

DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS

DIRECTOR'S OFFICE

GENERAL INDUSTRY SAFETY STANDARDS

Filed with the Secretary of State on August 5, 2014

These rules become effective immediately upon filing with the Secretary of State unless adopted under section 33, 44, or 45a(6) of 1969 PA 306.

Rules adopted under these sections become effective 7 days after filing with the Secretary of State.

(By authority conferred on the director of the department of licensing and regulatory affairs by sections 16 and 21 of 1974 PA 154, MCL 408.1016 and 408.1021, and Executive Reorganization Order Nos. 1996-2, 2003-18 2003-1, 2008-4, and 2011-4, MCL 408.1016, 408.1021, 445.2001, 445.2011, 445.2025, and 445.2030)

R 408.19401, R 408.19403, and R 408.19405 of the Michigan Administrative Code are added, and Occupational Health Rules 3403, 3504 and 5002 are rescinded, as follows:

PART 94 TEXTILES

R 408.19401 Scope.

Rule 9401. These rules apply to the design, installation, processes, operation and maintenance of textile machinery, equipment, and other plant facilities in all plants engaged in the manufacture and processing of textiles, except those processes used exclusively in the manufacture of synthetic fibers.

R 408.19403 Adoption by reference of federal standards.

Rule 9403. (1) The federal occupational safety and health administration's (OSHA) regulations on Textiles promulgated by the United States department of labor codified 29 C.F.R. §1910.262, "Textiles," as amended June 18, 1998 is adopted by reference in these rules.

(2) As of the effective date of these rules, §1910.23, Guarding floor and wall openings and holes, means General Industry Safety Standard Part 2 "Floor and Wall Openings, Stairways, and Skylights."

(3) As of the effective date of these rules, §1910.132, "Personal protective equipment," and §1910.133, "Eye and face protection," means General Industry Safety Standard Part 33 "Personal Protective Equipment."

(4) As of the effective date of these rules, §1910.134, "Respiratory Protection," means Occupational Health Standard Part 451 "Respiratory Protection."

(5) As of the effective date of these rules, §1910.264, "Laundry machinery and operations," means General Industry Safety Standard Part 71 "Laundry and Dry Cleaning Machinery and Operations."

R 408.19405 Adopted and referenced standards.

Rule 9405. (1) The OSHA regulation adopted by reference in these rules is available from the United States Department of Labor, Occupational Safety and Health Administration, 315 West Allegan, Room 315, Lansing, Michigan, 48917, or via the internet at website www.osha.gov, at no charge as of the time of adoption of these rules.

(2) The following standards are adopted by reference in these rules and are available from IHS Global, 15 Inverness Way East, Englewood, Colorado, 80112, USA, telephone number: 1-800-854-7179 or via the internet at website: <http://global.ihs.com>; at a cost as of the time of adoption of these rules, as stated in this subrule.

(a) ANSI Standard Z9.2 "Fundamentals Governing The Design and Operation of Local Exhaust Ventilation Systems," 1960 edition. Cost \$32.00.

(b) American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section VIII, "Unfired Pressure Vessels," 1968 edition. Cost: \$514.00.

(3) The standards adopted in subrules (1) and (2) of this rule are also available for inspection at the Department of Licensing and Regulatory Affairs, MIOSHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, Michigan, 48909-8143.

(4) Copies of the standards adopted in subrules (1) and (2) of this rule may be obtained from the publisher or may also be obtained from the Department of Licensing and Regulatory Affairs, MIOSHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, Michigan, 48909-8143, at the cost charged in this rule, plus \$20.00 for shipping and handling.

(5) The following Michigan occupational safety and health standards are referenced in these rules. Up to 5 copies of these standards may be obtained at no charge from the Michigan Department of licensing and regulatory affairs, MIOSHA standards section, 7150 Harris Drive, P.O. Box 30643, Lansing, MI, 48909-8143 or via the internet at website: www.michigan.gov/mioshastandards. For quantities greater than 5, the cost, at the time of adoption of these rules, is 4 cents per page.

(a) General Industry Safety Standard Part 2 "Floor and Wall Openings, Stairways, and Skylights," R 408.10201 to R 408.10241.

(b) General Industry Safety Standard Part 33 "Personal Protective Equipment," R 408.13301 to R 408.13398.

(c) General Industry Safety Standard Part 71 "Laundry and Dry Cleaning Machinery and Operations," R 408.17101 to R 408.17163.

(d) Occupational Health Standard Part 451 "Respiratory Protection," R 325.60051 to R 325.60052.

Rule 3403 **Rescinded.** ~~Ventilation controls in: Textiles:~~

~~(1) Applicability. This rule applies only to those establishments and processes subject to Rule 5002 and supplements the general occupational health standards pursuant to Rule 1106(3).~~

~~(2) Slashers:~~

~~(a) A "slasher" is a machine used for applying a size mixture to warp yarns. Essentially, it consists of a stand for holding section beams, a size box, one or more cylindrical dryers or an enclosed hot-air dryer, and a beaming end for finding the yarn on the loom beams. [1910.262(b)(34)]~~

~~(b) Cylinder dryers. Cylinder enclosure. When enclosures or hoods are used over cylinder drying rolls, such enclosures or hoods shall be provided with an exhaust system which will effectively prevent wet air and steam from escaping into the workroom. [1910.262(h)(1)(vi)]~~

~~(c) Enclosed hot-air dryer. Dryer enclosure. The dryer enclosure shall be provided with an exhaust system which will effectively prevent wet air and steam from escaping into the workroom. [1910.262(h)(2)(iii)]~~

~~(3) Continuous bleach range (cotton and rayon).~~

~~(a) Ranges (bleaching continuous).~~

~~"Continuous bleaching ranges" are of several types and may be made for cloth in rope or open-width form. The goods, after wetting out, pass through a squeeze roll into a saturator containing a solution of caustic soda and then to an enclosed J-box. A V-shaped arrangement is attached to the front part of the J-box for uniform and rapid saturation of the cloth with steam before it is packed down in the J-box. The cloth, in a single strand rope form, passes over a guide roll down the first arm of the "V" and up the second. Steam is injected into the "V" at the upper end of the second arm so that the cloth is rapidly saturated with steam at this point. The J-box capacity is such that cloth will remain hot for a sufficient time to complete the scouring action. It then passes a series of washers with a squeeze roll in between. The cloth then passes through a second set of saturator, J-box, and washer, where it is treated with the peroxide solution. By slight modification of the form of the unit, the same process can be applied to open-width cloth. [1910.262(b)(29)]~~

~~(b) J-box protection. Each valve controlling the flow of steam, injurious gases, or liquids into a J-box shall be equipped with a chain, lock, and key, so that any worker who enters the J-box can lock the valve and retain the key in his possession. Any other method which will prevent steam, injurious gases, or liquids from entering the J-box while the worker is in it will be acceptable. [1910.262(p)(1)]~~

~~(4) Kiers.~~

~~(a) A "kier" is a large metal vat, usually a pressure type, in which fabrics may be boiled out, bleached, etc. [1910.262(b)(17)]~~

~~(b) Kier valve protection. Each valve controlling the flow of steam, injurious gases, or liquids into a kier shall be equipped with a chain, lock, and key, so that any worker who enters the kier can lock the valve and retain the key in his possession. Any other method which will prevent steam, injurious gases, or liquids from entering the kier while the worker is in it will be acceptable.~~

~~(5) Workroom ventilation. In all workrooms in which potentially toxic substances are used, the maximum allowable concentrations listed in Chapter II shall be maintained. Open-surface tanks shall conform to the requirements of Rule 3220. [1910.262(rr)]~~

Rule 3504 **Rescinded.** ~~Personal Protective Equipment in Textile Operations~~

~~(1) Application. This rule applies only to textile establishments and operations covered by Rule 5002 and supplements the general requirements of Rules 3501 and 3502.~~

~~(2) Personal protective equipment.~~

~~Workers engaged in handling acids or caustics in bulk, repairing pipe lines containing acids or caustics, etc., shall be provided with protective occupational (safety) equipment to conform to the requirements of Rules 3302, 3501 and 3502. [1910.262(qq)(1)]~~

~~(3) Respirators, gas masks, and such appliances, for emergency use only, shall be of a type required by Rules 3302 and 3502. [1910.262(qq)(2)]~~

Rule 5002 **Rescinded.** General requirements in: Textiles

~~(1) Application requirements.~~

~~(a) Application.~~

~~The requirements of this rule for textile safety apply to the design, installation, processes, operation and maintenance of textile machinery, equipment, and other plant facilities in all plants engaged in the manufacture and processing of textiles, except those processes used exclusively in the manufacture of synthetic fibers. [1910.262(a)(1)]~~

~~(b) Standards incorporated by reference.~~

~~Standards covering issues of occupational health which are of general application without regard to any specific industry are incorporated by reference in this rule and made applicable to textiles. All such standards shall be construed according to the rules of construction set out in Rule 1106(3). [1910.262(a)(2)]~~

~~(2) Housekeeping. For specific standards supplementing the general standards for sanitation – see Rule 4201(9).~~

~~(3) Lighting. For specific standards supplementing the general illumination standards – see Rule 4106(2).~~

~~(4) Ventilation. For specific standards supplementing the general ventilation and contaminant control standards – see Rule 3403.~~

~~(5) First aid. For specific information supplementing the general rules of first aid – see Rule 4401(4).~~

~~(6) Personal protective equipment. For specific requirements supplementing the general rules for personal protective equipment – see Rule 3504.~~