

DIRECTOR'S OFFICE ~~BUREAU OF SAFETY AND REGULATION~~

GENERAL INDUSTRY SAFETY STANDARDS COMMISSION

FILED WITH THE SECRETARY OF STATE ON SEPTEMBER 17, 2013

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 general industry safety standards commission** by sections 16 and 21 of ~~1974 PA Act No. 154~~ and **Executive Reorganization Order Nos. 1996-2, 2003-1, 2008-4, and 2011-4, MCL 445.2001, 445.2011, 445.2025, and 445.2030** of the Public Acts of 1974, as amended, being ~~SS408.1016 and 408.1021~~ of the Michigan Compiled Laws)

R 408.12011, R 408.12016, R 408.12021, R 408.12026, and R 408.12043 of the Michigan Administrative Code are amended and R 408.12002 is added to the Code, as follows:

PART 20. UNDERHUNG CRANES AND MONORAIL SYSTEMS

R 408.12002 Adoption of standards by reference.

Rule 2002. (1) The American Society of Mechanical Engineers (ASME) Standard ASME B30.11 "Monorail Systems and Underhung Cranes," 1993 edition, is adopted by reference in these rules and is 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 of \$60.00.

(2) The standard adopted in subrule (1) of this rule is 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.

(3) Copies of the standard adopted in subrule (1) 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.

(4) 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 1 "General Provisions," R 408.10001 to R 408.10098.

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

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

R 408.12011 Underhung cranes and monorail systems; adoption of standards by reference.

~~Rule 2011. An underhung crane or monorail system installed, or that portion modified, after **November 5, 1997**, the effective date of this part shall be in compliance with the requirements of ANSI/ ASME B30.11 -1993 entitled "Monorail Systems and Underhung Cranes," 1993 edition, as adopted in R 408.12002. which are adopted by reference in these rules and which may be inspected at the Lansing office of the department of consumer and industry services. The standard may be purchased at a cost as of the time of adoption of this rule of \$60.00 from the American National Standards Institute, 11 West 42nd Street, New York, New York 10036, or from the Safety Standards Division, Michigan Department of Consumer and Industry Services, 7150 Harris Drive, Box 30643, Lansing, Michigan 48909.~~

R 408.12016 Access, clearances, and barriers.

Rule 2016. (1) Safe access shall be provided to a cab operated crane by a fixed ladder, stairway, or walkway.

(2) Conductors of the open type which are mounted on the crane runway, bridge, or monorail beams or overhead shall be located or guarded so that an operator at the normal operator's position or persons entering or leaving the cab or crane footwalk could not, under normal conditions, come into contact with them.

(3) A catwalk on a crane shall have a standard barrier as prescribed in General Industry Safety Standard Part 2 "Floor and Wall Openings, Stairways, and Skylights," as referenced in R 408.12002. being ~~R 408.10201 to R 408.10241~~ of the

~~Michigan Administrative Code.~~ A floor opening in a crane platform, if equipped with a hinged cover, need not be equipped with a standard barrier. The cover shall be kept closed, except when an employee is entering or leaving the opening.

(4) Safe clearance shall be provided between fixed objects and the monorail system where there is employee exposure.

R 408.12021 Operator selection; cab-operated or pulpit-operated equipment.

Rule 2021. (1) **An employer shall be able to demonstrate that an employee is trained and qualified to operate the equipment prior to authorizing the employee to operate the equipment. A permit system may be used to comply with this rule.** ~~An employee assigned to operate cab-operated or pulpit-operated equipment shall meet all of the following minimum requirements:~~

~~(a) Have corrected vision that meets the same requirements as vision for a valid Michigan driver's license. Evidence of meeting this requirement shall be a Michigan driver's license or a doctor's certificate.~~

~~(b) Have effective use of all 4 limbs. A prosthetic device is considered a limb when capable of being used to effectively operate the controls.~~

~~(c) Be of a height sufficient to operate the controls and to have an unobstructed view over the controls.~~

~~(d) Have coordination between eyes, hands, and feet.~~

~~(e) Have freedom from known convulsive disorders and episodes of unconsciousness for a period of 1 year before being assigned as an operator or for a shorter period of time with the assurance from a neurologist that the disorders or episodes are under control.~~

~~(f) Have the ability to understand signs, labels, and instructions.~~

(2) An employee assigned to operate cab-operated or pulpit-operated equipment shall meet the minimum requirements stated in this rule and shall be retested at least once every 3 years or more often when there is reason to doubt safe operating ability.

~~(3) An employee who is operating cab-operated or pulpit-operated equipment at the effective date of this part but who does not meet the requirements of subrule (1) of this rule may be continued as an operator if the handicap or disability does not prove detrimental to the employee's task.~~

R 408.12026 Personal protective equipment.

Rule 2026. For personal protective equipment requirements, see General Industry Safety Standard Part 33 "Personal Protective Equipment," **as referenced in R 408.12002.** ~~being R 408.13301 et seq. of the Michigan Administrative Code.~~

R 408.12043 Maintenance of equipment: correction of unsafe condition; precautions; returning equipment to normal operation; removing dirt and debris.

Rule 2043. (1) An employer shall maintain a crane, monorail system, and their accessories in a condition that does not endanger an operator or other employee.

(2) Before adjustments or repairs are commenced on a crane or monorail system, all of the following precautions shall be taken:

(a) A crane shall be repaired in a location where it causes the least interference with other moving equipment on the track or rails and operations in the area.

(b) Controllers shall be placed in the "off" position.

(c) Where an employee is working at or near a disabled crane and there is a parallel runway on that side, or where a section of track or runway is being repaired or replaced, and a hazard exists to the employee, the requirements of subrule (3) of this rule apply.

(d) The power to the crane or monorail system shall be locked out in accordance with R 408.10132 of General Industry Safety Standard Part 1 "General Rules," **as referenced in R 408.12002.**

(3) Where any other crane or monorail systems uses the same runway, a protective device shall be used to prevent interference with the idle crane or monorail systems undergoing repairs. Where the protective device is impractical, a signalman shall be placed at a visual vantage point to warn the operator of the active crane or monorail system when it reaches the limit of safe distance from the idle crane.

(4) A crane or monorail equipment that has been adjusted or repaired shall not be returned to normal operation until all guards have been replaced, locks removed, safety devices reactivated, and the maintenance equipment removed.

(5) An accumulation of dirt or debris on a crane or monorail equipment that may create a hazardous condition shall be removed.