

DEPARTMENT OF ENERGY, LABOR, AND ECONOMIC GROWTH LICENSING AND REGULATORY AFFAIRS

DIRECTOR'S OFFICE

CONSTRUCTION SAFETY STANDARDS

Filed with the Secretary of State on January 9, 2013

~~These rules take effect immediately upon filing with the Secretary of State~~

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 ~~energy, labor, and economic growth~~ **licensing and regulatory affairs** by sections 19 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** ~~1996-2 and 2003-1, MCL 408.1019, 408.1021, 445.2001, and 445.2014~~)

R 408.41610, R 408.41627, R 408.41633, and R 408.41658 of the Michigan Administrative Code are amended as follows:

PART 16. POWER TRANSMISSION AND DISTRIBUTION

R 408.41610 Adoption of Standards by Reference.

Rule 1610. (1) The following standards are adopted by reference in these rules and are available from Global Engineering Documents, 15 Inverness Way East, Englewood, Colorado, 80112, telephone number 1-800-854-7179, website: www.global.ihs.com, at a cost as of the time of adoption of these rules, as stated in this rule:

- (a) American Society of Testing and Materials standard ASTM D-120, Standard Specification for Rubber Insulating Gloves, 1977 edition. Cost: ~~\$54.00~~ **\$64.00**.
- (b) American Society of Testing and Materials standard ASTM D-178, Standard Specification for Rubber Insulating Matting, 2004 edition. Cost: ~~\$37.00~~ **\$56.00**.
- (c) American Society of Testing and Materials standard ASTM D-1048, Standard Specification for Rubber Insulating Blankets, 1977 edition. Cost: ~~\$46.00~~ **\$56.00**.
- (d) American Society of Testing and Materials standard ASTM D-1049 Standard Specification for Rubber Insulating Covers, 2004 edition. Cost: ~~\$37.00~~ **\$56.00**.
- (e) American Society of Testing and Materials standard ASTM D-1050 Standard Specification for Rubber Insulating Line Hose, 2005 edition. Cost: ~~\$37.00~~ **\$56.00**.
- (f) American Society of Testing and Materials standard ASTM D-1051 Standard Specification for Rubber Insulating Sleeves, 2002 edition. Cost: ~~\$37.00~~ **\$56.00**.
- (g) American Society of Testing and Materials standard ASTM F-496 Standard Specifications for In-Service Care of Insulating Gloves and Sleeves, 2004 edition. Cost: ~~\$37.00~~ **\$56.00**.
- ~~(h) American National Standard Institute standard ANSI Z89-2 Industrial Protective Helmets for Electrical Workers, 1971 edition. Cost: \$25.00.~~
- (h) (i)** American Society of Testing and Materials standard ASTM B-117 Standard Method of Salt Spray (Fog) Testing, 1979 edition. Cost: ~~\$40.00~~ **\$49.00**.

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

(2) 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** ~~Labor and Economic Growth~~, MIOSHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, Michigan, 48909-8143 or via the internet at website: www.michigan.gov/mioshastandards. For quantities greater than 5, the cost, as of the time of adoption of these rules, is 4 cents per page.

- (a) **Construction safety standard** Part 6 Personal Protective Equipment, R 408.40601 to R 408.40641 ~~et seq.~~
- (b) **Construction safety standard** Part 8 Handling and Storage of Materials, being R 408.40801 to R 408.40841 ~~et seq.~~
- (c) **Construction safety standard** Part 9 Excavation, Trenching, and Shoring, being R 408.40901 to R 408.40953 ~~et seq.~~
- (d) **Construction safety standard** Part 10 Lifting and Digging Equipment, R 408.41001 to R 408.41099 ~~et seq.~~
- (e) **Construction safety standard** Part 11 Fixed and Portable Ladders, being R 408.41101 to R 408.41140 ~~et seq.~~
- (f) **Construction safety standard** Part 13 Mobile Equipment, R 408.41301 ~~et seq.~~
- (g) **Construction safety standard** Part 18 Fire Protection and Prevention, being R 408.41801 to R 408.41884 ~~et seq.~~
- (h) **Construction safety standard** Part 19 Tools, R 408.41901 to R 408.41980 ~~et seq.~~
- (i) **Construction safety standard** Part 22 Signals, Signs, Tags, and Barricades, R 408.42201 to R 408.42243 ~~et seq.~~

June 19, 2012

(j) **Construction safety standard** Part 32 Aerial Work Platforms, R 408.43201 to **R 408.43220** et seq.

(k) **Construction safety standard** Part 45 Fall Protection, R 408.44501 to **R 408.44502** et seq.

(l) **General industry safety standards Part 59 Helicopters, R 408.15901 to R 408.15931.**

R 408.41627 Clearances.

Rule 1627. (1) The following provisions of subdivision (a), (b), or (c) of this subrule shall be observed:

(a) An employee shall not be permitted to approach or take any conductive object without an approved insulating handle closer to exposed energized parts than shown in table 1, unless 1 of the following is complied with:

(i) The employee is insulated or guarded from the energized part. Gloves or gloves with sleeves rated for the voltage involved, which are provided for pursuant to construction safety standard Part 6 Personal Protective Equipment, R 408.40617 and ~~R 408.40641~~ **R 408.41632 of this standard**, shall be considered insulation of the employee from the energized part. The work method on parts energized above 5,000 volts phase to ground shall be with rubber gloves and sleeves out of an insulated bucket, by the use of hot line tools, or with rubber gloves and sleeves in conjunction with a factory-made and approved insulated platform that provides a method of belting off other than to the pole or structure. This rule does not apply to the bare-hand technique.

(ii) The energized part is insulated or guarded from the employee and any other conductive object at a different potential.

(iii) The employee is isolated, insulated, or guarded from any other conductive object, as during live-line, bare-hand work.

(b) The minimum working distance and minimum clear hot stick distances stated in table 1 shall not be violated. The minimum clear hot stick distance is that for the use of live-line tools held by linemen when performing live-line work.

(c) Conductor support tools, such as line sticks, strain carriers, and insulator cradles, may be used provided that the clear insulation is at least as long as the insulator string or the minimum distance specified in table 1 for the operating voltage.

(2) Table 1 reads as follows:

Voltage Range (Phase to Phase) Kilovolt	Minimum Working and Clear Hot Stick Distance
2.1 to 15	2 ft. 0 in.
15.1 to 35	2 ft. 4 in.
35.1 to 46	2 ft. 6 in.
46.1 to 72.5	3 ft. 0 in.
72.6 to 121	3 ft. 4 in.
138 to 145	3 ft. 6 in.
161 to 169	3 ft. 8 in.
230 to 242	5 ft. 0 in.
345 to 362	*7 ft. 0 in.
500 to 552	*11 ft. 0 in.
700 to 765	*15 ft. 0 in.
* Note: For 345-362 kv, 500-552 kv., and 700-765 kv., the minimum working distance and the minimum clear hot stick distance may be reduced provided that such distances are not less than the shortest distance between the energized part and a grounded surface.	

R 408.41633 Head protection.

Rule 1633. (1) ~~A class B helmet for the protection of an employee exposed to voltages of more than 600 volts shall bear a certification by the manufacturer that the helmet is as prescribed in the American National Standard Institute (ANSI) standard, Z89.2, 1971 edition, Industrial Protective Helmets for Electrical Workers, which is adopted by reference in R 408.41610.~~

(1) (2) A helmet, provided for and as prescribed in construction safety standard, Part 6 Personal Protective Equipment, R 408.40617 and R 408.40621, shall be used to protect the employee where a hazard or risk of injury exists from falling or flying objects or particles or from other harmful contacts or exposures.

(2) (3) Where there is exposure to electrical contact, helmet liners or wind guards shall not be in contact with the outside shell of the helmet.

R 408.41658 External load helicopters.

Rule 1658. In all operations performed using a rotorcraft for moving or placing external loads, the provisions of **general industry safety standard, Part 59 Helicopters, as referenced in R 408.41610, §1926.551**, as adopted by reference in ~~R 408.41001 of construction safety standard Part 10 Lifting and Digging Equipment~~, shall be complied with.