

DEPARTMENT OF ~~LABOR AND ECONOMIC GROWTH~~ **LICENSING AND REGULATORY AFFAIRS**

DIRECTOR'S OFFICE

GENERAL INDUSTRY STANDARDS

**FILED WITH THE SECRETARY OF STATE ON MAY 29, 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** ~~labor and economic growth~~ by sections 16 and 21 of 1974 PA 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** ~~No. 1996-2 and 2003-18, MCL 408.1016, 408.1021, 445.2001, and 445.2011~~)

R 408.11807, R 408.11844, R 408.11851 and R 408.11859 of the Michigan Administrative Code are amended as follows:

PART 18. OVERHEAD AND GANTRY CRANES

R 408.11807 Adoption of standards by reference.

Rule 1807. ~~(4)~~ The **following** standards specified in this rule, except for the standards specified in subrule (2) of this rule, are adopted by reference:-

(a) The following standards, ~~which~~ are available from Global Engineering Documents, 15 Inverness Way East, Englewood, Colorado, 80112, USA, telephone number: 1-800-854-7179 or via the internet at web-site:

<http://global.ihs.com>, at a cost as of the time of adoption of these amendments, as stated in this subdivision:

(i) American National Standard Institute Standard ANSI/ASME B30.2, for "Overhead and Gantry Cranes (Top Running Bridge, Single or Multiple Girder, Top Running Trolley Hoist)", 1996 edition. Cost: ~~\$73.00~~ **\$60.00**.

(ii) American National Standards Institute Standard ANSI/ASME B30.2.0, for "Overhead and Gantry Cranes," 1967 edition. Cost: ~~\$40.00~~ **\$60.00**.

(iii) American National Standards Institute Standard ANSI/ASME B30.17, for "Overhead and Gantry Cranes (Top Running Bridge, Single Girder, Underhung Hoist)," 1998 edition. Cost: ~~\$62.00~~ **\$60.00**.

These standards are also available for inspection at, and purchase from, the Michigan Department of **Licensing and Regulatory Affairs** ~~Labor and Economic Growth~~, MIOSHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, Michigan 48909-8143.

(2) Up to 5 copies of the following Michigan Occupational Safety Standards may be obtained at no charge from the Michigan Department of **Licensing and Regulatory Affairs** ~~Labor and Economic Growth~~, MIOSHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, Michigan, 48908-8143 or via the internet at web-site:

[www.michigan.gov/mioshastandards](http://www.michigan.gov/mioshastandards); ~~however~~ **however** ~~F~~for quantities greater than 5, the cost is 4 cents per page:-

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

(b) General Industry Safety Standard Part 3. "Fixed Ladders," ~~being R 408.10301 to R 408.0372 et seq.~~

(c) General Industry Safety Standard Part 7. "Guards for Power Transmission," ~~being R 408.10701 to R 408.10765 et seq.~~

(d) General Industry Safety Standard Part 33. "Personal Protective Equipment," ~~being R 408.13301 to R 408.13398 et seq.~~

(e) General Industry Safety Standard Part 39. "Design Safety Standards for Electrical Systems," ~~being R 408.13901 to R 408.13902 et seq.~~

(f) General Industry Safety Standard Part 40. "Electrical Safety-related Work Practices", ~~being R 408.14001 to R 408.14009 et seq.~~

(g) General Industry Safety Standard Part 49. "Slings," ~~being R 408.14901 to R 408.14965 et seq.~~

(h) General Industry Safety Standard Part 85. "Lockout/Tagout," ~~being R 408.18501 to R 408.18599 et seq.~~

(i) Construction Safety Standard Part 10. "Lifting and Digging Equipment," ~~being R 408.41001a to R 408.41099a et seq.~~

~~(j) Construction Safety Standard Part 45. "Fall Protection," being R 408.44501 et seq.~~

R 408.11844 Equipment.

Rule 1844. (1) Electrical equipment shall be located or enclosed so that live parts will not be exposed to accidental contact under normal operating conditions.

~~(2) Clearances of 2 1/2 feet (762 mm) from electrical equipment shall be maintained in accordance with article 610-57 of the 2002 edition of the "National Electrical Code," which is adopted by reference in R 408.11807.~~

~~(2)~~ **(2)** ~~(3)~~ Electric equipment shall be protected from dirt, grease, oil, and moisture.

**(3)** ~~(4)~~ Guards for live parts shall be substantial and located so that they cannot be accidentally deformed to make contact with live parts.

**(4)** ~~(5)~~ Enclosures for resistors shall have openings to provide adequate ventilation and shall be installed to prevent the accumulation of combustible matter too near to hot parts. Resistor units shall be supported to be free as possible from vibration.

**(5)** ~~(6)~~ The power supply to the runway conductors shall be controlled by a switch or circuit breaker which is located on a fixed structure, which is accessible from the floor, and which is capable of being locked in the open position. A switch or circuit breaker which is of the enclosed type and which is capable of being locked in the open position shall be provided in the leads from the runway conductors on a cab-operated crane. A means of opening the switch or circuit shall be located within reach of the operator. A switch or circuit breaker which is of the enclosed type and which is capable of being locked in the open position shall be provided in the leads from the runway conductors on a floor-operated crane. The disconnect shall be mounted on the bridge or footwalks near the runway conductors. One of the following types of floor-operated disconnects shall be provided:

(i) Nonconductive rope attached to the main switch.

(ii) An under-voltage trip for the main circuit breaker operated by an emergency stop button in the pendant push button in the pendant pushbutton station.

(iii) A main line contactor operated by a switch or pushbutton in the pendant pushbutton station.

**(6)** ~~(7)~~ A crane using a lifting magnet shall have a separate magnet circuit switch which is of the enclosed type and which is capable of being locked in the open position. Means for discharging the inductive load of the magnet shall be provided.

**(7)** ~~(8)~~ Runway conductors of the open type mounted on the crane runway beams or overhead shall be located or guarded so that persons entering or leaving the cab or crane footwalk will not come into contact with them. On the effective date of this rule, open type conductors shall not be installed on cab-operated runway beams.

**(8)** ~~(9)~~ When a service receptacle for an extension lamp is provided in the cab or on the bridge of a cab-operated crane, it shall be a grounded 3-prong type permanent receptacle and shall not be more than 300 volts.

#### R 408.11851 Qualifications.

Rule 1851. **An employer shall be able to demonstrate that an employee is trained and qualified to operate a crane prior to authorizing the employee to operate a crane.** ~~(1) An employee selected to operate a crane shall possess all of the following minimum qualifications and be examined for the qualifications at least once every 3 years:~~

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

~~(b) Have effective use of all 4 limbs.~~

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

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

~~(e) Be free of known convulsive disorders and episodes of unconsciousness.~~

~~(2) An employee assigned to operate a crane shall have the ability to understand signs, labels, and instructions.~~

~~(3) An employee who is operating a crane on the effective date of this part, and who does not meet the requirements of subrules (1)(a), (b), (c), and (d) and (2) of this rule may be continued as an operator if the handicap or disability does not prove detrimental to the task. (Note: the effective date of this part was July 25, 1973).~~

#### R 408.11859 Personal protective equipment.

Rule 1859. (1) An operator and an employee directing a lift shall use the personal protective devices required in the area.

(2) If the top of the load is not lifted to a height of more than 5 feet, then the load is not considered an overhead hazard.

~~(3) An employee performing maintenance on an overhead or gantry crane, where a standard barrier, as prescribed in R 408.11835, or platform is not provided, shall wear an approved safety harness and lanyard, or a fall arrest device as prescribed in construction safety standard, Part 45. "Fall Protection," being R 408.44501, et seq., which is referenced in R 408.11807.~~