

DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS

DIRECTOR'S OFFICE

GENERAL INDUSTRY SAFETY AND HEALTH STANDARD STANDARDS

Filed with the secretary of state on

These rules take effect immediately upon filing with the secretary of state unless adopted under section 33, 44, or 45a(6) of the administrative procedures act of 1969, 1969 PA 306, MCL 24.233, 24.244, or 24.245a. 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 **the Michigan occupational safety and health act**, 1974 PA 154, MCL 408.1016 and 408.1021, and Executive Reorganization Order Nos. 1996-2, 2003-1, 2008-4, and 2011-4, MCL 445.2001, 445.2011, 445.2025, and 445.2030)

R 408.14433, R 408.14436, R 408.14465, and R 408.14493 of the Michigan Administrative Code are amended as follows:

PART 44. FOUNDRIES

R 408.14433 Gangways and aisles.

Rule 4433. (1) A gangway or aisle in which molten metal is being transported **must shall** be clear of obstructions and water.

(2) A gangway **must shall** be not less than 4 feet wide or **must shall** be 3 feet wider than the widest load for which it is used.

(3) A work station **must shall** be not less than 2 feet from aisles and gangways, except when protected by a **guardrail system, in compliance with standard barrier as General Industry Safety and Health Standard Part 2. "Walking-Working Surfaces," being R 408.10201 to R 408.10241** ~~specified in general industry safety standard, Part 2. Floor and Wall Openings, Stairways, and Skylights, being R 408.10201 et seq.,~~ of the Michigan Administrative Code.

(4) Access to and from a work station **must shall** be free of obstructions.

R 408.14436 Metal platforms, ladders, and steps.

Rule 4436. (1) A metal platform **must shall** be provided at a cupola and a furnace for preparation of tap holes, runner spouts, and **slag-holes. slagholes.**

(2) A metal platform and ladder or steps **must shall** be provided at a furnace or oven where employees go on refractory roofs.

(3) A platform used at a crucible or similar type furnace **must shall** be of metal, ~~and~~ not less than 3 feet **wide, and protected in compliance with General Industry Safety and Health Standard Part 2. "Walking-Working Surfaces," being R 408.10201 to R 408.10241** wide. Railings shall be installed according to ~~general industry safety standard, Part 2. Floor and Wall Openings, Stairways, and Skylights, being R 408.10201 et seq.,~~ of the Michigan Administrative Code.

R 408.14465 Molding machine.

Rule 4465. (1) A manually controlled molding machine **must shall** have a 2-hand control, single-stroke mechanism for the squeeze cycle for each operator assigned to the machine. A 2-hand control **must shall** be installed so as to prevent bridging the control buttons and so it can be operated by 2 hands only. A squeezer head ~~that which~~ is so equipped that the operator must hold it in the operating position with one hand and actuate a 1-hand control with the other is acceptable.

(2) The squeezer head of a molding machine **must shall** be positioned so as to avoid a pinch point with the sand chute.

(3) Automatic and semiautomatic molding machines **must shall** be in ~~compliance accordance~~ with **General Industry Safety and Health Standard Part 1. "General Provisions," being R 408.10001 to R 408.10098** ~~rule 34 of general industry safety standard, Part 1. General Rules, being R 408.10034~~ of the Michigan Administrative Code.

R 408.14493 Crucible and similar type furnaces.

Rule 4493. (1) Where a crucible or similar type furnace in a **non-ferrous nonferrous** foundry is at floor level or below floor level, a grating **must shall** cover the opening, or **it must be protected in compliance with a railing shall be installed according to General Industry Safety and Health Standard Part 2. "Walking-Working Surfaces," being R 408.10201 to R 408.10241** ~~general industry safety standard, Part 2. Floor and Wall Openings, Stairways, and Skylights, being R 408.10201 et seq.,~~ of the Michigan Administrative Code.

(2) Where crucible or similar type furnaces are above the floor level, they **must shall** be not less than 3 feet apart.