § 1910.261(a)(4), the phrase “, which are incorporated by reference as specified in § 1910.6,” is added after the words “following standards” that appear at the beginning of the sentence.

205. In § 1910.261, paragraph (n) is removed.

**§ 1910.262 [Amended]**

206. In § 1910.262(c)(6), following the designation “A11.1–1965” that appears at the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6” is added.

207. In § 1910.262(c)(7), following the designation “A13.1–1956” that appears at the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6” is added.

208. In § 1910.262(h)(1)(i), following the words “Pressure Vessels, 1968” that appear at the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6” is added.

**§ 1910.263 [Amended]**

209. In § 1910.263(i)(24)(ii), following the words “Pressure Vessels, 1968” that appear at the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6” is added.

210. In § 1910.263(k)(2)(i), the comma is removed and the word “and” is added in its place immediately preceding the reference “NFPA 656–1959,” and following the words “Grinding Plants”) that appear at the end of the paragraph, the phrase “, which are incorporated by reference as specified in § 1910.6” is added.

**§ 1910.265 [Amended]**

211. In § 1910.265(c)(2), following the designation “A11.1–1965” that appears at the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6” is added.

212. In § 1910.265(c)(15), following the designation “Z21.30–1964” that appears at the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6” is added.

213. In § 1910.265(c)(18)(i), following the designation “B20.1–1957” that appears at the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6” is added.

214. In § 1910.265(c)(20)(i), following the words “Flour Manufacturing Plants”) that appear at the end of the paragraph, the phrase “, which are incorporated by reference as specified in § 1910.6” is added.

215. In § 1910.265(c)(30)(iv), following the designation “B56.1–1969” that appears at the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6” is added.

216. In § 1910.265(c)(31)(i), following the words “Crossing Protection” that appear in the parenthetical near the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6” is added within the parenthetical.

217. In § 1910.265(d)(2)(i)(a), following the words “Industrial Lighting” that appear at the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6” is added.

218. In the introductory text of § 1910.265(d)(2)(iv), following the designation “NFPA No. 302–1968” that appears at the end of the paragraph, the phrase “which is incorporated by reference as specified in § 1910.6,” is added.

219. Paragraph (j) of § 1910.265 is removed.

**§ 1910.266 [Amended]**

220. In § 1910.266(d)(3)(iv), following the words “Work Machines” at the end of the first sentence, the phrase “, which is incorporated by reference as specified in § 1910.6” is added and the remaining text of the paragraph after the first sentence is removed.

221. At the end of the first sentence of § 1910.266(e)(2)(i), following the words “‘Chain Saws,’” the phrase “, which is incorporated by reference as specified in § 1910.6” is added and the text of the paragraph after the third sentence is removed.

222. At the end of the first sentence of § 1910.266(f)(3)(ii), the phrase “, which is incorporated by reference as specified in § 1910.6” is added following the words “Mining Machines” and the remaining text of the paragraph after the first sentence is removed.

223. In § 1910.266(f)(3)(iii), at the end of the first sentence, following the words “Protective Structures (FOPS)” the phrase “, which is incorporated by reference as specified in § 1910.6” is added and the remaining text of the paragraph after the first sentence is removed.

224. At the end of the first sentence of § 1910.266(f)(3)(iv), following the words “Laboratory Evaluation,” the phrase “, which is incorporated by reference as specified in § 1910.6” is added and the remaining text of the paragraph after the first sentence is removed.

225. At the end of the first sentence of § 1910.266(f)(4), following the words “Forklift Trucks,” the phrase “, which is incorporated by reference as specified in § 1910.6” is added and the remaining text of the paragraph after the first sentence is removed.

226. At the end of the first sentence of § 1910.266(f)(5)(i), following the words “for Off-Road Machines,” the phrase “which is incorporated by reference as specified in § 1910.6,” is added and the remaining text of the paragraph after the first sentence is removed.

#### § 1910.268 [Amended]

227. In § 1910.268(f)(1), the following new sentence is added to the end of the paragraph: “(ANSI J6.6–1971 and ANSI J6.4–1971 are incorporated by reference as specified in § 1910.6.)”

228. In § 1910.268(g)(2)(i)(A), the phrase “, which is incorporated by reference as specified in § 1910.6” is added following the designation “B117–64” that appears near the end of the first sentence.

229. In § 1910.268(h)(3), the phrase “After April 30, 1975, portable” that appears at the beginning of the paragraph is removed and the word “Portable” is added in its place.

230. In § 1910.268(i)(1), the following new sentence is added at the end of the paragraph: “ANSI Z89.2–1971 is incorporated by reference as specified in § 1910.6.”

231. In § 1910.268(j)(4)(iv)(E), following the words “for Derricks” that appear at the end of the paragraph, the phrase “, which is incorporated by reference as specified in § 1910.6” is added.

232. At the end of the first sentence of § 1910.268(s)(1)(v), following the designation “A92.2–1969” the phrase “, which is incorporated by reference as specified in § 1910.6” is added.

#### § 1910.272 [Amended]

233. In § 1910.272(k)(1), the phrase “Not later than March 30, 1989, all” that appears at the beginning of the paragraph is removed and the word “All” is added in its place.

234. In paragraph (o)(1) introductory text, the phrase “Not later than April 1, 1991, all” appearing at the beginning of the paragraph is removed and the word “All” is added in its place.

235. In paragraph (p)(3), the phrase “Not later than April 1, 1991, all” that appears at the beginning of the paragraph is removed and the word “All” is added in its place.

236. In the introductory text to paragraphs (p) (4) and (6) and in paragraph (p)(5), the phrase “Not later than April 1, 1991, all” that appears at the beginning of the paragraphs is removed and the word “All” is added in its place.

#### § 1910.274 [Removed]

237. Section § 1910.274 is removed.

#### § 1910.275 [Removed]

238. Section 1910.275 is removed.

### Subpart T—Commercial Diving Operations

239. The authority citation for subpart T continues to read as follows:

Authority: Sections 4, 6, and 8 of the Occupational Safety and Health Act of 1970 (29 U.S.C. 653, 655, 657); sec. 107, Contract Work Hours and Safety Standards Act (Construction Safety Act) (40 U.S.C. 333); sec. 41, Longshore and Harbor Workers' Compensation Act (33 U.S.C. 941); Secretary of Labor's Order No. 12–71 (36 FR 87540); 8–76 (41 FR 25059); 9–83 (48 FR 35736), or 1–90 (55 FR 9033), as applicable; and 29 CFR part 1911.

#### § 1910.440 [Amended]

240. In § 1910.440(b) (1) and (5)(ii), the phrase “Health, Education and Welfare” is revised to read “Health and Human Services”.

### Subpart Z—Toxic and Hazardous Substances

241. The authority citation for subpart Z is revised to read as follows:

Authority: Sections 6 and 8 of the Occupational Safety and Health Act of 1970 (29 U.S.C. 655 and 657); Secretary of Labor's Order No. 12–71 (36 FR 8754), 8–76 (41 FR 25059), 9–83 (48 FR 35736), or 1–90 (55 FR 9033), as applicable; and 29 CFR part 1911.

All of subpart Z issued under sec. 6(b) of the Occupational Safety and Health Act,

except those substances that have exposure limits listed in Tables Z–1, Z–2, and Z–3 of 29 CFR 1910.1000. The latter were issued under sec. 6(a) (29 U.S.C. 655(a)).

Section 1910.1000, Tables Z–1, Z–2, and Z–3 also issued under 5 U.S.C. 553. Section 1910.1000, Tables Z–1, Z–2, and Z–3 not issued under 29 CFR part 1911 except for the arsenic (organic compounds), benzene, and cotton dust listings.

Section 1910.1001 also issued under sec. 107 of Contract Work Hours and Safety Standards Act (40 U.S.C. 333) and 5 U.S.C. 553.

Section 1910.1002 not issued under 29 U.S.C. 655 or 29 CFR part 1911; also issued under 5 U.S.C. 553.

Sections 1910.1003 through 1910.1018 also issued under 29 U.S.C. 653.

Section 1910.1025 also issued under 5 U.S.C. 553 and 29 U.S.C. 653.

Sections 1910.1028 and 1910.1030 also issued under 29 U.S.C. 653.

Section 1910.1043 also issued under 5 U.S.C. 551 *et seq.*

Sections 1910.1045, 1910.1047, and 1910.1048 also issued under 29 U.S.C. 653.

Section 1910.1200 also issued under 5 U.S.C. 553.

Section 1910.1450 is also issued under sec. 6(b), 8(c), and 8(g)(2), Pub. L. 91–596, 84 Stat. 1593, 1599, 1600 (29 U.S.C. 655 and 657).

242. Section 1910.1003 is revised to read as follows:

#### § 1910.1003 13 Carcinogens.

(a) *Scope and application.* (1) This section applies to any area in which the 13 carcinogens addressed by this section are manufactured, processed, repackaged, released, handled, or stored, but shall not apply to transshipment in sealed containers, except for the labeling requirements under paragraphs (e)(2), (3) and (4) of this section. The 13 carcinogens are the following:

4-Nitrobiphenyl, Chemical Abstracts Service Register Number (CAS No.) 92933; alpha-Naphthylamine, CAS No. 134327; methyl chloromethyl ether, CAS No. 107302; 3,3'-Dichlorobenzidine (and its salts) CAS No. 91941; bis-Chloromethyl ether, CAS No. 542881; beta-Naphthylamine, CAS No. 91598; Benzidine, CAS No. 92875; 4-Aminodiphenyl, CAS No. 92671; Ethyleneimine, CAS No. 151564; beta-Propiolactone, CAS No. 57578; 2-Acetylaminofluorene, CAS No. 53963; 4-Dimethylaminoazo-benzene, CAS No. 60117; and N-Nitrosodimethylamine, CAS No. 62759.

(2) This section shall not apply to the following:

(i) Solid or liquid mixtures containing less than 0.1 percent by weight or volume of 4-Nitrobiphenyl; methyl chloromethyl ether; bis-chloromethyl ether; beta-Naphthylamine; benzidine or 4-Aminodiphenyl; and

(ii) Solid or liquid mixtures containing less than 1.0 percent by

weight or volume of alpha-Naphthylamine; 3,3'-Dichlorobenzidine (and its salts); Ethyleneimine; beta-Propiolactone; 2-Acetylaminofluorene; 4-Dimethylaminoazobenzene, or N-Nitrosodimethylamine.

(b) *Definitions.* For the purposes of this section:

*Absolute filter* is one capable of retaining 99.97 percent of a mono disperse aerosol of 0.3 µm particles.

*Authorized employee* means an employee whose duties require him to be in the regulated area and who has been specifically assigned by the employer.

*Clean change room* means a room where employees put on clean clothing and/or protective equipment in an environment free of the 13 carcinogens addressed by this section. The clean change room shall be contiguous to and have an entry from a shower room, when the shower room facilities are otherwise required in this section.

*Closed system* means an operation involving a carcinogen addressed by this section where containment prevents the release of the material into regulated areas, non-regulated areas, or the external environment.

*Decontamination* means the inactivation of a carcinogen addressed by this section or its safe disposal.

*Director* means the Director, National Institute for Occupational Safety and Health, or any person directed by him or the Secretary of Health and Human Services to act for the Director.

*Disposal* means the safe removal of the carcinogens addressed by this section from the work environment.

*Emergency* means an unforeseen circumstance or set of circumstances resulting in the release of a carcinogen addressed by this section that may result in exposure to or contact with the material.

*External environment* means any environment external to regulated and nonregulated areas.

*Isolated system* means a fully enclosed structure other than the vessel of containment of a carcinogen addressed by this section that is impervious to the passage of the material and would prevent the entry of the carcinogen addressed by this section into regulated areas, nonregulated areas, or the external environment, should leakage or spillage from the vessel of containment occur.

*Laboratory-type hood* is a device enclosed on the three sides and the top and bottom, designed and maintained so as to draw air inward at an average linear face velocity of 150 feet per minute with a minimum of 125 feet per minute; designed, constructed, and

maintained in such a way that an operation involving a carcinogen addressed by this section within the hood does not require the insertion of any portion of any employee's body other than his hands and arms.

*Nonregulated area* means any area under the control of the employer where entry and exit is neither restricted nor controlled.

*Open-vessel system* means an operation involving a carcinogen addressed by this section in an open vessel that is not in an isolated system, a laboratory-type hood, nor in any other system affording equivalent protection against the entry of the material into regulated areas, non-regulated areas, or the external environment.

*Protective clothing* means clothing designed to protect an employee against contact with or exposure to a carcinogen addressed by this section.

*Regulated area* means an area where entry and exit is restricted and controlled.

(c) *Requirements for areas containing a carcinogen addressed by this section.*

A regulated area shall be established by an employer where a carcinogen addressed by this section is manufactured, processed, used, repackaged, released, handled or stored. All such areas shall be controlled in accordance with the requirements for the following category or categories describing the operation involved:

(1) *Isolated systems.* Employees working with a carcinogen addressed by this section within an isolated system such as a "glove box" shall wash their hands and arms upon completion of the assigned task and before engaging in other activities not associated with the isolated system.

(2) *Closed system operation.* (i) Within regulated areas where the carcinogens addressed by this section are stored in sealed containers, or contained in a closed system, including piping systems, with any sample ports or openings closed while the carcinogens addressed by this section are contained within, access shall be restricted to authorized employees only.

(ii) Employees exposed to 4-Nitrobiphenyl; alpha-Naphthylamine; 3,3'-Dichlorobenzidine (and its salts); beta-Naphthylamine; benzidine; 4-Aminodiphenyl; 2-Acetylaminofluorene; 4-Dimethylaminoazo-benzene; and N-Nitrosodimethylamine shall be required to wash hands, forearms, face, and neck upon each exit from the regulated areas, close to the point of exit, and before engaging in other activities.

(3) *Open-vessel system operations.* Open-vessel system operations as

defined in paragraph (b)(13) of this section are prohibited.

(4) *Transfer from a closed system, charging or discharging point operations, or otherwise opening a closed system.* In operations involving "laboratory-type hoods," or in locations where the carcinogens addressed by this section are contained in an otherwise "closed system," but is transferred, charged, or discharged into other normally closed containers, the provisions of this paragraph shall apply.

(i) Access shall be restricted to authorized employees only.

(ii) Each operation shall be provided with continuous local exhaust ventilation so that air movement is always from ordinary work areas to the operation. Exhaust air shall not be discharged to regulated areas, nonregulated areas or the external environment unless decontaminated. Clean makeup air shall be introduced in sufficient volume to maintain the correct operation of the local exhaust system.

(iii) Employees shall be provided with, and required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area.

(iv) Employees engaged in handling operations involving the carcinogens addressed by this section shall be provided with and required to wear and use a half-face, filter-type respirator for dusts, mists, and fumes, in accordance with § 1910.134. A respirator affording higher levels of protection may be substituted.

(v) Prior to each exit from a regulated area, employees shall be required to remove and leave protective clothing and equipment at the point of exit and at the last exit of the day, to place used clothing and equipment in impervious containers at the point of exit for purposes of decontamination or disposal. The contents of such impervious containers shall be identified, as required under paragraphs (e) (2), (3), and (4) of this section.

(vi) Drinking fountains are prohibited in the regulated area.

(vii) Employees shall be required to wash hands, forearms, face, and neck on each exit from the regulated area, close to the point of exit, and before engaging in other activities and employees exposed to 4-Nitrobiphenyl; alpha-Naphthylamine; 3,3'-Dichlorobenzidine (and its salts); beta-Naphthylamine; Benzidine; 4-Aminodiphenyl; 2-Acetylaminofluorene; 4-Dimethylaminoazo-benzene; and N-Nitrosodimethylamine shall be required to shower after the last exit of the day.



(5) *Maintenance and decontamination activities.* In cleanup of leaks of spills, maintenance, or repair operations on contaminated systems or equipment, or any operations involving work in an area where direct contact with a carcinogen addressed by this section could result, each authorized employee entering that area shall:

(i) Be provided with and required to wear clean, impervious garments, including gloves, boots, and continuous-air supplied hood in accordance with § 1910.134;

(ii) Be decontaminated before removing the protective garments and hood;

(iii) Be required to shower upon removing the protective garments and hood.

(d) *General regulated area requirements—(1)* [Reserved]

(2) *Emergencies.* In an emergency, immediate measures including, but not limited to, the requirements of paragraphs (d)(2) (i) through (v) of this section shall be implemented.

(i) The potentially affected area shall be evacuated as soon as the emergency has been determined.

(ii) Hazardous conditions created by the emergency shall be eliminated and the potentially affected area shall be decontaminated prior to the resumption of normal operations.

(iii) Special medical surveillance by a physician shall be instituted within 24 hours for employees present in the potentially affected area at the time of the emergency. A report of the medical surveillance and any treatment shall be included in the incident report, in accordance with paragraph (f)(2) of this section.

(iv) Where an employee has a known contact with a carcinogen addressed by this section, such employee shall be required to shower as soon as possible, unless contraindicated by physical injuries.

(v) An incident report on the emergency shall be reported as provided in paragraph (f)(2) of this section.

(vi) Emergency deluge showers and eyewash fountains supplied with running potable water shall be located near, within sight of, and on the same level with locations where a direct exposure to Ethyleneimine or beta-Propiolactone only would be most likely as a result of equipment failure or improper work practice.

(3) *Hygiene facilities and practices.* (i) Storage or consumption of food, storage or use of containers of beverages, storage or application of cosmetics, smoking, storage of smoking materials, tobacco products or other products for chewing,

or the chewing of such products are prohibited in regulated areas.

(ii) Where employees are required by this section to wash, washing facilities shall be provided in accordance with § 1910.141(d) (1) and (2) (ii) through (vii).

(iii) Where employees are required by this section to shower, shower facilities shall be provided in accordance with § 1910.141(d)(3).

(iv) Where employees wear protective clothing and equipment, clean change rooms shall be provided for the number of such employees required to change clothes, in accordance with § 1910.141(e).

(v) Where toilets are in regulated areas, such toilets shall be in a separate room.

(4) *Contamination control.* (i) Except for outdoor systems, regulated areas shall be maintained under pressure negative with respect to nonregulated areas. Local exhaust ventilation may be used to satisfy this requirement. Clean makeup air in equal volume shall replace air removed.

(ii) Any equipment, material, or other item taken into or removed from a regulated area shall be done so in a manner that does not cause contamination in nonregulated areas or the external environment.

(iii) Decontamination procedures shall be established and implemented to remove carcinogens addressed by this section from the surfaces of materials, equipment, and the decontamination facility.

(iv) Dry sweeping and dry mopping are prohibited for 4-Nitrobiphenyl; alpha-Naphthylamine; 3,3'-Dichlorobenzidine (and its salts); beta-Naphthylamine; Benzidine; 4-Aminodiphenyl; 2-Acetylaminofluorene; 4-Dimethylaminoazo-benzene and N-Nitrosodimethylamine.

(e) *Signs, information and training—*(1) *Signs—*(i) Entrances to regulated areas shall be posted with signs bearing the legend:

CANCER-SUSPECT AGENT  
AUTHORIZED PERSONNEL ONLY

(ii) Entrances to regulated areas containing operations covered in paragraph (c)(5) of this section shall be posted with signs bearing the legend:

CANCER-SUSPECT AGENT EXPOSED  
IN THIS AREA

IMPERVIOUS SUIT INCLUDING  
GLOVES, BOOTS, AND AIR-SUPPLIED  
HOOD REQUIRED AT ALL TIMES  
AUTHORIZED PERSONNEL ONLY

(iii) Appropriate signs and instructions shall be posted at the entrance to, and exit from, regulated areas, informing employees of the procedures that must be followed in entering and leaving a regulated area.

(2) *Container contents identification.* (i) Containers of a carcinogen addressed by this section and containers required under paragraphs (c)(4)(v) and (c)(6) (vii)(B) and (viii)(B) of this section that are accessible only to and handled only by authorized employees, or by other employees trained in accordance with paragraph (e)(5) of this section, may have contents identification limited to a generic or proprietary name or other proprietary identification of the carcinogen and percent.

(ii) Containers of a carcinogen addressed by this section and containers required under paragraphs (c)(4)(v) and (c)(6) (vii)(B) and (viii)(B) of this section that are accessible to or handled by employees other than authorized employees or employees trained in accordance with paragraph (e)(5) of this section shall have contents identification that includes the full chemical name and Chemical Abstracts Service Registry number as listed in paragraph (a)(1) of this section.

(iii) Containers shall have the warning words "CANCER-SUSPECT AGENT" displayed immediately under or adjacent to the contents identification.

(iv) Containers whose contents are carcinogens addressed by this section with corrosive or irritating properties shall have label statements warning of such hazards noting, if appropriate, particularly sensitive or affected portions of the body.

(3) *Lettering.* Lettering on signs and instructions required by paragraph (e)(1) shall be a minimum letter height of 2 inches (5 cm). Labels on containers required under this section shall not be less than one-half the size of the largest lettering on the package, and not less than 8-point type in any instance. *Provided,* That no such required lettering need be more than 1 inch (2.5 cm) in height.

(4) *Prohibited statements.* No statement shall appear on or near any required sign, label, or instruction that contradicts or detracts from the effect of any required warning, information, or instruction.

(5) *Training and indoctrination.* (i) Each employee prior to being authorized

to enter a regulated area, shall receive a training and indoctrination program including, but not necessarily limited to:

(A) The nature of the carcinogenic hazards of a carcinogen addressed by this section, including local and systemic toxicity;

(B) The specific nature of the operation involving a carcinogen addressed by this section that could result in exposure;

(C) The purpose for and application of the medical surveillance program, including, as appropriate, methods of self-examination;

(D) The purpose for and application of decontamination practices and purposes;

(E) The purpose for and significance of emergency practices and procedures;

(F) The employee's specific role in emergency procedures;

(G) Specific information to aid the employee in recognition and evaluation of conditions and situations which may result in the release of a carcinogen addressed by this section;

(H) The purpose for and application of specific first aid procedures and practices;

(I) A review of this section at the employee's first training and indoctrination program and annually thereafter.

(ii) Specific emergency procedures shall be prescribed, and posted, and employees shall be familiarized with their terms, and rehearsed in their application.

(iii) All materials relating to the program shall be provided upon request to authorized representatives of the Assistant Secretary and the Director.

(f) *Reports*—(1) *Operations*. The information required in paragraphs (f)(1)(i) through (iv) of this section shall be reported in writing to the nearest OSHA Area Director. Any changes in such information shall be similarly reported in writing within 15 calendar days of such change:

(i) A brief description and in-plant location of the area(s) regulated and the address of each regulated area;

(ii) The name(s) and other identifying information as to the presence of a carcinogen addressed by this section in each regulated area;

(iii) The number of employees in each regulated area, during normal operations including maintenance activities; and

(iv) The manner in which carcinogens addressed by this section are present in each regulated area; for example, whether it is manufactured, processed, used, repackaged, released, stored, or otherwise handled.

(2) *Incidents*. Incidents that result in the release of a carcinogen addressed by this section into any area where employees may be potentially exposed shall be reported in accordance with this paragraph.

(i) A report of the occurrence of the incident and the facts obtainable at that time including a report on any medical treatment of affected employees shall be made within 24 hours to the nearest OSHA Area Director.

(ii) A written report shall be filed with the nearest OSHA Area Director within 15 calendar days thereafter and shall include:

(A) A specification of the amount of material released, the amount of time involved, and an explanation of the procedure used in determining this figure;

(B) A description of the area involved, and the extent of known and possible employee exposure and area contamination;

(C) A report of any medical treatment of affected employees, and any medical surveillance program implemented; and

(D) An analysis of the circumstances of the incident and measures taken or to be taken, with specific completion dates, to avoid further similar releases.

(g) *Medical surveillance*. At no cost to the employee, a program of medical surveillance shall be established and implemented for employees considered for assignment to enter regulated areas, and for authorized employees.

(1) *Examinations*. (i) Before an employee is assigned to enter a regulated area, a preassignment physical examination by a physician shall be provided. The examination shall include the personal history of the employee, family and occupational background, including genetic and environmental factors.

(ii) Authorized employees shall be provided periodic physical examinations, not less often than annually, following the preassignment examination.

(iii) In all physical examinations, the examining physician shall consider whether there exist conditions of increased risk, including reduced immunological competence, those undergoing treatment with steroids or cytotoxic agents, pregnancy, and cigarette smoking.

(2) *Records*. (i) Employers of employees examined pursuant to this paragraph shall cause to be maintained complete and accurate records of all such medical examinations. Records shall be maintained for the duration of the employee's employment. Upon termination of the employee's employment, including retirement or

death, or in the event that the employer ceases business without a successor, records, or notarized true copies thereof, shall be forwarded by registered mail to the Director.

(ii) Records required by this paragraph shall be provided upon request to employees, designated representatives, and the Assistant Secretary in accordance with 29 CFR 1910.20 (a) through (e) and (g) through (i). These records shall also be provided upon request to the Director.

(iii) Any physician who conducts a medical examination required by this paragraph shall furnish to the employer a statement of the employee's suitability for employment in the specific exposure.

#### §§ 1910.1004–1910.1016 [Amended]

243. In §§ 1910.1004, 1910.1006, 1910.1007, 1910.1008, 1910.1009, 1910.1010, 1910.1011, 1910.1012, 1910.1013, 1910.1014, 1910.1015, and 1910.1016, the text is removed in its entirety and replaced with the following text (below the section heading) in each section: “See § 1910.1003, *13 carcinogens*.”

#### § 1910.1018 [Amended]

244. In § 1910.1018(o)(1)(ii), the phrase “and shall be repeated at least quarterly for employees who have optional use of respirators” is removed.

#### § 1910.1200 [Amended]

245. In § 1910.1200, Appendix C—Information Sources (Advisory) is removed.

#### § 1910.1499 [Removed]

246. Section § 1910.1499 is removed.

#### § 1910.1500 [Removed]

247. Section § 1910.1500 is removed.

### PART 1915—OCCUPATIONAL SAFETY AND HEALTH STANDARDS FOR SHIPYARD EMPLOYMENT

1. The authority citation for part 1915 continues to read as follows:

Authority: Sec. 41, Longshore and Harbor Workers Compensation Act (33 U.S.C. 941); secs. 4, 6, and 8 of the Occupational Safety and Health Act of 1970 (29 U.S.C. 653, 655, and 657); sec. 4 of the Administrative Procedure Act (5 U.S.C. 553); Secretary of Labor's Order No. 12–71 (36 FR 8754), 8–76 (41 FR 25059), 9–83 (48 FR 35736), or 1–90 (55 FR 9033), as applicable; 29 CFR part 1911.

#### Subpart Z—Toxic and Hazardous Substances

2. Section 1915.1003 is revised to read as follows:

**§ 1915.1003 13 Carcinogens.**

(a) Scope and application. (1) This section applies to any area in which the 13 carcinogens addressed by this section are manufactured, processed, repackaged, released, handled, or stored, but shall not apply to transshipment in sealed containers, except for the labeling requirements under paragraphs (e) (2), (3) and (4) of this section. The 13 carcinogens are the following:

4-Nitrobiphenyl, Chemical Abstracts Service Register Number (CAS No.) 92933; alpha-Naphthylamine, CAS No. 134327; methyl chloromethyl ether, CAS No. 107302; 3,3'-Dichlorobenzidine (and its salts) CAS No. 91941; bis-Chloromethyl ether, CAS No. 542881; beta-Naphthylamine, CAS No. 91598; Benzidine, CAS No. 92875; 4-Aminodiphenyl, CAS No. 92671; Ethyleneimine, CAS No. 151564; beta-Propiolactone, CAS No. 57578; 2-Acetylaminofluorene, CAS No. 53963; 4-Dimethylaminoazo-benzene, CAS No. 60117; and N-Nitrosodimethylamine, CAS No. 62759.

(2) This section shall not apply to the following:

(i) Solid or liquid mixtures containing less than 0.1 percent by weight or volume of 4-Nitrobiphenyl; methyl chloromethyl ether; bis-chloromethyl ether; beta-Naphthylamine; benzidine or 4-Aminodiphenyl; and

(ii) Solid or liquid mixtures containing less than 1.0 percent by weight or volume of alpha-Naphthylamine; 3,3'-Dichlorobenzidine (and its salts); Ethyleneimine; beta-Propiolactone; 2-Acetylaminofluorene; 4-Dimethylaminoazobenzene, or N-Nitrosodimethylamine.

(b) *Definitions.* For the purposes of this section:

*Absolute filter* is one capable of retaining 99.97 percent of a mono disperse aerosol of 0.3 µm particles.

*Authorized employee* means an employee whose duties require him to be in the regulated area and who has been specifically assigned by the employer.

*Clean change room* means a room where employees put on clean clothing and/or protective equipment in an environment free of the 13 carcinogens addressed by this section. The clean change room shall be contiguous to and have an entry from a shower room, when the shower room facilities are otherwise required in this section.

*Closed system* means an operation involving a carcinogen addressed by this section where containment prevents the release of the material into regulated areas, non-regulated areas, or the external environment.

*Decontamination* means the inactivation of a carcinogen addressed by this section or its safe disposal.

*Director* means the Director, National Institute for Occupational Safety and Health, or any person directed by him or the Secretary of Health and Human Services to act for the Director.

*Disposal* means the safe removal of the carcinogens addressed by this section from the work environment.

*Emergency* means an unforeseen circumstance or set of circumstances resulting in the release of a carcinogen addressed by this section that may result in exposure to or contact with the material.

*External environment* means any environment external to regulated and nonregulated areas.

*Isolated system* means a fully enclosed structure other than the vessel of containment of a carcinogen addressed by this section that is impervious to the passage of the material and would prevent the entry of the carcinogen addressed by this section into regulated areas, nonregulated areas, or the external environment, should leakage or spillage from the vessel of containment occur.

*Laboratory-type hood* is a device enclosed on the three sides and the top and bottom, designed and maintained so as to draw air inward at an average linear face velocity of 150 feet per minute with a minimum of 125 feet per minute; designed, constructed, and maintained in such a way that an operation involving a carcinogen addressed by this section within the hood does not require the insertion of any portion of any employee's body other than his hands and arms.

*Nonregulated area* means any area under the control of the employer where entry and exit is neither restricted nor controlled.

*Open-vessel system* means an operation involving a carcinogen addressed by this section in an open vessel that is not in an isolated system, a laboratory-type hood, nor in any other system affording equivalent protection against the entry of the material into regulated areas, non-regulated areas, or the external environment.

*Protective clothing* means clothing designed to protect an employee against contact with or exposure to a carcinogen addressed by this section.

*Regulated area* means an area where entry and exit is restricted and controlled.

(c) *Requirements for areas containing a carcinogen addressed by this section.* A regulated area shall be established by an employer where a carcinogen addressed by this section is

manufactured, processed, used, repackaged, released, handled or stored. All such areas shall be controlled in accordance with the requirements for the following category or categories describing the operation involved:

(1) *Isolated systems.* Employees working with a carcinogen addressed by this section within an isolated system such as a "glove box" shall wash their hands and arms upon completion of the assigned task and before engaging in other activities not associated with the isolated system.

(2) *Closed system operation.* (i) Within regulated areas where the carcinogens addressed by this section are stored in sealed containers, or contained in a closed system, including piping systems, with any sample ports or openings closed while the carcinogens addressed by this section are contained within, access shall be restricted to authorized employees only.

(ii) Employees exposed to 4-Nitrobiphenyl; alpha-Naphthylamine; 3,3'-Dichlorobenzidine (and its salts); beta-Naphthylamine; benzidine; 4-Aminodiphenyl; 2-Acetylaminofluorene; 4-Dimethylaminoazo-benzene; and N-Nitrosodimethylamine shall be required to wash hands, forearms, face, and neck upon each exit from the regulated areas, close to the point of exit, and before engaging in other activities.

(3) *Open-vessel system operations.* Open-vessel system operations as defined in paragraph (b)(13) of this section are prohibited.

(4) *Transfer from a closed system, charging or discharging point operations, or otherwise opening a closed system.* In operations involving "laboratory-type hoods," or in locations where the carcinogens addressed by this section are contained in an otherwise "closed system", but is transferred, charged, or discharged into other normally closed containers, the provisions of this paragraph shall apply.

(i) Access shall be restricted to authorized employees only.

(ii) Each operation shall be provided with continuous local exhaust ventilation so that air movement is always from ordinary work areas to the operation. Exhaust air shall not be discharged to regulated areas, nonregulated areas or the external environment unless decontaminated. Clean makeup air shall be introduced in sufficient volume to maintain the correct operation of the local exhaust system.

(iii) Employees shall be provided with, and required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and

pants), shoe covers and gloves prior to entering the regulated area.

(iv) Employees engaged in handling operations involving the carcinogens addressed by this section shall be provided with and required to wear and use a half-face, filter-type respirator for dusts, mists, and fumes, in accordance with § 1910.134. A respirator affording higher levels of protection may be substituted.

(v) Prior to each exit from a regulated area, employees shall be required to remove and leave protective clothing and equipment at the point of exit and at the last exit of the day, to place used clothing and equipment in impervious containers at the point of exit for purposes of decontamination or disposal. The contents of such impervious containers shall be identified, as required under paragraphs (e) (2), (3), and (4) of this section.

(vi) Drinking fountains are prohibited in the regulated area.

(vii) Employees shall be required to wash hands, forearms, face, and neck on each exit from the regulated area, close to the point of exit, and before engaging in other activities and employees exposed to 4-Nitrobiphenyl; alpha-Naphthylamine; 3,3'-Dichlorobenzidine (and its salts); beta-Naphthylamine; Benzidine; 4-Aminodiphenyl; 2-Acetylaminofluorene; 4-Dimethylaminoazo-benzene; and N-Nitrosodimethylamine shall be required to shower after the last exit of the day.

(5) *Maintenance and decontamination activities.* In cleanup of leaks of spills, maintenance, or repair operations on contaminated systems or equipment, or any operations involving work in an area where direct contact with a carcinogen addressed by this section could result, each authorized employee entering that area shall:

(i) Be provided with and required to wear clean, impervious garments, including gloves, boots, and continuous-air supplied hood in accordance with § 1910.134;

(ii) Be decontaminated before removing the protective garments and hood;

(iii) Be required to shower upon removing the protective garments and hood.

(d) *General regulated area requirements—(1)* [Reserved]

(2) *Emergencies.* In an emergency, immediate measures including, but not limited to, the requirements of paragraphs (d)(2) (i) through (v) of this section shall be implemented.

(i) The potentially affected area shall be evacuated as soon as the emergency has been determined.

(ii) Hazardous conditions created by the emergency shall be eliminated and the potentially affected area shall be decontaminated prior to the resumption of normal operations.

(iii) Special medical surveillance by a physician shall be instituted within 24 hours for employees present in the potentially affected area at the time of the emergency. A report of the medical surveillance and any treatment shall be included in the incident report, in accordance with paragraph (f)(2) of this section.

(iv) Where an employee has a known contact with a carcinogen addressed by this section, such employee shall be required to shower as soon as possible, unless contraindicated by physical injuries.

(v) An incident report on the emergency shall be reported as provided in paragraph (f)(2) of this section.

(vi) Emergency deluge showers and eyewash fountains supplied with running potable water shall be located near, within sight of, and on the same level with locations where a direct exposure to Ethyleneimine or beta-Propiolactone only would be most likely as a result of equipment failure or improper work practice.

(3) *Hygiene facilities and practices.* (i) Storage or consumption of food, storage or use of containers of beverages, storage or application of cosmetics, smoking, storage of smoking materials, tobacco products or other products for chewing, or the chewing of such products are prohibited in regulated areas.

(ii) Where employees are required by this section to wash, washing facilities shall be provided in accordance with § 1910.141(d) (1) and (2) (ii) through (vii).

(iii) Where employees are required by this section to shower, shower facilities shall be provided in accordance with § 1910.141(d)(3).

(iv) Where employees wear protective clothing and equipment, clean change rooms shall be provided for the number of such employees required to change clothes, in accordance with § 1910.141(e).

(v) Where toilets are in regulated areas, such toilets shall be in a separate room.

(4) *Contamination control.* (i) Except for outdoor systems, regulated areas shall be maintained under pressure negative with respect to nonregulated areas. Local exhaust ventilation may be used to satisfy this requirement. Clean makeup air in equal volume shall replace air removed.

(ii) Any equipment, material, or other item taken into or removed from a regulated area shall be done so in a

manner that does not cause contamination in nonregulated areas or the external environment.

(iii) Decontamination procedures shall be established and implemented to remove carcinogens addressed by this section from the surfaces of materials, equipment, and the decontamination facility.

(iv) Dry sweeping and dry mopping are prohibited for 4-Nitrobiphenyl; alpha-Naphthylamine; 3,3'-Dichlorobenzidine (and its salts); beta-Naphthylamine; Benzidine; 4-Aminodiphenyl; 2-Acetylaminofluorene; 4-Dimethylaminoazo-benzene and N-Nitrosodimethylamine.

(e) *Signs, information and training—*  
(1) *Signs—*(i) Entrances to regulated areas shall be posted with signs bearing the legend:

CANCER-SUSPECT AGENT

AUTHORIZED PERSONNEL ONLY

(ii) Entrances to regulated areas containing operations covered in paragraph (c)(5) of this section shall be posted with signs bearing the legend:

CANCER-SUSPECT AGENT EXPOSED  
IN THIS AREA

IMPERVIOUS SUIT INCLUDING  
GLOVES, BOOTS, AND AIR-SUPPLIED  
HOOD REQUIRED AT ALL TIMES

AUTHORIZED PERSONNEL ONLY

(iii) Appropriate signs and instructions shall be posted at the entrance to, and exit from, regulated areas, informing employees of the procedures that must be followed in entering and leaving a regulated area.

(2) *Container contents identification.*  
(i) Containers of a carcinogen addressed by this section and containers required under paragraphs (c)(4)(v) and (c)(6) (vii)(B) and (viii)(B) of this section that are accessible only to and handled only by authorized employees, or by other employees trained in accordance with paragraph (e)(5) of this section, may have contents identification limited to a generic or proprietary name or other proprietary identification of the carcinogen and percent.

(ii) Containers of a carcinogen addressed by this section and containers required under paragraphs (c)(4)(v) and (c)(6) (vii)(B), and (viii)(B) of this section that are accessible to or handled by employees other than authorized employees or employees trained in accordance with paragraph (e)(5) of this section shall have contents identification that includes the full chemical name and Chemical Abstracts Service Registry number as listed in paragraph (a)(1) of this section.

(iii) Containers shall have the warning words "CANCER-SUSPECT AGENT" displayed immediately under or adjacent to the contents identification.

(iv) Containers whose contents are carcinogens addressed by this section with corrosive or irritating properties shall have label statements warning of such hazards noting, if appropriate, particularly sensitive or affected portions of the body.

(3) *Lettering.* Lettering on signs and instructions required by paragraph (e)(1) shall be a minimum letter height of 2 inches (5 cm). Labels on containers required under this section shall not be less than one half the size of the largest lettering on the package, and not less than 8-point type in any instance. *Provided,* That no such required lettering need be more than 1 inch (2.5 cm) in height.

(4) *Prohibited statements.* No statement shall appear on or near any required sign, label, or instruction that contradicts or detracts from the effect of any required warning, information, or instruction.

(5) *Training and indoctrination.* (i) Each employee prior to being authorized to enter a regulated area, shall receive a training and indoctrination program including, but not necessarily limited to:

(A) The nature of the carcinogenic hazards of a carcinogen addressed by this section, including local and systemic toxicity;

(B) The specific nature of the operation involving a carcinogen addressed by this section that could result in exposure;

(C) The purpose for and application of the medical surveillance program, including, as appropriate, methods of self-examination;

(D) The purpose for and application of decontamination practices and purposes;

(E) The purpose for and significance of emergency practices and procedures;

(F) The employee's specific role in emergency procedures;

(G) Specific information to aid the employee in recognition and evaluation of conditions and situations which may result in the release of a carcinogen addressed by this section;

(H) The purpose for and application of specific first aid procedures and practices;

(I) A review of this section at the employee's first training and indoctrination program and annually thereafter.

(ii) Specific emergency procedures shall be prescribed, and posted, and employees shall be familiarized with

their terms, and rehearsed in their application.

(iii) All materials relating to the program shall be provided upon request to authorized representatives of the Assistant Secretary and the Director.

(f) *Reports—(1) Operations.* The information required in paragraphs (f)(1)(i) through (iv) of this section shall be reported in writing to the nearest OSHA Area Director. Any changes in such information shall be similarly reported in writing within 15 calendar days of such change:

(i) A brief description and in-plant location of the area(s) regulated and the address of each regulated area;

(ii) The name(s) and other identifying information as to the presence of a carcinogen addressed by this section in each regulated area;

(iii) The number of employees in each regulated area, during normal operations including maintenance activities; and

(iv) The manner in which carcinogens addressed by this section are present in each regulated area; for example, whether it is manufactured, processed, used, repackaged, released, stored, or otherwise handled.

(2) *Incidents.* Incidents that result in the release of a carcinogen addressed by this section into any area where employees may be potentially exposed shall be reported in accordance with this paragraph.

(i) A report of the occurrence of the incident and the facts obtainable at that time including a report on any medical treatment of affected employees shall be made within 24 hours to the nearest OSHA Area Director.

(ii) A written report shall be filed with the nearest OSHA Area Director within 15 calendar days thereafter and shall include:

(A) A specification of the amount of material released, the amount of time involved, and an explanation of the procedure used in determining this figure;

(B) A description of the area involved, and the extent of known and possible employee exposure and area contamination;

(C) A report of any medical treatment of affected employees, and any medical surveillance program implemented; and

(D) An analysis of the circumstances of the incident and measures taken or to be taken, with specific completion dates, to avoid further similar releases.

(g) *Medical surveillance.* At no cost to the employee, a program of medical surveillance shall be established and implemented for employees considered for assignment to enter regulated areas, and for authorized employees.

(1) *Examinations.* (i) Before an employee is assigned to enter a regulated area, a preassignment physical examination by a physician shall be provided. The examination shall include the personal history of the employee, family and occupational background, including genetic and environmental factors.

(ii) Authorized employees shall be provided periodic physical examinations, not less often than annually, following the preassignment examination.

(iii) In all physical examinations, the examining physician shall consider whether there exist conditions of increased risk, including reduced immunological competence, those undergoing treatment with steroids or cytotoxic agents, pregnancy, and cigarette smoking.

(2) *Records.* (i) Employers of employees examined pursuant to this paragraph shall cause to be maintained complete and accurate records of all such medical examinations. Records shall be maintained for the duration of the employee's employment. Upon termination of the employee's employment, including retirement or death, or in the event that the employer ceases business without a successor, records, or notarized true copies thereof, shall be forwarded by registered mail to the Director.

(ii) Records required by this paragraph shall be provided upon request to employees, designated representatives, and the Assistant Secretary in accordance with 29 CFR 1915.1120 (a) through (e) and (g) through (i). These records shall also be provided upon request to the Director.

(iii) Any physician who conducts a medical examination required by this paragraph shall furnish to the employer a statement of the employee's suitability for employment in the specific exposure.

#### §§ 1915.1004–1915.1016 [Amended]

3. In §§ 1915.1004, 1915.1006, 1915.1007, 1915.1008, 1915.1009, 1915.1010, 1915.1011, 1915.1012, 1915.1013, 1915.1014, 1915.1015, and 1915.1016, the text is removed in its entirety and replaced with the following text (below the section heading) in each section: "See § 1915.1003, *13 carcinogens.*"

### PART 1926—SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION

#### Subpart C—General Safety and Health Standards

1. The authority citation for subpart C continues to read as follows:

Authority: Sec. 107, Contract Work Hours and Safety Standards Act (40 U.S.C. 333); secs. 4, 6, and 8, Occupational Safety and Health Act of 1970 (29 U.S.C. 653, 655, 657); Secretary of Labor's Order No. 12-71 (36 FR 8754), 8-76 (41 FR 25059), or 9-83 (48 FR 35736) as applicable.

2. In § 1926.30, paragraph (b) is revised to read as follows:

**§ 1926.30 Shipbuilding and ship repairing.**

\* \* \* \* \*

(b) *Applicable safety and health standards.* For the purpose of work carried out under this section, the safety and health regulations in part 1915 of this title, Shipyard Employment, shall apply.

**§ 1926.31 [Amended]**

3. In § 1926.31(a)(1), the words "Railway Labor Building" are amended to read "Frances Perkins Building."

4. In § 1926.31(a)(2), a comma is inserted following the words "Health Administration" and the words "1973-74, at page 323" that appear at the end of the paragraph are removed.

**§ 1926.33 [Amended]**

5. In the first sentence of § 1926.33(c)(13)(i), the word "least" is revised to read "latest."

**Subpart D—Occupational Health and Environmental Controls**

6. The authority citation for subpart D continues to read as follows:

Authority: Sec. 107, Contract Work Hours and Safety Standards Act (40 U.S.C. 333); secs. 4, 6, and 8, Occupational Safety and Health Act of 1970 (29 U.S.C. 653, 655, 657); Secretary of Labor's Order No. 12-71 (36 FR 8754), 8-76 (41 FR 25059), 9-83 (48 FR 35736), or 1-90 (55 FR 9033), as applicable.

**§ 1926.55 [Amended]**

7. In Appendix A to § 1926.55, entitled "1970 American Conference of Governmental Industrial Hygienists' Threshold Limit Values of Airborne Contaminants," the following amendments are made to the table of airborne contaminants for construction:

a. Remove the following substances in their entirety: Aluminum (as Al) metal;

barium sulfate; benomyl; bismuth telluride, undoped; calcium hydroxide; calcium silicate; 2-chloro-6-(trichloromethyl) pyridine; clopidol; dicyclopentadienyl iron; mineral wool; perlite; picloram; piperazine dihydrochloride; propionic acid; silicon; 4,4'-thiobis (6-tert, butyl-m-cresol); and zinc stearate.

b. For the following substances, remove the entry in the fourth column (titled mg/m<sup>3</sup> b) in its entirety: Alpha-Alumina; calcium carbonate; cellulose; crag herbicide (Sesone); emery; fibrous glass; glycerin (mist); graphite, synthetic; gypsum; kaolin; limestone; magnesite; marble; pentaerythritol; plaster of Paris; Portland cement; rouge; silicon carbide; starch; sucrose; temephos; tin oxide (as Sn); titanium dioxide; and vegetable oil mist.

c. Entries for chlorine dioxide, methylenedianiline, and propane and cross-references for DDT and DDVP are added (in alphabetical order) to read as follows:

Substance	CAS No. <sup>d</sup>	ppm <sup>a</sup>	mg/m <sup>3</sup> <sup>b</sup>	Designation
Chlorine dioxide	10049-04-4	0.1	0.3	*
DDT, see Dichlorodiphenyltrichloroethane				*
DDVP, see Dichlorvos				*
Methylenedianiline (MDA)	101-77-9			*
Propane	74-98-6	E		*

d. In the entry for butadiene (1,3-butadiene), in the first column ("Substance"), the superscript letter (footnote identifier) "h" is removed.

e. In the entry for cadmium dust fume (as Cd), in the first column ("Substance"), the words "dust fume" are removed, and in the last three columns (for ppm, mg/m<sup>3</sup>, and skin designation) the dashes are removed and the entries are left blank.

f. In the entry for chloroform (Trichloromethane), "(C)" is added to the beginning of the entries for the third and fourth columns (for ppm and mg/m<sup>3</sup>).

g. In the entry for coal tar pitch volatiles \* \* \*, the entry for the second column, CAS No., is amended to read "65996-93-2".

h. Under the substance coke oven emissions, all the entries in the second through fifth columns are removed and left blank.

i. In the entry for cyanides (as CN), the dash in the last column (for skin

designation) is removed and a capital letter "X" is inserted in its place.

j. In the entry for 1,2-Dibromo-3-chloropropane (CBCP), the parenthetical substance name in the first column is corrected to read "(DBCP)"; the dash entry in the fourth column (for mg/m<sup>3</sup>) is removed and left blank; and in the last column (for skin designation), a dash is added.

k. In the entry for 2-Diethylaminoethanol, the dash in the last column (for skin designation) is removed and a capital letter "X" is inserted in its place.

l. In the entry for hydrogen selenide (as Se), "0.2" is added under the fourth column (for mg/m<sup>3</sup>), and a dash is added in the last column (for skin designation).

m. For the entry "lead, inorganic (as Pb)," in the first column for that substance, a semi-colon followed by the words "see 1926.62" is added, and the entries in the third through fifth

columns (for ppm, mg/m<sup>3</sup>, and skin designation) are removed and left blank.

n. In the subentry row "Total particulate" for magnesium oxide fume, the entry "15" from the fourth column headed "(mg/m<sup>3</sup>)" is transposed with the dash entry in the third column headed "(ppm)."

o. In the entry methylene chloride, in the first column, the words "h; see 56 FR 57036" are removed.

p. In the entry for methyl methacrylate, the entry "100" in the last column (for skin designation) is removed and a dash is inserted in its place.

q. In the entry for methyl silicate, "(C)" is added to the beginning of the entries for the third and fourth columns (for ppm and mg/m<sup>3</sup>).

r. In the entries for parathion and picric acid, the dash in the last column (for skin designation) is removed and a capital letter "X" is inserted in its place.

s. In the subentry row "Total dust" for Portland cement, the entry "15" from the third column headed "(ppm)" is

transposed with the dash entry in the fourth column headed "(mg/m<sup>3</sup>)", and the entry "10" in the last column (for skin designation) is removed and a dash is inserted in its place.

t. In the entry for rouge, the dash entry in the third column (for ppm) is removed and left blank.

u. Under the entry for silicates (less than 1% crystalline silica), the dash entries in the second column for the subentries "soapstone, total dust" and "soapstone, respirable dust" for CAS No. are removed and left blank.

v. Under the entry for silicates (less than 1% crystalline silica), for the subentry "talc (containing asbestos)," in the first column for that substance, a semi-colon followed by the words "use asbestos limit; see 1926.58" is added; in addition, the entries in the second through fifth columns are removed and left blank.

w. Under the entry for silicates (less than 1% crystalline silica), for the subentry "tremolite," in the first column for that substance, a comma followed by the words "asbestiform; see 1926.58" is added to the entry; in addition, the entries in the third through fifth columns are removed and left blank.

x. In the entry for styrene, "(C)" is added to the beginning of the entries for the third and fourth columns (for ppm and mg/m<sup>3</sup>), and the entry "50" in the last column (for skin designation) is removed and a dash is inserted in its place.

y. In the entry for toluene, the entry "100" in the last column (for skin designation) is removed and a dash is inserted in its place.

z. In the entry for trimethyl benzene, a dash is inserted in the last column (for skin designation).

aa. In the entry for 2,4,6-Trinitrophenyl, the substance name in the first column is corrected to read "2,4,6-Trinitrophenol".

bb. In the list entitled "Mineral Dusts" that appears at the end of the table (immediately preceding the footnotes to the table), the following parenthetical is added in brackets at the end of the entry for the substance "Inert or Nuisance Particulates: (m)": "[\* Inert or Nuisance Dusts includes all mineral, inorganic, and organic dusts as indicated by examples in TLV's Appendix D]".

cc. Footnote h, which appears at the end of the table, is removed.

#### § 1926.57 [Amended]

8. In § 1926.57(f)(8), the designation "(i)" that appears at the beginning of the first sentence is removed.

9. In § 1926.57(g)(5)(vii), the words "figure D-57.1" at the end of the first

sentence are revised to read "Figure D-57.6".

10. In § 1926.57(g)(5)(viii), the words "figure D-57.2" at the end of the first sentence are revised to read "Figure D 57.7".

11. In § 1926.57(g)(5)(x), the words "figure D-57.3" at the end of the last sentence are revised to read "Figure D-57.8".

12. In § 1926.57(g)(5), the illustrations are amended as follows:

a. The caption "Figure D-57.1—Vertical Spindle Disc Grinder Exhaust Hood and Branch Pipe Connections" is added below the illustration that immediately follows § 1926.57(g)(5)(x).

b. The caption "Figure D-57.2—Standard Grinder Hood" is added below the second illustration following § 1926.57(g)(5)(x) (preceding the table on wheel dimensions).

c. The caption "Figure D-57.3—A Method of Applying an Exhaust Enclosure to Swing-Frame Grinders" and the words "Note: Baffle to reduce front opening as much as possible" are added below the third illustration.

d. The caption "Figure D-57.4" is added below the fourth illustration (preceding the table on Standard Buffing and Polishing Hood).

e. Below the fifth illustration that precedes Table D-57.12, the caption "Figure D-57.5—Cradle Polishing or Grinding Enclosure" and the words "Entry loss = 0.45 velocity pressure for tapered takeoff" are added.

f. Table D-57.12, entitled "Maximum Allowable Size of Containers and Portable Tanks" is removed.

g. Immediately below the sixth illustration, preceding the table, the caption "Figure D-57.6—Horizontal Single-Spindle Disc Grinder Exhaust Hood and Branch Pipe Connections" is added.

h. Below the illustration that follows newly designated Figure D-57.6 and precedes the table, the caption "Figure D-57.7—Horizontal Double-Spindle Disc Grinder Exhaust Hood and Branch Pipe Connections" is added.

i. In the caption for the illustration that appears before the table on Belt width, number "Figure D-57.3" is revised to read "Figure D-57.8" and the words "Entry loss = 0.45 velocity pressure for tapered takeoff" are added immediately below that caption.

13. In § 1926.57(i)(2)(i), the reference "D-57.4" is revised to read "D-4".

14. In Table D-57.12, which appears following § 1926.57(i)(4)(iii)(A)(2), footnote 2 is amended by revising "he" to read "the".

#### Subpart E—Personal Protective and Life Saving Equipment

15. The authority citation for subpart E is revised to read as follows:

Authority: Sec. 107, Contract Work Hours and Safety Standards Act (Construction Safety Act) (40 U.S.C. 333); Secs. 4, 6 and 8, Occupational Safety and Health Act of 1970 (29 U.S.C. 653, 655, 657); Secretary of Labor's Order No. 12-71 (36 FR 8754), 8-76 (41 FR 25059), 9-83 (48 FR 35736), or 1-90 (55 FR 9033), as applicable; and 29 CFR part 1911.

#### § 1926.103 [Amended]

16. In § 1926.103(a)(2), the phrase "approved by the U.S. Bureau of Mines" is revised to read "approved by the Mine Safety and Health Administration and the National Institute for Occupational Safety and Health".

#### Subpart I—Tools—Hand and Power

17. The authority citation for subpart I continues to read as follows:

Authority: Sec. 107, Contract Work Hours and Safety Standards Act (Construction Safety Act) (40 U.S.C. 333); Secs. 4, 6 and 8, Occupational Safety and Health Act of 1970 (29 U.S.C. 653, 655, 657); Secretary of Labor's Order No. 12-71 (36 FR 8754), 8-76 (41 FR 25059), 9-83 (48 FR 35736), or 1-90 (55 FR 9033), as applicable; and 29 CFR part 1911.

18. In § 1926.300(b)(7), the two references that read "paragraphs (b) (3) and (4) of this section" are revised to read "paragraphs (b) (8) and (9) of this section."; the parenthetical at the end of paragraph (b)(7) is revised to read "(See Figures I-1 through I-6.)"; Figures I-1 through I-6 are added at the end of paragraph (b)(7); and paragraphs (b) (8) and (9) are added to read as follows:

#### § 1926.300 General requirements.

\* \* \* \* \*

(b) \* \* \*

(7) \* \* \*

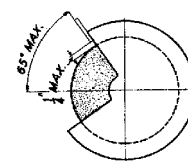


Figure I-1

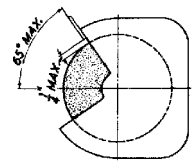


Figure I-2

Correct

Showing adjustable tongue giving required angle protection for all sizes of wheel used.

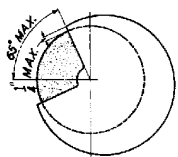


Figure I-3

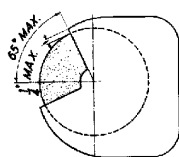


Figure I-4

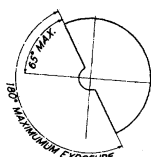


Figure I-11

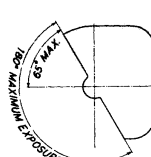


Figure I-12

*Correct*

Showing movable guard with opening small enough to give required protection for the smallest size wheel used.

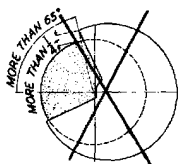


Figure I-5

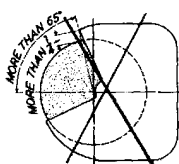


Figure I-6

*Incorrect*

Showing movable guard with size of opening correct for full size wheel but too large for smaller wheel.

(8) *Bench and floor stands.* The angular exposure of the grinding wheel periphery and sides for safety guards used on machines known as bench and floor stands should not exceed 90° or one-fourth of the periphery. This exposure shall begin at a point not more than 65° above the horizontal plane of the wheel spindle. (See Figures I-7 and I-8 and paragraph (b)(7) of this section.)

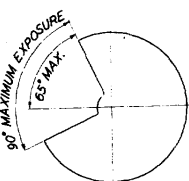


Figure I-7

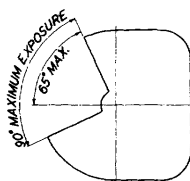


Figure I-8

Wherever the nature of the work requires contact with the wheel below the horizontal plane of the spindle, the exposure shall not exceed 125° (See Figures I-9 and I-10.)

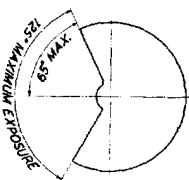


Figure I-9

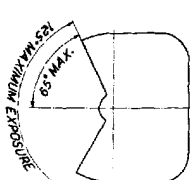


Figure I-10

(9) *Cylindrical grinders.* The maximum angular exposure of the grinding wheel periphery and sides for safety guards used on cylindrical grinding machines shall not exceed 180°. This exposure shall begin at a point not more than 65° above the horizontal plane of the wheel spindle. (See Figures I-11 and I-12 and paragraph (b)(7) of this section.)

**§ 1926.304 [Amended]**

19. In § 1926.304(h)(1), the reference to "paragraph (c)(1) of this section" is revised to read "paragraph (i)(1) of this section".

**Subpart K—Electrical**

20. The authority citation for subpart K is revised to read as follows:

Authority: Sections 6 and 8 of the Occupational Safety and Health Act of 1970 (29 U.S.C. 655 and 657); sec. 107, Contract Work Hours and Safety Standards Act (40 U.S.C. 333); Secretary of Labor's Order No. 9-83 (48 FR 35736) or 1-90 (55 FR 9033), as applicable; 29 CFR part 1911.

**§ 1926.416 [Amended]**

21. In the first sentence of § 1926.416(f)(6), the phrase "circuit protective device, the circuit protective device" is revised to read "circuit protective device."

22. In § 1926.416(g)(2)(iii)(B), "ground)" is revised to read "ground".

23. In § 1926.416(g)(7), the words "such a" that appear at the beginning of the parenthetical phrase in the first sentence are revised to read "such as".

**§ 1926.417 [Amended]**

24. In the note that appears under § 1926.417(d)(1), the words "paragraph (b) of this section" are revised to read "paragraph (d) of this section".

**Subpart W—Rollover Protective Structures; Overhead Protection**

25. The authority citation for subpart W is revised to read as follows:

Authority: Sec. 107, Contract Work Hours and Safety Standards Act (Construction Safety Act), 40 U.S.C. 333; secs. 4, 6, and 8, Occupational Safety and Health Act of 1970 (29 U.S.C. 653, 655, 657); Secretary of Labor's Order No. 12-71 (36 FR 8754), 8-76 (41 FR 25059), 9-83 (48 FR 35736), or 1-90 (55 FR 9033), as applicable.

26. In § 1926.1002, the section heading is revised; paragraphs (c) through (i) are removed and reserved; paragraphs (j)(3) and (k) are removed; and the following new second and third sentences are added after the first sentence in paragraph (a)(1) to read as follows:

**§ 1926.1002 Protective frames (roll-over protective structures, known as ROPS) for wheel-type agricultural and industrial tractors used in construction.**

(a) \* \* \*

(1) \* \* \* These frames shall meet the test and performance requirements of the Society of Automotive Engineers Standard J334a-1970, Protective Frame Test Procedures and Performance Requirements, which is incorporated by reference. The incorporation by reference was approved by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies may be obtained from the Society of Automotive Engineers, 485 Lexington Avenue, New York, NY 10017. Copies may be inspected at the OSHA Docket Office, U.S. Department of Labor, 200 Constitution Ave., NW., Room N2634, or at the Office of the Federal Register, 800 North Capitol St., NW., Suite 700, Washington, D.C. The standard also appears in the 1971 SAE Handbook, which may be examined in each of OSHA's Regional Offices. \* \* \*

27. In § 1926.1003, paragraphs (c) through (g) are removed, the first sentence in paragraph (a)(1) is revised, and four new sentences are added after the first sentence to read as follows:

**§ 1926.1003 Overhead protection for operators of agricultural and industrial tractors.**

(a) *General*—(1) *Purpose.* When overhead protection is provided on wheel-type agricultural and industrial tractors, the overhead protection shall be designed and installed according to the requirements contained in the test and performance requirements of Society of Automotive Engineers Standard J167-1970, Protective Frame with Overhead Protection-Test Procedures and Performance Requirements, which pertains to overhead protection requirements and is incorporated by reference. The incorporation by reference was approved by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies may be obtained from the Society of Automotive Engineers, 485 Lexington Avenue, New York, NY 10017. Copies may be inspected at the OSHA Docket Office, U.S. Department of Labor, 200 Constitution Ave., NW., Room N2634, or at the Office of the Federal Register, 800 North Capitol St., NW., Suite 700, Washington, D.C. The standard also appears in the 1971 SAE Handbook, which may be examined in each of OSHA's Regional Offices. \* \* \*

\* \* \* \* \*



**Subpart Y—Diving**

28. An authority citation for subpart Y is added to read as follows:

Authority: Sections 4, 6, and 8, Occupational Safety and Health Act of 1970 (29 U.S.C. 653, 655, 657); sec. 107, Contract Work Hours and Safety Standards Act (the Construction Safety Act) (40 U.S.C. 333); sec. 41, Longshore and Harbor Workers' Compensation Act (33 U.S.C. 941); Secretary of Labor's Order No. 12-71 (36 FR 8754), 8-76 (41 FR 25059), 9-83 (48 FR 35736), or 1-90 (55 FR 9033), as applicable; 29 CFR part 1911.

**Subpart Z—Toxic and Hazardous Substances**

29. The authority citation for subpart Z of part 1926 is revised to read as follows:

Authority: Sections 6 and 8, Occupational Safety and Health Act of 1970 (29 U.S.C. 655 and 657); Secretary of Labor's Order No. 12-71 (36 FR 8754), 8-76 (41 FR 25059), or 1-90 (55 FR 9033), as applicable.

Section 1926.1102 not issued under 29 U.S.C. 655 or 29 CFR part 1911; also issued under 5 U.S.C. 553.

Section 1926.1103 through 1926.1118, 1926.1128, 1926.1145, 1926.1147, and 1926.1148 are also issued under 29 U.S.C. 653.

30. Section 1926.1103 is revised to read as follows:

**§ 1926.1103 13 Carcinogens.**

(a) *Scope and application.* (1) This section applies to any area in which the 13 carcinogens addressed by this section are manufactured, processed, repackaged, released, handled, or stored, but shall not apply to transshipment in sealed containers, except for the labeling requirements under paragraphs (e) (2), (3) and (4) of this section. The 13 carcinogens are the following:

4-Nitrobiphenyl, Chemical Abstracts Service Register Number (CAS No.) 92933; alpha-Naphthylamine, CAS No. 134327; methyl chloromethyl ether, CAS No. 107302; 3,3'-Dichlorobenzidine (and its salts) CAS No. 91941; bis-Chloromethyl ether, CAS No. 542881; beta-Naphthylamine, CAS No. 91598; Benzidine, CAS No. 92875; 4-Aminodiphenyl, CAS No. 92671; Ethyleneimine, CAS No. 151564; beta-Propiolactone, CAS No. 57578; 2-Acetylaminofluorene, CAS No. 53963; 4-Dimethylaminoazo-benzene, CAS No. 60117; and N-Nitrosodimethylamine, CAS No. 62759.

(2) This section shall not apply to the following:

(i) Solid or liquid mixtures containing less than 0.1 percent by weight or volume of 4-Nitrobiphenyl; methyl chloromethyl ether; bis-chloromethyl

ether; beta-Naphthylamine; benzidine or 4-Aminodiphenyl; and

(ii) Solid or liquid mixtures containing less than 1.0 percent by weight or volume of alpha-Naphthylamine; 3,3'-Dichlorobenzidine (and its salts); Ethyleneimine; beta-Propiolactone; 2-Acetylaminofluorene; 4-Dimethylaminoazobenzene, or N-Nitrosodimethylamine.

(b) *Definitions.* For the purposes of this section:

*Absolute filter* is one capable of retaining 99.97 percent of a mono disperse aerosol of 0.3 μm particles.

*Authorized employee* means an employee whose duties require him to be in the regulated area and who has been specifically assigned by the employer.

*Clean change room* means a room where employees put on clean clothing and/or protective equipment in an environment free of the 13 carcinogens addressed by this section. The clean change room shall be contiguous to and have an entry from a shower room, when the shower room facilities are otherwise required in this section.

*Closed system* means an operation involving a carcinogen addressed by this section where containment prevents the release of the material into regulated areas, non-regulated areas, or the external environment.

*Decontamination* means the inactivation of a carcinogen addressed by this section or its safe disposal.

*Director* means the Director, National Institute for Occupational Safety and Health, or any person directed by him or the Secretary of Health and Human Services to act for the Director.

*Disposal* means the safe removal of the carcinogens addressed by this section from the work environment.

*Emergency* means an unforeseen circumstance or set of circumstances resulting in the release of a carcinogen addressed by this section that may result in exposure to or contact with the material.

*External environment* means any environment external to regulated and nonregulated areas.

*Isolated system* means a fully enclosed structure other than the vessel of containment of a carcinogen addressed by this section that is impervious to the passage of the material and would prevent the entry of the carcinogen addressed by this section into regulated areas, nonregulated areas, or the external environment, should leakage or spillage from the vessel of containment occur.

*Laboratory-type hood* is a device enclosed on the three sides and the top and bottom, designed and maintained so

as to draw air inward at an average linear face velocity of 150 feet per minute with a minimum of 125 feet per minute; designed, constructed, and maintained in such a way that an operation involving a carcinogen addressed by this section within the hood does not require the insertion of any portion of any employee's body other than his hands and arms.

*Nonregulated area* means any area under the control of the employer where entry and exit is neither restricted nor controlled.

*Open-vessel system* means an operation involving a carcinogen addressed by this section in an open vessel that is not in an isolated system, a laboratory-type hood, nor in any other system affording equivalent protection against the entry of the material into regulated areas, non-regulated areas, or the external environment.

*Protective clothing* means clothing designed to protect an employee against contact with or exposure to a carcinogen addressed by this section.

*Regulated area* means an area where entry and exit is restricted and controlled.

(c) *Requirements for areas containing a carcinogen addressed by this section.* A regulated area shall be established by an employer where a carcinogen addressed by this section is manufactured, processed, used, repackaged, released, handled or stored. All such areas shall be controlled in accordance with the requirements for the following category or categories describing the operation involved:

(1) *Isolated systems.* Employees working with a carcinogen addressed by this section within an isolated system such as a "glove box" shall wash their hands and arms upon completion of the assigned task and before engaging in other activities not associated with the isolated system.

(2) *Closed system operation.* (i) Within regulated areas where the carcinogens addressed by this section are stored in sealed containers, or contained in a closed system, including piping systems, with any sample ports or openings closed while the carcinogens addressed by this section are contained within, access shall be restricted to authorized employees only.

(ii) Employees exposed to 4-Nitrobiphenyl; alpha-Naphthylamine; 3,3'-Dichlorobenzidine (and its salts); beta-Naphthylamine; benzidine; 4-Aminodiphenyl; 2-Acetylaminofluorene; 4-Dimethylaminoazo-benzene; and N-Nitrosodimethylamine shall be required to wash hands, forearms, face, and neck upon each exit from the regulated areas,

close to the point of exit, and before engaging in other activities.

(3) *Open-vessel system operations.* Open-vessel system operations as defined in paragraph (b)(13) of this section are prohibited.

(4) *Transfer from a closed system, charging or discharging point operations, or otherwise opening a closed system.* In operations involving "laboratory-type hoods," or in locations where the carcinogens addressed by this section are contained in an otherwise "closed system," but is transferred, charged, or discharged into other normally closed containers, the provisions of this paragraph shall apply.

(i) Access shall be restricted to authorized employees only.

(ii) Each operation shall be provided with continuous local exhaust ventilation so that air movement is always from ordinary work areas to the operation. Exhaust air shall not be discharged to regulated areas, nonregulated areas or the external environment unless decontaminated. Clean makeup air shall be introduced in sufficient volume to maintain the correct operation of the local exhaust system.

(iii) Employees shall be provided with, and required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area.

(iv) Employees engaged in handling operations involving the carcinogens addressed by this section shall be provided with and required to wear and use a half-face, filter-type respirator for dusts, mists, and fumes, in accordance with § 1926.103. A respirator affording higher levels of protection may be substituted.

(v) Prior to each exit from a regulated area, employees shall be required to remove and leave protective clothing and equipment at the point of exit and at the last exit of the day, to place used clothing and equipment in impervious containers at the point of exit for purposes of decontamination or disposal. The contents of such impervious containers shall be identified, as required under paragraphs (e) (2), (3), and (4) of this section.

(vi) Drinking fountains are prohibited in the regulated area.

(vii) Employees shall be required to wash hands, forearms, face, and neck on each exit from the regulated area, close to the point of exit, and before engaging in other activities and employees exposed to 4-Nitrobiphenyl; alpha-Naphthylamine; 3,3'-Dichlorobenzidine (and its salts); beta-Naphthylamine; Benzidine; 4-Aminodiphenyl; 2-

Acetylaminofluorene; 4-imethylaminoazo-benzene; and N-Nitrosodimethylamine shall be required to shower after the last exit of the day.

(5) *Maintenance and decontamination activities.* In cleanup of leaks of spills, maintenance, or repair operations on contaminated systems or equipment, or any operations involving work in an area where direct contact with a carcinogen addressed by this section could result, each authorized employee entering that area shall:

(i) Be provided with and required to wear clean, impervious garments, including gloves, boots, and continuous-air supplied hood in accordance with § 1926.103;

(ii) Be decontaminated before removing the protective garments and hood;

(iii) Be required to shower upon removing the protective garments and hood.

(d) *General regulated area requirements—(1) [Reserved]*

(2) *Emergencies.* In an emergency, immediate measures including, but not limited to, the requirements of paragraphs (d)(2) (i) through (v) of this section shall be implemented.

(i) The potentially affected area shall be evacuated as soon as the emergency has been determined.

(ii) Hazardous conditions created by the emergency shall be eliminated and the potentially affected area shall be decontaminated prior to the resumption of normal operations.

(iii) Special medical surveillance by a physician shall be instituted within 24 hours for employees present in the potentially affected area at the time of the emergency. A report of the medical surveillance and any treatment shall be included in the incident report, in accordance with paragraph (f)(2) of this section.

(iv) Where an employee has a known contact with a carcinogen addressed by this section, such employee shall be required to shower as soon as possible, unless contraindicated by physical injuries.

(v) An incident report on the emergency shall be reported as provided in paragraph (f)(2) of this section.

(vi) Emergency deluge showers and eyewash fountains supplied with running potable water shall be located near, within sight of, and on the same level with locations where a direct exposure to Ethyleneimine or beta-Propiolactone only would be most likely as a result of equipment failure or improper work practice.

(3) *Hygiene facilities and practices.* (i) Storage or consumption of food, storage or use of containers of beverages, storage

or application of cosmetics, smoking, storage of smoking materials, tobacco products or other products for chewing, or the chewing of such products are prohibited in regulated areas.

(ii) Where employees are required by this section to wash, washing facilities shall be provided in accordance with § 1926.51(f) (2) and (3).

(iii) Where employees are required by this section to shower, shower facilities shall be provided in accordance with § 1926.51(f)(4).

(iv) Where employees wear protective clothing and equipment, clean change rooms shall be provided for the number of such employees required to change clothes, in accordance with § 1926.51(i).

(v) Where toilets are in regulated areas, such toilets shall be in a separate room.

(4) *Contamination control.* (i) Except for outdoor systems, regulated areas shall be maintained under pressure negative with respect to nonregulated areas. Local exhaust ventilation may be used to satisfy this requirement. Clean makeup air in equal volume shall replace air removed.

(ii) Any equipment, material, or other item taken into or removed from a regulated area shall be done so in a manner that does not cause contamination in nonregulated areas or the external environment.

(iii) Decontamination procedures shall be established and implemented to remove carcinogens addressed by this section from the surfaces of materials, equipment, and the decontamination facility.

(iv) Dry sweeping and dry mopping are prohibited for 4-Nitrobiphenyl; alpha-Naphthylamine; 3,3'-Dichlorobenzidine (and its salts); beta-Naphthylamine; Benzidine; 4-Aminodiphenyl; 2-Acetylaminofluorene; 4-Dimethylaminoazo-benzene and N-Nitrosodimethylamine.

(e) *Signs, information and training—*(1) *Signs—*(i) Entrances to regulated areas shall be posted with signs bearing the legend:

CANCER-SUSPECT AGENT

AUTHORIZED PERSONNEL ONLY

(ii) Entrances to regulated areas containing operations covered in paragraph (c)(5) of this section shall be posted with signs bearing the legend:

**CANCER-SUSPECT AGENT EXPOSED  
IN THIS AREA**

**IMPERVIOUS SUIT INCLUDING  
GLOVES, BOOTS, AND AIR-SUPPLIED  
HOOD REQUIRED AT ALL TIMES  
AUTHORIZED PERSONNEL ONLY**

(iii) Appropriate signs and instructions shall be posted at the entrance to, and exit from, regulated areas, informing employees of the procedures that must be followed in entering and leaving a regulated area.

**(2) Container contents identification.**

(i) Containers of a carcinogen addressed by this section and containers required under paragraphs (c)(4)(v) and (c)(6)(vii)(B) and (viii)(B) of this section that are accessible only to and handled only by authorized employees, or by other employees trained in accordance with paragraph (e)(5) of this section, may have contents identification limited to a generic or proprietary name or other proprietary identification of the carcinogen and percent.

(ii) Containers of a carcinogen addressed by this section and containers required under paragraphs (c)(4)(v) and (c)(6)(vii)(B), and (viii)(B) of this section that are accessible to or handled by employees other than authorized employees or employees trained in accordance with paragraph (e)(5) of this section shall have contents identification that includes the full chemical name and Chemical Abstracts Service Registry number as listed in paragraph (a)(1) of this section.

(iii) Containers shall have the warning words "CANCER-SUSPECT AGENT" displayed immediately under or adjacent to the contents identification.

(iv) Containers whose contents are carcinogens addressed by this section with corrosive or irritating properties shall have label statements warning of such hazards noting, if appropriate, particularly sensitive or affected portions of the body.

(3) **Lettering.** Lettering on signs and instructions required by paragraph (e)(1) of this section shall be a minimum letter height of 2 inches (5 cm). Labels on containers required under this section shall not be less than one half the size of the largest lettering on the package, and not less than 8-point type in any instance. *Provided*, That no such required lettering need be more than 1 inch (2.5 cm) in height.

(4) **Prohibited statements.** No statement shall appear on or near any required sign, label, or instruction that contradicts or detracts from the effect of any required warning, information, or instruction.

(5) **Training and indoctrination.** (i) Each employee prior to being authorized

to enter a regulated area, shall receive a training and indoctrination program including, but not necessarily limited to:

(A) The nature of the carcinogenic hazards of a carcinogen addressed by this section, including local and systemic toxicity;

(B) The specific nature of the operation involving a carcinogen addressed by this section that could result in exposure;

(C) The purpose for and application of the medical surveillance program, including, as appropriate, methods of self-examination;

(D) The purpose for and application of decontamination practices and purposes;

(E) The purpose for and significance of emergency practices and procedures;

(F) The employee's specific role in emergency procedures;

(G) Specific information to aid the employee in recognition and evaluation of conditions and situations which may result in the release of a carcinogen addressed by this section;

(H) The purpose for and application of specific first aid procedures and practices;

(I) A review of this section at the employee's first training and indoctrination program and annually thereafter.

(ii) Specific emergency procedures shall be prescribed, and posted, and employees shall be familiarized with their terms, and rehearsed in their application.

(iii) All materials relating to the program shall be provided upon request to authorized representatives of the Assistant Secretary and the Director.

(f) **Reports—(1) Operations.** The information required in paragraphs (f)(1)(i) through (iv) of this section shall be reported in writing to the nearest OSHA Area Director. Any changes in such information shall be similarly reported in writing within 15 calendar days of such change:

(i) A brief description and in-plant location of the area(s) regulated and the address of each regulated area;

(ii) The name(s) and other identifying information as to the presence of a carcinogen addressed by this section in each regulated area;

(iii) The number of employees in each regulated area, during normal operations including maintenance activities; and

(iv) The manner in which carcinogens addressed by this section are present in each regulated area; for example, whether it is manufactured, processed, used, repackaged, released, stored, or otherwise handled.

(2) **Incidents.** Incidents that result in the release of a carcinogen addressed by this section into any area where employees may be potentially exposed shall be reported in accordance with this paragraph.

(i) A report of the occurrence of the incident and the facts obtainable at that time including a report on any medical treatment of affected employees shall be made within 24 hours to the nearest OSHA Area Director.

(ii) A written report shall be filed with the nearest OSHA Area Director within 15 calendar days thereafter and shall include:

(A) A specification of the amount of material released, the amount of time involved, and an explanation of the procedure used in determining this figure;

(B) A description of the area involved, and the extent of known and possible employee exposure and area contamination;

(C) A report of any medical treatment of affected employees, and any medical surveillance program implemented; and

(D) An analysis of the circumstances of the incident and measures taken or to be taken, with specific completion dates, to avoid further similar releases.

(g) **Medical surveillance.** At no cost to the employee, a program of medical surveillance shall be established and implemented for employees considered for assignment to enter regulated areas, and for authorized employees.

(1) **Examinations.** (i) Before an employee is assigned to enter a regulated area, a preassignment physical examination by a physician shall be provided. The examination shall include the personal history of the employee, family and occupational background, including genetic and environmental factors.

(ii) Authorized employees shall be provided periodic physical examinations, not less often than annually, following the preassignment examination.

(iii) In all physical examinations, the examining physician shall consider whether there exist conditions of increased risk, including reduced immunological competence, those undergoing treatment with steroids or cytotoxic agents, pregnancy, and cigarette smoking.

(2) **Records.** (i) Employers of employees examined pursuant to this paragraph shall cause to be maintained complete and accurate records of all such medical examinations. Records shall be maintained for the duration of the employee's employment. Upon termination of the employee's employment, including retirement or

death, or in the event that the employer ceases business without a successor, records, or notarized true copies thereof, shall be forwarded by registered mail to the Director.

(ii) Records required by this paragraph shall be provided upon request to employees, designated representatives, and the Assistant Secretary in accordance with 29 CFR 1926.33 (a) through (e) and (g) through (i). These records shall also be provided upon request to the Director.

(iii) Any physician who conducts a medical examination required by this paragraph shall furnish to the employer a statement of the employee's suitability for employment in the specific exposure.

#### §§ 1926.1104–1926.1116 [Amended]

31. In §§ 1926.1104, 1926.1106, 1926.1107, 1926.1108, 1926.1109, 1926.1110, 1926.1111, 1926.1112, 1926.1113, 1926.1114, 1926.1115, and 1926.1116, the text is removed in its entirety and replaced with the following text (below the section heading) in each section: "See § 1926.1103, *13 carcinogens.*"

#### Appendix A to Part 1926—[Amended]

32. In Appendix A to part 1926, the entry in the first column for new "§ 1926.250(d)" is revised to read "§ 1926.250(d) (1)–(4)" and the corresponding entry in the second column opposite that entry is revised to read "§ 1910.30(a) (1), (2), (4), and (5)".

33. In Appendix A to part 1926, the entry "[Do.] (8) and (9)" is added to the first column underneath the entries for § 1926.300(b) and a corresponding entry, "[Do.] (b) (3) and (4)" is added to the second column opposite that entry.

34. In appendix A to part 1926, the entry in the first column for new § 1926.416(f) that reads "[Do.] (7)–(10)" is revised to read "[Do.] (7)–(9)" and a new entry in the first column for § 1926.416(f) that reads "[Do.] (10)" is added along with a corresponding entry in the second column opposite that entry that reads "[Do.] (d)".

### PART 1928—OCCUPATIONAL SAFETY AND HEALTH STANDARDS FOR AGRICULTURE

1. The authority citation for part 1928 continues to read as follows:

Authority: Sections 4, 6, and 8, Occupational Safety and Health Act of 1970 (29 U.S.C. 653, 655, 657); Secretary of Labor's Order No. 12–71 (36 FR 8754), 8–76 (41 FR 25059), 9–83 (48 FR 35736), or 1–90 (55 FR 9033), as applicable.

#### Subpart B—Applicability of standards

2. In § 1928.21, a new paragraph (a)(6) is added to read as follows:

#### § 1928.21 Applicable standards in 29 CFR part 1910.

(a) \* \* \*  
\* \* \* \* \*  
(6) Cadmium—§ 1910.1027.  
\* \* \* \* \*

#### Subpart C—Rollover Protective Structures

3. In § 1928.51, footnote 1 in paragraph (b)(2)(ii) introductory text is redesignated as footnote 2, and paragraph (b)(1) is revised to read as follows:

#### § 1928.51 Roll-over protective structures (ROPS) for tractors used in agricultural operations.

\* \* \* \* \*  
(b) \* \* \*  
(1) *Roll-over protective structures (ROPS)*. A roll-over protective structures (ROPS) shall be provided by the employer for each tractor operated by an employee. Except as provided in paragraph (b)(5) of this section, ROPS used on wheel-type tractors shall meet the test and performance requirements of the American Society of Agricultural Engineers Standard (ASAE) Standard S306.3–1974 entitled "Protective Frame for Agricultural Tractors—Test Procedures and Performance Requirements" and Society of Automotive Engineers (SAE) Standard J334–1970, entitled "Protective Frame Test Procedures and Performance Requirements" (formerly codified in 29 CFR 1928.52); or ASAE Standard S336.1–1974, entitled "Protective Enclosures for Agricultural Tractors—Test Procedures and Performance

Requirements" and SAE J168–1970, entitled "Protective Enclosures—Test Procedures and Performance Requirements" (formerly codified in 29 CFR 1928.53)<sup>1</sup>; or § 1926.1002 of OSHA's construction standards. These ASAE and SAE standards are incorporated by reference and have been approved by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies may be obtained from either the American Society of Agricultural Engineers Standard, 2950 Niles Road, Post Office Box 229, St. Joseph, MI 49085, or the Society of Automotive Engineers, 485 Lexington Avenue, New York, NY 10017. Copies may be inspected at the OSHA Docket Office, U.S. Department of Labor, 200 Constitution Ave., NW., Room N2634, or at the Office of the Federal Register, 800 North Capitol St., NW., Suite 700, Washington, D.C. ROPS used on track-type tractors shall meet the test and performance requirements of § 1926.1001 of this title.

#### §§ 1928.52–1928.53 [Removed]

4. Sections 1928.52 and 1928.53 are removed.

#### Appendix B to Subpart C of Part 1928

5. Appendix B to subpart C of part 1928 is removed.

#### Subpart M—Occupational Health

6. Section 1928.1027 is revised to read as follows:

#### § 1928.1027 Cadmium.

See § 1910.1027, *Cadmium*.

#### PART 1950—[REMOVED]

1. Part 1950 is removed.

#### PART 1951—[REMOVED]

1. Part 1951 is removed.

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<sup>1</sup> In March 1977, the American Society of Agricultural Engineers merged S306 and S336, along with Standard 305, entitled "Operator Protection for Wheel Type Agricultural Tractors," into ASAE S383, which addresses ROPS for wheeled agricultural tractors.