

# Michigan Register

Issue No. 19– 2016 (Published November 1, 2016)



# GRAPHIC IMAGES IN THE MICHIGAN REGISTER

## COVER DRAWING

### *Michigan State Capitol:*

This image, with flags flying to indicate that both chambers of the legislature are in session, may have originated as an etching based on a drawing or a photograph. The artist is unknown. The drawing predates the placement of the statue of Austin T. Blair on the capitol grounds in 1898.

(Michigan State Archives)

## PAGE GRAPHICS

### *Capitol Dome:*

The architectural rendering of the Michigan State Capitol's dome is the work of Elijah E. Myers, the building's renowned architect. Myers inked the rendering on linen in late 1871 or early 1872. Myers' fine draftsmanship, the hallmark of his work, is clearly evident.

Because of their size, few architectural renderings of the 19<sup>th</sup> century have survived. Michigan is fortunate that many of Myers' designs for the Capitol were found in the building's attic in the 1950's. As part of the state's 1987 sesquicentennial celebration, they were conserved and deposited in the Michigan State Archives.

(Michigan State Archives)

### *East Elevation of the Michigan State Capitol:*

When Myers' drawings were discovered in the 1950's, this view of the Capitol – the one most familiar to Michigan citizens – was missing. During the building's recent restoration (1989-1992), this drawing was commissioned to recreate the architect's original rendering of the east (front) elevation.

(Michigan Capitol Committee)

# Michigan Register

Published pursuant to § 24.208 of  
The Michigan Compiled Laws



Issue No. 19— 2016

(This issue, published November 1, 2016, contains  
documents filed from October 1, 2016 to October 15, 2016)

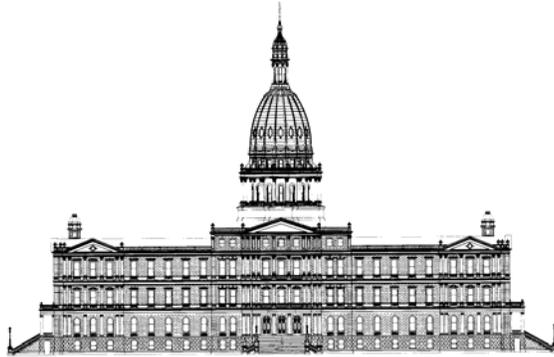
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**Jeff Bankowski**, Executive Director, Office of Performance and Transformation; **Deidre O’Berry**, Administrative Rules Specialist for Operations and Publications.

**Rick Snyder, Governor**



**Brian Calley, Lieutenant Governor**

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## PREFACE

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### PUBLICATION AND CONTENTS OF THE MICHIGAN REGISTER

The Office of Regulatory Reform publishes the *Michigan Register*.

While several statutory provisions address the publication and contents of the *Michigan Register*, two are of particular importance.

**24.208 Michigan register; publication; cumulative index; contents; public subscription; fee; synopsis of proposed rule or guideline; transmitting copies to office of regulatory reform.**

Sec. 8.

(1) The office of regulatory reform shall publish the Michigan register at least once each month. The Michigan register shall contain all of the following:

- (a) Executive orders and executive reorganization orders.
- (b) On a cumulative basis, the numbers and subject matter of the enrolled senate and house bills signed into law by the governor during the calendar year and the corresponding public act numbers.
- (c) On a cumulative basis, the numbers and subject matter of the enrolled senate and house bills vetoed by the governor during the calendar year.
- (d) Proposed administrative rules.
- (e) Notices of public hearings on proposed administrative rules.
- (f) Administrative rules filed with the secretary of state.
- (g) Emergency rules filed with the secretary of state.
- (h) Notice of proposed and adopted agency guidelines.
- (i) Other official information considered necessary or appropriate by the office of regulatory reform.
- (j) Attorney general opinions.
- (k) All of the items listed in section 7(m) after final approval by the certificate of need commission under section 22215 of the public health code, 1978 PA 368, MCL 333.22215.

(2) The office of regulatory reform shall publish a cumulative index for the Michigan register.

(3) The Michigan register shall be available for public subscription at a fee reasonably calculated to cover publication and distribution costs.

(4) If publication of an agency's proposed rule or guideline or an item described in subsection (1)(k) would be unreasonably expensive or lengthy, the office of regulatory reform may publish a brief synopsis of the proposed rule or guideline or item described in subsection (1)(k), including information on how to obtain a complete copy of the proposed rule or guideline or item described in subsection (1)(k) from the agency at no cost.

(5) An agency shall electronically transmit a copy of the proposed rules and notice of public hearing to the office of regulatory reform for publication in the Michigan register.

**4.1203 Michigan register fund; creation; administration; expenditures; disposition of money received from sale of Michigan register and amounts paid by state agencies; use of fund; price of Michigan register; availability of text on internet; copyright or other proprietary interest; fee prohibited; definition.**

Sec. 203.

- (1) The Michigan register fund is created in the state treasury and shall be administered by the office of regulatory reform. The fund shall be expended only as provided in this section.
- (2) The money received from the sale of the Michigan register, along with those amounts paid by state agencies pursuant to section 57 of the administrative procedures act of 1969, 1969 PA 306, MCL 24.257, shall be deposited with the state treasurer and credited to the Michigan register fund.
- (3) The Michigan register fund shall be used to pay the costs of preparing, printing, and distributing the Michigan register.
- (4) The department of management and budget shall sell copies of the Michigan register at a price determined by the office of regulatory reform not to exceed the cost of preparation, printing, and distribution.
- (5) Notwithstanding section 204, beginning January 1, 2001, the office of regulatory reform shall make the text of the Michigan register available to the public on the internet.
- (6) The information described in subsection (5) that is maintained by the office of regulatory reform shall be made available in the shortest feasible time after the information is available. The information described in subsection (5) that is not maintained by the office of regulatory reform shall be made available in the shortest feasible time after it is made available to the office of regulatory reform.
- (7) Subsection (5) does not alter or relinquish any copyright or other proprietary interest or entitlement of this state relating to any of the information made available under subsection (5).
- (8) The office of regulatory reform shall not charge a fee for providing the Michigan register on the internet as provided in subsection (5).
- (9) As used in this section, "Michigan register" means that term as defined in section 5 of the administrative procedures act of 1969, 1969 PA 306, MCL 24.205.

**CITATION TO THE MICHIGAN REGISTER**

The *Michigan Register* is cited by year and issue number. For example, 2001 MR 1 refers to the year of issue (2001) and the issue number (1).

**CLOSING DATES AND PUBLICATION SCHEDULE**

The deadlines for submitting documents to the Office of Regulatory Reinvention for publication in the *Michigan Register* are the first and fifteenth days of each calendar month, unless the submission day falls on a Saturday, Sunday, or legal holiday, in which event the deadline is extended to include the next day which is not a Saturday, Sunday, or legal holiday. Documents filed or received after 5:00 p.m. on the closing date of a filing period will appear in the succeeding issue of the *Michigan Register*.

The Office of Regulatory Reinvention is not responsible for the editing and proofreading of documents submitted for publication.

Documents submitted for publication should be delivered or mailed in an electronic format to the following address: MICHIGAN REGISTER, Office of Regulatory Reinvention, Ottawa Building – Second Floor, 611 W. Ottawa Street, Lansing, MI 48909.

### **RELATIONSHIP TO THE MICHIGAN ADMINISTRATIVE CODE**

The *Michigan Administrative Code* (1979 edition), which contains all permanent administrative rules in effect as of December 1979, was, during the period 1980-83, updated each calendar quarter with the publication of a paperback supplement. An annual supplement contained those permanent rules, which had appeared in the 4 quarterly supplements covering that year.

Quarterly supplements to the Code were discontinued in January 1984, and replaced by the monthly publication of permanent rules and emergency rules in the *Michigan Register*. Annual supplements have included the full text of those permanent rules that appear in the twelve monthly issues of the *Register* during a given calendar year. Emergency rules published in an issue of the *Register* are noted in the annual supplement to the Code.

### **SUBSCRIPTIONS AND DISTRIBUTION**

The *Michigan Register*, a publication of the State of Michigan, is available for public subscription at a cost of \$400.00 per year. Submit subscription requests to: Office of Regulatory Reinvention, Romney Building –Eight Floor, 111 S. Capitol Avenue, Lansing, MI 48909. Checks Payable: State of Michigan. Any questions should be directed to the Office of Regulatory Reinvention (517) 335-8658.

### **INTERNET ACCESS**

The *Michigan Register* can be viewed free of charge on the Internet web site of the Office of Regulatory Reinvention: [www.michigan.gov/orr](http://www.michigan.gov/orr).

Issue 2000-3 and all subsequent editions of the *Michigan Register* can be viewed on the Office of Regulatory Reinvention Internet web site. The electronic version of the *Register* can be navigated using the blue highlighted links found in the Contents section. Clicking on a highlighted title will take the reader to related text, clicking on a highlighted header above the text will return the reader to the Contents section.

Jeff Bankowski, Executive Director,  
Office of Performance and Transformation

## 2016 PUBLICATION SCHEDULE

Issue No.	Closing Date for Filing or Submission Of Documents (5 p.m.)	Publication Date
1	January 15, 2016	February 1, 2016
2	February 1, 2016	February 15, 2016
3	February 15, 2016	March 1, 2016
4	March 1, 2016	March 15, 2016
5	March 15, 2016	April 1, 2016
6	April 1, 2016	April 15, 2016
7	April 15, 2016	May 1, 2016
8	May 1, 2016	May 15, 2016
9	May 15, 2016	June 1, 2016
10	June 1, 2016	June 15, 2016
11	June 15, 2016	July 1, 2016
12	July 1, 2016	July 15, 2016
13	July 15, 2016	August 1, 2016
14	August 1, 2016	August 15, 2016
15	August 15, 2016	September 1, 2016
16	September 1, 2016	September 15, 2016
17	September 15, 2016	October 1, 2016
18	October 1, 2016	October 15, 2016
19	October 15, 2016	November 1, 2016
20	November 1, 2016	November 15, 2016
21	November 15, 2016	December 1, 2016
22	December 1, 2016	December 15, 2016
23	December 15, 2016	January 1, 2017
24	January 1, 2017	January 15, 2017

# CONTENTS

---

## ADMINISTRATIVE RULES FILED WITH SECRETARY OF STATE

---

### Department of Licensing and Regulatory Affairs

Director's Office (2016-015)

Part 19. Tools CS .....2-11

### Department of Licensing and Regulatory Affairs

Director's Office (2016-017)

Part 91. Process Safety Management of Highly Hazardous Chemicals CS ..... 12-13

---

## PROPOSED ADMINISTRATIVE RULES, NOTICES OF PUBLIC HEARINGS

---

### Department of Treasury

Director's Office (2014-109)

Audit Standards for Exams ..... 15-21

Public Hearing Notice.....22-22

### Department of Environmental Quality

Director's Office (2016-003)

Part 6. Emission Limitations and Prohibitions Existing Sources of Volatile Organic Compound

Emissions .....23-50

Public Hearing Notice.....51-52

### Department of Licensing and Regulatory Affairs

Director's Office (2016-042)

Part 51. Logging GS .....53-63

### Department of Licensing and Regulatory Affairs

Director's Office (2016-055)

Part 301. Air Contaminants for General Industry OH .....64-108

### Department of Licensing and Regulatory Affairs

Director's Office (2016-056)

Part 590. Silica in General Industry OH .....109-111

---

## MICHIGAN ADMINISTRATIVE CODE TABLE

---

Table (2016 Session) ..... 113-123

---

## CUMULATIVE INDEX

---

Cumulative Index (2016) .....124-129

---

**BILLS SIGNED INTO LAW OR VETOED**

---

Appendix Table 1 (2016 Session) (Legislative Service Bureau Pages (1-29)).....130-130

---

**ADMINISTRATIVE RULES  
FILED WITH THE SECRETARY OF STATE**

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*MCL 24.208 states in part:*

*“Sec. 8. (1) The Office of Regulatory Reinvention shall publish the Michigan register at least once each month. The Michigan register shall contain all of the following:*

*\* \* \**

*(f) Administrative rules filed with the secretary of state.”*

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**ADMINISTRATIVE RULES**

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DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS

DIRECTOR'S OFFICE

CONSTRUCTION SAFETY STANDARDS

Filed with the Secretary of State on October 6, 2016

These rules take effect 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 19 and 21 of 1974 PA 154, MCL 408.1019 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 408.41901, R 408.41902, R 408.41927, R 408.41932, R 408.41936, R 408.41937, R 408.41942, R 408.41943, R 408.41945, R 408.41949, R 408.41951, R 408.41952, R 408.41954, R 408.41959, R 408.41960, R 408.41969, and R 408.41980 of the Michigan Administrative Code are amended, as follows:

PART 19. TOOLS

R 408.41901 Scope.

Rule 1901. This standard pertains to the manufacture, care, and use of tools for construction operations.

R 408.41902 Adopted and referenced standards.

Rule 1902. (1) 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 at website: [www.global.ihs.com](http://www.global.ihs.com), at a cost as of the time of adoption of these rules, as stated in this rule:

(a) American National Standards Institute (ANSI) 01.1 "Safety Code for Woodworking Machinery," 1961 edition. Cost: \$20.00.

(b) ANSI A10.3 "Powder-Actuated Fastening Systems," 1985 edition. Cost: \$20.00.

(c) American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section VIII, "Unfired Pressure Vessels," 1980 edition. Cost: \$514.00.

(2) The standards adopted in these rules are available for inspection at the Department of Licensing and Regulatory Affairs, MIOSHA Regulatory Services Section, 530 West Allegan Street, P.O. Box 30643, Lansing, Michigan, 48909-8143.

(3) Copies of the standards adopted in these rules may be obtained from the publisher or may be obtained from the Department of Licensing and Regulatory Affairs, MIOSHA Regulatory Services Section, 530 West Allegan Street, 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 (MIOSHA) 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 Regulatory Services Section, 530 West Allegan Street, P.O. Box 30643, Lansing, Michigan, 48909-8143 or via the internet at website: [www.michigan.gov/mioshastandards](http://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) Construction Safety Standard Part 6 “Personal Protective Equipment,” R 408.40601 to R 408.40641.

(b) Construction Safety Standard Part 17 “Electrical Installations,” R 408.41701 to R 408.41734.

(c) Construction Safety Standard Part 22 “Signals, Signs, Tags and Barricades,” R 480.42201 to R 408.42242.

(d) Occupational Health Standard Part 621 “Health Hazard Control for Specific Equipment and Operations for Construction,” R 325.62102 to R 325.62126.

R 408.41927 Definitions; G to O.

Rule 1927. (1) "Grounded" means grounding as required by Construction Safety Standard Part 17 “Electrical Installations,” as referenced in R 408.41902.

(2) "Guard" means an enclosure designed to restrain pieces of abrasive wheel and protect the employee in the event of wheel breakage.

(3) "Hammer-actuated piston tool" means a low-velocity, powder-actuated device that, when struck by a heavy hammer and supplemented by a power load, moves a captive piston to drive a fastener into a material.

(4) "Hand tool" means an instrument used or worked by hand.

(5) "Hand-held circular saw" means a hand-held machine that has a circular blade and that is used for crosscutting and ripping.

(6) "Hand-held powered tool" means a tool that is operated by hand, but powered by other means.

(7) "Jack" means a device for lifting and lowering a load or moving it horizontally by application of a pushing force.

(8) "Jointer" means a machine with a revolving cutter head set into an adjustable table over which the material is moved across the cutter head.

(9) "Lockout" means to secure by use of a lock.

(10) "Masonry cutting" means the cutting off, notching, or slotting of units of materials such as brick, tile, block, or refractory shapes where the workpiece is brought into the machine.

(11) "Minimum clear hot stick distance" means the distance from an energized conductor or equipment to the closest hand of the employee holding the hot stick.

(12) "Offhand grinding" means the grinding of any material that is held in an employee's hand.

R 408.41932. Tools generally.

Rule 1932. (1) Regardless of ownership, a tool or part of a tool with a defect that could cause an injury shall be replaced or repaired before use.

(2) When a guard is provided on a tool, the guard shall not be made inoperative. The guard may be removed only for repair, service, or setup, and it shall be replaced before the tool is returned to use.

(3) Hand tools or portable powered tools shall not be left on a scaffold, ladder, or work platform after the completion of the work operation or day. Before the scaffold, ladder, or work platform is moved, all tools shall be removed or properly secured against displacement.

(4) A tool shall be visually inspected by the user for safe operation before each daily use and, when found defective, shall be removed from service and tagged. The tag shall be in compliance with

Construction Safety Standard Part 22 “Signals, Signs, Tags, and Barricades,” as referenced in R 408.41902.

(5) A tool that is used in a potentially explosive atmosphere shall be designed and approved for such atmosphere.

(6) A safety device or operating control shall not be made inoperative, except for the removal of lock-on control devices.

R 408.41936 Cleaning with compressed air.

Rule 1936. (1) Compressed air shall not be used for blowing dirt or dust from the hands, face, or clothing.

(2) Air pressure at the discharge end of a portable air gun or hose used for cleaning shall not exceed 30 pounds per square inch gauge (p.s.i.g.), except the pressure may exceed 30 p.s.i.g. when sandblasting, cleaning concrete forms, or for joint cleaning. When air pressure exceeding 30 p.s.i.g. is used for concrete forms or joint cleaning, a pipe extension of not less than 4 feet shall be used at the end of the hose.

(3) When air under pressure is used to remove chips or dust, a chip guard, such as a fixed or removable shield, safely located, shall be provided to protect the operator and any employee in an adjoining area.

(4) The employee using air under pressure shall use personal protective equipment provided for and as prescribed in Construction Safety Standard Part 6 “Personal Protective Equipment,” as referenced in R 408.41902, to protect against hazards created by the operation.

R 408.41937 Powered staplers and nailers.

Rule 1937. (1) A portable powered stapler or nailer that is capable of driving a fastener that has a diameter of more than .0475 inch, 18 gauge A.W.G., at more than 75 feet per second shall be designed so that the operator is required to make not less than 2 separate operations to activate the tool, with 1 operation being to place the tool against the work surface.

(2) The design shall prevent the discharge of the stapler or nailer when loading or when dropped.

(3) A portable powered stapler or nailer shall not be pointed or discharged at other than the workpiece.

(4) The operator of a portable powered stapler or nailer and those employees within the striking distance of its fastener shall wear eye protection provided for and as prescribed in Construction Safety Standard Part 6 “Personal Protective Equipment,” as referenced in R 408.41902.

(5) A positive actuation of the operator control shall be required to propel each fastener from a powered stapler or nailer.

(6) When relieving a jam-up of a fastening device, the source of power shall be disconnected.

(7) Before use, a portable powered stapler and nailer shall be tested for safe operation.

R 408.41942 Powder-actuated tool operators' cards.

Rule 1942. (1) An operator of a powder-actuated tool shall have an operator's card that should be in the operator's possession at all times while using the tool and be presented upon request or an employer may establish and maintain at the jobsite a list of employees qualified to operate a powder-actuated tool.

(2) Failure to comply with any of these rules is sufficient cause for the immediate surrender of an operator's card to the employer.

(3) The purpose of the card is to certify that the operator has completed the required training to become a qualified operator.

(4) The card should be of a size, approximately 2 1/2 by 3 1/2 inches, that readily fits into a wallet.

(5) The face of the card should include the following text and bear the signature of the issuer of the card, authorized as provided in subrule (8) of this rule:

<b>QUALIFIED OPERATOR POWDER-ACTUATED FASTENING TOOLS</b>
DATE:
SERIAL NUMBER:
NAME OF OPERATOR:
THIS CERTIFIES THAT THE ABOVE NAMED OPERATOR HAS RECEIVED THE PRESCRIBED TRAINING IN THE OPERATION OF POWDER-ACTUATED FASTENING TOOLS MANUFACTURED BY THE FOLLOWING:
NAME OF MANUFACTURER:
MODEL(S):
AUTHORIZED ISSUER:
SIGNATURE OF OPERATOR:

(6) A statement should be provided on the card as follows:

"I have received instruction in the safe operation of powder-actuated fastening tools of the makes and models specified, and I agree to conform to the rules governing their use."
--

(7) A note should be printed on the card as follows:

"Revocation of Card Failure to comply with any rule for safe operation of powder-actuated fastening tools is sufficient cause for the immediate surrender of the card to the employer."
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(8) The manufacturer of a powder-actuated tool should establish an appropriate program to instruct its employees, dealers, and distributors in the proper technical training and testing of operators and the issuance of operators' cards. Operators' cards may be issued by either of the following:

- (a) A dealer or distributor of powder-actuated tools, who has been authorized by the tool manufacturer to issue such cards.
- (b) An authorized employee of a powder-actuated tool manufacturer.

R 408.41943. Powder-actuated tool operation.

Rule 1943. (1) An operator and assistant using a powder-actuated tool shall be safeguarded by means of eye protection. Head and face protection shall be used as required by the working conditions. Eye

protection and head and face protection shall be provided for and as prescribed in Construction Safety Standard Part 6 “Personal Protective Equipment,” as referenced in R 408.41902.

(2) Before using a powder-actuated tool, the operator shall inspect it to determine to the operator’s satisfaction that it is clean, that all moving parts operate freely, and that the barrel is free from obstructions. A tool found not to be in proper working order, or that develops a defect during use, shall be immediately removed from service and tagged, and not used until repaired. The tag shall be as prescribed in Construction Safety Standard Part 22 “Signals, Signs, Tags, and Barricades,” as referenced in R 408.41902.

(3) A powder-actuated tool shall not be loaded until just prior to the intended firing time. An unattended powder-actuated tool shall not be left loaded.

(4) A powder-actuated tool shall not be left unattended in a place where it is available to unauthorized persons.

(5) Neither a loaded nor an empty powder-actuated tool shall be pointed at any employee, and hands should be kept clear of the open barrel end.

(6) A fastener shall not be driven under any of the following conditions:

(a) Through an existing hole, unless a positive guide is used to secure accurate alignment.

(b) Into a material that can be easily penetrated, unless the material is backed by a substance that will prevent the fastener from passing completely through and creating a flying missile hazard on the other side.

(c) Into a very hard or brittle material, such as cast iron, glazed tile, surface hardened steel, glass block, live rock, face brick, or hollow tile, unless designed for such use. Before fastening any questionable material, the operator shall determine its suitability by using a fastening as a center punch. If the fastener point does not easily penetrate, is not blunted, and does not fracture the material, initial test fastenings shall then be made pursuant to the tool manufacturer’s recommendations.

(d) Directly into material, such as brick or concrete, closer than 3 inches from the unsupported edge or corner, or into a steel surface closer than 1/2 inch from the unsupported edge or corner, unless a special guard, fixture, or jig is used. As an exception, a low velocity powder-actuated tool may drive no closer than 2 inches from the edge in concrete or 1/4 inch in steel. When fastening other material such as a 2 inch by 4 inch wood section to a concrete surface, a fastener of no greater than 7/32 inch shank diameter may be driven not closer than 2 inches from the unsupported edge or corner of the work surface.

(7) A fastener shall not be driven into a spalled area caused by an unsatisfactory fastening.

(8) A powder-actuated tool shall be used with the correct guard, shield, or attachment recommended by the manufacturer.

R 408.41945. Powder-actuated tools; design and construction.

Rule 1945. A powder-actuated tool shall be designed and constructed as prescribed in section 6 of ANSI standard A10.3 “Powder-Actuated Fastening Systems,” 1985 edition, as adopted in R 408.41902.

R 408.41949. Powder-actuated tool loads and studs.

Rule 1949. (1) Power loads shall be coded and used as prescribed in section 7 and table 1 of ANSI standard A10.3 “Powder-Actuated Fastening Systems,” 1985 edition, as adopted in R 408.41902.

(2) Studs or other fasteners used in powder-actuated tools shall be only those specifically manufactured for use in powder-actuated tools.

R 408.41951 Woodworking machinery generally.

Rule 1951. (1) A woodworking machine shall have a disconnect switch that can be locked in the off position. This rule does not apply to hand-held tools. An employer shall establish and maintain a lockout

procedure. A machine connected to an electrical source by a plug-in cord shall be considered in compliance if the plug is disconnected and tagged.

(2) The vibration of a machine shall not create a hazard to the operator.

(3) An arbor and mandrel shall have a firm and secure bearing.

(4) The frames and all exposed metal parts of electric woodworking machinery shall be grounded. A portable motor driving and electric tool shall be grounded unless it has approved double insulation.

(5) A woodworking machine shall not automatically restart upon restoration of power after a power failure. A machine wired to a 110-volt line before April 11, 1979, is excepted from this rule.

(6) Operating controls shall be located within reach of the operator while the operator is at the regular work station, making it unnecessary to reach over the cutters. The controls shall be installed so as to eliminate the danger of accidental activation. This subrule does not apply to a constant-pressure control used only for setup purposes.

(7) All woodworking machines shall be provided with point of operation guards.

R 408.41952. Woodworking tools and machinery.

Rule 1952. All woodworking tools and machinery shall meet all other applicable requirements of ANSI standard 01.1 "Safety Code for Woodworking Machinery," 1961 edition, as adopted in R 408.41902.

R 408.41954. Radial arm saws; guards, spreaders, and stops.

Rule 1954. (1) The upper hood of a radial arm saw shall completely enclose the upper portion of the blade down to a point that includes the end of the saw arbor. The upper hood shall be constructed in a manner and of not less than 14-gauge sheet metal or equivalent material that protects the operator from flying splinters and broken saw teeth and deflects sawdust away from the operator. The sides of the lower exposed portion of the blade shall be guarded to the full diameter of the blade by a device that automatically adjusts itself to the thickness of the stock and remains in contact with the stock being cut to give the maximum protection possible for the operation being performed.

(2) Non-kickback fingers or dogs shall be located on both sides of each radial arm saw blade used for ripping to oppose the thrust or tendency of the saw to pick up the material or to throw it back toward the operator. Non-kickback fingers or dogs shall be designed to provide adequate holding power for all thicknesses of material being cut.

(3) An adjustable stop shall be provided to prevent the forward travel of the blade beyond the position necessary to complete the cut in repetitive operations. A limit chain or other equally effective device shall be provided to prevent the saw blade from sliding beyond the edge of table or the table at that place shall be extended to eliminate overrun.

(4) The cutting head of a radial arm saw shall return gently, without rebound, to the starting position when released by either of the following means:

(a) Sloping the unit.

(b) A counterweight system. This system shall not use fiber and synthetic rope or springs.

R 408.41959. Fuel-powered tools.

Rule 1959. (1) A fuel-powered tool shall be stopped before being refueled, serviced, or maintained.

(2) When using a fuel-fired powered tool in an enclosed area, the toxic fumes shall be exhausted as prescribed by Occupational Health Standard Part 621 "Health Hazard Control for Specific Equipment and Operations for Construction," as referenced in R 408.41902.

(3) A fuel-fired portable tool shall be moved a minimum of 10 feet from the place where it was refueled before starting.

(4) A chain saw's chain shall be stopped if it is not being used for sawing. A chain saw shall be carried by the top handle with the guide bar to the rear.

- (5) The use of a chain saw to open a hole in a solid object, such as a floor, wall, or panel, is prohibited.
- (6) A chain saw's chain shall be guarded adjacent to the handle area. Sawdust from a chain saw shall be directed away from the operator.

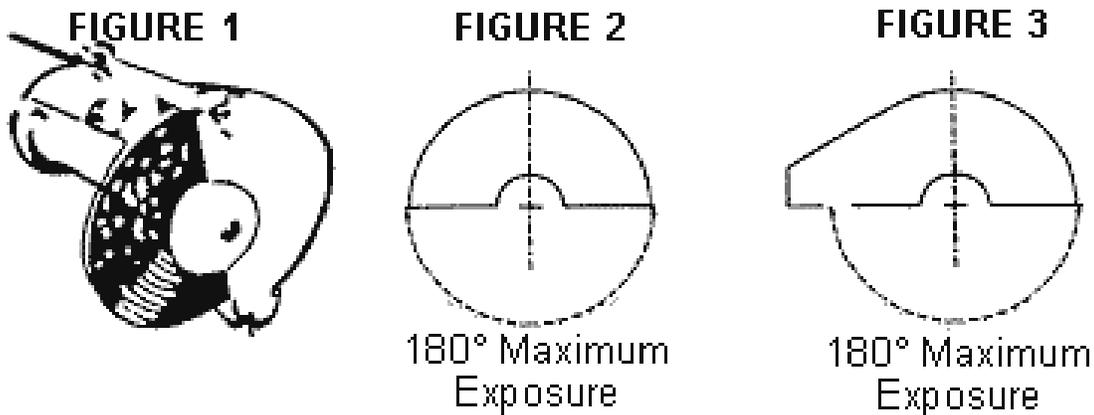
R 408.41960 Abrasive wheels generally.

Rule 1960. (1) Except for the following operations or tools, an abrasive wheel shall be provided with a guard that covers the spindle end, nut, and flange projections as well as the periphery:

- (a) Internal grinding while within the work being ground.
- (b) Mounted wheels that are not more than 2 inches in diameter.
- (c) A cup wheel operated at less than 500 revolutions per minute.
- (d) A tuck-point grinder wheel. Such wheel shall be guarded as shown in figure 1.
- (e) Masonry or concrete saws. Such saws may have the spindle end, nut, and flange guarded as shown in figure 2 or 3.

- (2) An abrasive wheel shall not be run at a speed that is greater than the rated speed on the wheel.
- (3) A cracked or broken abrasive wheel shall not be used.
- (4) Eye protection shall be provided to, and used by, each employee operating an abrasive wheel. Eye protection shall comply with the provisions of Construction Safety Standard Part 6 "Personal Protective Equipment," as referenced in R 408.41902.

(5) Figures (1), (2), and (3) read as follows:



R 408.41969 Hot sticks.

Rule 1969. (1) A hot stick and any tool attached to it shall be clean and inspected for damage before use.

- (2) A hot stick that has been damaged shall not be used until replaced or repaired by a knowledgeable employee or an outside service and tested to meet the requirements of subrule (3) of this rule.
- (3) A hot stick shall not be used unless it has been certified and labeled by the manufacturer to meet the following standards:
  - (a) Fiberglass, 100,000 volts per foot of length for 5 minutes, or any equivalent test.
  - (b) Wood, 75,000 volts per foot of length for 3 minutes, or any equivalent test.
- (4) A hot stick shall be stored in a manner to protect it from damage. A hot stick made of wood shall be protected from moisture.
- (5) A hot stick shall not be used in excess of the rated capacity certified by the manufacturer.

(6) The minimum working distance and minimum clear hot stick distances prescribed in table 1, when using live-line tools, shall not be violated.

(7) The minimum working distance for live-line bare-hand technique prescribed in table 2 shall not be violated.

TABLE 1	
ALTERNATING CURRENT MINIMUM DISTANCES	
Voltage Range (phase-to-phase) Kilovolts	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	<sup>1</sup> 7 ft. 0 in.
500 to 552	<sup>1</sup> 11 ft. 0 in.
700 to 765	<sup>1</sup> 15 ft. 0 in.
<sup>1</sup> NOTE: For 345-362 kv., 500-552 kv., and 700-765 kv., the minimum clearance distance and the minimum clear hot stick distance may be reduced provided that such distances are not made less than the shortest distance between the energized part and a grounded surface.	

TABLE 2		
MINIMUM CLEARANCE DISTANCES FOR LIVE-LINE BARE-HAND WORK (ALTERNATING CURRENT)		
Distance in feet and inches for maximum voltage		
Voltage Range (phase-to-phase) Kilovolts	Phase to Ground	Phase to Phase
2.1 to 15	2 ft. 0 in.	2 ft. 0 in.
15.1 to 35	2 ft. 4 in.	2 ft. 4 in.
35.1 to 46	2 ft. 6 in.	2 ft. 6 in.
46.1 to 72.5	3 ft. 0 in.	3 ft. 0 in.
72.6 to 121	3 ft. 4 in.	4 ft. 6 in.
138 to 145	3 ft. 6 in.	5 ft. 0 in.
161 to 169	3 ft. 8 in.	5 ft. 6 in.
230 to 242	5 ft. 0 in.	8 ft. 4 in.
345 to 362	<sup>1</sup> 7 ft. 0 in.	<sup>1</sup> 13 ft. 4 in.
500 to 552	<sup>1</sup> 11 ft. 0 in.	<sup>1</sup> 20 ft. 0 in.
700 to 765	<sup>1</sup> 15 ft. 0 in.	<sup>1</sup> 31 ft. 0 in.

<sup>1</sup> NOTE: For 345-362 kv., 500-552 kv., and 700-765 kv., the minimum clearance distance may be reduced provided the distances are not made less than the shortest distance between the energized part and a grounded surface.

R 408.41980. Air receivers.

Rule 1980. (1) All new air receivers installed after July 28, 1995, shall be constructed in accordance with the American Society Of Mechanical Engineers (ASME) “Boiler And Pressure Vessel Code,” Section VIII, “Unfired Pressure Vessels,” 1980 edition which is adopted by reference in R 408.41902.

(2) All safety valves used shall be constructed, installed, and maintained in accordance with the ASME “Boiler and Pressure Vessel Code,” Section VIII, “Unfired Pressure Vessels,” 1980 edition, as adopted in R 408.41902.

(3) Air receivers shall be installed so that all drains, handholes, and manholes are easily accessible. An air receiver shall not be buried underground or located in an inaccessible place.

(4) A drain pipe and valve shall be installed at the lowest point of every air receiver to provide for the removal of accumulated oil and water. Adequate automatic traps may be installed in addition to drain valves. The drain valve on the air receiver shall be opened and the receiver completely drained frequently to prevent the accumulation of excessive amounts of liquid in the receiver.

(5) Every air receiver shall be equipped with an indicating pressure gauge that is located so that it is readily visible and equipped with 1 or more spring-loaded safety valves. The total relieving capacity of the safety valves shall be adequate to prevent pressure in the receiver from exceeding the maximum allowable working pressure of the receiver by more than 10%.

(6) A valve shall not be placed between the air receiver and its safety valve or valves.

(7) Safety appliances, such as safety valves, indicating devices, and controlling devices, shall be constructed, located, and installed so that they cannot be readily rendered inoperative by any means, including the elements.

(8) All safety valves shall be tested frequently at regular intervals to determine whether they are in good operating condition.

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**ADMINISTRATIVE RULES**

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DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS

DIRECTOR'S OFFICE

CONSTRUCTION SAFETY STANDARDS

Filed with the Secretary of State on October 6, 2016

These rules take effect 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 19 and 21 of 1974 PA 154, MCL 408.1019 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 408.49101, R 408.49102, and R 408.49103 of the Michigan Administrative Code are amended, as follows:

**PART 91. PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS**

R 408.49101. Scope.

Rule 9101. (1) This standard applies to the manufacturing of explosives and pyrotechnics. These rules do not apply to the sale and use, such as public displays, of pyrotechnics, commonly known as fireworks, or to the use of explosives in the form prescribed in the official United States pharmacopeia.

(2) The manufacture of explosives, as defined in General Industry Safety Standard Part 55 "Explosives and Blasting Agents," as referenced in R 408.49102, shall also be in compliance with the requirements contained in the provisions of these rules.

(3) The manufacture of pyrotechnics as defined in General Industry Safety Standard Part 55 "Explosives and Blasting Agents," as referenced in R 408.49102, shall be in compliance with the provisions of these rules.

R 408.49102. Adoption of standards by reference.

Rule 9102. (1) The following Federal Occupational Safety and Health Administration (OSHA) regulations are adopted by reference in these rules.

(a) 29 C.F.R. §1926.64 "Process safety management of highly hazardous chemicals," effective March 26, 2012.

(b) 29 C.F.R. §1926.64 Appendix A "List of highly hazardous chemicals, toxics and reactives (mandatory)," effective June 30, 1993.

(2) All of the following provisions apply with respect to the regulations adopted in this rule:

(a) A reference to 29 C.F.R. §1910.1200 "Hazard communication," and 29 C.F.R. §1926.59 "Hazard communication," means Occupational Health Standard Part 430 "Hazard Communication," General Industry Safety Standard Part 92 "Hazard Communication," and Construction Safety Standard Part 42 "Hazard Communication," as referenced in R 408.49103.

(b) A reference to 29 C.F.R. §1926.65 “Hazardous waste operations and emergency response,” means Occupational Health Standard Part 432 “Hazardous Waste Operations and Emergency Response,” as referenced in R 408.49103.

(3) The provisions of 29 C.F.R. §1926.64 and 29 C.F.R. §1926.64 Appendix A have the same force and effect as rules promulgated under Michigan occupational safety and health act (MIOSHA), 1974 PA 154, MCL 408.1001 to 408.1094.

(4) The standards adopted in this rule are available from the United States Department of Labor, Occupational Safety and Health Administration website: [www.osha.gov](http://www.osha.gov), at no charge as of the time of adoption of these rules.

(5) The standards adopted in this rule are available for inspection at the Department of Licensing and Regulatory Affairs, MIOSHA Regulatory Services Section, 530 West Allegan Street, P.O. Box 30643, Lansing, Michigan, 48909-8143.

(6) The standards adopted in this rule may be obtained from the publisher or may be obtained from the Department of Licensing and Regulatory Affairs, MIOSHA Regulatory Services Section, 530 West Allegan Street, P.O. Box 30643, Lansing, Michigan, 48909-8143, plus \$20.00 for shipping and handling.

R 408.49103. MIOSHA referenced standards.

Rule 3. The following Michigan occupational safety and health (MIOSHA) 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 Regulatory Services Section, 530 West Allegan Street, P.O. Box 30643, Lansing, Michigan, 48909-8143 or via the internet at website: [www.michigan.gov/mioshastandards](http://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 42 “Hazard Communication,” R 408.44201 to R 408.44203.

(b) General Industry Safety Standard Part 92 “Hazard Communication,” R 408.19201 to R 408.19203.

(c) Occupational Health Standard Part 430 “Hazard Communication,” R 325.77001 to R 325.77003.

(d) General Industry Safety Standard Part 55 “Explosives and Blasting Agents,” R 408.15501.

(e) Occupational Health Standard Part 432 “Hazardous Waste Operations and Emergency Response,” R 325.52101 to R 325.52137.

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**PROPOSED ADMINISTRATIVE RULES,  
NOTICES OF PUBLIC HEARINGS**

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*MCL 24.242(3) states in part:*

*“... the agency shall submit a copy of the notice of public hearing to the Office of Regulatory Reform for publication in the Michigan register. An agency's notice shall be published in the Michigan register before the public hearing and the agency shall file a copy of the notice of public hearing with the Office of Regulatory Reform.”*

*MCL 24.208 states in part:*

*“Sec. 8. (1) The Office of Regulatory Reform shall publish the Michigan register at least once each month. The Michigan register shall contain all of the following:*

\* \* \*

*(d) Proposed administrative rules.*

*(e) Notices of public hearings on proposed administrative rules.”*

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**PROPOSED ADMINISTRATIVE RULES**

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DEPARTMENT OF TREASURY

STATE TREASURER

AUDIT STANDARDS FOR EXAMINATIONS UNDER  
THE UNIFORM UNCLAIMED PROPERTY ACT

Draft October 4, 2016

Filed with the Secretary of State on

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 state treasurer by sections 31 and 40 of the Uniform Unclaimed Property Act, 1995 PA 29, MCL 567.251 and 567.260.)

R 567.1, R 567.2, R 567.3, R 567.4, R 567.5, R 567.6, R 567.7, R 567.8, R 567.9, R 567.10, R 567.11, R 567.12, R 567.13, R 567.14, and R 567.15 are added to the Michigan Administrative Code as follows:

R 567.1 Definitions.

Rule 1. As used in these rules:

- (a) "Act" means the uniform unclaimed property act, 1995 PA 29, MCL 567.221 to 567.265.
- (b) "Administrator" means the state treasurer.
- (c) "Auditor" means an individual, a business association, public corporation, or any other legal or commercial entity designated and authorized by the administrator or his or her designee to conduct an examination of a person to determine compliance with the act. Auditor also includes those employees, agents, subcontractors, and representatives of the designated and authorized individual, business association, public corporation, or any other legal or commercial entity.
- (d) "Confidential information" means all nonpublic proprietary information, information protected by MCL 205.28(1)(f), and any information protected by state or federal law from disclosure including the social security number privacy act, 2004 PA 454, MCL 445.81 to 445.87, and the identity theft protection act, 2004 PA 452, MCL 445.61 to 445.79d. Confidential information does not include information subject to release by law.
- (e) "Hardcopy" means any documents, records, reports, or other data printed on paper.
- (f) "Machine-sensible record" means a collection of related information in an electronic format. Machine-sensible records do not include hard copy records that are created or recorded on paper or stored in or by an imaging system such as microfilm, microfiche, or storage-only imaging systems.
- (g) "Officer," for purposes of qualifying as an eligible holder under MCL 567.222, means a person who is appointed to serve as the president, vice-president, secretary, or treasurer of a corporation or a person who serves as a senior executive within a corporation or other organization. A senior executive is an individual who directs, controls, and coordinates activities that are generally assigned to a chief executive officer, chief operating officer, or chief financial officer.

(h) "Person" means an individual, business association, state or other government, governmental subdivision or agency, public corporation, public authority, estate, trust, 2 or more persons having a joint or common interest, or any other legal or commercial entity.

(i) "Storage-only imaging system" means a system of computer hardware and software that provides for the storage, retention, and retrieval of documents originally created on paper. It does not include any system, or part of a system, that manipulates or processes any information or data contained on the document in any manner other than to reproduce the document in hard copy or as an optical image.

(j) All terms not defined in these rules have the same meaning as when used in the act.

#### R 567.2 Prohibition against use of collection goals or quotas.

Rule 2. The administrator shall not use collection goals or quotas during the conduct of an examination of records under the act. If a person has information that an auditor is using a collection goal or quota while conducting an examination, the person shall inform the administrator. If the administrator finds that a goal or quota was used, such use constitutes a violation of law and a breach of contract that shall result in the replacement of the auditor for the examination and termination of a third party auditor contract. If the examination has been completed, the administrator shall review the fieldwork and examination findings to determine if the use of a goal or quota materially affected the results of the examination.

#### R 567.3 Authority of administrator; selection factors for examination.

Rule 3. (1) The administrator or his or her designee shall have sole authority to select a person for examination or to participate in an examination of that person commenced by another state. Factors that may be considered in determining whether to commence an examination or participate in an examination initiated by another state include, but are not limited to, the following:

(a) Value of the person's assets.

(b) Annual sales volume of the person.

(c) The reporting history of the person.

(d) Mergers, takeovers, stock splits, sales, exchanges, liquidations, acquisitions, or other changes in equity.

(e) Evidence or complaints of failure by the person to send written notice under section 18(5) of the act to the apparent owner of property presumed abandoned or other complaints filed by property owners or other interested parties.

(f) The person has not been previously subject to an examination by the state.

(g) Examinations or other information indicate a trend or practice of failing to report the presumed abandonment of certain types of property within the person's industry or business sector.

(h) The extent of the person's operations in this state including employees, vendors, stockholders, customers, and account holders.

(i) Whether an examination has been initiated by another state or more than 1 state.

(2) If the person selected for examination has information that the selection was not based on the criteria in subrule (1) of this rule or other factors that would reasonably subject a person to examination, the person shall provide the information to the administrator. The administrator will review the information and if the information supports the person's claim that the selection was based on factors that would not reasonably subject a person to examination, the administrator will discontinue the examination. However, the person may still be subject to an examination for the same property types and periods if at a later time, the person is selected based on the criteria in subrule (1) of this rule or other factors that would reasonably subject a person to examination.

R 567.4 Auditor's compliance with administrator's interpretation of law, policy, and procedures.

Rule 4. When an auditor conducts an examination under a contract with the administrator, the auditor shall conduct the examination in compliance with the administrator's interpretation of the act, policy, and procedures. Except for nondisclosure agreement disputes under R 567.11(4), the person subject to examination may request an interpretation of the act, policy, or procedure from the administrator for resolution. The administrator will respond to the auditor and the person subject to examination.

R 567.5 Notice of commencement of examination.

Rule 5. (1) When the examination will be conducted by an auditor solely on behalf of this state, or with at least 1 other state, the administrator shall notify a person that the state intends to conduct an unclaimed property examination of that person. All of the following apply:

(a) For examinations conducted solely on behalf of this state, the examination authorization notice shall be sent from the administrator directly to a corporate officer or the resident agent of the person subject to examination. Both of the following apply:

(i) The notice shall state that the state will conduct an examination of the person and shall provide the name of the authorized auditor that will conduct the examination.

(ii) The notice shall include the telephone number and address of the administrator or his or her designee and shall state that the administrator or his or her designee will address any questions that the person may have regarding the examination.

(b) For examinations conducted by this state and at least 1 other state, the administrator shall send an examination authorization notice directly to the auditor. All of the following apply:

(i) The multistate audit notice will occur when the auditor has collected authorizations from the participating states and provides them to the person subject to examination.

(ii) The examination authorization notice shall contain the telephone number and address of the administrator or his or her designee. The notice will contain a copy of the third party authorization signed by the administrator or his or her designee.

(iii) Nothing contained in this rule shall be construed to prohibit other states from participating in the multistate audit where the person subject to the examination agrees to allow such participation.

(2) For purposes of a streamlined audit, notice is not completed until the person subject to examination receives both the notice of commencement of the examination and a proposed nondisclosure agreement. The auditor and the person subject to examination shall make a good faith effort to reach agreement on a nondisclosure agreement within 30 days after receipt of the notice of commencement of the examination and a proposed nondisclosure agreement.

R 567.6 General professional standards for conducting an examination.

Rule 6. Auditors shall adhere to the following general standards:

(a) Auditors shall maintain independence and objectivity in all matters relating to the examination and shall not engage in any activity that gives the appearance of a conflict of interest.

(b) Auditors shall use professional judgment in planning and performing examinations.

(c) Auditors shall adhere to, where applicable, generally accepted auditing standards and follow generally accepted practices with regard to unclaimed property examinations.

(d) Auditors shall possess adequate professional competence needed to address the examination objectives and conduct the examination.

(e) Before commencing the examination, auditors shall collectively possess the technical knowledge, skills, and experience necessary to competently conduct the examination.

(f) Auditors shall maintain their professional competence through continued training and education.

(g) Auditors shall possess a system of quality control to provide reasonable assurance that its personnel comply with professional standards and applicable legal and regulatory requirements.

R 567.7 General fieldwork standards for conducting examination.

Rule 7. Auditors shall adhere to the following fieldwork standards:

(a) Auditors shall adequately plan the work necessary to address the audit objectives, including a proposed timeline for each segment of the examination, the proposed property types that will be examined, and the proposed documentation that the person subject to examination may need to provide. The timeline shall take into consideration whether the person subject to the examination intends to provide machine-sensible records and documentation. If access to machine-sensible records and documentation is not provided, the auditor may adjust the timeline to accommodate the format of the records and documentation.

(b) Auditors shall obtain an understanding of the person's internal controls that are significant within the context of the examination objectives.

(c) Auditors shall obtain a sufficient understanding of the person's organization in order to design an examination plan specific to the person being audited.

(d) Auditors shall be familiar with the state's unclaimed property laws, regulations, case law, and reporting requirements.

(e) The personnel conducting the examination shall be properly supervised. Supervision includes all of the following:

(i) Providing sufficient guidance and direction to personnel assigned to the examination to address the examination objectives and follow applicable requirements.

(ii) Being informed about significant problems encountered in the examination.

(iii) Reviewing the work performed.

(iv) Providing effective on-the-job training.

(v) The nature and extent of supervision may vary depending on a number of factors, including the experience of the personnel assigned to conduct the examination.

(f) Auditors shall prepare examination documentation in sufficient detail to enable an experienced auditor, having no previous connection to the examination, to understand the basis of the examination findings from the documentation of the work performed, the property types reviewed, any estimation techniques used, and calculations made which formed a basis for the examination findings.

R 567.8 Auditor contracts.

Rule 8. (1) An auditor shall provide the person subject to examination with a copy of the auditor's contract with the state at the examination entrance conference, if the examination is conducted by an auditor that is not an employee of the state.

(2) If the person subject to examination believes that the auditor has not complied with the contract or the examination standards, and that noncompliance has or is likely to materially affect the results of the examination, the person should notify the administrator.

(3) The administrator shall monitor auditor contracts and confirm compliance with the provisions of the contract and with the audit standards.

(4) The administrator shall investigate any complaints regarding an auditor that are received from a person subject to an examination.

(5) If the administrator determines that the auditor has not conducted an examination in material compliance with the examination standards, the contract, or the act, and the administrator believes that the auditor cannot conform its conduct to the standards, contract, or the act, the administrator may replace the auditor with another auditor to complete the examination.

R 567.9 Examination entrance conference.

Rule 9 (1) The administrator shall determine before or as part of the entrance conference whether the person is an “eligible holder,” the basis for that determination, and whether the person has elected to follow the streamlined audit process. All of the following apply:

(a) If the eligible holder claims its status based on a percentage of payroll or percentage of real and tangible personal property, except inventory, owned or rented in this state, the percentage must be 20% or greater than the percentage in paragraph (i) or (ii) of this subdivision:

(i) The numerator is the aggregate Michigan payroll during the entire 4 years that follow the dormancy period and the denominator is the aggregate of all payroll during the entire 4 years that follow the dormancy period.

(ii) The numerator is the aggregate of all Michigan real and tangible personal property, except inventory, owned or rented in Michigan during the entire 4 years that follow the dormancy period and the denominator is the aggregate of all real and tangible personal property, except inventory, owned or rented everywhere during the entire 4 years that follow the dormancy period.

(b) If the eligible holder claims its status based on employment in this state of the majority of officers that direct, control, and coordinate the activities of the business, the percentage must be greater than 50% where the numerator is the aggregate number of days all officers were employed in this state during the entire 4 years that follow the dormancy period and the denominator is the aggregate number of days all officers were employed anywhere during the entire 4 years that follow the dormancy period. For purposes of this subrule, a “day” includes any part of a calendar day.

(c) An eligible holder wholly owns a subsidiary corporation in this state if it directly owns 100% of the subsidiary corporation or if it owns 100% of the subsidiary corporation through 1 or more wholly owned intermediate subsidiaries.

(2) If the person subject to examination disputes the determination that it is not an “eligible holder,” the person may request a redetermination by the administrator. Within 30 business days of the determination, the person shall provide the basis for disputing the determination and may provide additional supporting information to the administrator. Within 30 business days of receipt of request for redetermination, the administrator shall determine if the person is an eligible holder and shall notify the person of the decision. If the administrator is not able to provide a response within 30 business days, the administrator will provide the requestor with the expected date for a response, not to exceed 15 business days.

(3) The auditor shall contact the person subject to examination to schedule an entrance conference within 30 days from the date of the notice provided in R 567.5. At this time, a proposed confidentiality agreement shall also be provided to the person subject to examination. If contact with the person subject to the examination is not made within 30 days, the auditor shall notify the administrator or his or her designee to explain the cause for delay.

(4) At the entrance conference, the auditor shall provide the person the following information:

- (a) Identification of the states participating in the examination.
- (b) A description of the components and stages of the examination.
- (c) Expected duration of the examination.
- (d) A description of the respective responsibilities of the person subject to examination and the auditor.
- (e) Identification of the potential types of property that may be subject to examination.
- (f) An initial records request.
- (g) Identification of the time period that is subject to examination.
- (h) The applicable dormancy periods for each property type subject to examination as well as the statutory citations that govern the dormancy period for each property type.
- (i) Explanation of the principles of unclaimed property law, applicable case law, and the process of reporting property to multiple states.
- (j) Explanation of the examination methods, including estimation techniques that may be used by the

auditor for those periods where records are not available or are insufficient.

(k) A document that summarizes the items discussed at the examination entrance conference.

#### R 567.10 Good faith.

Rule 10. The auditor and the person subject to examination shall act in good faith to conduct the examination under the terms and within the time frame established in the entrance conference.

#### R 567.11 Confidentiality.

Rule 11. (1) The auditor shall ensure that all nonpublic records obtained from the state and the person subject to examination are confidential records.

(2) Auditors shall not disclose confidential information obtained during the audit to any person other than to the administrator or his or her designee and, in the case of a multistate examination, to authorized representatives of a state participating in the examination but only to the extent such confidential information relates to property that may be subject to reporting in such state.

(3) Auditors shall not use confidential information obtained from the person subject to an examination for any purpose other than for purposes of the examination. Auditors shall take all reasonable steps to ensure that the confidential information provided by the person subject to an examination is securely maintained.

(4) An auditor and a person subject to examination may enter into a mutually agreeable nondisclosure agreement. However, if the person and the auditor are unable to enter into a mutually agreeable nondisclosure agreement within 30 calendar days from the date the agreement was first presented by the auditor to the person subject to the examination, then the examination shall commence without an agreement in place subject to subrules (1) to (3) of this rule.

(5) The auditor must promptly cure any deficiencies and comply with any applicable federal and state laws and regulations pertaining to unauthorized disclosures. The administrator and the auditor will cooperate to mitigate, to the extent practicable, the effects of any breach, intrusion, or unauthorized use or disclosure. The auditor must report to the administrator in writing any use or disclosure of confidential information, whether suspected or actual, other than as required by the contract within 10 days of becoming aware of the use or disclosure or the shorter time period as is reasonable under the circumstances.

#### R 567.12 Records format.

Rule 12. (1) In order to conduct the examination efficiently, a searchable machine-sensible record is preferred. The person subject to examination may provide information in an alternative format such as hardcopy, microfilm, microfiche, or other storage-only imaging systems in the form of a machine-sensible record. The auditor may adjust the timeline for the examination if a searchable machine-sensible record is not provided.

(2) For purposes of examining accounting records, machine-sensible records shall be capable of being retrieved and converted to a standard record format, such as, but not limited to, chart of accounts, income statement, balance sheet, account ledgers, and bank reconciliations. The person subject to examination is not required to retrieve and convert machine-sensible records other than those created in the ordinary course of business.

(3) All hardcopies and data stored on microfilm, microfiche, or other storage-only imaging systems shall be provided in a manner that allows the auditor to locate any particular record.

#### R 567.13 Remediation.

Rule 13. (1) After the compilation of the preliminary findings from an examination, the auditor shall provide a copy of the findings to the person subject to examination and a notice that a remediation

period of 120 days begins upon receipt of the findings. During the remediation period, the property presumed abandoned may be remediated from the preliminary findings by providing documents to the auditor that include 1 or more of the following:

- (a) Documentation of accounting or data entry error.
- (b) Documentation that the last known owner address is not in this state or that the owner address is unknown and the person subject to an examination is not domiciled in this state.
- (c) Documentation from the presumed owner indicating that the property is or is not owned by that person.
- (d) Documentation of transactions or other activity by an owner that establishes that the property has not been abandoned.
- (e) Documentation showing that the apparent liability has been satisfied.
- (f) Documentation that the obligation did not exist or is not fixed and certain.
- (g) Other documentation that proves that the property is not subject to or presumed abandoned under the act.

(2) Remediation documentation shall be provided to the auditor conducting the examination within the 120 day remediation period unless the auditor grants an extension of the remediation period. Extension of the period shall be granted where the person has made a good faith effort to provide the documentation as described in subrule (1) of this rule.

(3) Within 30 days of the expiration of the original or extended remediation period, a closing conference shall be held between the auditor and the person subject to an examination at which time the total unclaimed funds reporting liability resulting from the examination shall be calculated.

#### R 567.14 Examination report.

Rule 14. (1) The examination report shall be filed by the auditor with the administrator or his or her designee within 45 days following the closing conference with the person subject to examination.

(2) During the time period described in subrule (1) of this rule, the auditor shall adjust the calculation of the potential amount of property due based on any additional information presented to the auditor at the closing conference.

(3) A copy of the examination report shall be provided to the person subject to the examination.

#### R 567.15 Subsequent examinations.

Rule 15. (1) Upon acceptance of the audit report by the administrator and receipt of the property or amount deliverable, at the administrator's discretion, the administrator shall not conduct or authorize a subsequent examination of the person for the property types and time periods covered in the examination.

(2) Intentional misrepresentation, evasion, or fraud on the part of the person will void any such agreement.

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**NOTICE OF PUBLIC HEARING**

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MICHIGAN DEPARTMENT OF TREASURY  
STATE TREASURER  
NOTICE OF PUBLIC HEARING  
AUDIT STANDARDS FOR EXAMINATIONS UNDER THE  
UNIFORM UNCLAIMED PROPERTY ACT

ADMINISTRATIVE RULES 2014-109 TY

The Michigan Department of Treasury, Bureau of Tax Policy will hold a public hearing at the following time and place to receive comments by interested persons on proposed rules on auditing standards for the conduct of examinations of unclaimed property under the Uniform Unclaimed Property Act:

Date: November 10, 2016

Time: 9:00 a.m. – 11:30 a.m.

Location: Richard H. Austin Building  
430 West Allegan Street  
Lansing, Michigan 48922  
State Treasurer's Board Room, First Floor

The proposed rules will implement the directive in 2013 PA 148, MCL 567.251(4) that Treasury promulgate rules on audit standards for examinations of unclaimed property by Treasury auditors. The rules are intended to provide holders of unclaimed property with the assurance that they are treated fairly and uniformly in an examination of unclaimed property and that generally accepted auditing standards are used to the extent applicable. The proposed rules will also implement the streamlined audit procedure for unclaimed property provided by 2015 PA 242, MCL 567.251b.

These rules are promulgated by authority conferred on the State Treasurer by sections 31 and 40 of the Uniform Unclaimed Property Act, MCL 567.251 and MCL 567.260. These rules will become effective immediately upon filing with the Secretary of State.

Interested parties may also submit written comments on the rules to the Department of Treasury, Bureau of Tax Policy, Tax Policy Division, Attn: Sara Clark Pierson, 430 West Allegan St., Lansing, Michigan 48922, or by facsimile to 517-241-4267, or electronically to [Treas\\_Tax\\_Policy@michigan.gov](mailto:Treas_Tax_Policy@michigan.gov) by no later than 5:00 p.m. on November 10, 2016.

The rules are published on the Michigan Government web site at <http://www.michigan.gov/orr> and will be in the November 1, 2016 issue of the Michigan Register. Copies of the draft rules may also be obtained by mail or electronic request at the addresses above.

Persons with disabilities requiring additional accommodations for effective participation in the hearing should telephone Sara Clark Pierson at 517-373-9600 at least one week in advance of the hearing.

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**PROPOSED ADMINISTRATIVE RULES**

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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

AIR QUALITY DIVISION

**AIR POLLUTION CONTROL**

~~PART 6: EMISSION LIMITATION AND PROHIBITIONS--  
EXISTING SOURCES OF VOLATILE ORGANIC COMPOUND EMISSIONS~~

Draft October 10, 2016

Filed with the Secretary of State on

These rules become effective immediately upon filing with the Secretary of State unless adopted under section 33, 44, or 45(a) of the 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 environmental quality by sections 5503 and 5512 of the 1994 PA 451, MCL 324.5503 and 324.5512, and Executive Reorganization Order Numbers 1995-16, 2009-31, and 2011-1, MCL 324.99903, 324.99919, and, 324. 99921)

R 336.1610, R 336.1611, R 336.1612, R 336.1613, R 336.1614, R 336.1618, R 336.1619, R 336.1622, R 336.1625, R 336.1627, R 336.1628, R 336.1629, R 336.1632, R 336.1651, R 336.1660, and R 336.1661 of the Michigan Administrative Code are amended, as follows:

**PART 6. EMISSION LIMITATIONS AND PROHIBITIONS--  
EXISTING SOURCES OF VOLATILE ORGANIC COMPOUND EMISSIONS**

R 336.1610 Existing coating lines; emission of volatile organic compounds from existing automobile, light-duty truck, and other product and material coating lines.

Rule 610. (1) A person shall not cause or allow the emission of volatile organic compounds from the coating of automobiles and light-duty trucks, from any existing coating line, in excess of the applicable emission rates shown in table 62.

(2) A person shall not cause or allow the emission of volatile organic compounds from the coating of any of the following, from an existing coating line, in excess of the applicable emission rates shown in column A of table 63 or the equivalent emission rates in column B of table 63:

- (a) Cans.
- (b) Coils.
- (c) Large appliances.
- (d) Metal furniture.
- (e) Magnet wire.
- (f) The nonmetallic surfaces of fabrics, vinyl, or paper.

(3) Subrule (2) of this rule notwithstanding, and as an alternative to the allowable emission rate established by table 63, the existing paper coating lines at Fletcher paper company of Alpena may

comply with subrule (2) of this rule by not exceeding a volatile organic compound emission rate of 180 tons per calendar year and 30 tons per calendar month.

(4) A person who is responsible for the operation of a coating line that is subject to this rule shall obtain current information and keep records necessary for the determination of compliance with this rule, as required in R 336.2041.

(5) For each coating line, compliance with the emission limits specified in table 62 and table 63 shall be based upon all of the following provisions:

(a) For prime coat operations that utilize an electrodeposition process in automobile and light-duty truck coating lines that are regulated under table 62, compliance shall be based upon all coatings that belong to the same coating category that is used during each calendar month averaging period. For all other coatings, compliance shall be based upon the volume-weighted average of all coatings which belong to the same coating category and which are used during each calendar day averaging period. The department may specifically authorize compliance to be based upon a longer averaging period, which shall not be more than 1 calendar month.

(b) If coatings that belong to more than 1 coating category are used on the same coating line during the specified averaging period, then compliance shall be determined separately for each coating category.

(c) The information and records as required by subrule (4) of this rule.

(6) Compliance with the emission limits specified in this rule shall be determined using the applicable method described in the following subdivisions:

(a) For the prime-electrodeposition process and for the final repair emission limits specified in table 62, the method described in either R 336.2040(12)(a) if the coating line does not have an add-on emissions control device or R 336.2040(12)(b) if the coating line has 1 or more add-on emissions control devices.

(b) For the primer surfacer and topcoat emission limits specified in table 62, compliance shall be determined by the methodology described in the publication entitled "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-duty Truck Topcoat Operations," EPA-450/3-88-018, December, 1988, which is adopted by reference in these rules. ~~A copy of this document may be inspected at the Lansing office of the Air Quality Division of the Department of Environmental Quality. A copy of this document may be obtained from the Department of Environmental Quality, Air Quality Division, P.O. Box 30260, Lansing, Michigan 48909-7760, or the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161, order no. PB89152276, at a cost as of the time of adoption of these rules of \$36.50 each.~~ **adopted by reference in R 336.1902.** References to topcoat operations in this publication shall also apply to primer surfacer lines, with the following added provisions:

(i) Unless specifically included in the adopted publication, if an anti-chip, color-in-prime, blackout, or spot primer coating is applied as part of either a primer surfacer or topcoat coating operation, then the anti-chip, color-in-prime, blackout, or spot primer coating shall be included in the transfer efficiency tests for that coating operation, conducted according to section 18 or 19 of the adopted publication, and the transfer efficiency values in section 20 of the adopted publication shall not be used.

(ii) If spot primer is applied as part of a primer surfacer coating operation, then the daily usage of spot primer, as calculated in section 8 of the adopted publication, may be derived from monthly usage of spot primer based upon the number of vehicles processed in the primer surfacer operation each day. If an add-on emissions control device is used on the coating line application area to achieve compliance with the primer surfacer or topcoat emission limits specified in table 62, then the capture efficiency shall be determined in accordance with R 336.2040(10).

(c) For the emission limits specified in column B of table 63, the method described in either R 336.2040(12)(e) if the coating line does not have an add-on emissions control device or R 336.2040(12)(f) if the coating line has 1 or more add-on emissions control devices.

(d) For the emission limits specified in column A of table 63, the method described in either R 336.2040(12)(a) if the coating line does not have an add-on emissions control device or R 336.2040(12)(b) if the coating line has 1 or more add-on emissions control devices.

(7) The provisions of this rule, with the exception of the provisions in subrule (4) of this rule, ~~shall~~**do** not apply to coating lines ~~which~~**that** are within a stationary source and ~~which~~**that** have a combined actual emission rate of volatile organic compounds of less than 100 pounds per day or 2,000 pounds per month as of the effective date of this amendatory rule. If the combined actual emission rate equals or is more than 100 pounds per day for a subsequent day or 2,000 pounds per month for a subsequent month, then this rule shall permanently apply to the coating lines.

(8) A person may exclude low-use coatings that total 55 gallons or less per rolling 12-month period at a stationary source from the provisions of this rule, except for subrule (4) of this rule.

(9) Between November 1 and March 31, a person may discontinue the operation of a natural gas-fired afterburner that is used to achieve compliance with the emission limits in this rule, unless the afterburner is used to achieve compliance with, or is required by, any of the following:

- (a) Any other provision of these rules.
- (b) A permit to install.
- (c) A permit to operate.
- (d) A voluntary agreement.
- (e) A performance contract.
- (f) A stipulation.
- (g) An order of the department.

(10) If the operation of a natural gas-fired afterburner is discontinued between November 1 and March 31 under subrule (9) of this rule, then both of the following provisions ~~shall~~ apply between November 1 and March 31:

- (a) All other provisions of this rule, except for the emission limits, shall remain in effect.
- (b) All other measures that are used to comply with the emission limits in this rule between April 1 and October 31 shall continue to be used.

(11) Tables 62 and 63 read as follows:

**Table 62**  
**Volatile organic compound emission limits for existing automobile and light-duty truck coating lines**

Coating Category	Emission Limit
1. Prime-electrodeposition process	1.2 <sup>1</sup>
2. Primer surfacer <sup>3</sup>	14.9 <sup>2</sup>
3. Topcoat	14.9 <sup>2</sup>
4. Final repair	4.82 <sup>1</sup>

1. Pounds of volatile organic compounds per gallon of coating, minus water, as applied.
2. Pounds of volatile organic compounds per gallon of applied coating solids.
3. The primer surfacer or topcoat coating category would include an anti-chip, blackout, or spot primer coating if this coating is applied as part of the primer surfacer or topcoat coating operation.

**Table 63**  
**Volatile organic compound emission limits for existing coating lines**

Coating Category	Column A <sup>1</sup>	Column B <sup>2</sup>
A. Metallic surfaces		
1. Coating of cans		
(a) Sheet basecoat (exterior and interior) and overvarnish; 2-piece Can exterior (basecoat and overvarnish)	2.8	
(b) 2- and 3-piece can interior body spray; 2-piece can interior end (spray or roll coat)	4.2	
(c) 3-piece can side-seam	5.5	
(d) End sealing compound	3.7	
2. Coating of coils	2.6	
3. Coating of large appliances <sup>3</sup>	2.8	7.5
4. Coating of metal furniture <sup>3</sup>	3.0	8.4
5. Insulation of magnet wire	1.7	
B. Nonmetallic surfaces		
1. Coating of fabric	2.9	
2. Coating of vinyl	3.8	
3. Coating of paper	2.9	

<sup>1</sup>Pounds of volatile organic compounds emitted per gallon of coating, minus water, as applied.

<sup>2</sup>Pounds of volatile organic compounds emitted per gallon of applied coating solids. The purpose of column B emission limits is to allow credit for transfer efficiencies greater than the baseline transfer efficiency. Note: department approval of the transfer efficiency test method is required.

<sup>3</sup>The allowable emission rate does not apply to coatings that are used for the repair of scratches and nicks.

R 336.1611 Existing cold cleaners.

Rule 611. (1) A person shall not operate an existing cold cleaner unless all of the provisions of subrules (2) to (4) of **this rule** are met or unless an equivalent control method is approved by the department.

- (2) A person shall not operate an existing cold cleaner unless all of the following conditions are met:
- (a) A cover shall be installed and shall be closed when parts are not being handled in the cleaner.
  - (b) A device shall be available for draining cleaned parts, and the parts shall be drained not less than 15 seconds or until dripping ceases.
  - (c) Waste organic solvent shall be stored only in closed containers, unless the stored solvent is demonstrated to be a safety hazard and is disposed of so that not more than 20%, by weight, is allowed to evaporate into the atmosphere.
- (3) A person who is responsible for the operation of a cold cleaner shall develop written procedures for compliance with the provisions of this rule. The procedures shall be posted in an accessible, conspicuous location near the cold cleaner.
- (4) The provisions of this rule do not apply to cold cleaners that are subject to the provisions of, **40 C.F.R. Part 63, Subpart T, the halogenated solvent cleaner "National Emission Standards for Halogenated Solvent Cleaning" hazardous air pollutants (1995)**, which are adopted by reference in R 336.165-1902.

R 336.1612 Existing open top vapor degreasers.

Rule 612. (1) ~~After June 30, 1980, it is unlawful for~~ A person ~~to~~**shall not** operate an existing open top vapor degreaser unless all of the provisions of ~~the following subrules~~**this rule** are met or unless an equivalent control method is approved by the department.

(2) ~~It is unlawful for~~ A person ~~to~~**shall not** operate an existing open top vapor degreaser unless all of the following conditions are met:

(a) A cover ~~shall be~~ installed that is designed to be opened and closed easily without disturbing the vapor zone. The cover ~~shall~~**must** be closed at all times, except when processing workloads through the degreaser.

(b) A procedure ~~shall~~**is** be developed to minimize organic solvent carryout by doing all of the following:

(i) Racking parts to allow complete drainage.

(ii) Moving parts in and out of the degreaser at a vertical speed of less than 11 feet per minute when a powered hoist is used to raise or lower the parts.

(iii) Holding parts in the vapor zone not less than 30 seconds or until condensation ceases.

(iv) Tipping or tumbling parts in a manner such that no pools of organic solvent remain on the cleaned parts before removal.

(v) Allowing parts to dry within the degreaser for not less than 15 seconds or until visually dry.

(c) Total workload ~~shall~~**does** not occupy more than 1/2 of the degreaser's open top area.

(d) Organic solvent ~~shall~~**is** not be sprayed above the vapor level.

(e) Organic solvent leaks ~~shall be~~**are** repaired immediately.

(f) The degreaser ~~shall be~~ operated in a manner such that no water is visibly detectable in solvent exiting the water separator.

(g) Exhaust ventilation ~~shall~~**do** not exceed 65 cubic feet per minute per square foot of degreaser open area, unless necessary to meet OSHA requirements.

(h) Waste organic solvent ~~shall be~~ stored only in closed containers, unless demonstrated to be a safety hazard and disposed of in a manner such that not more than 20% by weight is allowed to evaporate into the atmosphere.

(3) A person responsible for the provisions of this rule shall develop written procedures for the operation of all such provisions, and such procedures shall be posted in an accessible, conspicuous location near the vapor degreaser.

(4) The provisions of this rule do not apply to any existing open top vapor degreaser having an air/vapor interface of less than 4 square feet.

(5) The provisions of this rule do not apply to an existing open top vapor degreaser that is subject to the provisions of, **40 C.F.R. Part 63, Subpart T, the halogenated solvent cleaner “National Emission Standards for Halogenated Solvent Cleaning,” hazardous air pollutants (1995),** which are adopted by reference in R 336.1651**1902**.

R 336.1613 Existing conveyORIZED cold cleaners.

Rule 613. (1) ~~After June 30, 1980, it is unlawful for A person to~~**shall not** operate an existing conveyORIZED cold cleaner unless all of the provisions of ~~the following subrules~~**this rule** are met or unless an equivalent control method is approved by the department.

(2) ~~It is unlawful for A person to~~**shall not** operate an existing conveyORIZED cold cleaner unless all of the following conditions are met:

(a) A procedure ~~shall be~~**is** developed to minimize organic solvent carryout by doing both of the following:

(i) Racking parts for best drainage.

(ii) Maintaining the conveyor speed at a level that ~~shall~~**will** prevent dripping of solvent off the cleaned parts.

(b) Organic solvent leaks ~~shall be~~**are** repaired immediately.

(c) The cleaner ~~shall be~~**is** operated in a manner such that no water is visibly detectable in solvent exiting the water separator.

(d) Waste organic solvent ~~shall be~~**is** stored only in closed containers, unless demonstrated to be a safety hazard and disposed of in a manner such that not more than 20% by weight is allowed to evaporate into the atmosphere.

(3) A person responsible for the provisions of this rule shall develop written procedures for the operation of all such provisions, and such procedures shall be posted in an accessible, conspicuous location near the cold cleaner.

(4) The provisions of this rule do not apply to an existing conveyORIZED cold cleaner that is subject to the provisions of, **40 C.F.R. Part 63, Subpart T, the halogenated solvent cleaner “National Emission Standards for hazardous air pollutants (1995)Halogenated Solvent Cleaning,”** which are adopted by reference in R 336.1651**1902**.

R 336.1614 Existing conveyORIZED vapor degreasers.

Rule 614. (1) After June 30, 1980, it is unlawful for a person to operate an existing conveyORIZED vapor degreaser unless all of the provisions of ~~the following subrules~~**in this rule** are met or unless an equivalent control method is approved by the department.

(2) It is unlawful for a person to operate an existing conveyORIZED vapor degreaser unless all of the following conditions are met:

(a) A procedure ~~shall be~~**is** developed to minimize organic solvent carryout by doing both of the following:

(i) Racking parts for best drainage.

(ii) Maintaining the vertical conveyor speed at less than 11 feet per minute.

(b) Organic solvent leaks ~~shall be~~**are** repaired immediately.

(c) The degreaser ~~shall be~~**is** operated in a manner such that no water is visibly detectable in solvent exiting the water separator.

(d) Exhaust ventilation ~~shall~~**does** not exceed 65 cubic feet per minute per square foot of degreaser open area, unless necessary to meet OSHA requirements.

(e) Waste organic solvent ~~shall be~~ stored only in closed containers, unless demonstrated to be a safety hazard and disposed of in a manner such that not more than 20% by weight is allowed to evaporate into the atmosphere.

(3) A person responsible for the provisions of this rule shall develop written procedures for the operation of all such provisions, and such procedures shall be posted in an accessible, conspicuous location near the vapor degreaser.

(4) The provisions of this rule do not apply to an existing conveyORIZED vapor degreaser that is subject to the provisions of, **40 C.F.R. Part 63, Subpart T, the halogenated solvent cleaner “National Emission Standards for hazardous air pollutants (1995) Halogenated Solvent Cleaning”**, which are adopted by reference in R 336.1651**1902**.

R 336.1618 Use of cutback or emulsified paving asphalt.

Rule 618. (1) After May 1, 2012, a person shall not manufacture, mix, store, use, or apply cutback or emulsified paving asphalt, from May 1 to September 30, unless the cutback or emulsified paving asphalt contains no greater than 3 ~~percent~~**%** volatile organic compounds by volume, which is equivalent to 6.0 milliliters of oil distillate, **from a 200 milliliters sample**, at 500 degrees Fahrenheit as determined by a test method in subrule (2) of this rule. This rule is applicable to both existing and new sources as defined by the dates in R 336.1601(a)(i) and R 336.1701.

(2) Compliance with subrule (1) of this rule shall be determined by ~~one~~**1** of the following test methods:

(a) ASTM Method D6997, Standard Test Methods and Practice for Distillation of Emulsified Asphalts, **adopted by reference in R 336.1902**.

(b) AASHTO T59 Standard Method of Test for Emulsified Asphalts, **adopted by reference in R 336.1902**.

(c) ASTM Method D402, Standard Test Method For Distillation of Cutback Asphaltic (Bituminous) Products, **adopted by reference in R 336.1902**.

(d) AASHTO T78, Standard Method of Test for Cutback Asphaltic (~~Bituminous~~) Products, **adopted by reference in R 336.1902**.

~~—(3) The above test methods are adopted in these rules by reference and are available by the following:~~

~~—(a) A copy may be inspected at the Lansing office of the Air Quality Division of the Department of Environmental Quality.~~

~~—(b) A copy may be obtained from the Department of Environmental Quality, Air Quality Division, P.O. Box 30260, Lansing, Michigan 48909-7760, at a cost as of the time of adoption of these rules of \$50.00 for ASTM and \$75.00 for AASHTO.~~

~~—(c) ASTM Method D6997 and D402 are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, Post Office Box C700, West Conshohocken, Pennsylvania 19428-2959, or from its website [www.astm.org](http://www.astm.org) at a cost of \$35.00 and \$40.00 respectively.~~

~~—(d) AASHTO T59 and T78 are available from the American Association of State Highway and Transportation Officials, 444 North Capitol Street N.W., Suite 249, Washington, DC 20001, or from its website [www.transportation.org](http://www.transportation.org) for a cost of \$65.00 and \$40.00 respectively.~~

~~—(4)~~ **(3)** Any person subject to this rule shall maintain records of the manufacture, mixing, storage, use or application of any cutback or emulsified paving asphalt containing volatile organic compounds during the period May 1 to September 30. The records shall include information on the volatile organic

compound content documented in the product data sheets or material safety data sheets. The records shall be available to any representative of the department during normal business hours, and copies shall be provided to the department upon request.

~~(5)~~ (4) The following definitions apply to this rule and supersede any similar definitions in R 336.1103.

(a) “Asphalt” means a dark-brown to black solid, liquid, or semisolid cementitious material composed primarily of bitumens that occur naturally or are obtained as a residue of petroleum refining.

(b) “Cutback paving asphalt” means asphalt ~~which~~**that** has been liquefied by blending with an organic solvent and ~~which~~**that** is used for the purpose of paving or repairing, or paving and repairing, a road surface.

(c) “Emulsified paving asphalt” means asphalt ~~which~~**that** has been liquefied by mixing with water and an emulsifying agent and ~~which~~**that** is used for the purpose of paving or repairing, or paving and repairing, a road surface.

R 336.1619 Standards for perchloroethylene dry cleaning equipment; ~~adoption of standards by reference.~~

Rule 619. A person responsible for the operation of a perchloroethylene dry cleaner that is subject to 40 C.F.R. Part 63, Subpart M, §§~~63.320 to 63.325~~ (2000), the perchloroethylene dry cleaner “~~N~~**National Perchloroethylene Air Emission Standards for Dry Cleaning Facilities**” hazardous air pollutants, shall comply with 40 C.F.R. Part 63, Subpart M (2000). The provisions of 40 C.F.R. Part 63, Subpart M, §§~~63.320 to 63.325~~, are ~~;~~ adopted by reference in **R 336.1902**. ~~these rules and are available for inspection and purchase at the Department of Environmental Quality, Air Quality Division, P.O. Box 30260, Lansing, Michigan 48909 7760, at cost. Copies may be obtained from the Superintendent of Documents, Government Printing Office, P.O. Box 371954, Pittsburgh, Pennsylvania 15250 7954, at a cost as of the time of adoption of these rules of \$66.00, or on the United States government printing office internet web site at <http://www.access.gpo.gov>.~~

R 336.1622 Emission of volatile organic compounds from existing components of petroleum refineries; refinery monitoring program.

Rule 622. (1) A person shall not cause or allow the emission of any volatile organic compound from any existing component, as listed in subrule (2) of this rule, of a petroleum refinery, including topping plants, unless all of the provisions of this rule are satisfied or unless an equivalent control method, as approved by the department, is implemented. An alternate acceptable control method is described in 40 C.F.R., **Part 60**, Subpart GGG, §§~~60.590 to 60.593~~ (2000); “~~S~~**Standards of P**performance for **E**quipment **L**leaks of **V**OC volatile organic compound in **P**petroleum **R**refineries for which **C**onstruction, **R**econstruction, or **M**odification **C**ommenced **A**fter **J**anuary **4**, **1983**, and on or **B**efore **N**ovember **7**, **2006**,”. ~~The provisions of 40 C.F.R., Part 60, Subpart GGG (2000), are adopted by reference in **R 336.1902**. these rules and are available for inspection and purchase at the Department of Environmental Quality, Air Quality Division, P.O. Box 30260, Lansing, Michigan 48909 7760, at cost. Copies may be obtained from the Superintendent of Documents, Government Printing Office, P.O. Box 371954, Pittsburgh, Pennsylvania 15250 7954, at a cost as of the time of adoption of these rules of \$66.00, or on the United States government printing office internet web site at <http://www.access.gpo.gov>.~~

(2) A person shall not operate an existing petroleum refinery unless a monitoring program and schedule approved by the department is implemented. This monitoring program and schedule shall provide for, and identify by type and refinery unit, by quarter, all of the following:

- (a) An annual inspection of all of the following components:
  - (i) Pump seals.
  - (ii) Process valves in liquid volatile organic compound service.
  - (iii) Process drains.
  - (iv) Components that are difficult to monitor.
- (b) A quarterly inspection of all of the following components:
  - (i) Compressor seals.
  - (ii) Process valves in gaseous volatile organic compound service.
  - (iii) Pressure-relief valves in gaseous volatile organic compound service.
- (c) A weekly visual inspection of all pump seals from which volatile organic compounds could leak.
- (d) An immediate inspection of any pump seal from which a liquid, which includes a volatile organic compound, is observed dripping.
- (e) An inspection of any relief valve from which a volatile organic compound could discharge within 2 normal business days of its venting to the atmosphere.
- (f) An inspection as soon as is practical, but not later than 2 normal business days, after the repair of any component that was found leaking.

(3) Except for the visual inspections required by subrule (2)(c) of this rule, all inspections shall be performed using equipment and procedures as specified in **40 C.F.R. Part 60, Appendix A, federal reference test Method 21, adopted by reference in R 336.1902.** ~~as described in R 336.2004.~~ For the purpose of this rule, A component is leaking when a concentration of more than 10,000 ppm, by volume, as methane or hexane, is measured by ~~M~~method 21.

(4) If implementation of the quarterly leak detection program as specified in subrule (2)(b) of this rule shows that 2% or less of the process valves in a given refinery unit are leaking for 2 consecutive quarters, then the inspections of process valves in that refinery unit may be skipped for 1 quarter. If 2% or less of the process valves in a given refinery unit are leaking for 5 consecutive quarters, then the inspections may be done annually. If a subsequent inspection shows that more than 2% of the process valves are leaking, then quarterly inspections of valves shall again be required.

(5) The percent of valves leaking on a refinery unit, as referenced in subrule (4) of this rule, shall be determined by dividing the total number of valves found to be leaking on the refinery unit during the specified monitoring period by the total number of valves on the refinery unit that are required to be monitored by this rule.

- (6) The provisions of this rule do not apply to any of the following:
  - (a) Pressure-relief valves that vent to an operating flare header, fuel gas system, or vapor control device.
  - (b) Components that are unsafe to monitor, until monitoring personnel would no longer be exposed to immediate danger.
  - (c) Storage tank valves.
  - (d) Valves that are not externally regulated.
  - (e) Components that process, transfer, or contain 1 or more volatile organic compounds in the liquid phase under actual conditions, all of which have a true vapor pressure of less than 1.55 psia.
- (7) Notwithstanding the provisions of subrule (2) of this rule, the monitoring of components, such as process drains and valves, that are used solely in effecting a refinery unit turnaround is required only within the quarter following the turnaround.

(8) A leak that is detected pursuant to the monitoring program provisions of subrule (2) of this rule or for any other reason shall be repaired. Except as provided in subrule (10) of this rule, this leak shall be repaired as soon as possible, but not more than 15 days after the leak is detected. Until the time that the leak is repaired and retested verifying a successful repair, the component causing the leak shall bear a weather-resistant, numbered, identifying tag that indicates the date the leak was discovered.

(9) A log of all leaks detected pursuant to the provisions of subrules (2), (3), (5), and (6) of this rule or by any other method shall be maintained by the operator of the petroleum refinery. This log shall identify all of the following:

- (a) The leaking component by type and location.
- (b) The number of the identifying tag.
- (c) The date the leak was discovered.
- (d) The date the leak was repaired.
- (e) The date the component was retested after the repair with an indication of the testing results.
- (f) The person or persons who performed the inspections. The log shall be made available to any representative of the department during normal business hours of the refinery and shall be kept for a minimum of 2 years.

(10) If a leak cannot be repaired within 15 days due to circumstances beyond the control of the operator of the petroleum refinery or because the leaking component cannot be repaired unless a significant portion of the refinery unit is shut down for turnaround, then the operator shall maintain a separate log of the nonrepair. The log shall identify all of the following:

- (a) The leaking component by type, location, and refinery unit.
- (b) The date on which the leak was discovered.
- (c) The reason why the leak cannot be repaired within 15 days.
- (d) The estimated date of repair.

(11) Within 25 days of the end of the previous quarter, the operator shall submit to the department a report ~~which~~**that** contains all of the following information for that quarter:

- (a) The total number of components tested, by type.
- (b) The total number of components found leaking and repaired, by type.
- (c) The accumulative total number of components, by refinery unit and type, found to be leaking and not repaired within the required time period and the reason for nonrepair.
- (d) The type or types of monitoring equipment utilized during the quarter. The report required by this subrule shall be made on a form approved by the department.

(12) The department may require the early shutdown for turnaround of a refinery unit if the department feels that there are a significant number of leaks that would justify this action.

(13) Except for safety pressure-relief valves, a person shall not operate existing petroleum refinery equipment that has a valve at the end of a pipe or line ~~which~~**that** contains a volatile organic compound, unless the pipe or line is sealed with a second valve, blind flange, plug, or cap. The sealing device may be removed only when a sample is being taken or during maintenance operations. A current, written description detailing routine sampling procedures and listing the sealing devices involved shall be maintained and, upon request by the department, shall be submitted to the department in an acceptable format.

R 336.1625 Emission of volatile organic compound from existing equipment utilized in manufacturing synthesized pharmaceutical products.

Rule 625. (1) A person shall not cause or allow the emission of any volatile organic compound from existing equipment utilized in the manufacturing of synthesized pharmaceutical products, unless all of

the provisions of the following subrules are met or unless an equivalent control method, as approved by the department, is implemented.

(2) A person shall not operate an existing reactor, distillation operation, crystallizer, centrifuge, or vacuum dryer, unless the emissions from this equipment are controlled by either of the following:

(a) A condenser, such that the outlet gas temperature does not exceed the following levels:

(i) Minus 25 degrees Celsius (minus 13 degrees Fahrenheit) when the sum of the partial pressure or pressures of the volatile organic compound or compounds in the gas stream, as measured at 20 degrees Celsius (68 degrees Fahrenheit), is greater than 300 millimeters of mercury (5.8 pounds per square inch).

(ii) Minus 15 degrees Celsius (5 degrees Fahrenheit) when the sum of the partial pressure or pressures of the volatile organic compound or compounds in the gas stream, as measured at 20 degrees Celsius (68 degrees Fahrenheit), is greater than 150 millimeters of mercury (2.9 pounds per square inch).

(iii) Zero degrees Celsius (32 degrees Fahrenheit) when the sum of the partial pressure or pressures of the volatile organic compound or compounds in the gas stream, as measured at 20 degrees Celsius (68 degrees Fahrenheit), is greater than 75 millimeters of mercury (1.5 pounds per square inch).

(iv) Ten degrees Celsius (50 degrees Fahrenheit) when the sum of the partial pressure or pressures of the volatile organic compound or compounds in the gas stream, as measured at 20 degrees Celsius (68 degrees Fahrenheit), is greater than 52.5 millimeters of mercury (1.0 pounds per square inch).

(v) Twenty-five degrees Celsius (77 degrees Fahrenheit) when the sum of the partial pressure or pressures of the volatile organic compound or compounds in the gas stream, as measured at 20 degrees Celsius (68 degrees Fahrenheit), is greater than 26.2 millimeters of mercury (0.5 pounds per square inch).

(b) An alternative control technology, the use of which results in an emission level no greater than would occur by meeting the provisions of subdivision (a) of this subrule. For purposes of comparing the actual emission level from an alternative control technology to the allowable emission level resulting from meeting the provisions of subdivision (a) of this subrule, the actual emission level shall be determined using the methods described in ~~R 336.200440 C.F.R. Part 60, Appendix A~~ and the allowable emission level shall be determined using the calculation methods described in appendix B of "Control of Volatile Organic Emissions From Manufacture of Synthesized Pharmaceutical Products," EPA-450/2-78-029, December 1978. ~~Appendix B of EPA-450/2-78-029 is both adopted by reference in R 336.1902. these rules. A copy of the document may be obtained without charge from the Air Quality Division, Department of Environmental Quality, 106 West Allegan Street, P. O. Box 30260, Lansing, Michigan 48909-7760, or from the National Technical Information Service, 5285 Port Royal Road, Springfield, Virginia 22161, Document No. PB-290580, at a cost as of the time of adoption of these rules of \$41.00 each.~~

(3) For the purpose of this rule, the sum of the partial pressure or pressures of the volatile organic compound or compounds in the gas stream is to be determined as follows:

Where:

$$P_t = \sum_{i=1}^n (P_i)(X_i)$$

$P_t$  = Sum of the partial pressures of all volatile organic compounds.

$P_i$  = Vapor pressure of volatile organic compounds at 20 degrees Celsius (68 degrees Fahrenheit).

$X_i$  = Mole fraction of volatile organic compounds in liquid mixture.

$n$  = Number of different volatile organic compounds in liquid mixture.

i = Individual volatile organic compound.

The mole fraction,  $X_i$ , is determined as follows:

$$X_i = \frac{\text{moles of "i" in liquid mixture}}{\text{total moles of liquid mixture}}$$

The total moles of liquid mixture shall include both the moles of volatile organic compounds and volatile inorganic compounds (such as water) in the liquid mixture.

(4) Notwithstanding the provisions of subrule (2)(a) of this rule, a person shall not be required to reduce the temperature of a gas stream below the freezing point of a condensable component in that gas stream if it can be demonstrated, using intrinsic chemical data, to the satisfaction of the department, that in doing so, the condenser would be rendered ineffective. In this case, the temperature of the gas stream shall be reduced as low as can be achieved without freezing of the condenser occurring.

(5) The provisions of this rule do not apply to any single existing reactor, distillation operation, crystallizer, centrifuge, or vacuum dryer that has a maximum uncontrolled volatile organic compound emission rate of less than 15 pounds per day.

(6) A person shall not operate an existing air dryer or production equipment exhaust system unless the volatile organic compound emissions from this equipment are reduced by not less than 90% if the uncontrolled volatile organic compound emissions are 330 pounds per day or more or are reduced to less than or equal to 33 pounds per day if the uncontrolled volatile organic compound emissions are less than 330 pounds per day.

(7) A person shall not load or allow the loading of a volatile organic compound that has a vapor pressure of more than 210 millimeters of mercury (4.1 pounds per square inch), as measured at 20 degrees Celsius (68 degrees Fahrenheit), from a truck or railcar into an existing stationary vessel of more than a 2,000-gallon capacity, unless a vapor balance system or an alternate control system that provides not less than 90% control of loading emissions is utilized.

(8) A person shall not store a volatile organic compound that has a vapor pressure of more than 75 millimeters of mercury (1.5 pounds per square inch), as measured at 20 degrees Celsius (68 degrees Fahrenheit), in an existing aboveground stationary vessel, unless the stationary vessel is equipped with a pressure/vacuum conservation vent set at plus or minus 1.5 millimeters of mercury (0.03 pounds per square inch) or an alternate control system at least as effective. For purposes of comparing the actual emission level from an alternative control technology to the allowable emission level resulting from the use of a pressure/vacuum conservation vent meeting this requirement, the actual emission level shall be determined using the methods described in ~~R 336.2004-40 C.F.R. Part 60, Appendix A~~, and the allowable emission level shall be determined using the calculation methods described in appendix B of "Control of Volatile Organic Emissions From Manufacture of Synthesized Pharmaceutical Products," EPA-450/2-78-029, ~~December 1978. Appendix B of EPA-450/2-78-029 is~~ **both** adopted by reference in ~~subrule (2)(b) of this rule~~ **R 336.1902**.

(9) A person shall not operate an existing centrifuge, rotary vacuum filter, or other filter that has an exposed liquid surface, where the liquid contains a volatile organic compound or compounds and the sum of the partial pressure or pressures of volatile organic compound or compounds is 26.2 millimeters of mercury (0.5 pounds per square inch) or more, as measured at 20 degrees Celsius (68 degrees Fahrenheit), unless the equipment is enclosed.

(10) A person shall not operate an existing in-process tank that may contain a volatile organic compound at any time, unless the tank is equipped with a cover and the cover remains closed, except when production, sampling, maintenance, or inspection procedures require operator access.

(11) A person shall not operate any existing equipment utilized in the manufacturing of synthesized pharmaceutical products from which a liquid containing a volatile organic compound or compounds can

be observed dripping or running, unless the leak is repaired immediately, if possible, but not later than the first time the equipment is off-line for a period of time that is long enough to complete the repair.

(12) A person who is responsible for the operation of a synthesized pharmaceutical process subject to the provisions of this rule shall obtain current information and maintain records that are necessary for a determination of compliance with the provisions of this rule. The information shall include all of the following:

- (a) For operations subject to the provisions of subrule (2) of this rule, all of the following information:
  - (i) A list of all volatile organic compounds in each gas stream.
  - (ii) The vapor pressure, as measured at 20 degrees Celsius (68 degrees Fahrenheit), of each volatile organic compound.
  - (iii) The mole fraction of each volatile organic compound in the liquid mixture.
  - (iv) Continuous records of the gas outlet temperature of each condenser or of a parameter that ensures proper operation of an equivalent control device used pursuant to subrule (2)(b) of this rule.
- (b) For operations that are in compliance with the exemption provisions of subrule (5) of this rule, the amount of material entering and exiting each reactor, distillation operation, crystallizer, centrifuge, and vacuum dryer.
- (c) For air dryers subject to the provisions of subrule (6) of this rule, the amount of material entering and exiting each air dryer.
- (d) For operations subject to the provisions of subrule (7) of this rule, the following information:
  - (i) The date when each stationary vessel is loaded.
  - (ii) The type and vapor pressure, as measured at 20 degrees Celsius (68 degrees Fahrenheit), of each volatile organic compound loaded into each stationary vessel.
- (e) For operations subject to the provisions of subrule (9) of this rule, all of the following information:
  - (i) A list of all volatile organic compounds in the liquid.
  - (ii) The vapor pressure, as measured at 20 degrees Celsius (68 degrees Fahrenheit), of each volatile organic compound.
  - (iii) The mole fraction of each volatile organic compound in the liquid mixture.
- (f) For operations subject to the provisions of subrule (11) of this rule, the following information:
  - (i) The date each leak was detected.
  - (ii) The date each leak was repaired.

R 336.1627 Delivery vessels; vapor collection systems.

Rule 627. (1) A person shall not operate any delivery vessel that is subject to control by a vapor collection system, either vapor balance or recovery system, required by R 336.1606, R 336.1607, R 336.1608, R 336.1609, R 336.1703, R 336.1704, R 336.1705, or R 336.1706, unless all of the provisions of this rule are met.

(2) Delivery vessels shall comply with all requirements described in the ~~U.S. Environmental Protection Agency Method 27~~ **40 C.F.R. Part 60, Appendix A, Method 27**, as adopted by reference in R 336.2004(1)(v) **1902**.

(3) The owner of any delivery vessel that is subject to subrule (1) of this rule shall test the delivery vessel in accordance with ~~R 336.2004(1)(v)~~ **40 C.F.R. Part 60, Appendix A, Method 27**, within 1 year of the date of the previous test. Notification of the exact time and location of the test shall be given to the department, in writing, not less than 7 days before the actual test. If the time or location of the test changes for any reason, then the owner or operator shall notify the department as soon as practical.

(4) The test shall comply with documentation requirements described in ~~the U.S. Environmental Protection Agency~~ **40 C.F.R. Part 60, Appendix A, Method 27** and shall be submitted to the department

within 30 days of the test completion and in a form acceptable to the department. Upon successful completion of the required testing, the vessel shall be deemed provisionally certified providing the department does not invalidate the certification by issuing disapproval within 45 days of receipt of the results.

(5) There shall be no visible liquid leaks from the vessel or collection system, except when the disconnection of dry breaks in liquid lines produces a few drops of liquid.

(6) A person shall not operate any vapor collection system, either vapor balance or recovery system, required by R 336.1606, R 336.1607, R 336.1608, R 336.1609, R 336.1703, R 336.1704, R 336.1705, or R 336.1706, unless all of the provisions of subrules (7) to (11) of this rule are met.

(7) There shall be no gas detector reading greater than or equal to 100% of the lower explosive limit at a distance of 1 inch from the location of the potential leak in the vapor collection system. Leaks shall be detected by a combustible gas detector using the test procedure described in R 336.2005.

(8) There shall be no visible leaks, except from the disconnection of bottom loading dry breaks and from raising top loading vapor heads, where a few drops are permitted.

(9) The vapor collection system shall be designed and operated to prevent gauge pressure in the delivery vessel from exceeding 0.6 pounds per square inch and to prevent vacuum from exceeding -0.2 pounds per square inch gauge.

(10) The department may require the owner or operator of any vapor collection system subject to the provisions of subrule (6) of this rule to test the system in accordance with R 336.2005. The tests shall be conducted within 60 days following receipt of written notification from the department. Notification of the exact time and location of the test shall be given to the department, in writing, not less than 7 days before the actual test. Documentation of the test that states the date and location of the test, test procedures, the type of equipment used, and the results of the test shall be submitted to the department within 60 days following the last date of the test. If the time or location of the test changes for any reason, then the owner or operator shall notify the department as soon as practical.

(11) Any delivery vessel or component of a vapor collection system that fails to meet any provision of this rule shall not be operated until the necessary repairs have been made, the vessel or collection system has been retested, and the test results have been submitted to the department.

R 336.1628 Emission of volatile organic compounds from components of existing process equipment used in manufacturing synthetic organic chemicals and polymers; monitoring program.

Rule 628. (1) A person shall not cause or allow the emission of a volatile organic compound from a component of existing manufacturing process equipment at a synthetic organic chemical and polymer manufacturing plant located in any of the following counties, unless all of the provisions of subrules (2) to (16) of this rule are met or unless an equivalent control method, as approved by the department, including the control method described in 40 C.F.R., **Part 60**, subpart VV, ~~§§60.480 to 60.489 (2000)~~, **“Standards of Performance for Equipment Leaks of volatile organic compound VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006,” adopted by reference in R 336.1902,** is implemented:

- (a) Kent.
- (b) Livingston.
- (c) Macomb.
- (d) Monroe.

- (e) Muskegon.
- (f) Oakland.
- (g) Ottawa.
- (h) St. Clair.
- (i) Washtenaw.
- (j) Wayne.

~~The provisions of 40 C.F.R., Part 60, subpart VV, §§60.480 to 60.489 (2000), are adopted by reference in these rules and are available for inspection and purchase at the Department of Environmental Quality, Air Quality Division, P.O. Box 30260, Lansing, Michigan 48909-7760, at cost. Copies may be obtained from the Superintendent of Documents, Government Printing Office, P.O. Box 371954, Pittsburgh, Pennsylvania 15250-7954, at a cost as of the time of adoption of these rules of \$66.00, or on the United States government printing office internet web site at <http://www.access.gpo.gov>.~~

(2) A person shall not operate existing manufacturing process equipment at a synthetic organic chemical and polymer manufacturing plant unless a monitoring program is implemented. The monitoring program shall provide for all of the following:

(a) A quarterly inspection of all components in light liquid or gaseous volatile organic compound service that are not designated as difficult-to-monitor components.

(b) An annual inspection of all difficult-to-monitor components in light liquid or gaseous volatile organic compound service. Annual inspections shall take place during the period of April 1 through June 30.

(c) A weekly visual inspection of all seals of pumps in light liquid service.

(d) An immediate inspection of all components from which a liquid, which includes a volatile organic compound, is observed dripping or from which a gaseous volatile organic compound is observed venting to the atmosphere.

(e) Within 2 normal business days of its venting to the atmosphere, an inspection of each relief valve from which a volatile organic compound could discharge.

(f) An inspection, as soon as is practical, but not later than 5 calendar days, after the repair of a component that was found leaking.

(3) Except for the visual inspections required by the provisions of subrule (2)(c) of this rule, all inspections shall be performed using equipment and procedures as specified in **40 C.F.R., Part 60, Appendix A, federal reference test Method 21**, as ~~described and~~ adopted by reference in R 336.2004**1902**. A component is leaking when a concentration of more than 10,000 ppm, by volume, as methane or hexane, is measured by **Method 21**.

(4) If implementation of the quarterly leak detection program as specified in subrule (2)(a) of this rule shows that 2% or less of the process valves in a given process unit are leaking for 2 consecutive quarters, then the inspections of process valves in that unit are not required for 1 quarter. If 2% or less of the process valves in a given process unit are leaking for 5 consecutive quarters, then the inspections may be performed annually. If a subsequent inspection shows that more than 2% of the process valves are leaking, then quarterly inspections of valves shall again be required.

(5) The percentage of valves leaking on a process unit, as referenced in subrule (4) of this rule, shall be determined by dividing the total number of valves found to be leaking on the process unit during the specified monitoring period by the total number of valves on the process unit that are required to be monitored by this rule.

(6) The provisions of subrule (2) of this rule do not apply to either of the following:

(a) A component that is equipped with a closed vent system which is capable of capturing and transporting a leakage from the component to a control device that is designed and operated to reduce the volatile organic compound emissions vented to it by 95% or more.

(b) An unsafe-to-monitor component, until conditions would no longer expose monitoring personnel to immediate danger.

(7) The provisions of this rule do not apply to any of the following:

(a) A component that contains or contacts a gaseous stream with a volatile organic compound concentration of less than 10% by weight. Procedures that conform to the general methods in **the following ASTM standards, adopted by reference in R 336.1902, E260, E168, and E169** shall be used to determine the percentage of volatile organic compound contents in the process fluid that is contained in or contacts a piece of equipment: **“Standard Practice for General Techniques of Infrared Quantitative Analysis,” ASTM E168; “Standard Practices for General Techniques of Ultraviolet-Visible Quantitative Analysis,” ASTM E169-04; and “Standard Practice for Packed Column Gas Chromatography,” ASTM E260.**~~The provisions of ASTM standards E260, E168, and E169 are adopted by reference in these rules. Copies of the standards may be inspected at the Lansing office of the air quality division of the Department of Environmental Quality. Copies of the standards may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428, or from the Department of Environmental Quality, Air Quality Division, P.O. Box 30260, Lansing, Michigan 48909 7760, at a cost as of the time of adoption of these rules of \$35.00 each for E260 and E168 and \$30.00 for E169.~~

(b) A component that operates under a vacuum.

(c) Components of synthetic organic chemical and polymer manufacturing process units that produce 1,100 tons per calendar year or less of light liquid or gaseous volatile organic compounds.

(d) A relief valve that has an upstream rupture disc.

(8) A person shall seal open-ended lines with a second valve, a blind flange, a cap, or a plug, except when the open end is in use, as with relief valves, double block and bleed valves, and composite samplers. In the case of a second valve, the upstream valve shall be closed first after each use.

(9) A component that is found to be leaking pursuant to the monitoring program provisions of subrule (2) of this rule or for another reason shall be repaired. Except as provided in subrule (11) of this rule, the leak shall be repaired as soon as possible, but not more than 15 days after the leak is detected. Until such time as the leak is repaired and retested verifying a successful repair, the component that is causing the leak shall bear a weather-resistant, numbered identifying tag that indicates the date the leak was discovered.

(10) A log of all leaks that are detected under subrule (2) of this rule shall be maintained by the person who operates the synthetic organic chemical and polymer manufacturing plant. The log shall list all of the following information:

(a) The leaking component and synthetic organic chemical and polymer manufacturing process unit.

(b) The number of the identifying tag.

(c) The date the leak was discovered.

(d) The date the leak was repaired.

(e) The date the component was retested after the repair, with an indication of the testing results.

(f) The person or persons who performed the inspections.

(11) All of the following provisions apply to delays in the repair of leaking components:

(a) If a leak cannot be repaired within 15 calendar days because the leaking component cannot be repaired unless the synthetic organic chemical and polymer manufacturing process unit is shut down, then the person who operates the synthetic organic chemical and polymer manufacturing plant shall maintain a log of the non-repair and the leak shall be repaired at the next unit turnaround.

(b) If a leak cannot be repaired within 15 calendar days due to circumstances beyond the control of the person who operates the synthetic organic chemical and polymer manufacturing plant, then the person shall notify the department of the circumstances causing the delay in repair before the end of the

fifteenth day and shall maintain a log of the non-repair. The leak shall be repaired in an expeditious manner, which shall be within 6 months of the date the leak was detected.

(c) The log specified in subdivisions (a) and (b) of this subrule shall list all of the following information:

- (i) The leaking component and synthetic organic chemical and polymer manufacturing process unit.
- (ii) The date on which the leak was discovered.
- (iii) The reason why the leak cannot be repaired within 15 days.
- (iv) The estimated date of repair.
- (v) The number of the identifying tag.

(12) A log of all unsafe-to-monitor components that are not part of the written program as required by subrule (14) of this rule shall be maintained by the person who operates the synthetic organic chemical and polymer manufacturing plant. This log shall list all of the following information:

(a) The unsafe-to-monitor component and synthetic organic chemical and polymer manufacturing process unit.

- (b) The number of the identifying tag.
- (c) The reason why the component was unsafe to monitor.
- (d) The date, or dates, on which the component was unsafe to monitor.

(13) Not later than 25 calendar days after the end of the previous quarter, the person who operates the synthetic organic chemical and polymer manufacturing plant shall submit, to the department, a report that contains all of the following information for that quarter:

- (a) The total number of components tested, by type.
- (b) The total number of components which are found leaking and which are repaired, by type.
- (c) The total number of components, by synthetic organic chemical and polymer manufacturing process unit and type, which are found to be leaking and which are not repaired within the required time period and the reason for non-repair.
- (d) The type or types of monitoring equipment utilized during the quarter.
- (e) The total number of unsafe-to-monitor components that are logged as required by the provisions of subrule (12) of this rule. The report required by this subrule shall be made on a form that is provided by the department.

(14) A person who is subject to the provisions of this rule shall comply with both of the following provisions:

(a) Develop a written program detailing how the provisions of this rule will be implemented. The program shall include listings, by type and synthetic organic chemical and polymer manufacturing process unit, of all of the following:

- (i) All components that are regularly inspected as required in subrule (2) of this rule.
- (ii) All components that are equipped with a closed vent system subject to the provisions of subrule (6)(a) of this rule.
- (iii) All components that are exempted from the provisions of this rule pursuant to the provisions of subrule (7)(b), (c), and (d) of this rule.
- (iv) All difficult-to-monitor components in light liquid or gaseous volatile organic compound service.
- (v) All components which are located outside a building, which can only be monitored by elevating the monitoring personnel more than 6 feet above ground level, and which are unsafe to monitor during the period of November 1 through March 31.

(b) Except as noted in subrule (16) of this rule, begin inspections as required in subrule (2) of this rule not later than 6 months after the effective date of this rule.

(15) The written program required by the provisions of subrule (14) of this rule and the logs required by the provisions of subrules (10), (11), and (12) of this rule shall be made available, to any

representative of the department, on Monday through Friday between 9 a.m. and 5 p.m., at the synthetic organic chemical and polymer manufacturing plant. The logs shall be kept for a minimum of 2 years.

(16) If a synthetic organic chemical and polymer manufacturing process unit that was previously exempt pursuant to the provisions of subrule (7)(c) of this rule produces light liquid or gaseous volatile organic compounds in excess of 1,100 tons in a calendar year, then the provisions of this rule shall apply. Inspections shall begin not later than 6 months after the end of that calendar year and be maintained thereafter.

R 336.1629 Emission of volatile organic compounds from components of existing process equipment used in processing natural gas; monitoring program.

Rule 629. (1) A person shall not cause or allow the emission of a volatile organic compound from a component of existing process equipment at a natural gas processing plant located in any of the following counties, unless all of the provisions of subrules (2) to (16) of this rule are met or unless an equivalent control method, as approved by the department, is implemented:

- (a) Kent.
- (b) Livingston.
- (c) Macomb.
- (d) Monroe.
- (e) Muskegon.
- (f) Oakland.
- (g) Ottawa.
- (h) St. Clair.
- (i) Washtenaw.
- (j) Wayne.

(2) A person shall not operate existing process equipment at a natural gas processing plant unless a monitoring program is implemented. The monitoring program shall provide for all of the following:

(a) A quarterly inspection of all components in gaseous or liquid volatile organic compound service that are not designated as difficult-to-monitor components.

(b) An annual inspection of all difficult-to-monitor components in gaseous or liquid volatile organic compound service. Annual inspections shall take place during the period of April 1 through June 30.

(c) A weekly visual inspection of all pump seals from which volatile organic compounds could leak.

(d) An immediate inspection of all components from which a liquid, which includes a volatile organic compound, is observed dripping or from which a gaseous volatile organic compound is observed venting to the atmosphere.

(e) Within 2 normal business days of its venting to the atmosphere, an inspection of each relief valve from which a volatile organic compound could discharge.

(f) An inspection, as soon as is practical but not later than 5 calendar days after the repair, of a component that was found leaking.

(3) Except for the visual inspections required by the provisions of subrule (2)(c) of this rule, all inspections shall be performed using equipment and procedures as specified in **40 C.F.R. Part 60, Appendix A, federal reference test Method 21, as described and adopted by reference in R 336.20041902**. A component is leaking when a concentration of more than 10,000 ppm, by volume, as methane or hexane, is measured by ~~M~~method 21.

(4) If implementation of the quarterly leak detection program as specified in subrule (2)(a) of this rule shows that 2% or less of the process valves in a given process unit are leaking for 2 consecutive quarters, then the inspections on process valves in that process unit are not required for 1 quarter. If 2%

or less of the process valves in a given process unit are leaking for 5 consecutive quarters, then the inspection may be performed annually. If a subsequent inspection shows that more than 2% of the process valves are leaking, then quarterly inspections of valves shall again be required.

(5) The percentage of valves leaking on a process unit, as referenced in subrule (4) of this rule, shall be determined by dividing the total number of valves that are found to be leaking on the process unit during the specified monitoring period by the total number of valves on the process unit that are required to be monitored by this rule.

(6) A relief valve that is located in a nonfractionating plant that is inspected only by nonplant personnel may be inspected after a pressure release the next time that the inspecting personnel are at the plant, instead of within 5 days as specified in subrule (2)(e) of this rule. A relief valve shall not be allowed to operate for more than 30 days after a pressure release without an inspection.

(7) The provisions of subrule (2) of this rule do not apply to any of the following:

(a) A component that is equipped with a closed vent system which is capable of capturing and transporting a leakage from the component to a control device that is designed and operated to reduce the volatile organic compound emissions vented to it by 95% or more.

(b) A pump which is equipped with a dual seal system that includes a barrier fluid and which is equipped with a sensor that will detect a failure of the seal system.

(c) An unsafe-to-monitor component, until conditions do not expose monitoring personnel to immediate danger.

(8) The provisions of this rule do not apply to any of the following:

(a) A component, except any in field gas service, that contains or contacts a process stream that has a volatile organic compound concentration of less than 1.0% by weight. A component in field gas service is excluded from the provisions of this subrule. Procedures that conform to the general methods in **the following** ASTM standards, **adopted by reference in R 336.1902, E260, E168, and E169** shall be used to determine the percentage of volatile organic compound contents in the process fluid that is contained in or contacts a piece of equipment: **“Standard Practice for General Techniques of Infrared Quantitative Analysis,” ASTM E168; “Standard Practices for General Techniques of Ultraviolet-Visible Quantitative Analysis,” ASTM E169-04; and “Standard Practice for Packed Column Gas Chromatography,” ASTM E260.** ~~ASTM standards E260, E168, and E169 are adopted by reference in R 336.1628.~~

(b) A component that operates under a vacuum.

(c) A component in heavy liquid service.

(d) A reciprocating compressor in field gas service.

(e) A natural gas processing plant which has a capacity of less than 10,000,000 cubic feet per day and which does not fractionate natural gas liquids.

(f) A relief valve that has an upstream rupture disc.

(9) A person shall seal open-ended lines with a second valve, a blind flange, a cap, or a plug, except when the open end is in use, as with relief valves and double block and bleed valves. In the case of a second valve, the upstream valve shall be closed first after each use.

(10) A component that is found to be leaking pursuant to the monitoring program provisions of subrule (2) of this rule or for another reason shall be repaired. Except as provided in subrule (12) of this rule, the leak shall be repaired as soon as possible, but not more than 15 days after the leak is detected. Until such time as the leak is repaired and retested verifying a successful repair, the component that is causing the leak shall bear a weather-resistant, numbered identifying tag that indicates the date the leak was discovered.

(11) A log of all leaks that are detected pursuant to the provisions of this rule shall be maintained by the person who operates the natural gas processing plant. The log shall list all of the following information:

- (a) The leaking component and natural gas process unit.
- (b) The number of the identifying tag.
- (c) The date the leak was discovered.
- (d) The date the leak was repaired.
- (e) The date the component was retested after the repair, with an indication of the testing results.
- (f) The person or persons who performed the inspections.

(12) All of the following provisions apply to delays in the repair of leaking components:

(a) If a leak cannot be repaired within 15 calendar days because the leaking component cannot be repaired unless the natural gas process unit is shut down, then the person who operates the natural gas processing plant shall maintain a log of the nonrepair and the leak shall be repaired at the next unit turnaround.

(b) If a leak cannot be repaired within 15 calendar days due to circumstances beyond the control of the person who operates the natural gas processing plant, then the person shall notify the department of the circumstances causing the delay in repair before the end of the fifteenth day and shall maintain a log of the nonrepair. The leak shall be repaired in an expeditious manner, which shall not be more than 6 months from the date the leak was detected.

(c) The log specified in subdivisions (a) and (b) of this subrule shall list all of the following information:

- (i) The leaking component and natural gas process unit.
- (ii) The date on which the leak was discovered.
- (iii) The reason why the leak cannot be repaired within 15 days.
- (iv) The estimated date of repair.
- (v) The number of the identifying tag.

(13) A log of all unsafe-to-monitor components that are not part of the written program as required by the provisions of subrule (15) of this rule shall be maintained by the person who operates the natural gas processing plant. The log shall list all of the following information:

- (a) The unsafe-to-monitor component and natural gas process unit.
- (b) The number of the identifying tag.
- (c) The reason why the component was unsafe to monitor.
- (d) The date, or dates, on which the component was unsafe to monitor.

(14) Not later than 25 calendar days after the end of the previous quarter, the person who operates the natural gas processing plant shall submit, to the department, a report that contains all of the following information for that quarter:

- (a) The total number of components tested, by type.
- (b) The total number of components which are found leaking and which are repaired, by type.
- (c) The total number of components, by natural gas process unit and type, which are found to be leaking and which are not repaired within the required time period and the reason for nonrepair.
- (d) The type or types of monitoring equipment utilized during the quarter.
- (e) The total number of unsafe-to-monitor components that are logged as required by the provisions of subrule (13) of this rule. The report required by this subrule shall be made on a form that is provided by the department.

(15) A person who is subject to the provisions of this rule shall comply with both of the following provisions:

(a) Develop a written program detailing how the provisions of this rule will be implemented. The program shall include listings, by type and natural gas process unit, of all of the following:

- (i) All components that are regularly inspected as required in subrule (2) of this rule.
  - (ii) All components that are subject to the provisions of subrule (7)(a) and (b) of this rule.
  - (iii) All components that are exempted from the provisions of this rule pursuant to the provisions of subrule (8) of this rule.
  - (iv) All difficult-to-monitor components in gaseous or liquid volatile organic compound service.
  - (v) All components which are located outside a building, which can only be monitored by elevating the monitoring personnel more than 6 feet above ground level, and which are unsafe to monitor during the period of November 1 through March 31.
- (b) Begin inspections, as required in subrule (2) of this rule, not later than 6 months after the effective date of this rule.
- (16) The written program required by the provisions of subrule (15) of this rule and the logs required by the provisions of subrules (11), (12), and (13) of this rule shall be made available, to any representative of the department, on Monday through Friday between 9 a.m. and 5 p.m., at the natural gas processing plant. The logs shall be kept for a minimum of 2 years.

R 336.1632 Emission of volatile organic compounds from existing automobile, truck, and business machine plastic part coating lines.

Rule 632. (1) A person shall not cause or allow the emission of volatile organic compounds from an automobile, truck, or business machine plastic part coating line in any of the following counties unless all of the provisions of subrules (2) to (21) of this rule are met:

- (a) Kent.
- (b) Livingston.
- (c) Macomb.
- (d) Monroe.
- (e) Muskegon.
- (f) Oakland.
- (g) Ottawa.
- (h) St. Clair.
- (i) Washtenaw.
- (j) Wayne.

(2) After December 31, 1989, and until December 31, 1992, a person shall not cause or allow the emission of volatile organic compounds from the coating of plastic parts of automobiles and trucks from any existing coating line in excess of the applicable emission rates as specified in table 65.

(3) After December 31, 1992, both of the following provisions shall be met:

(a) A person shall not cause or allow the emission of volatile organic compounds from the coating of plastic parts of automobiles and trucks from any existing coating line in excess of the applicable emission rates as specified in table 66.

(b) Except as provided for in subrule (16) of this rule, any coating that is subject to an emission rate specified in table 66 shall not be applied with conventional air-atomizing spray equipment. All spray equipment shall be installed, maintained, and operated in accordance with the recommendations and design of the equipment manufacturer.

(4) After December 31, 1991, both of the following provisions shall be met:

(a) A person shall not cause or allow the emission of volatile organic compounds from the coating of plastic parts of business machines from any existing coating line in excess of the applicable emission rates as specified in table 67.

(b) Except as provided for in subrule (16) of this rule, any prime or topcoat coating that is subject to the emission rate specified in table 67 shall not be applied with air-atomizing spray equipment. All

spray equipment shall be installed, maintained, and operated in accordance with the recommendations and design of the equipment manufacturer.

(5) If a part consists of both plastic and metal surfaces and is exempted from the provisions of R 336.1621 based on the provisions of R 336.1621(9)(e), the part shall be subject to this rule.

(6) If a coating line is subject to the provisions of R 336.1610 or R 336.1621, the coating line shall be exempt from this rule.

(7) A person who is responsible for the operation of a coating line that is subject to this rule shall obtain current information and maintain daily records necessary for a determination of compliance with the provisions of this rule, as required in R 336.2041.

(8) For each coating line, compliance with the emission limits specified in this rule shall be based upon all of the following:

(a) The volume-weighted average of all coatings which belong to the same coating category and which are used during each calendar day averaging period. The commission may specifically authorize compliance to be based upon a longer averaging period, which shall not be more than 1 calendar month.

(b) If coatings belonging to more than 1 coating category are used on the same coating line during the specified averaging period, then compliance shall be determined separately for each coating category.

(c) The information and records as required by subrule (7) of this rule.

(9) Compliance with the emission limits specified in this rule shall be determined using the ~~applicable method described in the following subdivisions~~ **following methods**:

(a) For the emission limits specified in subrules (2) to (4) of this rule, the method described in either R 336.2040(12)(a) if the coating line does not have an add-on emissions control device or R 336.2040(12)(b) if the coating line has 1 or more add-on emissions control devices.

(b) For the emission limits established pursuant to the provisions of subrule (13) or (14) of this rule, the method described in R 336.2040(12) that is applicable to the form of these established emission limits.

(10) A person who is responsible for the operation of an existing coating line that is subject to the provisions of this rule shall submit, to the commission, an acceptable written program for compliance with, or evidence of compliance with, the provisions of subrules (3) and (4) of this rule. This evidence shall include available emission test data, material balance calculations, control equipment specifications, or other information that demonstrates compliance. The written program for compliance or evidence of compliance shall be submitted to the commission according to the following schedule:

(a) Before July 1, 1990, for compliance with the provisions of subrule (4) of this rule.

(b) Before July 1, 1991, for compliance with the provisions of subrule (3) of this rule.

(11) The program for compliance that is required by the provisions of subrule (10) of this rule shall include the method by which compliance with this rule shall be achieved, a description of the new equipment to be installed or modifications to existing equipment to be made, and a timetable that specifies, at a minimum, all of the following dates:

(a) The date or dates equipment shall be ordered.

(b) The date or dates construction, modification, or process changes shall begin.

(c) The date or dates initial start-up of equipment shall begin.

(d) The date or dates final compliance shall be achieved if the date or dates are not the same as the date or dates specified in subdivision (c) of this subrule.

(12) A modification of coating applicator equipment for the primary purpose of achieving compliance with the provisions of subrules (3)(b) and (4)(b) of this rule, to the extent that such modification does not increase the potential to emit, shall not be subject to the provisions of R 336.1220 and R 336.1702.

(13) As part of the compliance program required by the provisions of subrule (10) of this rule, a person who is responsible for the operation of a coating line that is subject to this rule may request alternate provisions to those specified in this rule. The commission may establish alternate provisions for a period of time to be specified by the commission if all of the following conditions are met:

(a) The coating line that is subject to the alternate provisions is in compliance, or on a legally enforceable schedule of compliance, with the other rules of the commission.

(b) Compliance with the provisions of this rule is not technically or economically reasonable.

(c) All measures that are both technically feasible and economically reasonable to reduce volatile organic compound emissions as required by this rule have been implemented in accordance with, or will be implemented in accordance with, a schedule approved by the commission. All alternate provisions approved by the commission shall become part of a legally enforceable order or part of an approved permit to install or operate.

(14) The program for compliance that is required by the provisions of subrule (10) of this rule may address a combination of coating lines that are subject to the provisions of this rule, or 1 or more coating lines that are subject to the provisions of this rule in combination with 1 or more existing sources that are subject to the provisions of other rules of this part, if all of the following conditions are met:

(a) All of the requirements specified in the United States Environmental Protection Agency's emissions trading policy statement, 51 F.R. 43814, December 4, 1986, **adopted by reference in R 336.1902**, are met. ~~The "Emissions Trading Policy" is herein adopted by reference. A copy of the document may be inspected at the Lansing office of the Air Quality Division of the Department of Natural Resources. A copy of the document may be obtained from the Department of Natural Resources, P.O. Box 30028, Lansing, Michigan 48909, at a cost as of the time of adoption of these rules of \$8.00 each.~~

(b) All existing sources are within the same stationary source.

(c) The total volatile organic compound emissions do not exceed the sum of the emissions allowed from each existing source using calculation methods acceptable to the commission and incorporating all of the requirements of the emissions trading policy statement.

(d) Emission reductions are accomplished in the time interval required for individual existing sources.

(e) All emission limits established by this program become part of a legally enforceable order of the commission, permit to install, or permit to operate.

(15) The provisions of this rule, with the exception of the provisions of subrule (7) of this rule, ~~shall~~**do** not apply to any of the following:

(a) Plastic coating lines within any stationary source that have a total combined emission rate of volatile organic compounds from plastic coating lines of less than 30 tons per calendar year. The total combined emission rate shall include emissions from coatings and coating operations exempted from this rule. If the total combined emissions equal or exceed 30 tons in any subsequent year, the provisions of this rule shall thereafter permanently apply to these plastic coating lines.

(b) The application of adhesion primes.

(c) The application of electrostatic prep coats.

(d) The application of resist coats.

(e) The application of stencil coats.

(f) The application of texture coats to automobile or truck parts.

(g) The application of vacuum metalizing coatings.

(h) The application of gloss reducer.

(i) A plastic part coating operation consisting of an applicator and any subsequent flash-off area or oven, or both, from which the total emission rate of volatile organic compounds is equal to or less than 2,000 pounds per calendar month and 10.0 tons per calendar year. The total combined emission rate of

volatile organic compounds from these exempted operations at a stationary source shall not be more than 30.0 tons per calendar year. If the total emission rate for an operation is more than 2,000 pounds in any subsequent month or 10 tons per year in a subsequent year, the provisions of this rule shall thereafter permanently apply to these plastic part coating operations.

(j) Low-use coatings that total 55 gallons or less per rolling 12-month period at a stationary source.

(16) The provisions of subrules (3)(b) and (4)(b) of this rule ~~shall~~ do not apply to the equipment used in any of the following:

(a) The application of the final coat of metallic topcoat.

(b) The application of waterborne coatings.

(c) The application of touch-up and repair coatings.

(d) Coating operations controlled by add-on emission controls.

(e) Coating operations for which an acceptable demonstration has been made that conventional air-atomizing spray equipment is the only technically feasible application method.

(f) Other coating operations that together account for a total of 20% or less of the total volume of coatings applied by nonexempt coating application equipment calculated on a calendar day basis.

(17) A person may discontinue the operation of a natural gas-fired afterburner, which is used to achieve compliance with the emission limits in this rule, between November 1 and March 31 unless the afterburner is used to achieve compliance with, or is required by, any of the following:

(a) Any other provisions of these rules.

(b) A permit to install.

(c) A permit to operate.

(d) A voluntary agreement.

(e) A performance contract.

(f) A stipulation.

(g) An order of the commission.

(18) If the operation of a natural gas-fired afterburner is discontinued between November 1 and March 31 pursuant to the provisions of subrule (17) of this rule, then both of the following provisions ~~shall~~ apply during this time period:

(a) All other provisions of this rule, except for the emission limits, shall remain in effect.

(b) All other measures that are used to comply with the emission limits in this rule between April 1 and October 31 shall continue to be used.

(19) Table 65 reads as follows:

Table 65  
Volatile organic compound emission limitations for existing  
automobile and truck plastic parts coating lines after 12/31/89

Coating category	Pounds of volatile organic compounds allowed to be emitted per gallon of coating (minus water) as applied
1. High bake coating--exterior and interior parts <sup>1,2</sup>	
(a) Prime	
(i) Flexible coating	5.0
(ii) Nonflexible coating	4.0
(b) Topcoat	
(i) Basecoat	4.6
(ii) Clearcoat	4.3
(iii) Non-basecoat/clearcoat	4.7
2. Air-dried coating--exterior parts <sup>3</sup>	
(a) Prime <sup>1</sup>	6.1
(b) Topcoat	
(i) Basecoat	5.8
(ii) Clearcoat	5.4
(iii) Non-basecoat/clearcoat	6.3
3. Air-dried coating--interior parts <sup>3</sup>	6.3
4. Touch-up and repair <sup>3</sup>	6.3

<sup>1</sup>For red and black coatings, the emission limitation shall be determined by multiplying the appropriate limit in this table by 1.15.

<sup>2</sup>When **40 C.F.R. Part 60, Appendix A, Method 24** is used to determine the volatile organic compound content of a coating, the applicable emission limitation shall be determined by adding 0.5 to the appropriate limit in this table.

<sup>3</sup>When **40 C.F.R. Part 60, Appendix A, Method 24** is used to determine the volatile organic compound content of a coating, the applicable emission limitation shall be determined by adding 0.1 to the appropriate limit in this table.

(20) Table 66 reads as follows:

Table 66

Volatile organic compound emission limitations for existing automobile and truck plastic parts coating lines after 12/31/92

Coating category	Pounds of volatile organic compounds allowed to be emitted per gallon of coating (minus water) as applied
1. High bake coating--exterior and interior parts <sup>1,2</sup>	
(a) Prime	
(i) Flexible coating	4.5
(ii) Nonflexible coating	3.5
(b) Topcoat	
(i) Basecoat	4.3
(ii) Clearcoat	4.0
(iii) Non-basecoat/clearcoat	4.3
2. Air-dried coating--exterior parts <sup>1,3</sup>	
(a) Prime	4.8
(b) Topcoat	
(i) Basecoat	5.0
(ii) Clearcoat	4.5
(iii) Non-basecoat/clearcoat	5.0
3. Air-dried coating—interior parts <sup>1,3</sup>	5.0
4. Touch-up and repair <sup>3</sup>	5.2

<sup>1</sup>For red and black coatings, the emission limitation shall be determined by multiplying the appropriate limit in this table by 1.15.

<sup>2</sup>When **40 C.F.R. Part 60, Appendix A, Method 24** is used to determine the volatile organic compound content of a coating, the applicable emission limitation shall be determined by adding 0.5 to the appropriate limit in this table.

<sup>3</sup>When **40 C.F.R. Part 60, Appendix A, Method 24** is used to determine the volatile organic compound content of a coating, the applicable emission limitation shall be determined by adding 0.1 to the appropriate limit in this table.

(21) Table 67 reads as follows:

Table 67

Volatile organic compound emission limitations for existing  
business machine plastic parts coating lines after 12/31/91

Coating category	Pounds of volatile organic compounds allowed to be emitted per gallon of coating (minus water) as applied
1. Prime	2.9
2. Topcoat	2.9
3. Texture coat	2.9
4. Fog coat	2.2
5. Touch-up and repair	2.9

R 336.1651 Standards for degreasers; ~~adoption by reference.~~

Rule 651. A person responsible for the operation of a degreaser subject to the provisions of 40 C.F.R. Part 63, Subpart T, §§63.460 to 63.469 (2000), the halogenated solvent cleaning “~~N~~ational Emission Sstandards for **Halogenated Solvent Cleaning**,” hazardous air pollutants shall comply with the provisions of 40 C.F.R. Part 63, Subpart T, §§63.460 to 63.469 (2000). ~~The provisions of 40 C.F.R. Part 63, Subpart T, §§63.460 to 63.469 (2000), are adopted by reference in R 336.1902. these rules and are available for inspection and purchase at the Department of Environmental Quality, Air Quality Division, P.O. Box 30260, Lansing, Michigan 48909-7760, at cost. Copies may also be obtained from the Superintendent of Documents, Government Printing Office, P.O. Box 371954, Pittsburgh, Pennsylvania 15250-7954, at a cost as of the time of adoption of these rules of \$66.00, or on the United States government printing office internet~~

R 336.1660 Standards for volatile organic compounds emissions from consumer products.

Rule 660. (1) The provisions in the ozone transport commission's ~~(OTC)~~ "Model Rule for Consumer Products," dated September 13, 2006, are adopted by reference in this rule **R 336.1902**, with the following exceptions:

- (a) Section (8), variances.
- (b) Section (10), severability.
- (c) Section (11)(f), violations.
- (d) Where the date "January 1, 2005" appears in the following sections, the department shall instead recognize January 29, 2007:
  - (i) Section (1), applicability.
  - (ii) Section (3)(a), table, (f)(1)(i), and (g)(3) standards.
  - (iii) Section (6)(d)(1), administrative requirements.
- (e) Where the date "2005" appears in section 7(d)(2) and (3), the department shall instead recognize 2007. Where the date "March 1, 2006" appears in section 7(d)(2) and (3), the department shall instead recognize March 1, 2008.

~~(2) Copies of the ozone transport commission's, "Model Rule for Consumer Products," dated September 13, 2006, may be obtained without charge from the Department of Environmental Quality, Air Quality Division, 525 West Allegan Street, P. O. Box 30260, Lansing, Michigan 48909-7760. A copy may also be obtained without charge from the Ozone Transport Commission, Hall of the States, 444 North Capitol Street, Suite 638, Washington, DC 20001, or on the ozone transport commission internet web site at [www.otcair.org](http://www.otcair.org).~~

R 336.1661 Definitions for consumer products.

Rule 661. As used in R 336.1660:

(a) The "OTC state" means state of Michigan.

(b) "Volatile organic compound" or "VOC" means a compound as defined in 40 C.F.R. §51.100, (2006). For the purpose of clarifying the definition, the provisions of 40 C.F.R. §51.100 (2006) are adopted by reference in **R 336.1902**. ~~these rules. Copies of 40 C.F.R. §51.100 are available for inspection and purchase at the Department of Environmental Quality, Air Quality Division, 525 West Allegan Street, P.O. Box 30260, Lansing, Michigan 48909-7760, at a cost at the time of adoption of these rules of \$55.00. Copies may be obtained from the Superintendent of Documents, Government Printing Office, P.O. Box 371954, Pittsburgh, Pennsylvania 15250-7954, at a cost at the time of adoption of these rules of \$45.00, or on the United States government printing office internet web site at [www.gpoaccess.gov](http://www.gpoaccess.gov).~~

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**NOTICE OF PUBLIC HEARING**

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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
Air Quality Division

**NOTICE OF PUBLIC HEARING**

The Michigan Department of Environmental Quality (MDEQ), Air Quality Division (AQD), will conduct a public hearing on proposed administrative rules promulgated pursuant to Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA). The rules are identified as R 336.1610, R 336.1611, R 336.1612, R 336.1613, R 336.1614, R 336.1618, R 336.1619, R 336.1622, R 336.1625, R 336.1627, R 336.1628, R 336.1629, R 336.1632, R 336.1651, R 336.1660, and R 336.1661. The comment period and hearing will fulfill requirements contained in the state administrative rules and result in a revision to Michigan's State Implementation Plan (SIP) under the federal Clean Air Act. These rules set emission standards for existing sources of volatile organic compounds, which is required under the federal Clean Air Act. The proposed changes to the rules are being made at the request of the United States Environmental Protection Agency, Region 5 to clarify the testing requirements for emulsified and cutback asphalts. In addition, the MDEQ is taking this opportunity to update federal reference and adoption by reference citations.

The public hearing will be held on November 14, 2016, at 1:00 p.m., in the William Ford Conference Room, 2<sup>nd</sup> floor, South Tower, Constitution Hall, 525 West Allegan Street, Lansing, Michigan 48933.

Copies of the proposed rules (ORR 2016-003 EQ) can be downloaded from the Internet through the Office of Regulatory Reinvention at <http://www.michigan.gov/orr>. Click on "Latest Rules Activity" and then "Pending Rule Changes." Under "Rules by Department," click on "Environmental Quality." Scroll to ORR 2016-003 EQ and click on "Revision Text." Copies of the rules may also be obtained by contacting the Lansing office at:

Air Quality Division  
Michigan Department of Environmental Quality  
P.O. Box 30260  
Lansing, Michigan 48909-7760  
Phone: 517-284-6740  
Fax: 517-241-7499  
E-Mail: [debrulerc@michigan.gov](mailto:debrulerc@michigan.gov)

All interested persons are invited to attend and present his or her views. It is requested that all statements be submitted in writing for the hearing record. Anyone unable to attend may submit comments in writing to the address above. Written comments must be received by November 14, 2016.

Persons needing accommodations for effective participation in the meeting should contact the AQD at 517-284-6740 one week in advance to request mobility, visual, hearing, or other assistance.

This notice of public hearing is given in accordance with Sections 41 and 42 of Michigan's Administrative Procedures Act, 1969 PA 306, Michigan Compiled Laws (MCL) 24.241 and 24.242, and federal regulations for the SIP. Promulgation of the rules is by authority conferred on the Director of the MDEQ by Section 5512 of the NREPA, MCL 324.5512. These rules will become effective immediately after filing with the Secretary of State.

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**PROPOSED ADMINISTRATIVE RULES**

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DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS

DIRECTOR'S OFFICE

GENERAL INDUSTRY SAFETY STANDARDS

Draft September 30, 2016

Filed with the Secretary of State on

These rules take effect immediately upon filing with the Secretary of State unless adopted under **section sections** 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 408.15102, R 408.15111, R 408.15114, R 408.15117, R 408.15120, R 408.15125, R 408.15127, R 408.15130, R 408.15131, R 408.15144, R 408.15146, R 408.15148, R 408.15150, R 408.15165, and R 408.15166 of the Michigan Administrative Code are amended, and R 408.15117a, R 408.15117b, R 408.15146a and R 408.15146b are added, as follows:

PART 51. LOGGING

**GENERAL PROVISIONS**

R 408.15102 Adopted and referenced standards.

Rule 5102. (1) 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) American National Standard Institute (ANSI) Standard, ANSI B175.1 "Gasoline-Powered Chain Saws Safety Requirements," 1991 edition. Cost: \$57.00.

(b) American Society of Mechanical Engineers (ASME) Standard, ASME B56.6 "Safety Standard for Rough Terrain Forklift Trucks," 1992 edition with addenda. Cost: \$120.00.

(c) Society of Automotive Engineers (SAE) Standard, SAE J185 "Access Systems for Off-Road Machines," June 1988 edition. Cost: \$98.00.

(d) SAE J231 "Minimum Performance Criteria for Falling Object Protective Structures (FOPS)," January 1981 edition. Cost: \$98.00.

(e) SAE J386 "Operator Restraint Systems for Off-Road Work Machines," June 1985 edition. Cost: \$98.00.

(f) SAE J397 “Deflection Limiting Volume-Protective Structures Laboratory Evaluation,” April 1988 edition. Cost: \$98.00.

(g) SAE J1040 “Performance Criteria for Rollover Protective Structures (ROPS) for Construction, Earthmoving, Forestry, and Mining Machines,” April 1988 edition. Cost: \$98.00.

(2) The standards adopted in ~~these rules subrule (1) of this rule~~ are also available for inspection at the Department of Licensing and Regulatory Affairs, MIOSHA Standards Section, **530 West Allegan Street, 7150 Harris Drive**, P.O. Box 30643, Lansing, Michigan, 48909-8143.

(3) Copies of the standards adopted in ~~these rules 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, **530 West Allegan Street, 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 (**MIOSHA**) 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, **530 West Allegan Street, 7150 Harris Drive**, P.O. Box 30643, Lansing, MI, 48909-8143 or via the internet at website: [www.michigan.gov/mioshastandards](http://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 7 “Guards for Power Transmission,” R 408.10701 to R 408.10765.

(b) General Industry Safety Standard Part 8 “Portable Fire Extinguishers,” R 408.10801 to R 408.10839.

(c) General Industry Safety Standard Part 21 “Powered Industrial Trucks,” R 408.12101 to R 408.12193.

(d) General Industry Safety Standard Part 33 “Personal Protective Equipment,” R 408.13301 to R 408.13398.

(e) General Industry Safety Standard Part 52 “Sawmills,” R 408.15201 to R 408.15277.

(f) General Industry Safety Standard Part 55 “Explosives and Blasting Agents,” R 408.15501.

(g) General Industry Safety Standard Part 58 “Aerial Work Platforms,” R 408.15801 to R 408.15842.

R 408.15111 Rules; **employer’s employers’** duties.

Rule 5111. An employer shall review these rules with each new employee.

R 408.15114 Injuries, first aid, and first aid training.

Rule 5114. (1) An employer shall provide first aid kits at each worksite where trees are being cut, at each active landing, and on each employee transport vehicle. The number of first aid kits and the content of each kit shall reflect the degree of isolation, the number of employees, and the hazards reasonably anticipated at the worksite.

(2) The number and content of first aid kits may be reviewed and approved annually by a health care provider.

(3) An employer shall maintain the contents of each first aid kit in a serviceable condition.

(4) An employer shall have not less than 1 employee at a jobsite who is trained in **American** red cross first aid or who has equivalent training.

(5) An employer shall assure that each employee, including supervisors, receives or has received first aid and cardiopulmonary resuscitation (CPR) training that is in compliance with the requirements specified in subrule (11) of this rule.

(6) An employer shall assure that each employee receives first aid training at least once every 3 years and receives CPR training at least annually.

(7) An employer shall assure that each employee's first aid and CPR training or certificate of training, or both, remain current.

(8) All training shall be conducted by a designated person.

(9) An employer shall assure that all training required by this rule is presented in a manner that the employee is able to understand. An employer shall assure that all training materials used are appropriate in content and vocabulary to the educational level, literacy, and language skills of the employees being trained.

(10) The contents of the first aid kit shall be adequate for small worksites, ~~which that~~ consist of approximately 2 or 3 employees. When larger operations or multiple operations are being conducted at the same location, additional first aid kits shall be provided at the worksite or additional quantities of supplies shall be included in the first aid kits.

A first aid kit on a logging worksite shall contain at least all of the following items:

- (a) Gauze pads that are not less than 4 inches by 4 inches.
- (b) Two large gauze pads that are not less than 8 inches by 10 inches.
- (c) Box adhesive **bandages, such as Band-Aids®.** ~~bandages (band-aids).~~
- (d) One package gauze roller bandage that is not less than 2 inches wide.
- (e) Two triangular bandages.
- (f) A wound cleaning agent, such as sealed, moistened towelettes.
- (g) Scissors.
- (h) At least 1 blanket.
- (i) Tweezers.
- (j) Adhesive tape.
- (k) Latex gloves.
- (l) Resuscitation equipment, such as a resuscitation bag, airway, or pocket mask.
- (m) Two elastic wraps.
- (n) Splint.
- (o) Directions for requesting emergency assistance.

(11) At a minimum, for employees engaged in logging activities, first aid and CPR training shall be conducted using conventional methods of training, such as lecture, demonstration, practical exercise, and examination, both written and practical. In addition, the length of training shall be sufficient to assure that trainees understand the concepts of first aid and can demonstrate their ability to perform the various procedures required in subrule (12) of this rule.

(12) At a minimum, first aid and CPR training shall consist of instruction in all of the following areas:

- (a) The definition of first aid.
- (b) The legal issues of applying first **aid, such as good samaritan laws.** ~~aid (good samaritan laws).~~
- (c) Basic anatomy.
- (d) Patient assessment and first aid for all of the following:
  - (i) Respiratory arrest.
  - (ii) Cardiac arrest.
  - (iii) Hemorrhage.
  - (iv) Lacerations and abrasions.
  - (v) Amputations.
  - (vi) Musculoskeletal injuries.
  - (vii) Shock.
  - (viii) Eye injuries.
  - (ix) Burns.
  - (x) Loss of consciousness.

- (xi) Extreme temperature **exposure, such as hypothermia or hyperthermia.**— ~~exposure (hypothermia/hyperthermia).~~
- (xii) Paralysis.
- (xiii) Poisoning.
- (xiv) Loss of mental functioning, such as psychosis and hallucinations.
- (e) CPR.
- (f) The application of dressings and slings.
- (g) The treatment of strains, sprains, and fractures.
- (h) The immobilization of injured persons.
- (i) The handling and transporting of injured persons.
- (j) The treatment of bites or stings or for contact with poisonous plants or animals.

**R 408.15117 Environmental conditions.** ~~Employee protection in certain weather conditions; stoppage of falling operation; employee spacing and duty organization; work area safety; contact with other employees.~~

Rule 5117. (1) All work shall stop and employees shall be moved to a place of safety when environmental conditions, such as, but not limited to, electrical storms, strong winds which may affect the fall of a tree, heavy rain or snow, extreme cold, dense fog, fires, mudslides, or darkness, or other hazardous weather conditions that would be dangerous to the employees occur.

(2) A falling operation shall stop if a wind prevents a tree from falling in the desired direction or if the faller's vision is impaired by a weather condition or darkness.

~~(3) Employees shall be spaced, and the duties of each employee shall be organized, so that the actions of one employee will not create a hazard for any other employee.~~

~~(4) Work area shall be assigned so that trees cannot fall into an adjacent occupied work area. The distance between adjacent occupied work areas shall be not less than 2 tree lengths of the trees being felled. The distance between adjacent occupied work areas shall reflect the degree of slope, the density of the growth, the height of the trees, the soil structure, and other hazards reasonably anticipated at the worksite. A distance of more than 2 tree lengths shall be maintained between adjacent occupied work areas on any slope where the rolling or sliding of trees or logs is reasonably foreseeable.~~

~~(5) Each employee shall work in a position or location that is within visual or audible contact of another employee.~~

~~(6) Hand signals or audible contact, such as, but not limited to, whistles, horns, or radios, shall be utilized whenever noise, distance, restricted visibility, or other factors prevent clear understanding of normal voice communications between employees.~~

**R 408.15117a Work areas.**

**Rule 5117a. (1) Employees shall be spaced, and the duties of each employee shall be organized, so that the actions of one employee will not create a hazard for any other employee.**

**(2) Work areas shall be assigned so that trees cannot fall into an adjacent occupied work area. The distance between adjacent occupied work areas shall be not less than 2 tree lengths of the trees being felled. The distance between adjacent occupied work areas shall reflect the degree of slope, the density of the growth, the height of the trees, the soil structure, and other hazards reasonably anticipated at the worksite. A distance of more than 2 tree lengths shall be maintained between adjacent occupied work areas on any slope where the rolling or sliding of trees or logs is reasonably foreseeable.**

**(3) Each employee shall work in a position or location that is within visual or audible contact of another employee.**

**R 408.15117b Signaling and signal equipment.**

**R 5117b. Hand signals or audible contact, such as, but not limited to, whistles, horns, or radios, shall be utilized whenever noise, distance, restricted visibility, or other factors prevent clear understanding of normal voice communications between employees-**

**PERSONAL PROTECTIVE EQUIPMENT ~~PROTECTIVE CLOTHING~~**

R 408.15120 Personal protective equipment generally. ~~Requirements-~~

Rule 5120. (1) An employer shall assure that personal protective equipment, including any personal protective equipment provided by an employee, is maintained in a serviceable condition.

(2) An employer shall assure that personal protective equipment, including any personal protective equipment provided by an employee, is inspected before initial use during each work shift. Defects or damage shall be repaired or the unserviceable personal protective equipment shall be replaced before work is commenced.

R 408.15125 Foot and leg protection.

Rule 5125. (1) An employer shall assure that each employee wears foot protection, such as heavy-duty logging boots which are waterproof or water-repellent and which cover and provide support to the ankle. The employer shall assure that each employee who operates a chain saw wears foot protection that is constructed with cut-resistant material that will protect the employee's foot against contact with a running chain saw. The employer shall assure that each employee wears sharp, calk-soled boots or other slip-resistant type boots where the employer demonstrates that they are necessary for the employee's job, the terrain, the timber type, and the weather conditions, provided that foot protection otherwise required by this rule is met.

(2) The employer shall provide, at no cost to the employee, and assure that each employee who operates a chain saw wears leg protection made of **cut-resistant** ~~cut-resistant~~ material, such as ballistic nylon. The leg protection shall cover the full length of the thigh to the top of the boot on each leg to protect against contact with a moving chain saw.

Exception: This requirement does not apply when an employee is working as a climber if the employer demonstrates that a greater hazard is posed by wearing leg protection in the particular situation, or when an employee is working from a vehicular mounted elevating and rotating work platform meeting the requirements of General Industry Safety Standard Part 58 "Aerial Work Platforms," as referenced in R 408.15102.

**EXPLOSIVES AND BLASTING AGENTS**

R 408.15127 Explosives and blasting **agents, generally.** ~~agents generally-~~

Rule 5127. (1) Explosives and blasting agents shall be stored, handled, transported, and used in accordance with the requirements of General Industry Safety Standard Part 55 "Explosives and Blasting Agents," as referenced in R 408.15102.

(2) Only a designated person shall handle or use explosives and blasting agents.

(3) Explosives and blasting agents shall not be transported in the driver compartment or in any passenger-occupied area of a machine or vehicle.

**~~PROTECTIVE EQUIPMENT~~**

## HAND-HELD CHAIN SAWS

R 408.15130 Hand and portable powered **tools, generally.** ~~tools generally.~~

Rule 5130. (1) An employer shall assure that each hand and portable powered tool, including any tool provided by an employee, is maintained in servicable condition.

(2) An employer shall assure that each tool, including any tool provided by an employee, is inspected before initial use during each work shift. At a minimum, all of the following items shall be inspected:

(a) Handles and guards, to assure that they are sound, tight-fitting, properly shaped, free of splinters and sharp edges, and in place.

(b) Controls, to assure proper function.

(c) Chain saw chains, to assure proper adjustment.

(d) Chain saw mufflers, to assure that they are operational and in place.

(e) Chain brakes and nose-shielding devices, to assure that they are in place and function properly.

(f) Heads of shock, impact-driven, and driving tools, to assure that there is no mushrooming.

(g) Cutting edges, to assure that they are sharp and properly shaped.

(h) All other safety devices, to assure that they are in place and function properly.

(3) An employer shall assure that each tool is used only for the purpose for which it has been designed.

(4) When the head of any shock, impact-driven, or driving tool begins to chip, it shall be repaired or removed from service.

(5) The cutting edge of each tool shall be sharpened in accordance with the manufacturer's specifications when it becomes dull during the work shift.

(6) A hand tool transported in the same compartment of a vehicle with an employee shall be secured to the vehicle in a rack, box, holster, or other means.

(7) When a hand tool is not being used, it shall be stored in a storage facility at a designated location.

(8) Defective hand tools that could cause injury shall be repaired or replaced.

R 408.15131 Chain saws generally.

Rule 5131. (1) A hand-held chain saw shall be equipped with a positive-type, on-off ignition switch which is conveniently located on the saw so that the operator can move the switch into the off position without relinquishing a secure grip on the saw.

(2) A manual chain oiler control, if provided on a handheld chain saw, shall be located so that it can be operated without relinquishing a secure grip on the saw.

(3) A hand-held chain saw shall have a guard that protects the throttle lever from casual contact and from brush or other foreign objects.

(4) Each gasoline-powered chain saw shall be equipped with a continuous pressure throttle control system that will stop the chain when pressure on the throttle is released.

(5) A hand-held chain saw's moving parts, such as a flywheel, rotating screen, or clutch, shall be guarded.

(6) Each chain saw placed into initial service after July 2, 1996, shall be equipped with a chain brake and shall be in compliance with the requirements of ANSI B175.1 "Safety Requirements for Gasoline-Powered Chain Saws," 1991 edition, ~~which is as adopted by reference~~ in R 408.15102.

R 408.15144 Rollover protection and cab guards.

Rule 5144. (1) Each tractor, skidder, swing yarder, log stacker, and mechanical felling device, such as a tree shears or feller-buncher, that is placed into initial service after February 9, 1995, shall be equipped with falling object protective structure (FOPS) or rollover protective structure (ROPS), or both. The employer shall replace FOPS or ROPS that have been removed from any machine.

Exception: This requirement does not apply to machines that are capable of 360 degree rotation.

(2) For each machine manufactured after August 1, 1996, the FOPS shall be installed, tested, and maintained in accordance with SAE J231, “Minimum Performance Criteria for Falling Object Protective Structures (FOPS),” January 1981 edition, ~~which is as adopted by reference~~ in R 408.15102.

(3) For each machine manufactured after August 1, 1996, the ROPS shall be installed, tested, and maintained in accordance with SAE J1040, “Performance Criteria for Rollover Protective Structures (ROPS) for Construction, Earthmoving, Forestry, and Mining Machines,” April 1988 edition, ~~which is as adopted by reference~~ in R 408.15102.

(4) For each machine manufactured after August 1, 1996, the ROPS and FOPS shall be in compliance with the requirements of SAE J397, “Deflection Limiting Volume- ROPS/FOPS Laboratory Evaluation,” April 1988 edition, ~~which is as adopted by reference~~ in R 408.15102.

(5) A protective structure shall not impede the operator’s normal movements.

(6) In addition to the rollover protection, the upper portion of the cab of mobile equipment shall have both of the following:

(a) A screen brush guard on all 4 sides, except for doorways. The front, rear, and side brush screen shall be 1/4-inch wire, or equivalent, and have not more than a 2-inch mesh.

(b) An overhead canopy guard or solid material that extends the full width and length of the canopy.

(7) The lower portion of a cab of mobile equipment shall be enclosed with solid material, except at an entrance, to prevent objects from entering the cab. The entrance shall be not less than 52 (1.3m) inches in vertical height from the floor of the cab.

(8) An enclosure of the upper portion of each cab shall allow maximum visibility. Where glass is used on a cab, it shall be safety glass or an equivalent.

An additional metal screen shall be used where there is exposure to falling or flying objects. Provision shall be made to clean glass to assure adequate visibility.

(9) Transparent material that may create a hazard for the operator, such as cracked, broken, or scratched safety glass, shall be replaced.

(10) A deflector shall be installed in front of each cab to deflect whipping saplings and branches. A deflector shall be located so as not to impede visibility and access to the cab.

(11) Each machine operated near cable yarding operations shall be equipped with sheds or roofs that are strong enough to provide protection from breaking lines.

(12) Each forklift shall be equipped with an overhead guard that is in compliance with the requirements of ASME B56.6 “Safety Standard for Rough Terrain Forklift Trucks,” 1992 edition with addenda, ~~which is as adopted by reference~~ in R 408.15102.

(13) Machine access systems that are in compliance with the specifications of SAE J185, “Recommended Practice for Access Systems for Off-Road Machines,” June 1988 edition, as adopted in R 408.15102, shall be provided for each machine where the operator or any other employee must climb onto the machine to enter the cab or to perform maintenance.

(14) Each machine cab shall have a second means of egress.

(15) ROPS shall be tested, installed, and maintained in serviceable condition.

~~R 408.15146 Equipment, maintenance of mufflers; seating and seatbelts; design~~ **Design** and construction of skidding and hauling equipment; towing; ~~pre-haulers prehaulers~~ and forwarders; crane or clam turning; trucks; operation of loading devices; alteration of logging equipment; insulation or shielding or surfaces of logging equipment.

~~Rule 5146. (1) Equipment originally equipped with a muffler shall have the muffler maintained when the equipment is in operation. The exhaust pipes on each machine shall be located so exhaust gases are directed away from the operator and mounted or guarded to protect each employee from accidental~~

~~contact. An exhaust pipe shall be equipped with a spark arrester. An engine equipped with turbochargers does not require a spark arrester.~~

~~(2) Equipment shall be operated only from the position or seat intended for that purpose. A seat belt shall be provided on mobile equipment, including any vehicle or machine provided by an employee. An employer shall assure all of the following:~~

~~(a) That a seat belt is provided for each vehicle or machine operator.~~

~~(b) That each employee uses the available seat belt while the vehicle or machine is being operated.~~

~~(c) That each employee securely and tightly fastens the seat belt to restrain the employee within the vehicle or machine cab.~~

~~(d) That each machine seat belt is in compliance with the requirements of SAE J386, "Operator Restraint Systems for Off-Road Work Machines," June 1985 edition, as adopted in R 408.15102, which was equipped with seat belts at the time of manufacture.~~

~~(e) That seat belts are not removed from any vehicle or machine. The employer shall replace each seat belt that has been removed from any vehicle or machine that was equipped with seat belts at the time of manufacture.~~

~~(f) That each seat belt is maintained in a serviceable condition.~~

~~(1) (3) Skidding and **pre-hauling** ~~prehauling~~ equipment shall be designed and constructed to allow a minimum radius vehicle turn without the load contacting the rear wheel or the rear track assembly.~~

~~(2) (4) Towed equipment shall be attached in a manner that will allow a full 90-degree turn, prevent overrunning, and assure control of the towed equipment.~~

~~(3) (5) A **pre-hauler** ~~prehauler~~ or forwarder shall have a means of retaining loads and a means for securing the load during transport.~~

~~(4) (6) A crane or clam that has a turning house shall have not less than 2 feet of clearance between the turning radius of the house and a fixed object.~~

~~(5) (7) A truck shall have a guard that protects the operator in the cab from a load shift.~~

~~(6) (8) A truck shall be driven by a licensed driver and have, in its cab, flares and flags and an approved multipurpose fire extinguisher that has a rating of not less than 2a-4bc.~~

~~(7) (9) A loading device shall not be operated so that the load passes over the operator or employees.~~

~~(8) (10) Logging equipment shall not be altered to exceed the rated capacity, unless the alterations are approved by the manufacturer.~~

~~(9) (11) All hot surfaces on logging equipment that have a temperature of more than 150 degrees Fahrenheit and that could be contacted by the operator during normal starting and operating shall be thermally insulated or shielded.~~

#### **R 408.15146a Exhaust systems.**

**Rule 5146a. (1) Equipment originally equipped with a muffler shall have the muffler maintained when the equipment is in operation.**

**(2) The exhaust pipes on each machine shall be located so exhaust gases are directed away from the operator and mounted or guarded to protect each employee from accidental contact.**

**(3) An exhaust pipe shall be equipped with a spark arrester. An engine equipped with turbochargers does not require a spark arrester.**

#### **R 408.15146b Equipment seating and seatbelts.**

**Rule 5146b. (1) Equipment shall be operated only from the position or seat intended for that purpose.**

**(2) An employer shall ensure that a seat belt is provided on mobile equipment, including any vehicle or machine provided by an employee. An employer shall ensure all of the following:**

- (a) That a seat belt is provided for each vehicle or machine operator.**
- (b) That each employee uses the available seat belt while the vehicle or machine is being operated.**
- (c) That each employee securely and tightly fastens the seat belt to restrain the employee within the vehicle or machine cab.**
- (d) That each machine seat belt is in compliance with the requirements of SAE J386, “Operator Restraint Systems for Off-Road Work Machines,” June 1985 edition, as adopted in R 408.15102, which was equipped with seat belts at the time of manufacture.**
- (e) That seat belts are not removed from any vehicle or machine. The employer shall replace each seat belt that has been removed from any vehicle or machine that was equipped with seat belts at the time of manufacture.**
- (f) That each seat belt is maintained in a serviceable condition.**

R 408.15148 Logging equipment; operations.

Rule 5148. (1) The engine of a powered logging machine shall be shut off while being serviced or adjusted, except where operation is required for adjustment.

(2) If an operator leaves the seat of any logging equipment that has its engine running, then the transmission shall be placed in the park position and the brakes set. If equipment is to be left unattended, then the operator shall apply the brake locks, ground moving elements, and turn the power off.

(3) A person, except the operator, shall not ride on mobile logging equipment unless the equipment is provided with a passenger seat belt located under a canopy that is in compliance with the requirements of R 408.15144 and R 408.15146.

(4) A logging equipment operator shall do all of the following:

- (a) Operate the equipment within the rated capacity and stability limitations.
  - (b) Ensure, before start-up and during operation of the equipment, that employees and other objects are not in danger of being struck. Moveable objects, such as a boom, grapple, or load, shall not be moved close to or over an employee.
  - (c) Check all controls for function and response before starting a work shift.
  - (d) When a signalman is used, operate the equipment only on a clearly understood signal by the designated signalman.
  - (e) When operating near other employees, signal intent to move before moving.
  - (f) Dismount from the equipment, stand clear, and be visible when forest products or equipment is loaded or unloaded on or from the equipment by other equipment.
  - (g) Not place undue shock loads on wire rope.
  - (h) Position or secure all moveable elements not in use for safe operation.
- (5) When transporting logging equipment from one job location to another, the carrying vehicle shall be capable of sustaining the load and the load shall be secured against movement.
- (6) Any overhead electrical distribution or transmission line shall be considered energized until the owner or utility indicates otherwise and the line has been visibly grounded. Where a line cannot be de-energized, the following clearances shall be observed:

<b>VOLTAGE</b>	<b>CLEARANCE BOOM RAISED</b>	<b>CLEARANCE BOOM LOWERED AND NO LOAD</b>
<b>to 50 kV</b>	<b>10 feet</b>	<b>4 feet</b>

<b>51 to 345 kV</b>	<b>10 feet plus .4 inch per kV over 50 kV</b>	<b>10 feet</b>
<b>346 to 750 kV</b>	<b>10 feet plus .4 inch per kV over 50 kV</b>	<b>15 feet</b>

Voltage to 50 kV Clearance boom raised 10 feet Clearance boom lowered and no load 4 feet  
 51 to 345 kV 10 feet plus .4 inch per kV over 50 kV 10 feet  
 346 to 750 kV 10 feet plus .4 inch per kV over 50 kV 15 feet

(7) When winching, the logging equipment shall be positioned so that the winch line is near the alignment with the long axis of the equipment.

(8) If natural light is inadequate during a logging, decking, or loading operation, the loader or loading areas shall be artificially lighted.

(9) A person involved in logging operations shall not work under a suspended load.

(10) When logging operations involve manual loading, the carrier shall be positioned to provide an area free of recognized hazards between the carrier and the pile, and the log or pole shall be placed in a manner so that it will not roll or slip.

(11) When logging operations involve machine loading, all of the following provisions apply:

(a) The piles shall be located in an area free of recognized hazards.

(b) Only the operator shall be in the work area.

(c) The load shall be balanced and secured to prevent slippage and loss.

(12) A person shall not ride a logging crane load, grapple, or hook.

(13) Truck-mounted loading equipment used in logging operations shall be secured before leaving a loading area. A protruding object on a load shall be removed or caution flags shall be installed.

(14) A truck driver shall stop a logging vehicle, dismount, and check and tighten loose load binders either just before or immediately after leaving a woods road to enter a public road.

(15) A logging operator shall use care in driving under limbs, trees, and other overhanging obstructions.

#### R 408.15150 Vehicles

Rule 5150. (1) An employer shall assure that each vehicle used to perform any logging operation, including any vehicle provided by an employee, is maintained in serviceable condition.

(2) An employer shall assure that each vehicle used to perform any logging operation is inspected before ~~initial~~ initial use during each work shift. Vehicle defects or damage shall be repaired or the unserviceable vehicle shall be replaced before work is commenced.

(3) The employer shall assure that operating and maintenance instructions are available in each vehicle. Each vehicle operator and maintenance employee shall comply with the operating and maintenance instructions.

(4) The employer shall assure that each vehicle operator has a valid operator's license for the class of vehicle being operated.

(5) Mounting steps and handholds shall be provided for each vehicle when necessary to prevent an employee from being injured when entering or leaving the vehicle.

(6) The seats of each vehicle shall be securely fastened.

(7) The rated capacity of a machine shall not be exceeded.

(8) The requirements of R 408.15148 (2) and (4)(a), (b), and (h) and R 408.15149 (7), (8), and (9) shall also apply to each vehicle used to transport an employee off public roads or to perform a logging operation, including a vehicle provided by an employee.

**WATER, STORAGE, CHIPPING ~~LOADING AND DECKING~~**

R 408.15165 Water.

Rule 5165. A person working in or around water shall wear a life jacket and shall not work alone.

R 408.15166 Storage.

Rule 5166. (1) Logs and poles shall be piled in a stable manner.

(2) When steel banding is used, it shall be capable of containing the imposed load and shall be placed when the bundle is close to the ground.

(3) An employee shall not place his **or her** body underneath a bundle of logs or poles.

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**PROPOSED ADMINISTRATIVE RULES**

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DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS

DIRECTOR'S OFFICE

OCCUPATIONAL HEALTH STANDARDS

Draft September 30, 2016

Filed with the Secretary of State on

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 14 and 24 of 1974 PA 154, MCL 408.1014 and 408.1024; and Executive Reorganization Orders Nos. 1996-1, 1996-2, 2003-1, 2008-4, and 2011-4, MCL 330.3101, 445.2001, 445.2011, 445.2025 and 445.2030)

R 325.51101, R 325.51101a, R 325.51102, R 325.51103, R 325.51104, and R 325.51102 of the Michigan Administrative Code are amended to read as follows:

PART 301. AIR CONTAMINANTS FOR GENERAL INDUSTRY

R 325.51101 **Scope.** ~~Scope; applicability; replacement of O.H. rules.~~

Rule 1. (1) These rules do not apply to the following types of employment:

- (a) Agriculture.
- (b) Domestic.
- (c) Mining.
- (d) Construction.

~~Exposure to air contaminants in construction work is covered by occupational health standard part 601 "Air Contaminants for Construction," R 325.60151 to R 325.60161.~~

(2) **Exposure to air contaminants in construction work is covered by Occupational Health Standard Part 601 "Air Contaminants for Construction," as referenced in R 325.51101a.** ~~These rules replace O.H. rules 2101, 2102, 2103, and 2104.~~

R 325.51101a Availability of referenced standards.

Rule 1a. The following Michigan occupational safety and health (**MIOSHA**) 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 Regulatory Services Standards Section**, 7150 Harris Drive, P.O. Box 30643, Lansing, Michigan, 48909-8143 or via the internet at website: [www.michigan.gov/mioshastandards](http://www.michigan.gov/mioshastandards). ~~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) Occupational **Health Standard Part** ~~health standard part~~ 302 “Vinyl Chloride,” R 325.51401 to R 325.51414.
- (b) Occupational **Health Standard Part** ~~health standard part~~ 303 “Methylenedianiline,” R 325.50051 to R 325.50076.
- (c) Occupational **Health Standard Part** ~~health standard part~~ 304 “Ethylene oxide,” R 325.51151 to R 325.51177.
- (d) Occupational **Health Standard Part** ~~health standard part~~ 305 “Asbestos for General Industry,” R 325.51311 to R 325.51312.
- (e) Occupational **Health Standard Part** ~~health standard part~~ 306 “Formaldehyde,” R 325.51451 to R 325.51477.
- (f) Occupational **Health Standard Part** ~~health standard part~~ 307 “Acrylonitrile,” R 325.51501 to R 325.51527.
- (g) Occupational **Health Standard Part** ~~health standard part~~ 308 “Inorganic Arsenic,” R 325.51601 to R 325.51628.
- (h) Occupational **Health Standard Part** ~~health standard part~~ 309 “Cadmium,” R 325.51851 to R 325.51886.
- (i) Occupational **Health Standard Part** ~~health standard part~~ 310 “Lead,” R 325.51901 to R 325.51958.
- (j) Occupational **Health Standard Part** ~~health standard part~~ 311 “Benzene,” R 325.77101 to R 325.77115.
- (k) Occupational **Health Standard Part** ~~health standard part~~ 312 “1,3-Butadiene,” R 325.50091 to R 325.50092.
- (l) Occupational **Health Standard Part** ~~health standard part~~ 313 “Methylene Chloride,” R 325.51651 to R 325.51652.
- (m) Occupational **Health Standard Part** ~~health standard part~~ 314 “Coke Oven Emissions,” R 325.50101 to R 325.50136.
- (n) Occupational **Health Standard Part** ~~health standard part~~ 315 “Chromium (VI) in General Industry,” R 325.50141 to R 325.50143.
- (o) Occupational **Health Standard Part** ~~health standard part~~ 350 “Carcinogens,” R 325.35001 to R 325.35011.
- (p) Occupational **Health Standard Part** ~~health standard part~~ 451 “Respiratory Protection,” R 325.60051 to R 325.60052.
- (q) Occupational **Health Standard Part** ~~health standard part~~ 601 “Air Contaminants for Construction,” R 325.60151 to R 325.60161.

R 325.51102 Definitions.

Rule 2. ~~As used in these rules:~~

(1) ~~(a)~~ “Ceiling” means the employee's exposure **that which** shall not be exceeded during any part of the workday. If instantaneous monitoring is not feasible, then the ceiling shall be assessed as a 15-minute, time-weighted average exposure **that which** shall not be exceeded during any part of the working day.

(2) ~~(b)~~ “Skin designation” means those substances so indicated that have toxic effects due to absorption through an employee's skin.

(3) ~~(c)~~ “Short-term exposure limit (STEL)” means the employee's 15-minute, time-weighted average exposure **that which** shall not be exceeded at any time during a workday, unless another time limit is specified in a parenthetical notation below the limit. If another time period is specified, then the time-weighted average exposure over that time limit shall not be exceeded at any time during the workday.

(4) ~~(d)~~ "Time-weighted average (TWA)" means the employee's average airborne exposure in any 8-hour workshift of a 40-hour workweek that shall not be exceeded.

(5) ~~(e)~~ The terms "substance" and "air contaminant" are equivalent in meaning for purposes of these rules.

R 325.51103 Exposure limits.

Rule 3. An employer shall ensure that an employee exposure to any substance listed in tables G-1-A or G-2 in R 325.51108 is limited in accordance with the requirements of all of the following provisions:

(a) With respect to table G-1-A, all of the following provisions apply:

(i) Removed (May 9, 2001).

(ii) Removed (May 20, 2001).

(iii) An employee's exposure to any substance listed in table G-1-A shall not exceed the time-weighted average (TWA) limit, short-term exposure limit (STEL) and ceiling limit specified for that substance in table G-1-A.

(iv) To prevent or reduce skin absorption, an employee's skin exposure to substances listed in table G-1-A with an "X" in the skin designation column following the substance name shall be prevented or reduced to the extent necessary through the use of gloves, coveralls, goggles, or other appropriate personal protective equipment, engineering controls, or work practices.

(v) An employee shall not be exposed to air concentrations between the TWA and STEL limits more than 4 times in a workshift and such exposures shall be no less than 60 minutes apart.

(b) With respect to table G-2, all of the following provisions apply:

(i) An employee's exposure to any substance listed in table G-2 in any 8-hour workshift of a 40-hour workweek shall not exceed the 8-hour, time-weighted average limit given for that substance in table G-2.

(ii) An employee's exposure to a substance listed in table G-2 shall not exceed, at any time during an 8-hour workshift, the acceptable ceiling concentration limit given for the substance in the table, except for a period of time and up to a concentration that does not exceed the maximum duration and concentration allowed in the column under "Acceptable maximum peak above the ceiling concentration for an 8-hour workshift." For example, during an 8-hour workshift, an employee may be exposed to a concentration of **Substance A** (with a 10 parts of the substance per million parts of air (ppm) TWA, 25 ppm ceiling and 50 ppm peak) above 25 ppm (but not above 50 ppm) only for a maximum period of 10 minutes. Such an exposure shall be compensated for by exposures to concentrations less than 10 ppm so the cumulative exposure for the entire 8-hour workshift does not exceed a time-weighted average of 10 ppm.

(iii) If a substance is preceded by an "S", then an employer shall take the necessary precautions to prevent an employee from absorbing the substance through his or her skin.

R 325.51104 Computation formulae.

Rule 4. The computation formulas that shall apply to employee exposure to ~~1 one~~ or more substances that have an 8-hour, time-weighted average listed in table G-1-A or G-2 to determine whether an employee is exposed in excess of the exposure limit are as follows:

(a) An employer shall compute the cumulative exposure for multiple exposures to a single substance for an 8-hour workshift as follows:

$E = (C_1T_1 + C_2T_2 + \dots + C_nT_n) \div 8 \text{ hours}$  Where: E is the cumulative exposure for an 8-hour workshift. C<sub>1</sub> is the substance concentration during the first period of time "T" where the concentration remains constant.

C<sub>2</sub> is the substance concentration during the second period of time "T" where the concentration remains constant.

T is the period of time in hours for which the substance concentration C remains constant.

The value of E shall not exceed the 8-hour, time-weighted average limit for the substance as specified in table G-1-A or G-2.

To illustrate the formula for a cumulative exposure to a single substance, assume that **Substance** ~~substance~~ A has an 8-hour, time-weighted average exposure limit of 100 ppm noted in table G-1-A.

Assume that an employee is subject to the following exposures over an 8-hour workshift:

Two hours' exposure at 150 ppm

Two hours' exposure at 75 ppm

Four hours' exposure at 50 ppm

Substituting this information into the formula:

$E = [(150 \text{ ppm} \times 2 \text{ hrs}) + (75 \text{ ppm} \times 2 \text{ hrs}) + (50 \text{ ppm} \times 4 \text{ hrs})] \div 8 \text{ hrs}$   
 $E = [300 \text{ ppm} \cdot \text{hrs} + 150 \text{ ppm} \cdot \text{hrs} + 200 \text{ ppm} \cdot \text{hrs}] \div 8 \text{ hrs}$   
 $E = 650 \text{ ppm} \cdot \text{hrs} \div 8 \text{ hrs} = 81.25 \text{ ppm}$   
 Since the cumulative exposure of 81.25 ppm is less than the exposure limit of 100 ppm, then the employee's 8-hour workshift exposure is acceptable.

(b) An employer shall compute the equivalent exposure for a mixture of air contaminants for an 8-hour workshift as follows:

$E_m = (C_1 \div L_1 + C_2 \div L_2) + \dots (C_n \div L_n)$  Where: E<sub>m</sub> is the equivalent exposure to the mixture of air contaminants during an 8-hour workshift.

C<sub>1</sub> is the average 8-hour concentration of the first substance.

C<sub>2</sub> is the average 8-hour concentration of the second substance.

L is the 8-hour, TWA exposure limit for that particular substance. The value of E<sub>m</sub> shall not exceed a value of one (1.0). To illustrate the formula for a mixture of air contaminants, assume the following exposures:

Substances in mixture (L)	Average concentration	8-hour TWA of 8-hour exposure (C) exposure limit
Substance A	500 ppm	1,000 ppm
Substance B	45 ppm	200 ppm
Substance D	40 ppm	200 ppm

Substituting this information into the formula:

$$E_m = (500 \text{ ppm} \div 1,000 \text{ ppm}) + (45 \text{ ppm} \div 200 \text{ ppm}) + (40 \text{ ppm} \div 200 \text{ ppm})$$

$$E_m = 0.500 + 0.225 + 0.200$$

$$E_m = 0.925$$

Since the value of E<sub>m</sub> did not exceed one (1.0), the employee's 8-hour workshift exposure to the mixture of air contaminants is acceptable.

R 325.51108 Tables.

Rule 8. Tables G-1-A and G-2 read as follows:

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS								
		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Abate		–	15	–	–	–	–	–
Acetaldehyde	75-07-0	100	180	150	270	–	–	–
Acetic acid	64-19-7	10	25	–	–	–	–	–
Acetic anhydride	108-24-7	–	–	–	–	5	20	–
Acetone	67-64-1	750	1800	1000	2400	–	–	–
Acetonitrile	75-05-8	40	70	60	105	–	–	–
2-Acetylaminofluorine; see OH Part 350, R 325.35001 to R 325.35011 <sup>F</sup>	53-96-3							
Acetylene dichloride; see 1,2-Dichloroethylene								
Acetylene tetrabromide	79-27-6	1	14	–	–	–	–	–
Acetylsalicylic acid (Aspirin)	50-78-2	–	5	–	–	–	–	–
Acrolein	107-02-8	0.1	0.25	0.3	0.8	–	–	–
Acrylamide	79-06-1	–	0.03	–	–	–	–	x
Acrylic acid	79-10-7	10	30	–	–	–	–	x
Acrylonitrile; see OH Part 307, R 325.51501 to R 325.51527 <sup>F</sup>	107-13-1	2	4.34	10	21.7			
Aldrin	309-00-2	–	0.25	–	–	–	–	x
Allyl alcohol	107-18-6	2	5	4	10	–	–	x

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Allyl chloride	107-05-1	1	3	2	6	–	–	–
Allyl glycidyl ether (AGE)	106-92-3	5	22	10	44	–	–	–
Allyl propyl disulfide	2179-59-1	2	12	3	18	–	–	–
□α Alumina (aluminum oxide)								
Respirable fraction	1344-28-1	–	5	–	–	–	–	–
Total dust		–	10	–	–	–	–	–
Aluminum (as Al)								
Alkyls		–	2	–	–	–	–	–
Metal		–	–	–	–	–	–	–
Respirable dust	7429-90-5	–	5	–	–	–	–	–
Total dust		–	15	–	–	–	–	–
Pyro powders		–	5	–	–	–	–	–
Soluble salts		–	2	–	–	–	–	–
Welding fumes*		–	5	–	–	–	–	–
4-Aminodiphenyl; see OH Part 350, R 325.35001 to R 325.35011 <sup>F</sup>	92-67-1							
2-Aminoethanol; see Ethanolamine								
2-Aminopyridine	504-29-0	0.5	2	–	–	–	–	–
Amitrole	61-82-5	–	0.2	–	–	–	–	–
Ammonia	7664-41-7	–	–	35	24	–	–	–
Ammonium chloride fume	12125-02-9	–	10	–	20	–	–	–
Ammonium sulfamate								
Respirable dust	7773-06-0	–	5	–	–	–	–	–
Total dust		–	10	–	–	–	–	–
n-Amyl acetate	628-63-7	100	525	–	–	–	–	–
sec-Amyl acetate	626-38-0	125	650	–	–	–	–	–

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Aniline and homologues	62-53-3	2	8	–	–	–	–	x
Anisidine (o- and p-isomers)	29191-52-4	–	0.5	–	–	–	–	x
Antimony and compounds (as Sb)	7440-36-0	–	0.5	–	–	–	–	–
ANTU (alpha-naphthylthiourea)	86-88-4	–	0.3	–	–	–	–	–
Arsenic, organic compounds (as As)	7440-38-2	–	0.5	–	–	–	–	–
Arsenic, inorganic compounds (as As); see OH Part 308, R 325.51601 to R 325.51628 <sup>F</sup>	7440-38-2		0.01					
Arsine	7784-42-1	0.05	0.2	–	–	–	–	–
		TWA		STEL				
Asbestos; see OH Part 305, R 325.51311 to R 325.51312 <sup>F</sup>	Varies	0.1f÷cc		–				
		ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>			
Atrazine	1912-24-9	–	5	–	–	–	–	–
Azinphos-methyl	86-50-0	–	0.2	–	–	–	–	x
Barium, soluble compounds (as Ba)	7440-39-3	–	0.5	–	–	–	–	–
Barium sulfate								
Respirable dust	7727-43-7	–	5	–	–	–	–	–
Total dust		–	10	–	–	–	–	–
Benomyl								
Respirable dust	17804-35-2	–	5	–	–	–	–	–
Total dust		–	10	–	–	–	–	–

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Benzene <sup>E</sup> ; see OH Part 311, R 325.77101 to R 325.77115 <sup>F</sup> and table G-2 for limits applicable in the operations or sectors excluded in R 325.77101 <sup>E</sup>	71-43-2	1	3.19	5	15.97			
Benzidine; see OH Part 350, R 325.35001 to R 325.35011 <sup>F</sup>	92-87-5							
p-Benzoquinone; see Quinone								
Benzo(a)pyrene; see Coal tar pitch volatiles								
Benzoyl peroxide	94-36-0	–	5	–	–	–	–	–
Benzyl chloride	100-44-7	1	5	–	–	–	–	–
Beryllium and beryllium compounds (as Be)	7440-41-7	See table G-2						
Biphenyl; see Diphenyl								
Bismuth telluride, Undoped								
Respirable dust	1304-82-1	–	5	–	–	–	–	–
Total dust		–	15	–	–	–	–	–
Bismuth telluride, Se-doped		–	5	–	–	–	–	–
Borates, Tetra, Sodium Salts								
Anhydrous	1330-43-4	–	10	–	–	–	–	–
Decahydrate	1303-96-4	–	10	–	–	–	–	–
Pentahydrate	12179-04-3	–	10	–	–	–	–	–
Boron oxide, Total dust	1303-86-2	–	10	–	–	–	–	–
Boron tribromide	10294-33-4	–	–	–	–	1	10	–
Boron trifluoride	7637-07-2	–	–	–	–	1	3	–

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Bromacil	314-40-9	1	10	–	–	–	–	–
Bromine	7726-95-6	0.1	0.7	0.3	2	–	–	–
Bromine pentafluoride	7789-30-2	0.1	0.7	–	–	–	–	–
Bromoform	75-25-2	0.5	5	–	–	–	–	–
1,3-Butadiene; see OH Part 312, R 325.50091 to R 325.50092 <sup>F</sup>	106-99-0	1	2.2	5	11.1	–	–	–
Butane	106-97-8	800	1900	–	–	–	–	–
Butanethiol; see Butyl mercaptan								
2-Butanone (Methyl ethyl ketone)	78-93-3	200	590	300	885	–	–	–
2-Butoxyethanol	111-76-2	25	120	–	–	–	–	x
n-Butyl acetate	123-86-4	150	710	200	950	–	–	–
sec-Butyl acetate	105-46-4	200	950	–	–	–	–	–
tert-Butyl acetate	540-88-5	200	950	–	–	–	–	–
Butyl acrylate	141-32-2	10	55	–	–	–	–	–
n-Butyl alcohol (n-butanol)	71-36-3	–	–	–	–	50	150	x
sec-Butyl alcohol (sec-butanol)	78-92-2	100	305	–	–	–	–	–
tert-Butyl alcohol (tert-butanol)	75-65-0	100	300	150	450	–	–	–
Butylamine	109-73-9	–	–	–	–	5	15	x
tert-Butyl chromate (as Cr+6); see OH Part 315, R 325.50141 to R 325.50143 <sup>F, G</sup>	1189-85-1	–	0.005 (5 µg÷m <sup>3</sup> )	–	–	–	–	x
n-Butyl glycidyl ether (BGE)	2426-08-6	25	135	–	–	–	–	–

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
n-Butyl lactate	138-22-7	5	25	–	–	–	–	–
Butyl mercaptan	109-79-5	0.5	1.5	–	–	–	–	–
o-sec-Butylphenol	89-72-5	5	30	–	–	–	–	x
p-tert-Butyltoluene	98-51-1	10	60	20	120	–	–	–
Cadmium; see OH Part 309, R 325.51851 to R 325.51886 <sup>F</sup>	7440-43-9	–	0.005	–	–	–	–	–
Calcium carbonate, Respirable dust	1317-65-3	–	5	–	–	–	–	–
Total dust		–	15	–	–	–	–	–
Calcium cyanamide	156-62-7	–	0.5	–	–	–	–	–
Calcium hydroxide	1305-62-0	–	5	–	–	–	–	–
Calcium oxide	1305-78-8	–	5	–	–	–	–	–
Calcium silicate, Respirable dust	1344-95-2	–	5	–	–	–	–	–
Total dust		–	15	–	–	–	–	–
Calcium sulfate, Respirable dust	7778-18-9	–	5	–	–	–	–	–
Total dust		–	15	–	–	–	–	–
Camphor, synthetic	76-22-2	–	2	–	–	–	–	–
Caprolactam, Dust	105-60-2	–	1	–	3	–	–	–
Vapor		5	20	10	40	–	–	–
Captafol (Difolatan <sup>R</sup> )	2425-06-1	–	0.1	–	–	–	–	–
Captan	133-06-2	–	5	–	–	–	–	–
Carbaryl (Sevin <sup>R</sup> )	63-25-2	–	5	–	–	–	–	–

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Carbofuran (Furadan <sup>R</sup> )	1563-66-2	–	0.1	–	–	–	–	–
Carbon black	1333-86-4	–	3.5	–	–	–	–	–
Carbon dioxide	124-38-9	<b>5,000</b> <del>10,000</del>	<b>9,000</b> <del>18,000</del>	30,000	54,000	–	–	–
Carbon disulfide	75-15-0	4	12	12	36	–	–	x
Carbon monoxide	630-08-0	35	40	–	–	200	229	–
Carbon tetrabromide	558-13-4	0.1	1.4	0.3	4	–	–	–
Carbon tetrachloride (Tetrachloromethane)	56-23-5	2	12.6	–	–	–	–	x
Carbonyl fluoride	353-50-4	2	5	5	15	–	–	–
Catechol (Pyrocatechol)	120-80-9	5	20	–	–	–	–	x
Cellulose, Respirable dust Total dust	9004-34-6	–	5 15	–	–	–	–	– –
Cesium hydroxide	21351-79- 1	–	2	–	–	–	–	–
Chlordane	57-74-9	–	0.5	–	–	–	–	x
Chlorinated camphene (Toxaphene)	8001-35-2	–	0.5	–	1	–	–	x
Chlorinated diphenyl oxide	55720-99- 5 or 31242-93- 0	–	0.5	–	–	–	–	–
Chlorine	7782-50-5	0.5	1.5	1	3	–	–	–
Chlorine dioxide	10049-04- 4	0.1	0.3	0.3	0.9	–	–	–

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Chlorine trifluoride	7790-91-2	–	–	–	–	0.1	0.4	–
Chloroacetaldehyde	107-20-0	–	–	–	–	1	3	–
2-Chloroacetophenone (Phenacyl chloride)	532-27-4	0.5	0.3	–	–	–	–	–
Chloroacetyl chloride	79-04-9	0.5	0.2	–	–	–	–	–
Chlorobenzene	108-90-7	75	350	–	–	–	–	–
o-Chlorobenzylidene malononitrile	2698-41-1	–	–	–	–	0.05	0.4	x
Chlorobromomethane	74-97-5	200	1050	–	–	–	–	–
2-Chloro-1,3-butadiene; see β□-Chloroprene								
Chlorodifluoromethane	75-45-6	1000	3500	–	–	–	–	–
Chlorodiphenyl (42% Chlorine) (PCB)	53469-21-9	–	1	–	–	–	–	x
Chlorodiphenyl (54% Chlorine) (PCB)	11097-69-1	–	0.5	–	–	–	–	x
1-Chloro-2,3-epoxy propane; see Epichlorohydrin								
2-Chloroethanol; see Ethylene chlorohydrin								
Chloroethylene; see Vinyl chloride								
Chloroform (Trichloromethane)	67-66-3	2	9.78	–	–	–	–	–
bis (Chloromethyl) ether; see OH Part 350, R 325.35001 to R 325.35011 <sup>F</sup>	542-88-1							

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Chloromethyl methyl ether; see OH Part 350, R 325.35001 to R 325.35011 <sup>F</sup>	107-30-2							
1-Chloro-1-nitropropane	600-25-9	4	10	–	–	–	–	–
Chloropentafluoroethane	76-15-3	1000	6320	–	–	–	–	–
Chloropicrin	76-06-2	0.1	0.7	–	–	–	–	–
beta-Chloroprene	126-99-8	10	35	–	–	–	–	x
o-Chlorostyrene	2039-87-4	50	285	75	428	–	–	–
o-Chlorotoluene	95-49-8	50	250	–	–	–	–	–
2-Chloro-6-(trichloromethyl) pyridine, Respirable dust Total dust	1929-82-4	– –	5 15	– –	– –	– –	– –	– –
Chlorpyrifos	2921-88-2	–	0.2	–	–	–	–	x
Chromic acid and chromates (as Cr+6); see OH Part 315, R 325.50141 to R 325.50143 <sup>F, G</sup>	Varies with compound	–	0.005 (5 µg÷m <sup>3</sup> )	–	–	–	–	–
Chromium (II) compounds (as Cr)	7440-47-3	–	0.5	–	–	–	–	–
Chromium (III) compounds (as Cr)	7440-47-3	–	0.5	–	–	–	–	–
Chromium (VI) compounds; see OH Part 315, R 325.50141 to R 325.50143 <sup>F, G</sup>	Varies with compound		(5 µg÷m <sup>3</sup> )					
Chromium metal (as Cr)	7440-47-3	–	1	–	–	–	–	–
Chrysene; see Coal tar pitch volatile								

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Clopidol								
Respirable dust	2971-90-6	–	5	–	–	–	–	–
Total dust		–	15	–	–	–	–	–
Coal dust (less than 5% SiO <sub>2</sub> )								
Respirable dust	–	–	2	–	–	–	–	–
Coal dust (greater than or equal to 5% SiO <sub>2</sub> ),								
Respirable dust	–	–	0.1	–	–	–	–	–
Coal tar pitch volatile (as benzene solubles)								
anthracene, BaP, phenanthrene, acridine, crysene, pyrene	65996-93-2	–	0.2	–	–	–	–	–
Cobalt metal, dust, and fume (as Co)	7440-48-4	–	0.05	–	–	–	–	–
Cobalt carbonyl (as Co)	10210-68-1	–	0.1	–	–	–	–	–
Cobalt hydrocarbonyl (as Co)	16842-03-8	–	0.1	–	–	–	–	–
Coke oven emissions; see OH Part 314, R 325.50101 to R 325.50136 <sup>F</sup>	–	–	0.15 (150 µg÷m <sup>3</sup> )	–	–	–	–	–
Copper,								
Dusts and mists (as Cu)	7440-50-8	–	1	–	–	–	–	–
Fume (as Cu)		–	0.1	–	–	–	–	–
Cotton dust (raw)	–	–	1	–	–	–	–	–
Crag herbicide (Sesone)								
Total dust	136-78-7	–	10	–	–	–	–	–
Respirable fraction		–	5	–	–	–	–	–
Cresol, all isomers	1319-77-3	5	22	–	–	–	–	x
Crotonaldehyde	123-73-9 4170-30-3	2	6	–	–	–	–	–

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

Substance	CAS No. <sup>A</sup>	TWA		STEL <sup>D</sup>		Ceiling		Skin Designation
		ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	
Crufomate	299-86-5	–	5	–	–	–	–	–
Cumene	98-82-8	50	245	–	–	–	–	x
Cyanamide	420-04-2	–	2	–	–	–	–	–
Cyanides (as CN)	Varies with compound	–	5	–	–	–	–	x
Cyanogen	460-19-5	10	20	–	–	–	–	–
Cyanogen chloride	506-77-4	–	–	–	–	0.3	0.6	–
Cyclohexane	110-82-7	300	1050	–	–	–	–	–
Cyclohexanol	108-93-0	50	200	–	–	–	–	x
Cyclohexanone	108-94-1	25	100	–	–	–	–	x
Cyclohexene	110-83-8	300	1015	–	–	–	–	–
Cyclohexylamine	108-91-8	10	40	–	–	–	–	–
Cyclonite	121-82-4	–	1.5	–	–	–	–	x
Cyclopentadiene	542-92-7	75	200	–	–	–	–	–
Cyclopentane	287-92-3	600	1720	–	–	–	–	–
Cyhexatin	13121-70-5	–	5	–	–	–	–	–
2,4-D (Dichlorophenoxyacetic acid)	94-75-7	–	10	–	–	–	–	–
Decaborane	17702-41-9	0.05	0.3	0.15	0.9	–	–	x
Demeton (Systox <sup>R</sup> )	8065-48-3	–	0.1	–	–	–	–	x

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Diacetone alcohol (4-Hydroxy-4-methyl-2-pentanone)	123-42-2	50	240	–	–	–	–	–
1,2-Diaminoethane; see Ethylenediamine								
Diazinon	333-41-5	–	0.1	–	–	–	–	x
Diazomethane	334-88-3	0.2	0.4	–	–	–	–	–
Diborane	19287-45- 7	0.1	0.1	–	–	–	–	–
2-N-Dibutylaminoethanol	102-81-8	2	14	–	–	–	–	–
Dibutyl phosphate	107-66-4	1	5	2	10	–	–	–
Dibutyl phthalate	84-74-2	–	5	–	–	–	–	–
Dichloroacetylene	7572-29-4	–	–	–	–	0.1	0.4	–
o-Dichlorobenzene	95-50-1	–	–	–	–	50	300	–
p-Dichlorobenzene	106-46-7	75	450	110	675	–	–	–
3,3'-Dichlorobenzidine; see OH Part 350, R 325.35001 to R 325.35011 <sup>F</sup>	91-94-1							
Dichlorodifluoromethane	75-71-8	1000	4950	–	–	–	–	–
1,3-Dichloro-5,5-dimethyl hydantoin	118-52-5	–	0.2	–	0.4	–	–	–
Dichlorodiphenyltri-chloroethane (DDT)	50-29-3	–	1	–	–	–	–	x
1,1-Dichloroethane	75-34-3	100	400	–	–	–	–	–
1,2-Dichloroethylene	540-59-0	200	790	–	–	–	–	–
Dichloroethyl ether	111-44-4	5	30	10	60	–	–	x

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Dichlorofluoromethane	75-43-4	10	40	–	–	–	–	–
Dichloromethane; see Methylene chloride								
1,1-Dichloro-1-nitroethane	594-72-9	2	10	–	–	–	–	–
1,2-Dichloropropane; see Propylene dichloride								
1,3-Dichloropropene	542-75-6	1	5	–	–	–	–	x
2,2-Dichloropropionic acid	75-99-0	1	6	–	–	–	–	–
Dichlorotetrafluoroethane	76-14-2	1000	7000	–	–	–	–	–
Dichlorvos (DDVP)	62-73-7	–	1	–	–	–	–	x
Dicrotophos	141-66-2	–	0.25	–	–	–	–	x
Dicyclopentadiene	77-73-6	5	30	–	–	–	–	–
Dicyclopentadienyl iron, Respirable dust Total dust	102-54-5	– –	5 10	– –	– –	– –	– –	– –
Dieldrin	60-57-1	–	0.25	–	–	–	–	x
Diethanolamine	111-42-2	3	15	–	–	–	–	–
Diethylamine	109-89-7	10	30	25	75	–	–	–
2-Diethylaminoethanol	100-37-8	10	50	–	–	–	–	x
Diethylene triamine	111-40-0	1	4	–	–	–	–	x
Diethyl ether; see Ethyl ether								
Diethyl ketone	96-22-0	200	705	–	–	–	–	–
Diethyl phthalate	84-66-2	–	5	–	–	–	–	–

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Difluorodibromomethane	75-61-6	100	860	–	–	–	–	–
Diglycidyl ether (DGE)	2238-07-5	0.1	0.5	–	–	–	–	–
Dihydroxybenzene; see Hydroquinone								
Diisobutyl ketone	108-83-8	25	150	–	–	–	–	–
Diisopropylamine	108-18-9	5	20	–	–	–	–	x
4-Dimethylaminoazobenzene; see OH Part 350, R 325.35001 to R 325.35011 <sup>F</sup>	60-11-7							
Dimethoxymethane; see Methylal								
Dimethyl acetamide	127-19-5	10	35	–	–	–	–	x
Dimethylamine	124-40-3	10	18	–	–	–	–	–
Dimethylaminobenzene; see Xylidine								
Dimethylaniline (N,N-Dimethylaniline)	121-69-7	5	25	10	50	–	–	x
Dimethylbenzene; see Xylene								
Dimethyl-1,2-dibromo-2,2-dichloroethyl phosphate	300-76-5	–	3	–	–	–	–	x
Dimethylformamide	68-12-2	10	30	–	–	–	–	x
2,6-Dimethyl-4-heptanone; see Diisobutyl ketone								
1,1-Dimethylhydrazine	57-14-7	0.5	1	–	–	–	–	x
Dimethylphthalate	131-11-3	–	5	–	–	–	–	–
Dimethyl sulfate	77-78-1	0.1	0.5	–	–	–	–	x
Dinitolmide (3,5-Dinitro-o-toluamide)	148-01-6	–	5	–	–	–	–	–

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Dinitrobenzene (all isomers) (meta-) (ortho) (para-)	99-65-0 528-29-0 100-25-4	–	1	–	–	–	–	x
Dinitro-o-cresol	534-52-1	–	0.2	–	–	–	–	x
Dinitrotoluene	25321-14-6	–	1.5	–	–	–	–	x
Dioxane (Diethylene dioxide)	123-91-1	25	90	–	–	–	–	x
Dioxathion (Delnav)	78-34-2	–	0.2	–	–	–	–	x
Diphenyl (Biphenyl)	92-52-4	0.2	1	–	–	–	–	–
Diphenylamine	122-39-4	–	10	–	–	–	–	–
Diphenylmethane diisocyanate; see Methylene bisphenyl isocyanate								
Dipropylene glycol methyl ether	34590-94-8	100	600	150	900	–	–	x
Dipropyl ketone	123-19-3	50	235	–	–	–	–	–
Diquat	2768-72-9	–	0.5	–	–	–	–	–
Di-sec-octyl phthalate [Di(2-ethylhexyl)phthalate]	117-81-7	–	5	–	10	–	–	–
Disulfiram	97-77-8	–	2	–	–	–	–	–
Disulfoton	298-04-4	–	0.1	–	–	–	–	x
2,6-Di-tert-butyl-p-cresol (Butylated hydroxytoluene)	128-37-0	–	10	–	–	–	–	–
Diuron	330-54-1	–	10	–	–	–	–	–
Divinyl benzene	1321-74-0	10	50	–	–	–	–	–

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Emery, Respirable dust	1302-74-5	–	5	–	–	–	–	–
Total dust		–	10	–	–	–	–	–
Endosulfan	115-29-7	–	0.1	–	–	–	–	x
Endrin	72-20-8	–	0.1	–	–	–	–	x
Epichlorohydrin	106-89-8	2	8	–	–	–	–	x
EPN	2104-64-5	–	0.5	–	–	–	–	x
1,2-Epoxypropane; see Propylene oxide								
2,3-Epoxy-1-propanol; see Glycidol								
Ethanethiol; see Ethyl mercaptan								
Ethanolamine	141-43-5	3	8	6	15	–	–	–
Ethion	563-12-2	–	0.4	–	–	–	–	x
2-Ethoxyethanol (EGEE)	110-80-5	200	740	–	–	–	–	x
2-Ethoxyethyl acetate (Cellosolve acetate)	111-15-9	100	540	–	–	–	–	x
Ethyl acetate	141-78-6	400	1400	–	–	–	–	–
Ethyl acrylate	140-88-5	5	20	25	100	–	–	x
Ethyl alcohol (Ethanol)	64-17-5	1000	1900	–	–	–	–	–
Ethylamine	75-04-7	10	18	–	–	–	–	–
Ethyl amyl ketone (5-Methyl-3-heptanone)	541-85-5	25	130	–	–	–	–	–
Ethyl benzene	100-41-4	100	435	125	545	–	–	–
Ethyl bromide	74-96-4	200	890	250	1100	–	–	–

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Ethyl butyl ketone (3-Heptanone)	106-35-4	50	230	–	–	–	–	–
Ethyl chloride	75-00-3	1000	2600	–	–	–	–	–
Ethyl ether	60-29-7	400	1200	500	1500	–	–	–
Ethyl formate	109-94-4	100	300	–	–	–	–	–
Ethyl mercaptan	75-08-1	0.5	1	–	–	–	–	–
Ethyl silicate	78-10-4	10	85	–	–	–	–	–
Ethylene chlorohydrin	107-07-3	–	–	–	–	1	3	x
Ethylenediamine	107-15-3	10	25	–	–	–	–	–
Ethylene dibromide	106-93-4	See table G-2						
Ethylene dichloride	107-06-2	1	4	2	8	–	–	–
Ethylene glycol	107-21-1	–	–	–	–	50	125	–
Ethylene glycol dinitrate (EGDN)	628-96-6	–	–	–	0.1	–	–	x
Ethylene glycol methyl acetate (EGME); see Methyl cellosolve acetate								
Ethyleneimine; see OH Part 350, R 325.35001 to R 325.35011 <sup>F</sup>	151-56-4							
Ethylene oxide; see OH Part 304, R 325.51151 to R 325.51177 <sup>F</sup>	75-21-8	1	1.8	5	9.0	-	-	-
Ethylidene chloride; see 1,1-Dichloroethane								
Ethylidene norbornene	16219-75-3	–	–	–	–	5	25	–
N-Ethylmorpholine	100-74-3	5	23	–	–	–	–	x

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Fenamiphos	22224-92-6	–	0.1	–	–	–	–	x
Fensulfothion (Dasanit)	115-90-2	–	0.1	–	–	–	–	–
Fenthion	55-38-9	–	0.2	–	–	–	–	x
Ferbam, Dust	14484-64-1	–	10	–	–	–	–	–
Ferrovandium dust	12604-58-9	–	1	–	3	–	–	–
Fluorides (as F)	Varies with compound	–	2.5	–	–	–	–	–
Fluorine	7782-41-4	0.1	0.2	–	–	–	–	–
Fluorotrichloromethane (Trichlorofluoromethane)	75-69-4	–	–	–	–	1000	5600	–
Fonofos	944-22-9	–	0.1	–	–	–	–	x
Formaldehyde; see OH Part 306, R 325.51451 to R 325.51477 <sup>F</sup>	50-00-0	0.75	0.9	2	2.5	–	–	–
Formamide	75-12-7	20	30	30	45	–	–	–
Formic acid	64-18-6	5	9	–	–	–	–	–
Furfural	98-01-1	2	8	–	–	–	–	x
Furfuryl alcohol	98-00-0	10	40	15	60	–	–	x
Gasoline	8006-61-9	300	900	500	1500	–	–	–
Germanium tetrahydride	7782-65-2	0.2	0.6	–	–	–	–	–
Glutaraldehyde	111-30-8	–	–	–	–	0.2	0.8	–

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Glycerin, Respirable mist	56-81-5	–	5	–	–	–	–	–
Total mist		–	10	–	–	–	–	–
Glycidol	556-52-5	25	75	–	–	–	–	–
Glycol monoethyl ether; see 2-Ethoxyethanol								
Grain dust (Oat, wheat, barley)	–	–	10	–	–	–	–	–
Graphite, natural Respirable dust	7782-42-5	–	2.5	–	–	–	–	–
Graphite, synthetic, Respirable dust	–	–	5	–	–	–	–	–
Total dust		–	10	–	–	–	–	–
Guthion <sup>R</sup> ; see Azinphos methyl								
Gypsum, Respirable dust	13397-24-5	–	5	–	–	–	–	–
Total dust		–	15	–	–	–	–	–
Hafnium	7440-58-6	–	0.5	–	–	–	–	–
Heptachlor	76-44-8	–	0.5	–	–	–	–	x
Heptane (n-Heptane)	142-82-5	400	1600	500	2000	–	–	–
Hexachlorobutadiene	87-68-3	–	0.02	0.24	–	–	–	–
Hexachlorocyclopentadiene	77-47-4	0.01	0.1	–	–	–	–	–
Hexachloroethane	67-72-1	1	10	–	–	–	–	x
Hexachloronaphthalene	1335-87-1	–	0.2	–	–	–	–	x
Hexafluoroacetone	684-16-2	0.1	0.7	–	–	–	–	x
n-Hexane	110-54-3	50	180	–	–	–	–	–

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Hexane isomers	Varies with compound	500	1800	1000	3600	–	–	–
2-Hexanone (Methyl n-butyl ketone)	591-78-6	5	20	–	–	–	–	–
Hexone (Methyl isobutyl ketone)	108-10-1	50	205	75	300	–	–	–
sec-Hexyl acetate	108-84-9	50	300	–	–	–	–	–
Hexylene glycol	107-41-5	–	–	–	–	25	125	–
Hydrazine	302-01-2	0.1	0.1	–	–	–	–	x
Hydrogenated terphenyls	61788-32-7	0.5	5	–	–	–	–	–
Hydrogen bromide	10035-10-6	–	–	–	–	3	10	–
Hydrogen chloride	7647-01-0	–	–	–	–	5	7	–
Hydrogen cyanide	74-90-8	–	–	4.7	5	–	–	x
Hydrogen fluoride (as F)	7664-39-3	3	–	6	–	–	–	–
Hydrogen peroxide	7722-84-1	1	1.4	–	–	–	–	–
Hydrogen selenide (as Se)	7783-07-5	0.05	0.2	–	–	–	–	–
Hydrogen sulfide	7783-06-4	10	14	15	21	–	–	–
Hydroquinone	123-31-9	–	2	–	–	–	–	–
2-Hydroxypropyl acrylate	999-61-1	0.5	3	–	–	–	–	x
Indene	95-13-6	10	45	–	–	–	–	–
Indium and compounds (as In)	7440-74-6	–	0.1	–	–	–	–	–
Iodine	7553-56-2	–	–	–	–	0.1	1	–

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Iodoform	75-47-8	0.6	10	–	–	–	–	–
Iron oxide fume	1309-37-1	–	10	–	–	–	–	–
Iron pentacarbonyl (as Fe)	13463-40-6	0.1	0.8	0.2	1.6	–	–	–
Iron salts (soluble) (as Fe)	Varies with compound	–	1	–	–	–	–	–
Isoamyl acetate	123-92-2	100	525	–	–	–	–	–
Isoamyl alcohol (primary and secondary)	123-51-3	100	360	125	450	–	–	–
Isobutyl acetate	110-19-0	150	700	–	–	–	–	–
Isobutyl alcohol	78-83-1	50	150	–	–	–	–	–
Isooctyl alcohol	26952-21-6	50	270	–	–	–	–	x
Isophorone	78-59-1	4	23	–	–	–	–	–
Isophorone diisocyanate (IPDI)	4098-71-9	0.005	–	0.02	–	–	–	x
2-Isopropoxyethanol	109-59-1	25	105	–	–	–	–	–
Isopropyl acetate	108-21-4	250	950	310	1185	–	–	–
Isopropyl alcohol	67-63-0	400	980	500	1225	–	–	–
Isopropylamine	75-31-0	5	12	10	24	–	–	–
N-Isopropylaniline	768-52-5	2	10	–	–	–	–	x
Isopropyl ether	108-20-3	500	2100	–	–	–	–	–
Isopropyl glycidyl ether (IGE)	4016-14-2	50	240	75	360	–	–	–

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Kaolin, Respirable dust	–	–	5	–	–	–	–	–
Total dust	–	–	10	–	–	–	–	–
Ketene	463-51-4	0.5	0.9	1.5	3	–	–	–
Lead inorganic (as Pb); see OH Part 310, R 325.51901 to R 325.51958 <sup>F</sup>	7439-92-1	–	0.05 (50 µg÷m <sup>3</sup> )	–	–	–	–	–
Limestone, (calcium carbonate) Respirable dust	1317-65-3	–	5	–	–	–	–	–
Total dust	–	–	15	–	–	–	–	–
Lindane	58-89-9	–	0.5	–	–	–	–	x
Lithium hydride	7580-67-8	–	0.025	–	–	–	–	–
L.P.G. (Liquified petroleum gas)	68476-85- 7	1000	1800	–	–	–	–	–
Magnesite, Respirable dust	546-93-0	–	5	–	–	–	–	–
Total dust	–	–	15	–	–	–	–	–
Magnesium oxide fume, Total particulate	1309-48-4	–	10	–	–	–	–	–
Malathion dust	121-75-5	–	10	–	–	–	–	x
Maleic anhydride	108-31-6	1	–	–	–	–	–	–
Manganese, Compounds (as Mn)	7439-96-5	–	–	–	–	–	5	–
Fume (as Mn)	–	–	1	–	3	–	–	–
Manganese cyclopentadienyl tricarbonyl (as Mn)	12079-65- 1	–	0.1	–	–	–	–	x
Manganese tetroxide (as Mn)	1317-35-7	–	1	–	–	–	–	–

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Marble (calcium carbonate), Respirable dust	1317-65-3	–	5	–	–	–	–	–
Total dust		–	15	–	–	–	–	–
Mercury	7439-97-6	–	–	–	–	–	0.1	x
Inorganic and aryl compounds (As Hg)		–	0.01	–	0.03	–	–	x
Organic compounds (as Hg) Vapor (as Hg)		–	0.05	–	–	–	–	x
Mesityl oxide	141-79-7	15	60	25	100	–	–	–
Methacrylic acid	79-41-4	20	70	–	–	–	–	x
Methanethiol; see Methyl mercaptan								
Methomyl (Lannate)	16752-77-5	–	2.5	–	–	–	–	–
Methoxychlor dust	72-43-5	–	10	–	–	–	–	–
2-Methoxyethanol; see Methyl cellosolve								
4-Methoxyphenol	150-76-5	–	5	–	–	–	–	–
Methyl acetate	79-20-9	200	610	250	760	–	–	–
Methyl acetylene (Propyne)	74-99-7	1000	1650	–	–	–	–	–
Methyl acetylene-propadiene mixture (MAPP)	–	1000	1800	1250	2250	–	–	–
Methyl acrylate	96-33-3	10	35	–	–	–	–	x
Methylacrylonitrile	126-98-7	1	3	–	–	–	–	x
Methylal (Dimethoxymethane)	109-87-5	1000	3100	–	–	–	–	–
Methyl alcohol	67-56-1	200	260	250	325	–	–	x
Methylamine	74-89-5	10	12	–	–	–	–	–

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

Substance	CAS No. <sup>A</sup>	TWA		STEL <sup>D</sup>		Ceiling		Skin Designation
		ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	
Methyl amyl alcohol; see Methyl isobutyl carbinol								
Methyl n-amyl ketone	110-43-0	100	465	–	–	–	–	–
Methyl bromide	74-83-9	5	20	–	–	–	–	x
Methyl n-butyl ketone; see 2-Hexanone								
Methyl cellosolve (2-Methoxyethanol)	109-86-4	25	80	–	–	–	–	x
Methyl cellosolve acetate (2-Methoxyethyl acetate)	110-49-6	25	120	–	–	–	–	x
Methyl chloride	74-87-3	50	105	100	210	–	–	–
Methyl chloroform (1,1,1- Trichloroethane)	71-55-6	350	1900	450	2450	–	–	–
Methyl 2-cyanoacrylate	137-05-3	2	8	4	16	–	–	–
Methylcyclohexane	108-87-2	400	1600	–	–	–	–	–
Methylcyclohexanol	25639-42- 3	50	235	–	–	–	–	–
o-Methylcyclohexanone	583-60-8	50	230	75	345	–	–	x
Methylcyclopentadienyl manganese tricarbonyl (as Mn)	12108-13- 3	–	0.2	–	–	–	–	x
Methyl demeton	8022-00-2	–	0.5	–	–	–	–	x
4,4'-Methylene bis(2-chloroaniline) (MBOCA)	101-14-4	0.02	0.22	–	–	–	–	x
Methylene bis(4-cyclohexylisocyanate) (MCBI)	5124-30-1	–	–	–	–	0.01	0.11	–
Methylene bisphenyl isocyanate (MDI)	101-68-8	–	–	–	–	0.02	0.2	–

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Methylene chloride, see OH Part 313, R 325.51651 to R 325.51652 <sup>F</sup>	75-09-2	25	87	125	434			
Methylenedianiline (MDA); see OH Part 303, R 325.50051 to R 325.50076 <sup>F</sup>	101-77-9	10 ppb**	0.08 mg÷m <sup>3</sup>	100 ppb**	0.8 mg÷m <sup>3</sup>	–	–	–
Methyl ethyl ketone (MEK); see 2-Butanone								
Methyl ethyl ketone peroxide (MEKP)	1338-23-4	–	–	–	–	0.7	5	–
Methyl formate	107-31-3	100	250	150	375	–	–	–
Methyl hydrazine	60-34-4	–	–	–	–	0.2	0.35	x
Methyl iodide	74-88-4	2	10	–	–	–	–	x
Methyl isoamyl ketone	110-12-3	50	240	–	–	–	–	–
Methyl isobutyl carbinol	108-11-2	25	100	40	165	–	–	x
Methyl isobutyl ketone; see Hexone								
Methyl isocyanate (MIC)	624-83-9	0.02	0.05	–	–	–	–	x
Methyl isopropyl ketone	563-80-4	200	705	–	–	–	–	–
Methyl mercaptan	74-93-1	0.5	1	–	–	–	–	–
Methyl methacrylate	80-62-6	100	410	–	–	–	–	
Methyl parathion	298-00-0	–	0.2	–	–	–	–	x
Methyl propyl ketone; see 2-Pentanone								
Methyl silicate	681-84-5	1	6	–	–	5	30	–
alpha-Methyl styrene	98-83-9	50	240	100	485	–	–	–

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Metribuzin	21087-64-9	–	5	–	–	–	–	–
Mica; see Silicates								
Molybdenum, (as Mo)								
Insoluble compounds	7439-98-7	–	10	–	–	–	–	–
Soluble compounds		–	5	–	–	–	–	–
Monocrotophos (Azodrin <sup>R</sup> )	6923-22-4	–	0.25	–	–	–	–	–
Monomethyl aniline	100-61-8	0.5	2	–	–	–	–	x
Morpholine	110-91-8	20	70	30	105	–	–	x
Naphtha (Coal tar)	8030-30-6	100	400	–	–	–	–	–
Naphthalene	91-20-3	10	50	15	75	–	–	–
alpha-Naphthylamine; see OH Part 350, R 325.35001 to R 325.35011 <sup>F</sup>	134-32-7							
beta-Naphthylamine; see OH Part 350, R 325.35001 to R 325.35011 <sup>F</sup>	91-59-8							
Nickel carbonyl (as Ni)	13463-39-3	0.001	0.007	–	–	–	–	–
Nickel, Metal and insoluble compounds (as Ni)	7440-02-0	–	1	–	–	–	–	–
Soluble compounds (as Ni)		–	0.1	–	–	–	–	–
Nicotine	54-11-5	–	0.5	–	–	–	–	x
Nitric acid	7697-37-2	2	5	4	10	–	–	–
Nitric oxide	10102-43-9	25	30	–	–	–	–	–

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
p-Nitroaniline	100-01-6	–	3	–	–	–	–	x
Nitrobenzene	98-95-3	1	5	–	–	–	–	x
p-Nitrochlorobenzene	100-00-5	–	1	–	–	–	–	x
4-Nitrodiphenyl; see OH Part 350, R 325.35001 to R 325.35011 <sup>F</sup>	92-93-3							
Nitroethane	79-24-3	100	310	–	–	–	–	–
Nitrogen dioxide	10102-44-0	–	–	1	1.8	–	–	–
Nitrogen trifluoride	7783-54-2	10	29	–	–	–	–	–
Nitroglycerin	55-63-0	–	–	–	0.1	–	–	x
Nitromethane	75-52-5	100	250	–	–	–	–	–
1-Nitropropane	108-03-2	25	90	–	–	–	–	–
2-Nitropropane	79-46-9	10	35	–	–	–	–	–
N-Nitrosodimethylamine; see OH Part 350, R 325.35001 to R 325.35011 <sup>F</sup>	62-75-9							
Nitrotoluene ( <b>o</b> -, <b>m</b> -, <b>p</b> -isomers)	<b>99-08-1</b>	<b>2</b>	<b>11</b>					
<del>o isomer</del>	<del>88-72-2</del>							
<del>m isomer</del>	<del>99-08-1</del>	<del>2</del>	<del>11</del>					
<del>p isomer</del>	<del>99-99-0</del>			–	–	–	–	x
Nitrotrichloromethane; see Chloropicrin								
Nonane	111-84-2	200	1050	–	–	–	–	–
Octachloronaphthalene	2234-13-1	–	0.1	–	0.3	–	–	x
Octane	111-65-9	300	1450	375	1800	–	–	–

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Oil mist, mineral	8012-95-1	–	5	–	–	–	–	–
Osmium tetroxide (as Os)	20816-12-0	–	0.002	–	0.006	–	–	–
Oxalic acid	144-62-7	–	1	–	2	–	–	–
Oxygen difluoride	7783-41-7	–	–	–	–	0.05	0.1	–
Ozone	10028-15-6	0.1	0.2	0.3	0.6	–	–	–
Paraffin wax fume	8002-74-2	–	2	–	–	–	–	–
Paraquat, respirable dust	1910-42-5 2074-50-2 4685-14-7	–	0.1	–	–	–	–	x
Parathion	56-38-2	–	0.1	–	–	–	–	x
Particulates not otherwise regulated, Respirable dust	–	–	5	–	–	–	–	–
Total dust	–	–	15	–	–	–	–	–
Pentaborane	19624-22-7	0.005	0.01	0.015	0.03	–	–	–
Pentachloronaphthalene	1321-64-8	–	0.5	–	–	–	–	x
Pentachlorophenol	87-86-5	–	0.5	–	–	–	–	x
Pentaerythritol, Respirable dust	115-77-5	–	5	–	–	–	–	–
Total dust	–	–	10	–	–	–	–	–
Pentane	109-66-0	600	1800	750	2250	–	–	–
2-Pentanone (Methyl propyl ketone)	107-87-9	200	700	250	875	–	–	–
Perchloroethylene (Tetrachloroethylene)	127-18-4	25	170	–	–	–	–	–

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Perchloromethyl mercaptan	594-42-3	0.1	0.8	–	–	–	–	–
Perchloryl fluoride	7616-94-6	3	14	6	28	–	–	–
Perlite	93763-70-3	–	5	–	–	–	–	–
Respirable dust		–	15	–	–	–	–	–
Total dust		–	–	–	–	–	–	–
Petroleum distillates (Naphtha) (Rubber solvent)		400	1600	–	–	–	–	–
Phenol	108-95-2	5	19	–	–	–	–	x
Phenothiazine	92-84-2	–	5	–	–	–	–	x
p-Phenylenediamine	106-50-3	–	0.1	–	–	–	–	x
Phenyl ether, vapor	101-84-8	1	7	–	–	–	–	–
Phenyl ether-biphenyl mixture, vapor	–	1	7	–	–	–	–	–
Phenylethylene; see Styrene								
Phenyl glycidyl ether (PGE)	122-60-1	1	6	–	–	–	–	–
Phenylhydrazine	100-63-0	5	20	10	45	–	–	x
Phenyl mercaptan	108-98-5	0.5	2	–	–	–	–	–
Phenylphosphine	638-21-1	–	–	–	–	0.05	0.25	–
Phorate	298-02-2	–	0.05	–	0.2	–	–	x
Phosdrin (Mevinphos <sup>R</sup> )	7786-34-7	–	0.1	–	0.3	–	–	x
Phosgene (Carbonyl chloride)	75-44-5	0.1	0.4	–	–	–	–	–
Phosphine	7803-51-2	0.3	0.4	1	1	–	–	–
Phosphoric acid	7664-38-2	–	1	–	3	–	–	–

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Phosphorus (yellow)	7723-14-0	–	0.1	–	–	–	–	–
Phosphorus oxychloride	10025-87-3	0.1	0.6	–	–	–	–	–
Phosphorus pentachloride	10026-13-8	–	1	–	–	–	–	–
Phosphorus pentasulfide	1314-80-3	–	1	–	3	–	–	–
Phosphorus trichloride	7719-12-2	0.2	1.5	0.5	3	–	–	–
Phthalic anhydride	85-44-9	1	6	–	–	–	–	–
m-Phthalodinitrile	626-17-5	–	5	–	–	–	–	–
Picloram, Respirable dust Total dust	1918-02-1	– –	5 10	– –	– –	– –	– –	– –
Picric acid	88-89-1	–	0.1	–	–	–	–	x
Piperazine dihydrochloride	142-64-3	–	5	–	–	–	–	–
Pindone (2-Pivalyl-1,3-indandione)	83-26-1	–	0.1	–	–	–	–	–
Plaster of Paris (Calcium sulfate), Respirable dust Total dust	26499-65-0	– –	5 15	– –	– –	– –	– –	– –
Platinum (as Pt) Metal Soluble salts	7440-06-4	– –	1 0.002	– –	– –	– –	– –	– –
Portland cement, Respirable dust Total dust	65997-15-1	– –	5 10	– –	– –	– –	– –	– –
Potassium hydroxide	1310-58-3	–	–	–	–	–	2	–
Propane	74-98-6	1000	1800	–	–	–	–	–

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Propargyl alcohol	107-19-7	1	2	–	–	–	–	x
beta-Propriolactone; see OH Part 350, R 325.35001 to R 325.35011 <sup>F</sup>	57-57-8							
Propionic acid	79-09-4	10	30	–	–	–	–	–
Propoxur (Baygon)	114-26-1	–	0.5	–	–	–	–	–
n-Propyl acetate	109-60-4	200	840	250	1050	–	–	–
n-Propyl alcohol	71-23-8	200	500	250	625	–	–	–
n-Propyl nitrate	627-13-4	25	105	40	170	–	–	–
Propylene dichloride	78-87-5	75	350	110	510	–	–	–
Propylene glycol dinitrate	6423-43-4	0.05	0.3	–	–	–	–	–
Propylene glycol monomethyl ether	107-98-2	100	360	150	540	–	–	–
Propylene imine	75-55-8	2	5	–	–	–	–	x
Propylene oxide	75-56-9	20	50	–	–	–	–	–
Propyne; see Methyl acetylene								
Pyrethrum	8003-34-7	–	5	–	–	–	–	–
Pyridine	110-86-1	5	15	–	–	–	–	–
Quinone	106-51-4	0.1	0.4	–	–	–	–	–
Resorcinol	108-46-3	10	45	20	90	–	–	–
Rhodium, Insoluble compounds (as Rh)	7440-16-6	–	0.1	–	–	–	–	–
Metal fume (as Rh)		–	0.1	–	–	–	–	–
Soluble compounds (as Rh)		–	0.001	–	–	–	–	–

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Ronnel	299-84-3	–	10	–	–	–	–	–
Rosin core solder pyrolysis products, as formaldehyde	–	–	0.1	–	–	–	–	–
Rotenone	83-79-4	–	5	–	–	–	–	–
Rouge, Respirable dust	–	–	5	–	–	–	–	–
Total dust	–	–	10	–	–	–	–	–
Selenium compounds (as Se)	7782-49-2	–	0.2	–	–	–	–	–
Selenium hexafluoride (as Se)	7783-79-1	0.05	0.4	–	–	–	–	–
<b>Silica, crystalline, respirable dust</b>	<b>See OH 590 Silica in General Industry</b>							
Silica, amorphous, precipitated and gel	112926-00-8	–	6	–	–	–	–	–
Silica, amorphous, diatomaceous earth, containing less than 1% crystalline silica	61790-53-2	–	6	–	–	–	–	–
Silica, crystalline cristobalite, Respirable dust	14464-46-1	–	0.05	–	–	–	–	–
Silica, crystalline quartz, Respirable dust	14808-60-7	–	<b>0.05 0.1</b>	–	–	–	–	–
Silica, crystalline tridymite, Respirable dust	15468-32-3	–	0.05	–	–	–	–	–
Silica, crystalline tripoli, Respirable dust	1317-95-9	–	<b>0.05 0.1</b>	–	–	–	–	–
Silica, fused, Respirable dust	60676-86-0	–	0.1	–	–	–	–	–

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS								
Substance	CAS No. <sup>A</sup>	TWA		STEL <sup>D</sup>		Ceiling		Skin Designation
		ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	
Silicates (less than 1% crystalline silica)								
Mica, respirable dust	12001-26-2	–	3	–	–	–	–	–
Soapstone, respirable dust	–	–	3	–	–	–	–	–
Soapstone, total dust	–	–	6	–	–	–	–	–
Talc (containing asbestos); use asbestos limit	–	OH Part 305 “Asbestos for General Industry,” R 325.51311 to <del>R 325.</del> <b>R 325.51312</b>						
Talc (containing no asbestos), respirable dust	14807-96-6	–	2	–	–	–	–	–
Tremolite	–	OH Part 305 “Asbestos for General Industry,” R 325.51311 to R 325.51312						
Silicon, Respirable dust Total dust	7440-21-3	– –	5 10	– –	– –	– –	– –	– –
Silicon carbide, Respirable dust Total dust	409-21-2	– –	5 10	– –	– –	– –	– –	– –
Silicon tetrahydride	7803-62-5	5	7	–	–	–	–	–
Silver, metal and soluble compounds (as Ag)	7440-22-4	–	0.01	–	–	–	–	–
Soapstone; see Silicates								
Sodium azide (as HN <sub>3</sub> ) (as NaN <sub>3</sub> )	26628-22-8	– –	– –	– –	– –	0.1 –	– 0.3	x x
Sodium bisulfite	7631-90-5	–	5	–	–	–	–	–
Sodium fluoroacetate	62-74-8	–	0.05	–	0.15	–	–	x

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Sodium hydroxide	1310-73-2	–	–	–	–	–	2	–
Sodium metabisulfite	7681-57-4	–	5	–	–	–	–	–
Starch, Respirable dust	9005-25-8	–	5	–	–	–	–	–
Total dust		–	15	–	–	–	–	–
Stibine	7803-52-3	0.1	0.5	–	–	–	–	–
Stoddard solvent	8052-41-3	100	525	–	–	–	–	–
Strychnine	57-24-9	–	0.15	–	–	–	–	–
Styrene	100-42-5	50	215	100	425	–	–	–
Subtilisins (Proteolytic enzymes)	9014-01-1	–	–	–	0.00006 (60 min.)	–	–	–
Sucrose, Respirable dust	57-50-1	–	5	–	–	–	–	–
Total dust		–	15	–	–	–	–	–
Sulfur dioxide	7446-09-5	2	5	5	10	–	–	–
Sulfur hexafluoride	2551-62-4	1000	6000	–	–	–	–	–
Sulfuric acid	7664-93-9	–	1	–	–	–	–	–
Sulfur monochloride	10025-67-9	–	–	–	–	1	6	–
Sulfur pentafluoride	5714-22-7	–	–	–	–	0.01	0.1	–
Sulfur tetrafluoride	7783-60-0	–	–	–	–	0.1	0.4	–
Sulfuryl fluoride	2699-79-8	5	20	10	40	–	–	–
Sulprofos	35400-43-2	–	1	–	–	–	–	–

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

Substance	CAS No. <sup>A</sup>	TWA		STEL <sup>D</sup>		Ceiling		Skin Designation
		ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	
Systox <sup>R</sup> ; see Demeton								
2,4,5-T (2,4,5-trichlorophenoxyacetic acid)	93-76-5	–	10	–	–	–	–	–
Talc; see Silicates								
Tantalum, metal and oxide dust	7440-25-7	–	5	–	–	–	–	–
TEDP (Sulfotep)	3689-24-5	–	0.2	–	–	–	–	x
Tellurium and compounds (as Te)	13494-80-9	–	0.1	–	–	–	–	–
Tellurium hexafluoride (as Te)	7783-80-4	0.02	0.2	–	–	–	–	–
Temephos, Respirable dust Total dust	3383-96-8	– –	5 10	– –	– –	– –	– –	– –
TEPP	107-49-3	–	0.05	–	–	–	–	x
Terphenyls	26140-60-3	–	–	–	–	0.5	5	–
1,1,1,2-Tetrachloro-2, 2-difluoroethane	76-11-9	500	4170	–	–	–	–	–
1,1,2,2-Tetrachloro-1, 2-difluoroethane	76-12-0	500	4170	–	–	–	–	–
1,1,2,2-Tetrachloroethane	79-34-5	1	7	–	–	–	–	x
Tetrachloroethylene; see Perchloroethylene								
Tetrachloromethane; see Carbon tetrachloride								
Tetrachloronaphthalene	1335-88-2	–	2	–	–	–	–	x
Tetraethyl lead (as Pb)	78-00-2	–	0.075	–	–	–	–	x
Tetrahydrofuran	109-99-9	200	590	250	735	–	–	–

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Tetramethyl lead (as Pb)	75-74-1	–	0.075	–	–	–	–	x
Tetramethyl succinonitrile	3333-52-6	0.5	3	–	–	–	–	x
Tetranitromethane	509-14-8	1	8	–	–	–	–	–
Tetrasodium pyrophosphate	7722-88-5	–	5	–	–	–	–	–
Tetryl (2,4,6-Trinitrophenylmethylnitramine)	479-45-8	–	1.5	–	–	–	–	x
Thallium, soluble compounds (as Tl)	7440-28-0	–	0.1	–	–	–	–	x
4,4'-Thiobis(6-tert-butyl-m-cresol)								
Respirable dust	96-69-5	–	5	–	–	–	–	–
Total dust		–	10	–	–	–	–	–
Thioglycolic acid	68-11-1	1	4	–	–	–	–	x
Thionyl chloride	7719-09-7	–	–	–	–	1	5	–
Thiram	137-26-8	–	5	–	–	–	–	–
Tin, Inorganic compounds (except oxides)	7440-31-5	–	2	–	–	–	–	–
(as Sn)	7440-31-5	–	0.1	–	–	–	–	x
Organic compounds (as Sn)	21651-19-4	–	2	–	–	–	–	–
Oxides (as Sn)								
Titanium dioxide	13463-67-7	–	10	–	–	–	–	–
Total dust								
Toluene	108-88-3	100	375	150	560	–	–	–
Toluene-2,4-diisocyanate (TDI)	584-84-9	0.005	0.04	0.02	0.15	–	–	–
m-Toluidine	108-44-1	2	9	–	–	–	–	x
o-Toluidine	95-53-4	5	22	–	–	–	–	x

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
p-Toluidine	106-49-0	2	9	–	–	–	–	x
Toxaphene; see Chlorinated camphene								
Tremolite; see Silicates								
Tributyl phosphate	126-73-8	0.2	2.5	–	–	–	–	–
Trichloroacetic acid	76-03-9	1	7	–	–	–	–	–
1,2,4-Trichlorobenzene	120-82-1	–	–	–	–	5	40	–
1,1,1-Trichloroethane; see Methyl chloroform								
1,1,2-Trichloroethane	79-00-5	10	45	–	–	–	–	x
Trichloroethylene	79-01-6	50	270	200	1080	–	–	–
Trichloromethane; see Chloroform								
Trichloronaphthalene	1321-65-9	–	5	–	–	–	–	x
1,2,3-Trichloropropane	96-18-4	10	60	–	–	–	–	–
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	1000	7600	1250	9500	–	–	–
Triethylamine	121-44-8	10	40	15	60	–	–	–
Trifluorobromomethane	75-63-8	1000	6100	–	–	–	–	–
Trimellitic anhydride	552-30-7	0.005	0.04	–	–	–	–	–
Trimethylamine	75-50-3	10	24	15	36	–	–	–
Trimethyl benzene	25551-13-7	25	125	–	–	–	–	–
Trimethyl phosphite	121-45-9	2	10	–	–	–	–	–
2,4,6-Trinitrophenol; see Picric acid								

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
2,4,6-Trinitrophenylmethylnitramine; see Tetryl								
2,4,6-Trinitrotoluene (TNT)	118-96-7	–	0.5	–	–	–	–	x
Triorthocresyl phosphate	78-30-8	–	0.1	–	–	–	–	x
Triphenyl amine	603-34-9	–	5	–	–	–	–	–
Triphenyl phosphate	115-86-6	–	3	–	–	–	–	–
Tungsten Insoluble compounds (as W) Soluble compounds (as W)	7440-33-7	– –	5 1	– –	10 3	– –	– –	– –
Turpentine	8006-64-2	100	560	–	–	–	–	–
Uranium (as U) Insoluble compounds Soluble compounds	7440-61-1	– –	0.2 0.05	– –	0.6 –	– –	– –	– –
n-Valeraldehyde	110-62-3	50	175	–	–	–	–	–
Vanadium pentoxide Fume (as V <sub>2</sub> O <sub>5</sub> ) Respirable dust (as V <sub>2</sub> O <sub>5</sub> )	1314-62-1	– –	0.05 0.05	– –	– –	– –	– –	– –
Vegetable oil mists Respirable mist Total mist	–	– –	5 15	– –	– –	– –	– –	– –
Vinyl acetate	108-05-4	10	30	20	60	–	–	–
Vinyl benzene; see Styrene								
Vinyl bromide	593-60-2	5	20	–	–	–	–	–
Vinyl chloride; see OH Part 302, R 325.51401 to R 325.51414 <sup>F</sup>	75-01-4	1	2.5	5	12.8			
Vinyl cyanide; see Acrylonitrile								

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Vinyl cyclohexene dioxide	106-87-6	10	60	–	–	–	–	x
Vinylidene chloride (1,1-Dichloroethylene)	75-35-4	1	4	–	–	–	–	–
Vinyl toluene	25013-15-4	100	480	–	–	–	–	–
VM & P Naphtha	8032-32-4	300	1350	400	1800	–	–	–
Warfarin	81-81-2	–	0.1	–	–	–	–	–
Welding fumes (Total particulate)*	–	–	5	–	–	–	–	–
Wood dust, all soft and hard woods (except Western red cedar)	–	–	5	–	10	–	–	–
Wood dust, Western red cedar	–	–	2.5	–	–	–	–	–
Xylene (o-,m-,p-isomers) (Dimethyl benzene)	1330-20-7	100	435	150	655	–	–	–
m-Xylene-alpha, alpha'-diamine	1477-55-0	–	–	–	–	–	0.1	X
Xylidine	1300-73-8	2	10	–	–	–	–	X
Yttrium	7440-65-5	–	1	–	–	–	–	–
Zinc chloride fume	7646-85-7	–	1	–	2	–	–	–
Zinc chromates (as Cr+6); see OH Part 315, R 325.50141 to R 325.50143 <sup>F, G</sup>	Varies with compound	–	0.005 (5 µg÷m <sup>3</sup> )	–	–	–	–	–
Zinc oxide fume	1314-13-2	–	5	–	10	–	–	–
Zinc oxide, Respirable dust	1314-13-2	–	5	–	–	–	–	–
Total dust		–	10	–	–	–	–	–

TABLE G-1-A. EXPOSURE LIMITS FOR AIR CONTAMINANTS

		TWA		STEL <sup>D</sup>		Ceiling		
Substance	CAS No. <sup>A</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	ppm <sup>B</sup>	mg÷m <sup>3C</sup>	Skin Designation
Zinc stearate	557-05-1	–	5	–	–	–	–	–
Respirable dust		–	10	–	–	–	–	–
Total dust		–		–		–	–	–
Zirconium compounds (as Zr)	7440-67-7	–	5	–	10	–	–	–

TABLE G-2. EXPOSURE LIMITS FOR AIR CONTAMINATES

Substance		8-hour, time-weighted average	Acceptable ceiling concentration	Acceptable maximum peak above the acceptable ceiling concentration for an 8-hour workshift.	
				Concentration	Maximum duration
S	Benzene <sup>E,F</sup>	10 ppm	25 ppm	50 ppm	10 minutes
	Beryllium and beryllium compounds	2 µg÷m <sup>3</sup>	5 µg÷m <sup>3</sup>	25 µg÷m <sup>3</sup>	30 minutes
S	Ethylene dibromide	20 ppm	30 ppm	50 ppm	5 minutes

Note: S above signifies that skin contact shall not be allowed.

*	As determined from breathing-zone air samples.
**	Parts per billion.
A	The CAS number is for information only. Enforcement is based on the substance name. For an entry covering more than 1 metal compound measured as the metal, the CAS number for the metal is given - not the CAS number for the individual compounds.
B	Parts of vapor or gas per million parts of contaminated air by volume at 25°C and 760 torr.
C	Approximate milligrams of substance per cubic meter of air.

D	Duration is for 15 minutes, unless otherwise noted.
E	The final benzene standard in OH Part 311, R 325.77101 to R 325.77115 applies to all occupational exposures to benzene, except some subsegments of industry where exposures are consistently under the action level. These subsegments include the distribution and sale of fuels, sealed containers and pipelines, coke production, oil and gas drilling and production, natural gas processing, and the percentage exclusion for liquid mixtures. For the excepted subsegments, the benzene limits in table G-2 apply.
F	Caution--this rule contains extensive requirements for exposure to these substances.
G	If the exposure limit in §1910.1026 (adopted by reference in OH Part 315, R 325.50141 to R 325.50143) is stayed or is otherwise not in effect, the exposure limit is a ceiling of 0.1 mg÷m <sup>3</sup> .

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**PROPOSED ADMINISTRATIVE RULES**

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DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS

DIRECTOR'S OFFICE

OCCUPATIONAL HEALTH STANDARDS

Draft September 30, 2016

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 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 14 and 24 of 1974 PA 154, MCL 408.1014 and 408.1024; and Executive Reorganization Orders Nos. 1996-1, 1996-2, 2003-1, 2008-4, and 2011-4, MCL 330.3101, 445.2001, 445.2011, 445.2025, and 445.2030)

R 325.59001, R 325.59005, R 325.59010, R 325.59012, and R 325.59015 of the Michigan Administrative Code are added, as follows:

OH PART 590 SILICA IN GENERAL INDUSTRY

R 325.59001 Scope.

Rule 59001. (1) This standard applies to all occupational exposures to respirable crystalline silica, except as follows:

- (a) Construction work as covered by Occupational Health Standard Part 690 "Silica in Construction."
- (b) Agricultural operations covered under Occupational Health Standard Part 700 "Agriculture."
- (c) Exposures that result from the processing of sorptive clays.

(2) This standard does not apply where the employer has objective data demonstrating that employee exposure to respirable crystalline silica will remain below 25 micrograms per cubic meter of air (25  $\mu\text{g}/\text{m}^3$ ) as an 8-hour time-weighted average (TWA) under any foreseeable conditions.

(3) This standard does not apply if the employer complies with any of the following:

- (a) Occupational Health Standard Part 690 "Silica in Construction."
- (b) The task performed is indistinguishable from a construction task listed on Table 1 in 1926.1153(c) of Occupational Health Standard Part 690 "Silica in Construction."
- (c) The task will not be performed regularly in the same environment and conditions.

R 325.59005 Dates.

Rule 59005. (1) All obligations of this standard commence on June 23, 2018, except as provided for in 1910.1053(l)(3) and (4).

(2) Hydraulic fracturing operations in the oil and gas industry are as follows:

(a) All obligations of this standard, except obligations for medical surveillance in 1910.1053(i)(1)(i) and engineering controls in 1910.1053(f)(1) of this standard, commence June 23, 2018.

(b) Obligations for engineering controls in 1910.1053(f)(1) of this standard commence June 23, 2021.

(c) Obligations for medical surveillance in 1910.1053(i)(1)(i) commence in accordance with 1910.1053(l)(4) of this standard.

(3) The medical surveillance obligations in 1910.053(i)(1)(i) commence on June 23, 2018, for employees who will be occupationally exposed to respirable crystalline silica above the permissible exposure limit (PEL) for 30 or more days per year. Those obligations commence June 23, 2020 for employees who will be occupationally exposed to respirable crystalline silica at or above the action level for 30 or more days per year.

#### R 325.59010 Adoption of standards.

Rule 59010. (1) The following federal occupational safety and health administration (OSHA) regulations are adopted by reference in these rules:

(a) 29 C.F.R. §1910.1053 “Respirable Crystalline Silica,” paragraphs (c) to (k), effective June 23, 2016.

(b) Appendix A “Methods of Sample Analysis,” effective June 23, 2016.

(c) Appendix B “Medical Surveillance Guidelines,” effective June 23, 2016.

(2) As used in these rules, “29 CFR 1910.94” means Occupational Health Standard Part 520 Ventilation Control for General Industry.

(3) As used in these rules, “29 CFR 1910.134” means Occupational Health Standard Part 451 Respiratory Protection.

(4) As used in these rules, “29 CFR 1910.1020” means Occupational Health Standard Part 470 Employee Medical Records and Trade Secrets.

(5) As used in these rules, “29 CFR 1910.1200” means Occupational Health Standard Part 430 Hazard Communication.

(6) As used in these rules, “29 CFR 1926.1053” means Occupational Health Standard Part 690 Silica in Construction.

(7) As used in these rules, 1910.1053(a) means R 325.59001 Scope.

(8) As used in these rules, 1910.1053(b) means R 325.59015 Definitions.

(9) As used in these rules, 1910.1053(l) means R 325.59005 Dates.

(10) The federal regulation adopted in this rule has the same force and effect as a rule promulgated pursuant to the provisions of the Michigan occupational safety and health act (MIOSHA), 1974 PA 154, MCL 408.1001 to 408.1094.

#### R 325.59012 Adopted and referenced standards.

Rule 59012. (1) The OSHA standard and appendices that are adopted in these rules are available from the United States Department of Labor, Occupational Safety and Health Administration website: [www.osha.gov](http://www.osha.gov), at no charge, as of the time of adoption of these rules.

(2) The standard adopted in these rules is available for inspection at the Department of Licensing and Regulatory Affairs, MIOSHA Regulatory Services Section, 530 West Allegan Street, P.O. Box 30643, Lansing, Michigan, 48909-8143.

(3) The standard adopted in these rules may be obtained from the publisher or may be obtained from the Department of Licensing and Regulatory Affairs, MIOSHA Regulatory Services Section, 530 West Allegan Street, 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 administrative (MIOSHA) 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

Regulatory Services Section, 530 West Allegan Street, P.O. Box 30643, Lansing, Michigan, 48909-8143; or via the internet at website: [www.michigan.gov/mioshastandards](http://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) Occupational Health Standard Part 430 “Hazard Communication,” R 325.77001 to R 325.77003.

(b) Occupational Health Standard Part 451 “Respiratory Protection,” R 325.60051 and R 325.60052.

(c) Occupational Health Standard Part 470 “Employee Medical Records and Trade Secrets,” R 325.3451 to R 325.3476.

(d) Occupational Health Standard Part 520 “Ventilation Control for General Industry,” R 325.62001 to R 325.62006.

(e) Occupational Health Standard Part 690 “Silica in Construction.” R 325.69001 to R 325.69015.

R 325.59015 Definitions.

Rule 59015. (1) “Action level” means a concentration of airborne respirable crystalline silica of 25  $\mu\text{g}/\text{m}^3$ , calculated as an 8-hour TWA.

(2) “Assistant secretary” means the director of the department of licensing and regulatory affairs or his or her designated representative.

(3) “Director” means the director of the National Institute for Occupational Safety and Health (NIOSH), U.S. Department of Health and Human Services, or designee.

(4) “Competent person” means an individual who is capable of identifying existing and foreseeable respirable crystalline silica hazards in the workplace and who has authorization to take prompt corrective measures to eliminate or minimize them. The competent person must have the knowledge and ability necessary to fulfill the responsibilities set forth in paragraph (g) of 1926.1153.

(5) “Employee exposure” means the exposure to airborne respirable crystalline silica that would occur if the employee were not using a respirator.

(6) “High-efficiency particulate air (HEPA) filter” means a filter that is at least 99.97 percent efficient in removing mono-dispersed particles of 0.3 micrometers in diameter.

(7) “Objective data” means information, such as air monitoring data from industry-wide surveys or calculations based on the composition of a substance, demonstrating employee exposure to respirable crystalline silica associated with a particular product or material or a specific process, task, or activity. The data must reflect workplace conditions closely resembling or with a higher exposure potential than the processes, types of material, control methods, work practices, and environmental conditions in the employer's current operations.

(8) “Physician or other licensed health care professional (PLHCP)” means an individual whose legally permitted scope of practice, such as license, registration, or certification, allows him or her to independently provide or be delegated the responsibility to provide some or all of the particular health care services required by 1926.1153(h).

(9) “Respirable crystalline silica” means quartz, cristobalite, and/or tridymite contained in airborne particles that are determined to be respirable by a sampling device designed to meet the characteristics for respirable-particle-size-selective samplers specified in the International Organization for Standardization (ISO) 7708:1995: Air Quality—Particle Size Fraction Definitions for Health-Related Sampling.

(10) “Specialist” means an American Board Certified Specialist in Pulmonary Disease or an American Board Certified Specialist in Occupational Medicine.

(11) “This section” means this respirable crystalline silica standard, 29 CFR 1910.1053 (or Occupational Safety Health Standard Part 590 Silica in General Industry).

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**(2016 SESSION)**

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*MCL 24.208 states in part:*

*“Sec. 8. (1) The Office of Regulatory Reform shall publish the Michigan register at least once each month. The Michigan register shall contain all of the following:*

\* \* \*

*(i) Other official information considered necessary or appropriate by the Office of Regulatory Reform.”*

*The following table cites administrative rules promulgated during the year 2000, and indicates the effect of these rules on the Michigan Administrative Code (1979 ed.).*

**MICHIGAN ADMINISTRATIVE CODE TABLE  
(2015 RULE FILINGS)**

R Number	Action	2016 MR Issue	R Number	Action	2016 MR Issue	R Number	Action	2016 MR Issue
29.1901	*	10	285.553.11	*	10	325.2584	R	3
29.1902	*	10	285.553.12	*	10	325.2586	R	3
29.1903	*	10	285.553.13	*	10	325.2587	R	3
29.1904	*	10	285.553.14	*	10	325.2588	R	3
29.1905	*	10	285.553.15	*	10	325.2589	R	3
29.1906	*	10	285.553.16	*	10	325.2590	R	3
29.1907	*	10	285.553.17	*	10	325.2591	R	3
29.1908	*	10	285.553.18	*	10	325.5002	*	10
29.1921	*	10	285.553.19	*	10	325.5003	*	10
29.1922	*	10	285.553.20	*	10	325.5004	*	10
29.1923	*	10	285.553.21	*	10	325.5005	*	10
29.1924	*	10	285.553.22	*	10	325.5006	*	10
29.1931	*	10	285.553.23	*	10	325.5007	*	10
29.1932	*	10	285.553.24	*	10	325.5008	*	10
29.1933	*	10	285.553.25	*	10	325.5009	*	10
29.1934	*	10	285.553.26	*	10	325.5010	*	10
29.1907a	A	10	285.619.22	*	11	325.5011	*	10
29.1909	R	10	299.5001	R	16	325.5012	*	10
54.251	A	10	299.5002	R	16	325.5013	*	10
54.252	A	10	299.5003	R	16	325.5014	*	10
54.253	A	10	299.5004	R	16	325.5016	*	10
125.651	R	4	299.5005	R	16	325.5017	*	10
125.652	R	4	299.5006	R	16	325.5018	*	10
125.653	R	4	299.5007	R	16	325.5019	*	10
125.654	R	4	299.5008	R	16	325.5020	*	10
206.28	A	8	299.5009	R	16	325.5031	*	10
257.1005	R	7	299.5010	R	16	325.5033	*	10
257.1006	R	7	299.5011	R	16	325.5041	*	10
281.700.3	*	4	299.5012	R	16	325.5043	*	10
285.553.1	*	10	299.5013	R	16	325.5044	*	10
285.553.2	*	10	299.5014	R	16	325.5046	*	10
285.553.3	*	10	299.5015	R	16	325.5047	*	10
285.553.4	*	10	299.5016	R	16	325.5051	*	10
285.553.5	*	10	325.1	*	2	325.5052	*	10
285.553.6	*	10	325.2	*	2	325.5053	*	10
285.553.7	*	10	325.3	*	2	325.5054	*	10
285.553.8	*	10	325.4	*	2	325.5055	*	10
285.553.9	*	10	325.2581	R	3	325.5056	*	10
285.553.10	*	10	325.2583	R	3	325.5057	*	10

(\* Amendment to Rule, **A** Added Rule, **N** New Rule, **R** Rescinded Rule)

2016 MR 19 – November 1, 2016

R Number	Action	2016 MR Issue	R Number	Action	2016 MR Issue	R Number	Action	2016 MR Issue
325.5058	*	10	325.5189	R	10	325.5323	R	10
325.5059	*	10	325.5191	R	10	325.5325	R	10
325.5060	*	10	325.5192	R	10	325.5331	R	10
325.5061	*	10	325.5193	R	10	325.5333	R	10
325.5065	*	10	325.5194	R	10	325.5337	R	10
325.5066	*	10	325.5195	R	10	325.5347	R	10
325.5067	*	10	325.5196	R	10	325.5348	R	10
325.5071	*	10	325.5232	R	10	325.5351	R	10
325.5072	*	10	325.5256	R	10	325.5352	R	10
325.5073	*	10	325.5273	R	10	325.5353	R	10
325.5074	*	10	325.5274	R	10	325.5355	R	10
325.5081	*	10	325.5281	R	10	325.5357	R	10
325.5087	*	10	325.5282	R	10	325.5358	R	10
325.5102	*	10	325.5285	R	10	325.5359	R	10
325.5110	*	10	325.5286	R	10	325.5361	R	10
325.5111	R	10	325.5287	R	10	325.5362	R	10
325.5111a	R	10	325.5288	R	10	325.5365	R	10
325.5111b	R	10	325.5289	R	10	325.5366	R	10
325.5111c	R	10	325.5290	R	10	325.5368	R	10
325.5112	R	10	325.5291	R	10	325.5371	R	10
325.5113	R	10	325.5293	R	10	325.5372	R	10
325.5114	R	10	325.5294	R	10	325.5373	R	10
325.5115	R	10	325.5296	R	10	325.5375	R	10
325.5116	R	10	325.5297	R	10	325.5376	R	10
325.5117	R	10	325.5298	R	10	325.5378	R	10
325.5117	R	10	325.5299	R	10	325.5379	R	10
325.5121	R	10	325.5301	R	10	325.5380	R	10
325.5122	R	10	325.5302	R	10	325.5381	R	10
325.5132	R	10	325.5303	R	10	325.5383	R	10
325.5148	R	10	325.5305	R	10	325.5384	R	10
325.5149	R	10	325.5306	R	10	325.5385	R	10
325.5181	R	10	325.5307	R	10	325.5386	R	10
325.5182	R	10	325.5309	R	10	325.5388	R	10
325.5183	R	10	325.5311	R	10	325.5389	R	10
325.5184	R	10	325.5312	R	10	325.5390	R	10
325.5185	R	10	325.5315	R	10	325.5391	R	10
325.5186	R	10	325.5317	R	10	325.5395	R	10
325.5187	R	10	325.5321	R	10	325.5396	R	10
325.5188	R	10	325.5322	R	10	325.5397	R	10

(\* Amendment to Rule, **A** Added Rule, **N** New Rule, **R** Rescinded Rule)

2016 MR 19 – November 1, 2016

R Number	Action	2016 MR Issue	R Number	Action	2016 MR Issue	R Number	Action	2016 MR Issue
325.5401	R	10	325.5494	R	10	325.5678	R	10
325.5402	R	10	325.5495	R	10	325.5679	R	10
325.5403	R	10	325.5501	R	10	325.5681	R	10
325.5404	R	10	325.5505	R	10	325.5682	R	10
325.5405	R	10	325.5506	R	10	325.5683	R	10
325.5407	R	10	325.5507	R	10	325.5684	R	10
325.5409	R	10	325.5508	R	10	325.5685	R	10
325.5411	R	10	325.5601	R	10	325.5686	R	10
325.5417	R	10	325.5601a	R	10	325.5687	R	10
325.5418	R	10	325.5602	R	10	325.5688	R	10
325.5421	R	10	325.5603	R	10	325.5689	R	10
325.5422	R	10	325.5605	R	10	325.5690	R	10
325.5423	R	10	325.5606	R	10	325.5691	R	10
325.5425	R	10	325.5607	R	10	325.5692	R	10
325.5437	R	10	325.5608	R	10	325.5693	R	10
325.5438	R	10	325.5609	R	10	325.5694	R	10
325.5439	R	10	325.5610	R	10	325.5695	R	10
325.5440	R	10	325.5611	R	10	325.5696	R	10
325.5441	R	10	325.5612	R	10	325.5697	R	10
325.5442	R	10	325.5613	R	10	325.5698	R	10
325.5448	R	10	325.5626	R	10	325.5701	R	10
325.5449	R	10	325.5627	R	10	325.5703	R	10
325.5461	R	10	325.5628	R	10	325.5705	R	10
325.5462	R	10	325.5629	R	10	325.5707	R	10
325.5464	R	10	325.5630	R	10	325.5709	R	10
325.5465	R	10	325.5634	R	10	325.5711	R	10
325.5466	R	10	325.5635	R	10	325.5713	R	10
325.5468	R	10	325.5637	R	10	325.5715	R	10
325.5471	R	10	325.5655	R	10	325.5717	R	10
325.5474	R	10	325.5656	R	10	325.5719	R	10
325.5475	R	10	325.5657	R	10	325.5721	R	10
325.5482	R	10	325.5658	R	10	325.5102	*	10
325.5484	R	10	325.5667	R	10	325.5117a	*	10
325.5485	R	10	325.5668	R	10	325.5118	*	10
325.5486	R	10	325.5669	R	10	325.5119	*	10
325.5487	R	10	325.5674	R	10	325.5120	*	10
325.5491	R	10	325.5675	R	10	325.5123	*	10
325.5492	R	10	325.5676	R	10	325.5124	*	10
325.5493	R	10	325.5677	R	10	325.5125	*	10

(\* Amendment to Rule, **A** Added Rule, **N** New Rule, **R** Rescinded Rule)

2016 MR 19 – November 1, 2016

R Number	Action	2016 MR Issue	R Number	Action	2016 MR Issue	R Number	Action	2016 MR Issue
325.5131	*	10	325.5239	*	10	325.5072	R	10
325.5133	*	10	325.5240	*	10	325.5073	R	10
325.5141	*	10	325.5241	*	10	325.5074	R	10
325.5143	*	10	325.5245	*	10	325.5081	R	10
325.5144	*	10	325.5246	*	10	325.5087	R	10
325.5145	*	10	325.5247	*	10	325.5110	R	10
325.5146	*	10	325.5250	*	10	325.9050	*	10
325.5147	*	10	325.5253	*	10	325.9051	*	10
325.5201	*	10	325.5255	*	10	325.9052	*	10
325.5202	*	10	325.5261	*	10	325.9057	R	10
325.5203	*	10	325.5262	*	10	325.50141	*	16
325.5205	*	10	325.5263	*	10	325.50142	*	16
325.5206	*	10	325.5264	*	10	325.50143	*	16
325.5208	*	10	325.5265	*	10	325.51995	*	16
325.5210	*	10	325.5266	*	10	325.51996	*	16
325.5211	*	10	325.5267	*	10	325.51997	*	16
325.5212	*	10	325.5268	*	10	325.52001	*	6
325.5213	*	10	325.5269	*	10	325.52002	*	6
325.5214	*	10	325.5270	*	10	325.52003	*	6
325.5215	*	10	325.5271	*	10	325.52005	*	6
325.5216	*	10	325.5431	*	10	325.52008	*	6
325.5217	*	10	325.5432	*	10	325.52011	*	6
325.5218	*	10	325.5435	*	10	325.50251	*	5
325.5219	*	10	325.5446	*	10	325.50252	*	5
325.5220	*	10	325.5447	*	10	325.50253	*	5
325.5221	*	10	325.5450	*	10	325.50254	*	5
325.5222	*	10	325.5452	*	10	325.50255	*	5
325.5224	*	10	325.5454	*	10	325.50256	*	5
325.5225	*	10	325.5455	*	10	325.50257	*	5
325.5226	*	10	325.5481	*	10	325.50258	*	5
325.5227	*	10	325.5511	*	10	325.52601	*	5
325.5228	*	10	325.5021	R	10	325.52602	*	5
325.5229	*	10	325.5049	R	10	333.5001	A	10
325.5230	*	10	325.5060	R	10	333.5003	A	10
325.5231	*	10	325.5061	R	10	333.5004	A	10
325.5233	*	10	325.5065	R	10	333.5005	A	10
325.5236	*	10	325.5066	R	10	333.5006	A	10
325.5237	*	10	325.5067	R	10	333.5007	A	10
325.5238	*	10	325.5071	R	10	333.5008	A	10

(\* Amendment to Rule, **A** Added Rule, **N** New Rule, **R** Rescinded Rule)

2016 MR 19 – November 1, 2016

R Number	Action	2016 MR Issue	R Number	Action	2016 MR Issue	R Number	Action	2016 MR Issue
333.5009	A	10	333.5064	A	10	333.5305	A	10
333.5010	A	10	333.5065	A	10	333.5306	A	10
333.5011	A	10	333.5067	A	10	333.5307	A	10
333.5012	A	10	333.5068	A	10	333.5308	A	10
333.5013	A	10	333.5069	A	10	333.5309	A	10
333.5015	A	10	333.5071	A	10	333.5311	A	10
333.5017	A	10	333.5072	A	10	333.5312	A	10
333.5018	A	10	333.5073	A	10	333.5315	A	10
333.5019	A	10	333.5074	A	10	333.5317	A	10
333.5020	A	10	333.5075	A	10	333.5321	A	10
333.5021	A	10	333.5077	A	10	333.5322	A	10
333.5023	A	10	333.5079	A	10	333.5323	A	10
333.5024	A	10	333.5080	A	10	333.5325	A	10
333.5026	A	10	333.5081	A	10	333.5331	A	10
333.5031	A	10	333.5082	A	10	333.5333	A	10
333.5032	A	10	333.5083	A	10	333.5337	A	10
333.5033	A	10	333.5084	A	10	333.5347	A	10
333.5034	A	10	333.5086	A	10	333.5348	A	10
333.5036	A	10	333.5087	A	10	333.5351	A	10
333.5037	A	10	333.5088	A	10	333.5352	A	10
333.5038	A	10	333.5089	A	10	333.5353	A	10
333.5039	A	10	333.5091	A	10	333.5355	A	10
333.5040	A	10	333.5092	A	10	333.5361	A	10
333.5041	A	10	333.5093	A	10	333.5362	A	10
333.5042	A	10	333.5094	A	10	333.5365	A	10
333.5043	A	10	333.5096	A	10	333.5366	A	10
333.5045	A	10	333.5097	A	10	333.5368	A	10
333.5046	A	10	333.5098	A	10	333.5371	A	10
333.5047	A	10	333.5100	A	10	333.5372	A	10
333.5051	A	10	333.5101	A	10	333.5373	A	10
333.5052	A	10	333.5281	A	10	333.5375	A	10
333.5053	A	10	333.5282	A	10	333.5376	A	10
333.5055	A	10	333.5293	A	10	333.5378	A	10
333.5057	A	10	333.5294	A	10	333.5379	A	10
333.5058	A	10	333.5296	A	10	333.5380	A	10
333.5059	A	10	333.5297	A	10	333.5381	A	10
333.5060	A	10	333.5298	A	10	333.5383	A	10
333.5061	A	10	333.5299	A	10	333.5384	A	10
333.5063	A	10	333.5302	A	10	333.5385	A	10

(\* Amendment to Rule, **A** Added Rule, **N** New Rule, **R** Rescinded Rule)

2016 MR 19 – November 1, 2016

R Number	Action	2016 MR Issue	R Number	Action	2016 MR Issue	R Number	Action	2016 MR Issue
333.5386	A	10	333.5482	A	10	333.5658	A	10
333.5388	A	10	333.5484	A	10	333.5667	A	10
333.5389	A	10	333.5485	A	10	333.5668	A	10
333.5390	A	10	333.5486	A	10	333.5669	A	10
333.5391	A	10	333.5487	A	10	333.5674	A	10
333.5395	A	10	333.5491	A	10	333.5675	A	10
333.5396	A	10	333.5492	A	10	333.5676	A	10
333.5397	A	10	333.5493	A	10	333.5677	A	10
333.5401	A	10	333.5494	A	10	333.5678	A	10
333.5402	A	10	333.5495	A	10	333.5679	A	10
333.5403	A	10	333.5505	A	10	333.5681	A	10
333.5404	A	10	333.5506	A	10	333.5682	A	10
333.5405	A	10	333.5507	A	10	333.5683	A	10
333.5407	A	10	333.5508	A	10	333.5684	A	10
333.5409	A	10	333.5511	A	10	333.5685	A	10
333.5411	A	10	333.5601	A	10	333.5686	A	10
333.5417	A	10	333.5602	A	10	333.5687	A	10
333.5418	A	10	333.5603	A	10	333.5688	A	10
333.5421	A	10	333.5604	A	10	333.5689	A	10
333.5422	A	10	333.5605	A	10	333.5690	A	10
333.5423	A	10	333.5606	A	10	333.5691	A	10
333.5425	A	10	333.5607	A	10	333.5692	A	10
333.5431	A	10	333.5608	A	10	333.5693	A	10
333.5432	A	10	333.5609	A	10	333.5694	A	10
333.5435	A	10	333.5610	A	10	333.5695	A	10
333.5437	A	10	333.5611	A	10	333.5696	A	10
333.5438	A	10	333.5612	A	10	333.5697	A	10
333.5439	A	10	333.5613	A	10	333.5701	A	10
333.5440	A	10	333.5626	A	10	333.5703	A	10
333.5441	A	10	333.5627	A	10	333.5705	A	10
333.5442	A	10	333.5628	A	10	333.5707	A	10
333.5445	A	10	333.5629	A	10	333.5709	A	10
333.5446	A	10	333.5630	A	10	333.5711	A	10
333.5447	A	10	333.5634	A	10	333.5713	A	10
333.5448	A	10	333.5635	A	10	333.5715	A	10
333.5449	A	10	333.5637	A	10	333.5717	A	10
333.5450	A	10	333.5655	A	10	333.5719	A	10
333.5452	A	10	333.5656	A	10	333.5721	A	10
333.5481	A	10	333.5657	A	10	336.1430	A	11

(\* Amendment to Rule, **A** Added Rule, **N** New Rule, **R** Rescinded Rule)

2016 MR 19 – November 1, 2016

R Number	Action	2016 MR Issue	R Number	Action	2016 MR Issue	R Number	Action	2016 MR Issue
338.1a	A	8	338.4976	*	6	408.10524	*	16
338.601	*	6	338.4978	*	6	408.10525	*	16
338.607	*	6	338.4982	*	6	408.10526	*	16
338.611	*	6	338.6103	A	8	408.10528	*	16
338.613	*	6	338.12001a	A	6	408.10529	*	16
338.617	*	6	338.13002	A	8	408.10532	*	16
338.619	*	6	339.14002	A	6	408.10542	*	16
338.621	*	6	340.1355	R	16	408.10544	*	16
338.623	*	6	340.1351	*	16	408.10546	*	16
338.602	A	6	340.1352	*	16	408.10548	*	16
338.604	A	6	340.1353	*	16	408.10561	*	16
338.627	A	6	340.1354	*	16	408.10564	*	16
338.629	A	6	400.3402	*	10	408.10565	*	16
338.641	A	6	400.3404	*	10	408.10567	*	16
338.645	a	6	400.3405	*	10	408.10568	*	16
338.647	A	6	400.3406	*	10	408.10569	*	16
338.649	A	6	400.3408	R	10	408.10572	*	16
338.609	R	6	400.5001	R	3	408.10575	*	16
338.625	R	6	400.5002	R	3	408.10576	*	16
338.1303	A	8	400.5004	R	3	408.10577	*	16
338.1751a	A	6	400.5005	R	3	408.10578	*	16
338.2201a	A	6	400.5006	R	3	408.10579	*	16
338.3113	*	8	400.5008	R	3	408.10580	*	16
338.3120	*	8	400.5009	R	3	408.10582	*	16
338.3121	*	8	400.5011	R	3	408.10583	*	16
338.3123	*	8	400.5013	R	3	408.10584	*	16
338.3125	*	8	400.5014	R	3	408.10585	*	16
338.3651	A	6	400.5016	R	3	408.10589	*	16
338.3653	A	6	400.5017	R	3	408.10591	*	16
338.3655	A	6	400.5018	R	3	408.10592	*	16
338.3657	A	6	408.10501	*	16	408.10568a	A	16
338.3659	A	6	408.10502	*	16	408.10568b	A	16
338.3661	A	6	408.10509	*	16	408.10568c	A	16
338.3663	A	6	408.10511	*	16	408.10568d	A	16
338.3665	A	6	408.10512	*	16	408.10568e	A	16
338.3901a	A	6	408.10513	*	16	408.10568f	A	16
338.4971	*	6	408.10521	*	16	408.10568g	A	16
338.4972	*	6	408.10522	*	16	408.10575a	A	16
338.4973	*	6	408.10523	*	16	408.10575b	A	16

(\* Amendment to Rule, **A** Added Rule, **N** New Rule, **R** Rescinded Rule)

R Number	Action	2016 MR Issue	R Number	Action	2016 MR Issue	R Number	Action	2016 MR Issue
408.10575c	A	16	408.14019b	R	6	408.41003a	*	6
408.10575d	A	16	408.14019c	R	6	408.41006a	*	6
408.10575e	A	16	408.14020a	R	6	408.41001	A	6
408.10575f	A	16	408.14021a	R	6	408.41003	A	6
408.10575g	A	16	408.14021b	R	6	408.41003b	A	6
408.10575h	A	16	408.14022a	R	6	408.41003c	A	6
408.10702	A	5	408.14023a	R	6	408.41003d	A	6
408.10711	*	5	408.14024a	R	6	408.41003e	A	6
408.10712	*	5	408.14025a	R	6	408.41006	A	6
408.10713	*	5	408.14025b	R	6	408.41006b	A	6
408.10727	*	5	408.14026a	R	6	408.41006c	A	6
408.10753	*	5	408.14027a	R	6	408.41006d	A	6
408.12101	*	16	408.14028a	R	6	408.41006e	A	6
408.12103	*	16	408.14029a	R	6	408.41007	A	6
408.12106	*	16	408.14030a	R	6	408.41035	A	6
408.12107	*	16	408.14031a	R	6	408.41035a	A	6
408.12108	*	16	408.14032a	R	6	408.41035b	A	6
408.12109	*	16	408.14033a	R	6	408.41035c	A	6
408.12110	*	16	408.14034a	R	6	408.41035d	A	6
408.12111	*	16	408.14041a	R	6	408.41036	A	6
408.12132	*	16	408.17405	*	8	408.41036a	A	6
408.12136	*	16	408.17411	*	8	408.41036b	A	6
408.12137	*	16	408.17421	*	8	408.41036c	A	6
408.12139	*	16	408.17422	*	8	408.41036d	A	6
408.12143	*	16	408.17423	*	8	408.41037	A	6
408.12152	*	16	408.17424	*	8	408.41037a	A	6
408.12153	*	16	408.17426	*	8	408.41037b	A	6
408.12154	*	16	408.17432	*	8	408.41037c	A	6
408.12155	*	16	408.17433	*	8	408.41037d	A	6
408.12163	*	16	408.17434	*	8	408.41037e	A	6
408.12164	*	16	408.17435	*	8	408.41037f	A	6
408.12165	*	16	408.17436	*	8	408.41038	A	6
408.12171	*	16	408.17437	*	8	408.41038a	A	6
408.12176	*	16	408.17440	*	8	408.41038b	A	6
408.12102	R	16	408.17451	*	8	408.41038c	A	6
408.14016e	R	6	408.17461	*	8	408.41039	A	6
408.14017a	R	6	408.17463	*	8	408.41039a	A	6
408.14018a	R	6	408.18502	*	5	408.41039b	A	6
408.14019a	R	6	408.18599	*	5	408.41040	A	6

(\* Amendment to Rule, **A** Added Rule, **N** New Rule, **R** Rescinded Rule)

2016 MR 19 – November 1, 2016

R Number	Action	2016 MR Issue	R Number	Action	2016 MR Issue	R Number	Action	2016 MR Issue
408.41051a	R	6	408.41061f	A	6	408.41082e	A	6
408.41052	A	6	408.41061g	A	6	408.41082f	A	6
408.41052a	A	6	408.41062	A	6	408.41082g	A	6
408.41052b	A	6	408.41063	A	6	408.41083	A	6
408.41053	A	6	408.41064	A	6	408.41084	A	6
408.41053a	A	6	408.41065a	R	6	408.41084a	A	6
408.41053b	A	6	408.41066a	R	6	408.41084b	A	6
408.41053c	A	6	408.41067a	R	6	408.41084c	A	6
408.41053d	*	6	408.41068a	R	6	408.41084d	A	6
408.41053e	*	6	408.41069a	R	6	408.41084e	A	6
408.41053f	A	6	408.41070a	R	6	408.41084f	A	6
408.41053g	A	6	408.41070b	R	6	408.41085	A	6
408.41054	A	6	408.41071a	R	6	408.41085a	A	6
408.41055	A	6	408.41072a	R	6	408.41085b	A	6
408.41055a	A	6	408.41073a	R	6	408.41085c	A	6
408.41055b	A	6	408.41074a	R	6	408.41085d	A	6
408.41055c	A	6	408.41075a	R	6	408.41085e	A	6
408.41056	A	6	408.41080	A	6	408.41085f	A	6
408.41056a	A	6	408.41080a	A	6	408.41085g	A	6
408.41056b	A	6	408.41080b	A	6	408.41085h	A	6
408.41056c	A	6	408.41080c	A	6	408.41086	A	6
408.41056d	A	6	408.41080d	A	6	408.41086a	A	6
408.41056e	A	6	408.41080e	A	6	408.41086b	A	6
408.41056f	A	6	408.41080f	A	6	408.41086c	A	6
408.41056g	A	6	408.41080g	A	6	408.41086d	A	6
408.41056h	A	6	408.41080h	A	6	408.41086e	A	6
408.41056i	A	6	408.41080i	A	6	408.41086f	A	6
408.41057	A	6	408.41080j	*	6	408.41086g	A	6
408.41058	A	6	408.41080k	*	6	408.41087	A	6
408.41060	A	6	408.41080l	A	6	408.41088	A	6
408.41060a	A	6	408.41080m	A	6	408.41089	A	6
408.41060b	A	6	408.41080n	A	6	408.41090	A	6
408.41060c	A	6	408.41080o	A	6	408.41090a	A	6
408.41061	A	6	408.41081	A	6	408.41090b	A	6
408.41061a	A	6	408.41082	A	6	408.41090c	*	6
408.41061b	A	6	408.41082a	A	6	408.41090d	*	6
408.41061c	A	6	408.41082b	A	6	408.41090e	A	6
408.41061d	A	6	408.41082c	A	6	408.41001a	R	6
408.41061e	A	6	408.41082d	A	6	408.41004a	R	6

(\* Amendment to Rule, A Added Rule, N New Rule, R Rescinded Rule)

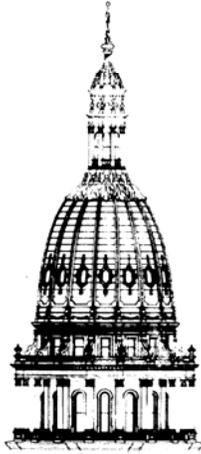
2016 MR 19 – November 1, 2016

R Number	Action	2016 MR Issue	R Number	Action	2016 MR Issue	R Number	Action	2016 MR Issue
408.41005a	R	6	408.41243	*	16	408.41902	*	19
408.41008a	R	6	408.41251	*	16	408.41927	*	19
408.41009a	R	6	408.41254	*	16	408.41932	*	19
408.41009b	R	6	408.41256	*	16	408.41936	*	19
408.41011a	R	6	408.41256a	*	16	408.41937	*	19
408.41011b	R	6	408.41256b	*	16	408.41942	*	19
408.41011c	R	6	408.41256	*	16	408.41943	*	19
408.41011d	R	6	408.41202	A	16	408.41945	*	19
408.41011e	R	6	408.41501	A	6	408.41949	*	19
408.41012a	R	6	408.41505	A	6	408.41951	*	19
408.41013a	R	6	408.41510	A	6	408.41952	*	19
408.41014a	R	6	408.41515	A	6	408.41954	*	19
408.41015a	R	6	408.41520	A	6	408.41959	*	19
408.41016a	R	6	408.41521	A	6	408.41960	*	19
408.41016b	R	6	408.41522	A	6	408.41969	*	19
408.41016c	R	6	408.41523	A	6	408.41980	*	19
408.41016d	R	6	408.41524	A	6	408.42101	*	11
408.41201	*	16	408.41525	A	6	408.42128	*	11
408.41203	*	16	408.41526	A	6	408.42150	*	11
408.41204	*	16	408.41527	A	6	408.42154	*	11
408.41205	*	16	408.41530	A	6	408.42156	*	11
408.41206	*	16	408.41531	A	6	408.42157	*	11
408.41207	*	16	408.41540	A	6	408.42110	A	11
408.41208	*	16	408.41541	A	6	408.42501	*	16
408.41209	*	16	408.41542	A	6	408.42502	*	16
408.41210	*	16	408.41543	A	6	408.42503	*	16
408.41211	*	16	408.41550	A	6	408.42517	*	16
408.41212	*	16	408.41560	A	6	408.42518	*	16
408.41213	*	16	408.41561	A	6	408.42520	*	16
408.41217	*	16	408.41562	A	6	408.42523	*	16
408.41219	*	16	408.41563	A	6	408.42533	*	16
408.41223	*	16	408.41564	A	6	408.49101	*	19
408.41224	*	16	408.41570	A	6	408.49102	*	19
408.41227	*	16	408.41580	A	6	408.49103	*	19
408.41229	*	16	408.41590	A	6	436.1311	R	4
408.41232	*	16	408.41595	A	6	484.71	*	8
408.41233	*	16	408.41605	*	4	484.72	*	8
408.41236	*	16	408.41610	*	4	484.73	*	8
408.41241	*	16	408.41901	*	19	484.74	*	8

(\* Amendment to Rule, **A** Added Rule, **N** New Rule, **R** Rescinded Rule)

R Number	Action	2016 MR Issue
484.75	*	8
484.81	*	10
484.82	*	10
484.83	*	10
484.84	*	10
484.85	*	10
484.86	*	10
484.87	*	10
484.88	*	10
484.89	*	10
484.90	*	10
484.905	*	18
484.906	*	18
792.10101	*	5
792.11501	*	5
792.11503	R	5
792.11504	R	5
792.11505	R	5
792.11506	R	5
792.11507	R	5
792.11508	R	5
792.11509	R	5
792.1151	R	5
792.11511	R	5
792.11512	R	5
792.11513	R	5
792.11514	R	5
792.11515	R	5
792.11516	R	5
792.11517	R	5

(\* Amendment to Rule, **A** Added Rule, **N** New Rule, **R** Rescinded Rule)



---

**CUMULATIVE  
INDEX**

---

**A**

**ARGICULTURE AND RURAL DEVELOPMENT, DEPARTMENT OF  
Correction**

Regulation No 112 Importation of Dogs (2016-16)

Regulation No 129 Dog Kennels (2016-16)

Regulation No 810 Thoroughbred Breeders' Awards and State Supplements (2016-16)

Regulation No. 813 Testing Horses and Pulling Teams for Drugs (2016-18\*)

**Repeal**

Repeal PA 39 of 1968 Regulation 553 Food Establishments (2016-12)

Repeal PA 213 of 1962 Regulation 147 Started Pullets (2016-13)

Regulation No.619 Fruit Tree Scionwood, Understock and Nursery Stock (2016-11)

Regulation No.633 Restricted Use Pesticides (2016-1\*)

**ATTORNEY GENERAL, DEPARTMENT OF  
Opinions**

Audit of local assessing district is not subject to Open Meeting Act

AG Opinion No. 7288 (2016-5)

Township board of review member serving on township planning commission

AG Opinion No. 7289 (2016-7)

Participation of quorum of county commissioners on county mental health board

AG Opinion No. 7290 (2016-13)

Soliciting on public streets and highways

AG Opinion No. 7291 (2016-15)

Closure of lowest achieving schools operated by a community district  
OAG Opinion No. 7292 (2016-18)

## **E**

### **EDUCATION**

Certification and Licensure of School Counselors (2018-18\*)  
Child Development and Care Program (2016-3)  
Declaratory Rulings, Promulgation of Rules, and Informational Materials (2016-16)  
School Administrator Certification Code (2018-18\*)  
School Psychologist Certification Code (2018-18\*)  
School Administrator Continuing Education (2018-18\*)  
Teacher Certification Code (2018-18\*)  
Teacher and School Administrator Evaluation Tools (2018-18\*)

### **ENVIRONMENTAL QUALITY, DEPARTMENT OF**

Environmental Contamination Response Activity (2016-13\*) (2016-18\*)  
Hazardous Waste Management (2016-18\*)  
Ionizing Radiation Rules for Radioactive Materials (2016-10) (2016-16)  
Marina Facilities (2016-3)  
Part 4. Emissions Limitations and Prohibitions – Sulfur Bearing Compounds (2016-11)  
Part 6. Emission Limitations and Prohibitions Existing Sources of Volatile Organic Compound Emissions (2016-19\*)  
Part 9 Emission Limitations and Prohibitions – Miscellaneous (2016-6\*)  
Resource Recovery Commission (2016-16)

### **EXECUTIVE OFFICE**

#### **PROCLAMATION**

Request for Extension of Declaration of Emergency (2016-3)  
Request for Extension of Declaration of Emergency (2016-7)

#### **Executive Reorganization**

No. 1 (2016-1)  
No. 2 (2016-2)  
No. 3 (2016-3)  
No. 4 (2016-3)  
No. 5 (2016-5)  
No. 6 (2016-6)  
No. 7 (2016-8)  
No. 8 (2016-8)  
No. 9 (2016-10)  
No. 10 (2016-10)  
No. 11 (2016-10)  
No. 12 (2016-11)  
No. 13 (2016-11)  
No. 14 (2016-11)  
No. 15 (2016-12)

- No. 16 (2016-12)
- No. 17 (2016-13)
- No. 18 (2016-14)
- No. 19 (2016-18)

## H

### **HEALTH AND HUMAN SERVICES, DEPARTMENT OF Certificate of Need Review**

- Certificate of Need Review Standards Synopsis for Publication in the Michigan Register for Magnetic Resonance Imaging (MRI) Services (2016-10)
- Certificate of Need Review Standards Synopsis for Publication in the Michigan Register for Open Heart Surgery (OHS) Services (2016-17)

### **Corrections**

- Child Placing Agencies (2016-3)
- MSA Provider Hearings (2016-12)

- Body Art Facilities (2016-11\*)
- Cancer Reporting (2016-10)
- Certificate of Need (2016-12\*)
- MSA Provider Hearings (2016-10)
- Transportation and Disposition of Dead Bodies (2016-2)

## L

### **LICENSING AND REGULATORY AFFAIRS, DEPARTMENT OF Corrections**

- Administrative Hearing Rules – Part 15 Employment Relations Commission (2016-5)
- Administrative Hearing Rules – Part 10 Community Health Subpart A Public Benefit (2016-9)
- Ionizing Radiation Rules for Radioactive Machines (2016-16)
- Part 10 Cranes and Derricks-CS (2016-7) (2016-10)
- Part 12. Welding and Cutting (2016-1)
- Part 15 Excavators, Hoists, Elevators, Helicopters, and Conveyors-CS (2016-7)
- Part 42 Forging GI (2016-10)
- Part 65. Mills and Calendars for Rubber and Plastics (2016-1)
- Part 72 Automotive Service Operations General Industry Safety Standard (2016-3)
- Part 74. Fire Fighting (2016-8)
- Part 526. Dipping and Coating Operations-OH (2016-6)
- Part 529 Welding, Cutting & Brazing Occupational Health Standard (2016-3)
- Residential Code (2016-3)

- Accounting General Rules (2016-16\*)
- Acupuncture – General Rules (2016-8)
- Administrative Hearing Rules – Part 15 Employment Relations Commission (2016-5)
- Advertising (2016-4)
- Athletic Training – General Rules (2016-8)
- Audiology – General Rules (2016-8)
- Basic Local Exchange Service Customer Migration (2016-10)

Beer (2016-5\*)  
Billing Practices Applicable to Non-Residential Electric and Gas Customers (2016-12\*)  
Board of Physical Therapy General Rules (2016-16\*)  
Board of Marriage and Family Therapy – General Rules (2016-6)  
Board of Nursing - General Rules (2016-11\*)  
Board of Occupational Therapist General Rules (2016-16\*)  
Board of Optometry – General Rules (2016-16\*)  
Chiropractic – General Rules (2016-6)  
Counseling (2016-6)  
Customer Standards and Billing Practices for Electric and Natural Gas Service (2016-12\*)  
Dentistry - General Rules (2016-11\*)  
Dormitory Fire Safety for Schools, Colleges, and Universities (2016-3\*)  
Emergency 9-1-1 Services Multiline Telephone System (2016-18)  
Fire Fighters Training Council (2016-12\*)  
Hospice and Hospice Residences (2016-17\*)  
Ionizing Radiation Rules Governing the Use of Radiation Machines (2016-10)  
Land Recordation – General Rules (2016-10)  
License Examination Procedures (2016-15\*)  
Massage Therapy – General Rules (2016-11\*)  
Medicine – General Rules (2016-4\*)  
New and Existing School, College, and University Fire Safety (2016-10)  
Nursing Home Administrators – General Rules (2016-6)  
Nursing Homes and Nursing Care Facilities (2016-14\*)  
Osteopathic Medicine and Surgery – Continuing Education (2016-4\*)  
Osteopathic Medicine and Surgery – General Rules (2016-4\*)  
Part 4. Building Code (2016-2\*)  
Part 5. Scaffolding-GI (2016-16)  
Part 6. Personal Protective Equipment CS (2016-16\*)  
Part 7. Plumbing Code (2016-2\*)  
Part 7 Guards for Power Transmission – GI (2016-5)  
Part 8 Handling and Storage of Materials CS (2016-15\*)  
Part 9a. Mechanical Code (2016-2\*)  
Part 10 Cranes and Derricks-CS (2016-6)  
Part 10a Michigan Energy Code (2016-17\*)  
Part 11. Recording and Reporting of Occupational Injuries and Illnesses (2016-16\*)  
Part 12. Scaffolds and Scaffold Platforms-CS (2016-16)  
Part 14. Conveyors GI (2016-18\*)  
Part 15 Excavators, Hoists, Elevators, Helicopters, and Conveyors-CS (2016-6)  
Part 16. Power Transmission and Distribution (2016-4)  
Part 19 Tools – CS (2016-19)  
Part 21 Guarding of Walking and Working Areas – CS (2016-11)  
Part 21. Powered Industrial Trucks-GI (2016-16)  
Part 24 Mechanical Power Presses GI (2016-15\*)  
Part 25 Manlifts GI (2016-15\*)  
Part 25. Concrete Construction-CS (2016-16)  
Part 30. Telecommunications for Construction CS (2016-18\*)  
Part 33. Personal Protective Equipment GI (2016-16\*)  
Part 50. Telecommunications for General Industry (2016-18\*)

Part 51. Logging GS (2016-19\*)  
Part 74. Fire Fighting (2016-8)  
Part 85 The Control of Hazardous Energy Sources – GI (2016-5)  
Part 90. Permit Required Confined Spaces GI (2018-18\*)  
Part 91 Process Safety Management of Highly Hazardous Chemicals – CS (2016-19)  
Part 91 Process Safety Management of Highly Hazardous Chemicals – GI (2016-18\*)  
Part 301. Air Contaminants for General Industry OH (2016-19\*)  
Part 315. Chromium (VI) in General Industry-OH (2016-16)  
Part 380 Occupational Noise Exposure in General Industry OH (2016-15\*)  
Part 490. Permit Required Confined Spaces OH (2016-18\*)  
Part 520 Ventilation Control-OH (2016-6)  
Part 523 Abrasive Blasting – OH (2016-5)  
Part 526 Dipping and Coating Operations –OH (2016-5)  
Part 590. Silica in General Industry OH (2016-19\*)  
Part 591 Process Safety Management of Highly Hazardous Chemicals OH (2016-15\*)  
Part 604. Chromium (VI) in Construction-OH (2016-16)  
Penal Facilities Rules (2016-18\*)  
Pharmacy – Controlled Substance (2016-8)  
Pharmacy Technicians (2016-6)  
Podiatric Medicine and Surgery - General Rules (2016-11\*)  
Rehabilitation Code (2016-2\*)  
Respiratory Care – General Rules (2016-6)  
Sanitarians Registration (2016-6)  
Speech-Language pathology – General Rules (2016-6)  
Social Work - General Rules (2016-4\*)  
Securities (2016-15\*)  
Task Force on Physician’s Assistants – General Rules (2016-8)  
Unarmed Combat (2016-17)  
Unbundled Network Element and Local Interconnection Services (2016-8)  
Underground Facility Damage Prevention and Safety (2016-9\*)  
Veterinary Medicine - General Rules (2016-11\*)  
Veterinary Technician Licensure (2016-6)  
Wage and Hour General Rules (2016-17)  
Wine (2016-5\*)  
Workers’ Compensation Health Care Services (2016-17\*)

**N**

**NATURAL RESOURCES, DEPARTMENT OF**  
Special Local Watercraft Controls (2016-4\*)

**S**

**STATE, DEPARTMENT OF**  
**Repeal**

Repeal PA 32 of 2016 Breath Alcohol and Ignition Interlock Devices

**T**

**TALENT AND ECONOMIC GROWTH, DEPARTMENT OF**  
Urban Land Assembly Fund (2016-4\*)

**TRANSPORTATION, DEPARTMENT OF**  
Railroads (2016-16)

**TREASURY, DEPARTMENT OF**  
Audit Standards for Exams (2014-109\*)  
Income Tax (2016-8)

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**ADMINISTRATIVE RULES  
ENROLLED SENATE AND HOUSE BILLS  
SIGNED INTO LAW OR VETOED  
(2015 SESSION)**

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*Mich. Const. Art. IV, §33 provides: “Every bill passed by the legislature shall be presented to the governor before it becomes law, and the governor shall have 14 days measured in hours and minutes from the time of presentation in which to consider it. If he approves, he shall within that time sign and file it with the secretary of state and it shall become law . . . If he does not approve, and the legislature has within that time finally adjourned the session at which the bill was passed, it shall not become law. If he disapproves . . . he shall return it within such 14-day period with his objections, to the house in which it originated.”*

*Mich. Const. Art. IV, §27, further provides: “No act shall take effect until the expiration of 90 days from the end of the session at which it was passed, but the legislature may give immediate effect to acts by a two-thirds vote of the members elected to and serving in each house.”*

*MCL 24.208 states in part:*

*“Sec. 8. (1) The Office of Regulatory Reform shall publish the Michigan register at least once each month. The Michigan register shall contain all of the following:*

\* \* \*

*(b) On a cumulative basis, the numbers and subject matter of the enrolled senate and house bills signed into law by the governor during the calendar year and the corresponding public act numbers.*

*(c) On a cumulative basis, the numbers and subject matter of the enrolled senate and house bills vetoed by the governor during the calendar year.”*

# 2016 Michigan Public Acts Table

Legislative Service Bureau  
Legal Division, Statutory Compiling and Law Publications Unit  
124 W. Allegan, Lansing, MI 48909

July 15, 2016  
Through Act 280 of 2016

PA No.	ENROLLED		I.E.* Yes/No	Governor Approved	Filed Date	Effective Date	SUBJECT
	HB	SB					
1	4983		Yes	1/26	1/26	4/25/16	<b>Natural resources; fishing;</b> entrance into state-operated public boating access sites and certain state parks on free fishing weekends; allow free of charge. <i>(Rep. B. Rendon)</i>
2	4604		Yes	1/26	1/26	2/25/16	<b>Natural resources; soil and erosion;</b> soil erosion and sedimentation permit process; provide exemption for certain agricultural practices. <i>(Rep. B. Roberts)</i>
3	5220		Yes	1/29	1/29	1/29/16	<b>Appropriations; supplemental;</b> distribution of certain appropriated revenue from the state general fund to department of health and human services; provide for. <i>(Rep. P. Phelps)</i>
4	4459		Yes	2/2	2/2	2/2/16	<b>Traffic control; driver license;</b> emergency contact information encoded in driver license; allow. <i>(Rep. P. Lucido)</i>
5	4460		Yes	2/2	2/2	2/2/16	<b>State; identification cards;</b> emergency contact information on state identification card; provide for. <i>(Rep. P. Lucido)</i>
6	4535		Yes	2/2	2/2	5/2/16	<b>Weapons; licensing;</b> requirement to obtain a license to purchase, carry, possess, use, or transport a pistol; exempt law enforcement officers. <i>(Rep. L. Theis)</i>
7		0232	Yes	2/2	2/2	2/2/16	<b>Use tax; definitions;</b> definition of auto dealer; modify. <i>(Sen. D. Robertson)</i>
8		0233	Yes	2/2	2/2	2/2/16	<b>Sales tax; definitions;</b> definition of auto dealer; modify. <i>(Sen. D. Robertson)</i>

- \* - I.E. means Legislature voted to give the Act immediate effect.
- \*\* - Act takes effect on the 91st day after sine die adjournment of the Legislature.
- \*\*\* - See Act for applicable effective date.
- + - Line item veto.
- ++ - Pocket veto.
- # - Tie bar.

## 2016 Michigan Public Acts Table

PA No.	ENROLLED		I.E.* Yes/No	Governor Approved	Filed Date	Effective Date	SUBJECT
	HB	SB					
9		0539	Yes	2/16	2/16	2/16/16	<b>Higher education; financial aid;</b> promise zones; modify administration. <b>(Sen. G. Hansen)</b>
10		0540	Yes	2/16	2/16	2/16/16 #	<b>Property tax; state education tax;</b> distribution of state education tax; modify. <b>(Sen. J. Ananich)</b>
11	5023		Yes	2/16	2/16	5/16/16	<b>Natural resources; other;</b> dark sky preserves; expand locations. <b>(Rep. P. Pettalia)</b>
12		0328	Yes	2/16	2/16	5/16/16	<b>Law enforcement; state police;</b> grade and duties of state law enforcement officers; modify. <b>(Sen. T. Schuitmaker)</b>
13		0303	Yes	2/16	2/16	5/16/16	<b>Cemeteries and funerals; other;</b> investment of money in a perpetual care and maintenance fund; expand authority. <b>(Sen. M. Knollenberg)</b>
14		0394	Yes	2/16	2/16	5/16/16	<b>Housing; inspection;</b> multi-unit inspections; make discretionary unless complaint is received and include certain townships within scope of act. <b>(Sen. D. Robertson)</b>
15		0615	Yes	2/16	2/16	2/16/16	<b>Civil procedure; remedies;</b> judgments against municipalities that are collected as tax levies; prohibit transmission or capturing by other governmental entity. <b>(Sen. W. Schmidt)</b>
16	4455		Yes	2/23	2/23	5/23/16	<b>Highways; bridges;</b> bridge inspection process; modify. <b>(Rep. B. Glardon)</b>
17	5070		Yes	2/23	2/23	5/23/16	<b>Labor; health and safety;</b> franchisee and franchisor responsibility as employer under the Michigan occupational safety and health act; clarify. <b>(Rep. E. Leutheuser)</b>
18	5071		Yes	2/23	2/23	5/23/16	<b>Labor; hours and wages;</b> employer responsibility for employees; allocate between franchisor and franchisee. <b>(Rep. P. Somerville)</b>

\* - I.E. means Legislature voted to give the Act immediate effect.

\*\* - Act takes effect on the 91st day after sine die adjournment of the Legislature.

\*\*\* - See Act for applicable effective date.

+ - Line item veto.

++ - Pocket veto.

# - Tie bar.

## 2016 Michigan Public Acts Table

PA No.	ENROLLED		I.E.* Yes/No	Governor Approved	Filed Date	Effective Date	SUBJECT
	HB	SB					
19	5072		Yes	2/23	2/23	5/23/16	<b>Labor; hours and wages</b> ; franchisor responsibility for minimum wage violations; clarify. <b>(Rep. N. Jenkins)</b>
20	5073		Yes	2/23	2/23	5/23/16	<b>Employment security; employers</b> ; franchisee and franchisor responsibility for contributions and benefits; clarify. <b>(Rep. D. Garcia)</b>
21		0513	Yes	2/23	2/23	2/23/16	<b>Highways; name</b> ; renaming a bridge on US-10; designate as the "Corpsman Aaron D. Ullom Memorial Bridge". <b>(Sen. J. Stamas)</b>
22	4853		Yes	2/23	2/23	5/23/16	<b>Vehicles; motorcycles</b> ; fee for motorcycle safety course; modify. <b>(Rep. J. Tedder)</b>
23	4854		Yes	2/23	2/23	5/23/16	<b>Vehicles; motorcycles</b> ; waiver of certain test requirements for individuals who complete a motorcycle safety course; provide for. <b>(Rep. J. Tedder)</b>
24		0136	Yes	2/26	2/26	2/26/16	<b>Appropriations; zero budget</b> ; supplemental appropriations; provide for fiscal year 2015-2016. <b>(Sen. D. Hildenbrand)</b>
25	4888		Yes	3/1	3/1	5/30/16	<b>Property tax; other</b> ; assessment roll; allow assessor to maintain electronically. <b>(Rep. H. Hughes)</b>
26		0503	Yes	3/1	3/1	5/30/16	<b>Children; adoption</b> ; Michigan Indian family preservation act (MIFPA); modify. <b>(Sen. J. Emmons)</b>
27	4758		Yes	3/1	3/1	3/1/16	<b>Drains; financing</b> ; term bonds with mandatory redemption; provide for. <b>(Rep. A. Pscholka)</b>
28	4727		Yes	3/1	3/1	5/30/16	<b>Aeronautics; other</b> ; regulations for tall structures; revise for meteorological towers. <b>(Rep. T. Cole)</b>

\* - I.E. means Legislature voted to give the Act immediate effect.

\*\* - Act takes effect on the 91st day after sine die adjournment of the Legislature.

\*\*\* - See Act for applicable effective date.

+ - Line item veto.

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## 2016 Michigan Public Acts Table

PA No.	ENROLLED		I.E.* Yes/No	Governor Approved	Filed Date	Effective Date	SUBJECT
	HB	SB					
29		0554	Yes	3/8	3/8	6/6/16	<b>Health; occupations;</b> use of electronic continuing education tracking services; allow. <i>(Sen. T. Schuitmaker)</i>
30		0555	Yes	3/8	3/8	6/6/16	<b>Occupations; individual licensing and regulation;</b> use of electronic continuing education tracking services; allow. <i>(Sen. T. Schuitmaker)</i>
31		0056	Yes	3/8	3/8	3/8/16	<b>Courts; judges;</b> salary formula for judges; modify. <i>(Sen. R. Jones)</i>
32		0176	Yes	3/8	3/8	6/6/16 #	<b>Crimes; intoxication or impairment;</b> oversight for ignition interlock servicing centers; provide for department of state. <i>(Sen. T. Schuitmaker)</i>
33		0357	Yes	3/8	3/8	6/6/16 #	<b>Occupations; vehicles, dealers and repair facilities;</b> breath alcohol ignition interlock mechanics and servicers; include in motor vehicle service and repair act. <i>(Sen. T. Schuitmaker)</i>
34	4980		Yes	3/8	3/8	6/6/16 #	<b>Criminal procedure; sentencing guidelines;</b> guidelines for crime of knowingly providing false information concerning an ignition interlock device; revise. <i>(Rep. K. Kesto)</i>
35		0334	Yes	3/8	3/8	3/8/16	<b>Children; protection;</b> reporting child abuse or child neglect through an online reporting system and waiving a written report under certain circumstances; allow, change venereal disease to sexually transmitted infection, and allow federal or state governmental agency access to certain records. <i>(Sen. J. Emmons)</i>
36		0588	Yes	3/8	3/8	6/6/16	<b>Natural resources; hunting;</b> certain tribal conservation officers; authorize to demand hunting, fishing, or fur harvester's licenses. <i>(Sen. T. Casperson)</i>
37		0680	Yes	3/8	3/8	3/8/16	<b>Mental health; other;</b> naming the new patient programming center at the Walter P. Reuther Psychiatric Hospital the "James K. Haveman Center for Activity, Rehabilitation, and Therapy"; provide for. <i>(Sen. P. MacGregor)</i>
38		0150	Yes	3/15	3/15	3/15/16	<b>Insurance; health insurers;</b> health plans that provide prescription drug coverage; clarify requirements for synchronizing multiple prescriptions and dispensing fees. <i>(Sen. M. O'Brien)</i>

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	HB	SB					
39		0051	Yes	3/15	3/15	6/13/16	<b>Highways; name</b> ; renaming a portion of highway in Genesee County; designate as "John Wayne "Dusty" Marcum Memorial Highway". <b>(Sen. K. Horn)</b>
40		0444	Yes	3/15	3/15	6/13/16	<b>Health; emergency services</b> ; critical incident stress management services for emergency service providers; provide for, prohibit disclosure of confidential communications, and provide immunity from liability. <b>(Sen. J. Stamas)</b>
41		0471	Yes	3/15	3/15	6/13/16	<b>Courts; district court</b> ; sixty-seventh district; clarify fourth division jurisdiction. <b>(Sen. D. Robertson)</b>
42		0472	Yes	3/15	3/15	6/13/16	<b>Taxation; tobacco</b> ; tobacco product manufacturers' escrow accounts act; modify. <b>(Sen. W. Schmidt)</b>
43		0473	Yes	3/15	3/15	6/13/16	<b>Tobacco; generally</b> ; tobacco products tax act; require certain enforcement disclosures. <b>(Sen. P. MacGregor)</b>
44		0578	Yes	3/15	3/15	6/13/16	<b>Consumer credit; predatory lending</b> ; mortgage borrowers' bill of rights; modify to refer to federal home loan publications. <b>(Sen. D. Booher)</b>
45		0644	Yes	3/15	3/15	3/15/16	<b>Businesses; nonprofit corporations</b> ; authorization to restructure municipal health facilities corporations; revise requirements. <b>(Sen. J. Stamas)</b>
46	4314		Yes	3/15	3/15	6/13/16	<b>Traffic control; violations</b> ; operation of a motor vehicle on property open to public in a manner that would be a moving violation if on public property causing death or serious impairment of a body function; prohibit, and provide penalties. <b>(Rep. S. Singh)</b>
47	4408		Yes	3/15	3/15	6/13/16 #	<b>Health occupations; veterinarians</b> ; veterinarian continuing education requirement; modify, and include veterinary technicians and a license cycle for veterinarian and veterinary technician licenses. <b>(Rep. K. Crawford)</b>
48	4458		Yes	3/15	3/15	6/13/16	<b>Transportation; other</b> ; complete streets advisory council; eliminate. <b>(Rep. J. Runestad)</b>

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	HB	SB					
49	4999		Yes	3/15	3/15	6/13/16 #	<b>Health; pharmaceuticals;</b> dispensing prescription drug or device requirements; expand to include an out-of-state veterinary prescriber, and amend certain other provisions relating to veterinary licensing. <b>(Rep. E. McBroom)</b>
50	5105		No	3/15	3/15	**	<b>Insurance; health insurers;</b> health insurance claims assessment on carriers and third party administrators; modify sunset. <b>(Rep. A. Pscholka)</b>
51	4887		Yes	3/22	3/22	3/22/16	<b>Individual income tax; other;</b> limitations on investment direction of contributions made to a Michigan education savings account; modify. <b>(Rep. A. Forlini)</b>
52	4747		Yes	3/22	3/22	6/20/16	<b>Property; other;</b> adverse possession; prohibit against local units of government. <b>(Rep. H. Hughes)</b>
53	5385		Yes	3/29	3/29	3/29/16 #	<b>State financing and management; authorities;</b> Michigan financial review commission; expand to include certain education districts. <b>(Rep. E. Poleski)</b>
54	5296		Yes	3/29	3/29	3/29/16	<b>Appropriations; zero budget;</b> supplemental appropriations for distressed public schools; provide for fiscal year 2015-2016. <b>(Rep. A. Pscholka)</b>
55		0507	Yes	3/29	3/29	6/27/16	<b>Environmental protection; recycling;</b> registration and reporting requirements; establish for recyclers of material from residential and commercial waste. <b>(Sen. M. Green)</b>
56		0216	Yes	3/29	3/29	6/27/16	<b>School aid; other;</b> certain references to general education development (GED); modify. <b>(Sen. D. Robertson)</b>
57		0551	Yes	3/29	3/29	6/27/16	<b>Probate; wills and estates;</b> designation of a funeral representative to make disposition arrangements for decedent; provide for. <b>(Sen. T. Schuitmaker)</b>
58	4577		Yes	3/29	3/29	3/29/16	<b>Traffic control; driver license;</b> renewal of unexpired seasonal restricted commercial driver licenses; allow. <b>(Rep. D. Lauwers)</b>

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	HB	SB					
59	5034		Yes	3/29	3/29	6/27/16	<b>Probate</b> ; wills and estates; fiduciary access to digital assets act; enact. <b>(Rep. A. Forlini)</b>
60	4792		Yes	3/29	3/29	6/27/16	<b>Health occupations</b> ; health care professionals; authorized health professionals from other states accompanying athletic teams to sporting events in this state; provide licensing waiver. <b>(Rep. R. Wittenberg)</b>
61	5377		Yes	4/5	4/5	4/5/16	<b>Appropriations</b> ; supplemental; Michigan natural resources trust fund; provide appropriations for fiscal year 2015-2016. <b>(Rep. J. Bumstead)</b>
62	5107		Yes	4/5	4/5	7/4/16	<b>Law enforcement</b> ; other; human trafficking notification act; create. <b>(Rep. K. Heise)</b>
63		0374	Yes	4/5	4/5	7/4/16 #	<b>Health</b> ; code; references to venereal disease; revise to sexually transmitted infection. <b>(Sen. C. Hertel)</b>
64		0375	Yes	4/5	4/5	7/4/16 #	<b>Health</b> ; code; references of venereal disease; revise to sexually transmitted infection. <b>(Sen. P. MacGregor)</b>
65		0376	Yes	4/5	4/5	7/4/16 #	<b>Health</b> ; code; references of venereal disease; revise to sexually transmitted infection. <b>(Sen. D. Knezek)</b>
66		0377	Yes	4/5	4/5	7/4/16 #	<b>Health</b> ; code; references of venereal disease; revise to sexually transmitted infection. <b>(Sen. W. Schmidt)</b>
67		0378	Yes	4/5	4/5	7/4/16 #	<b>Health</b> ; code; references of venereal disease; revise to sexually transmitted infection. <b>(Sen. M. O'Brien)</b>
68		0379	Yes	4/5	4/5	7/4/16 #	<b>Health</b> ; code; references of venereal disease; revise to sexually transmitted infection. <b>(Sen. R. Warren)</b>

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	HB	SB					
69		0380	Yes	4/5	4/5	7/4/16 #	<b>Health</b> ; code; references of venereal disease; revise to sexually transmitted infection. <i>(Sen. J. Marleau)</i>
70		0381	Yes	4/5	4/5	7/4/16 #	<b>Health</b> ; code; references of venereal disease; revise to sexually transmitted infection. <i>(Sen. C. Young)</i>
71		0592	Yes	4/5	4/5	4/5/16	<b>Health facilities</b> ; other; designated places to perform surgical removal of a human organ; expand. <i>(Sen. C. Hertel)</i>
72	4418		Yes	4/5	4/5	7/4/16	<b>Traffic control</b> ; traffic regulation; maple sap transport; include in agricultural commodities for exemption from seasonal road restrictions. <i>(Rep. L. Chatfield)</i>
73	4813		Yes	4/5	4/5	7/4/16	<b>Occupations</b> ; electricians; number of apprentice electricians a journeyman or master electrician may supervise on a jobsite; revise. <i>(Rep. A. Price)</i>
74	5006		Yes	4/5	4/5	7/4/16	<b>Highways</b> ; name; certain portion of Business Route I-96; designate as the "Lansing Firefighter Dennis E. Rodeman Memorial Highway". <i>(Rep. T. Cochran)</i>
75	4537		Yes	4/5	4/5	7/4/16	<b>Labor</b> ; fair employment practices; employee absence from work to provide emergency civil air patrol services; protect from adverse employment action. <i>(Rep. A. LaFontaine)</i>
76	5192		Yes	4/5	4/5	7/4/16	<b>Occupations</b> ; accounting; practice of public accounting; revise scope of practice. <i>(Rep. C. Afendoulis)</i>
77		0729	Yes	4/12	4/12	4/12/16	<b>Transportation</b> ; funds; counties to provide loans to townships for purpose of funding township road construction projects; allow. <i>(Sen. W. Schmidt)</i>
78		0171	Yes	4/12	4/12	7/11/16	<b>Property tax</b> ; exemptions; housing exemption for elderly or disabled families; modify. <i>(Sen. S. Bieda)</i>

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	HB	SB					
79		0366	Yes	4/12	4/12	7/11/16	<b>Records; public</b> ; solicitation of a fee for providing a copy of a deed; regulate. <b>(Sen. C. Hertel)</b>
80		0502	Yes	4/12	4/12	7/11/16	<b>Health; pharmaceuticals</b> ; health care false claims act; modify exemption to exempt certain payments from drug manufacturers to certain persons for certain health care services. <b>(Sen. J. Marleau)</b>
81		0667	Yes	4/12	4/12	4/12/16	<b>Liquor; advertising</b> ; providing advertising items to retailers; modify. <b>(Sen. J. Stamas)</b>
82		0582	Yes	4/12	4/12	4/12/16	<b>Property tax; delinquent taxes</b> ; issuance of revenue notes secured by the collection of delinquent taxes by a county treasurer; allow. <b>(Sen. J. Brandenburg)</b>
83		0583	Yes	4/12	4/12	4/12/16	<b>State financing and management; bonds</b> ; requirement for a county treasurer to issue revenue notes secured by delinquent tax revenues; provide for. <b>(Sen. J. Brandenburg)</b>
84	4895		Yes	4/12	4/12	7/11/16	<b>Liquor; licenses</b> ; secondary location permit to sell beer and wine at retailers with motor fuel pumps; provide for. <b>(Rep. A. Nesbitt)</b>
85		0352	Yes	4/13	4/13	7/12/16	<b>Health; home health care</b> ; designated caregiver act; create. <b>(Sen. M. O'Brien)</b>
86		0476	Yes	4/19	4/19	4/19/16	<b>Taxation; tobacco</b> ; tobacco products act; eliminate sunset related to tax on cigars. <b>(Sen. W. Schmidt)</b>
87	4479		Yes	4/26	4/26	7/25/16	<b>Crimes; assaultive</b> ; assault or battery of a pregnant woman; increase penalties under certain circumstances. <b>(Rep. A. Price)</b>
88	4788		Yes	4/26	4/26	7/25/16 #	<b>Criminal procedure; sentencing guidelines</b> ; sentencing guidelines for crime of assault and battery of a pregnant individual; provide for. <b>(Rep. A. Price)</b>

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	HB	SB					
89		0508	Yes	4/26	4/26	7/25/16	<b>Crimes; other</b> ; intentional posting of sexually explicit visual material of another person without consent; prohibit. <b>(Sen. S. Bieda)</b>
90		0509	Yes	4/26	4/26	7/25/16 #	<b>Crimes; penalties</b> ; penalties for intentionally posting sexually explicit visual material of another person without consent; provide for. <b>(Sen. R. Jones)</b>
91	4477		Yes	4/26	4/26	7/25/16	<b>Civil procedure; appeals</b> ; service of papers; provide for alternate service if party is protected by a protective order. <b>(Rep. K. Kesto)</b>
92		0490	Yes	5/2	5/2	7/31/16	<b>Trade; business practices</b> ; provisions relating to the disclosure of customer information under video rental privacy statute; modify. <b>(Sen. T. Schuitmaker)</b>
93	4476		Yes	5/3	5/3	8/1/16	<b>Civil procedure; other</b> ; mediation; limit in certain domestic relations actions. <b>(Rep. H. Santana)</b>
94	4478		Yes	5/3	5/3	8/1/16	<b>Civil procedure; personal protection orders</b> ; acts that may be enjoined; include harming animals owned by petitioner. <b>(Rep. R. Kosowski)</b>
95	4480		Yes	5/3	5/3	8/1/16	<b>Children; protection</b> ; factors determining best interest of child; modify in cases of domestic violence. <b>(Rep. K. Heise)</b>
96	4481		Yes	5/3	5/3	8/1/16	<b>Family law; child custody</b> ; custody or parenting time for certain parents of a child conceived through sexual assault or sexual abuse; prohibit under certain circumstances. <b>(Rep. L. Lyons)</b>
97	4660		Yes	5/3	5/3	8/1/16	<b>Insurance; health insurers</b> ; reporting requirements for health maintenance organizations' enrollment levels; eliminate. <b>(Rep. T. Leonard)</b>
98	4661		Yes	5/3	5/3	8/1/16 #	<b>Insurance; other</b> ; medical malpractice report related to assumed liability to pay a claim; eliminate. <b>(Rep. L. Theis)</b>

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	HB	SB					
99	4662		Yes	5/3	5/3	8/1/16	<b>Insurance; other</b> ; reporting requirements for state of competition in the commercial liability insurance market; eliminate. <i>(Rep. H. Vaupel)</i>
100	4663		Yes	5/3	5/3	8/1/16	<b>Insurance; other</b> ; reporting requirements for short-term limited duration policies; modify. <i>(Rep. J. Runestad)</i>
101	4664		Yes	5/3	5/3	8/1/16	<b>Insurance; other</b> ; reporting requirement for competition in the worker's compensation market; eliminate. <i>(Rep. R. Franz)</i>
102	4665		Yes	5/3	5/3	8/1/16 #	<b>Insurance; other</b> ; municipal claims report; eliminate. <i>(Rep. R. Wittenberg)</i>
103	4666		Yes	5/3	5/3	8/1/16 #	<b>Insurance; other</b> ; reference municipal claims report; eliminate. <i>(Rep. D. Miller)</i>
104	4667		Yes	5/3	5/3	8/1/16 #	<b>Insurance; other</b> ; reporting requirement for liquor liability insurance; eliminate. <i>(Rep. R. Kosowski)</i>
105	4668		Yes	5/3	5/3	8/1/16 #	<b>Insurance; other</b> ; waiver of proof of financial responsibility filing requirement for retail licensees; eliminate. <i>(Rep. A. LaFontaine)</i>
106	5257		Yes	5/3	5/3	8/1/16	<b>Liquor; advertising</b> ; social media promotions; define and allow. <i>(Rep. K. Kesto)</i>
107	5525		Yes	5/5	5/6	5/6/16	<b>Property tax; special assessments</b> ; state essential services assessment act; modify filing requirements. <i>(Rep. A. Nesbitt)</i>
108	5526		Yes	5/5	5/6	5/6/16	<b>Property tax; exemptions</b> ; general property tax act; modify filing requirements. <i>(Rep. J. Farrington)</i>

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	HB	SB					
109	5545		Yes	5/5	5/6	5/6/16	<b>Property tax; special assessments;</b> alternative state essential services assessment act; modify filing requirements. <i>(Rep. J. Farrington)</i>
110	5527		Yes	5/5	5/6	5/6/16	<b>Economic development; plant rehabilitation;</b> certain filing requirements; modify. <i>(Rep. J. Farrington)</i>
111	4187		Yes	5/10	5/10	8/8/16	<b>Crimes; malicious destruction;</b> vandalizing, desecrating, or intentionally destroying certain public property on a highway, freeway, or interstate road; prohibit, and provide penalties. <i>(Rep. F. Durhal)</i>
112		0331	Yes	5/10	5/10	8/8/16	<b>Businesses; distributors and dealers;</b> used motor vehicle parts dealers; require certain forms of payment for used tires, wheels, and rims. <i>(Sen. R. Jones)</i>
113	4793		Yes	5/10	5/10	8/8/16	<b>Mental health; code;</b> confidentiality of filing petitions for involuntary hospitalization; require. <i>(Rep. P. Lucido)</i>
114	4636		Yes	5/10	5/10	8/8/16	<b>Occupations; insurance;</b> sale of insurance for self-service storage units; eliminate license requirement. <i>(Rep. B. Rendon)</i>
115	5278		Yes	5/10	5/10	5/10/16	<b>Drains; financing;</b> incomplete drain improvement; specify types of costs that can be apportioned. <i>(Rep. B. Glardon)</i>
116	5163		Yes	5/10	5/10	8/8/16	<b>State financing and management; funds;</b> urban land assembly act; repeal, and transfer any remaining funds into the Michigan land bank. <i>(Rep. K. Heise)</i>
117	4436		Yes	5/17	5/17	8/15/16	<b>Traffic control; driver license;</b> grant of restricted driving privileges by a court reviewing the denial, suspension, or revocation of a driver license; allow. <i>(Rep. P. Lucido)</i>
118	5439		Yes	5/17	5/17	5/17/16	<b>Economic development; renaissance zones;</b> exception from payment in lieu of taxes provision; modify. <i>(Rep. M. Webber)</i>

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	HB	SB					
119	4990		Yes	5/19	5/19	8/17/16	<b>State financing and management; other;</b> certain forms of energy improvement financing for cities; provide for. <b>(Rep. A. Pscholka)</b>
120	4991		Yes	5/19	5/19	8/17/16	<b>State financing and management; other;</b> certain forms of energy improvement financing for general law villages; provide for. <b>(Rep. A. Pscholka)</b>
121	4992		Yes	5/19	5/19	8/17/16	<b>State financing and management; other;</b> certain forms of energy improvement financing for home rule villages; provide for. <b>(Rep. A. Pscholka)</b>
122	4993		Yes	5/19	5/19	8/17/16	<b>State financing and management; other;</b> certain forms of energy improvement financing for certain townships; provide for. <b>(Rep. A. Pscholka)</b>
123	4994		Yes	5/19	5/19	8/17/16	<b>State financing and management; other;</b> certain forms of energy improvement financing for counties; provide for. <b>(Rep. A. Pscholka)</b>
124	5176		Yes	5/19	5/19	5/19/16	<b>Local government; other;</b> distribution of local community stabilization authority act share revenues; modify. <b>(Rep. J. Farrington)</b>
125		0409	Yes	5/25	5/25	8/23/16	<b>Crimes; controlled substances;</b> attempt to solicit another person to purchase ephedrine or pseudoephedrine for purpose of manufacturing methamphetamine; prohibit, and provide penalties. <b>(Sen. M. O'Brien)</b>
126		0410	Yes	5/25	5/25	8/23/16 #	<b>Criminal procedure; sentencing guidelines;</b> sentencing guidelines for crime of attempting to solicit another person to obtain ephedrine or pseudoephedrine; revise to reflect. <b>(Sen. T. Casperson)</b>
127	4864		Yes	5/25	5/25	8/23/16	<b>Crimes; controlled substances;</b> attempt to commit "smurfing" crime; provide for 5-year stop-sale alert after conviction. <b>(Rep. J. Kivela)</b>
128	4769		Yes	5/25	5/25	8/23/16	<b>Crimes; controlled substances;</b> penalties for manufacture of methamphetamine near a school or library; increase. <b>(Rep. E. McBroom)</b>

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	HB	SB					
129	5182		Yes	5/25	5/26	8/24/16	<b>Education; special</b> ; certain language in Michigan school for the deaf act; update. <b>(Rep. M. Howrylak)</b>
130	5183		Yes	5/25	5/26	8/24/16	<b>Disabilities; other</b> ; reference to "hearing impaired" and "division on deafness"; revise. <b>(Rep. J. Bizon)</b>
131	5184		Yes	5/25	5/26	8/24/16	<b>Disabilities; other</b> ; reference to "hearing impaired" in division on deafness act; revise to "deaf, deafblind, and hard of hearing". <b>(Rep. J. Runestad)</b>
132	5185		Yes	5/25	5/26	8/24/16	<b>Crimes; definitions</b> ; reference to "deaf and dumb"; eliminate from statute. <b>(Rep. A. Price)</b>
133	5186		Yes	5/25	5/26	8/24/16	<b>Disabilities; other</b> ; reference to "hearing impaired" regarding certain limited teaching certificates; revise to "hard of hearing". <b>(Rep. W. Brinks)</b>
134	5187		Yes	5/25	5/26	8/24/16	<b>Public employees and officers; duties</b> ; provision relating to the transfer of books and materials to successors; modify to remove obsolete language. <b>(Rep. G. Darany)</b>
135	5188		Yes	5/26	5/26	8/24/16	<b>Disabilities; other</b> ; reference to "hearing impaired" in division on deafness act; revise to "deaf, deafblind, and hard of hearing". <b>(Rep. P. Phelps)</b>
136		0343	Yes	5/25	5/26	5/26/16	<b>Retirement; public school employees</b> ; unfunded actuarial accrued liability contribution rate for certain universities; modify. <b>(Sen. T. Schuitmaker)</b>
137		0344	Yes	5/25	5/26	8/24/16 #	<b>Liquor; licenses</b> ; issuance of specially designated license and specially designated distributor license to 1 licensee; allow. <b>(Sen. D. Hildenbrand)</b>
138		0501	No	5/25	5/26	**	<b>Traffic control; driver license</b> ; persons exempt from obtaining a Michigan driver license; modify. <b>(Sen. J. Stamas)</b>

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## 2016 Michigan Public Acts Table

PA No.	ENROLLED		I.E.* Yes/No	Governor Approved	Filed Date	Effective Date	SUBJECT
	HB	SB					
139		0659	Yes	5/25	5/26	8/24/16	<b>Children; foster care; fostering futures scholarship trust fund; expand investment options.</b> <b>(Sen. P. MacGregor)</b>
140		0607	Yes	5/25	5/26	8/24/16 #	<b>Financial institutions; payday lending; deferred presentment service transactions act; revise definitions.</b> <b>(Sen. D. Booher)</b>
141		0719	Yes	5/25	5/26	8/24/16 #	<b>Financial institutions; payday lending; satisfaction of deferred presentment transactions; authorize use of debit cards and certain telephone-initiated transactions.</b> <b>(Sen. D. Booher)</b>
142		0776	Yes	6/6	6/7	6/7/16	<b>Elections; petitions; petition signature rebuttable presumption; eliminate.</b> <b>(Sen. D. Robertson)</b>
143		0458	Yes	6/6	6/7	9/5/16	<b>Children; adoption; grounds for termination of parental rights; clarify under certain circumstances.</b> <b>(Sen. T. Schuitmaker)</b>
144		0606	Yes	6/6	6/7	6/7/16	<b>Property tax; principal residence exemption; exemption from tax levied by local school district for school operating purposes; extend to include military service members temporarily residing elsewhere due to military deployment.</b> <b>(Sen. M. Shirkey)</b>
145		0738	Yes	6/6	6/7	6/7/16	<b>Retirement; pension oversight; executive summary of annual valuation reports on pension and retiree health care for state unit systems; require.</b> <b>(Sen. D. Booher)</b>
146		0818	Yes	6/6	6/7	6/7/16	<b>Education; occupational schools; occupational school regulations; exempt yoga teacher training programs.</b> <b>(Sen. T. Schuitmaker)</b>
147	5512		Yes	6/8	6/9	9/7/16	<b>Human services; services or financial assistance; Michigan energy assistance program; extend sunset.</b> <b>(Rep. E. Poleski)</b>
148	4634		Yes	6/8	6/9	9/7/16	<b>Vehicles; registration; renewal deadline for vehicle registration; modify to provide a grace period under certain circumstances.</b> <b>(Rep. B. Giarson)</b>

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## 2016 Michigan Public Acts Table

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	HB	SB					
149	4787		Yes	6/8	6/9	9/7/16	<b>Crimes; other</b> ; coercing female to have an abortion against her will; prohibit, and provide penalties. <b>(Rep. A. Price)</b>
150	4830		Yes	6/8	6/9	9/7/16 #	<b>Criminal procedure; sentencing guidelines</b> ; sentencing guidelines for crime of coercing a female to have an abortion against her will; enact. <b>(Rep. N. Jenkins)</b>
151	4984		Yes	6/8	6/9	6/9/16	<b>Property tax; other</b> ; specific tax levied under the tax reverted clean title act; revise. <b>(Rep. T. Barrett)</b>
152	5017		Yes	6/9	6/9	9/7/16 #	<b>Financial institutions; credit unions</b> ; credit union act; make general amendments. <b>(Rep. A. Forlini)</b>
153	5018		Yes	6/8	6/9	9/7/16 #	<b>Financial institutions; credit unions</b> ; administration and operation of credit unions; make certain revisions to credit union act. <b>(Rep. P. Pettalia)</b>
154	5019		Yes	6/8	6/9	9/7/16 #	<b>Financial institutions; credit unions</b> ; authority to organize or invest in credit union service organizations that provide trust services and other services; revise. <b>(Rep. P. Clemente)</b>
155	5020		Yes	6/8	6/9	9/7/16 #	<b>Financial institutions; credit unions</b> ; examinations by department of insurance and financial services; revise requirements and provide for confidentiality of certain documents. <b>(Rep. L. Theis)</b>
156	5021		Yes	6/8	6/9	9/7/16 #	<b>Financial institutions; credit unions</b> ; credit union act; revise provisions relating to mergers. <b>(Rep. T. Barrett)</b>
157	5022		Yes	6/8	6/9	9/7/16 #	<b>Financial institutions; credit unions</b> ; loan promotion raffles; authorize. <b>(Rep. L. Love)</b>
158	5131		Yes	6/8	6/9	7/1/16	<b>Individual income tax; withholding requirements</b> ; flow-through entity withholdings; eliminate. <b>(Rep. J. Farrington)</b>

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## 2016 Michigan Public Acts Table

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	HB	SB					
159	5132		Yes	6/8	6/9	9/7/16	<b>Sales tax; exemptions;</b> taxation of direct mail; comply with streamlined sales and use tax agreement. <i>(Rep. J. Farrington)</i>
160	5133		Yes	6/8	6/9	9/7/16	<b>Use tax; exemptions;</b> taxation of direct mail; comply with streamlined sales and use tax agreement. <i>(Rep. W. Byrd)</i>
161	5247		Yes	6/8	6/9	9/7/16	<b>Vehicles; equipment;</b> use of green and amber lights on snowplow vehicles; allow. <i>(Rep. R. VerHeulen)</i>
162	5251		Yes	6/8	6/9	9/7/16 #	<b>Financial institutions; banks;</b> loan promotion raffles; authorize for state banks. <i>(Rep. B. Iden)</i>
163		0752	Yes	6/8	6/9	9/7/16	<b>Crimes; gambling;</b> loan promotion raffles by state banks; exclude from gambling and lottery crimes. <i>(Sen. P. MacGregor)</i>
164	5395		Yes	6/8	6/9	6/9/16	<b>Environmental protection; sewage;</b> grant program for sewage collection and treatment systems; expand options for certain systems at risk of failure. <i>(Rep. J. Johnson)</i>
165		0453	Yes	6/8	6/9	9/7/16	<b>Courts; district court;</b> residency requirement for magistrate in the third class district courts; expand. <i>(Sen. R. Jones)</i>
166		0637	Yes	6/8	6/9	9/7/16	<b>Agriculture; other;</b> grass seed test period and certain label requirements; modify. <i>(Sen. J. Hune)</i>
167		0656	Yes	6/8	6/9	9/7/16	<b>Occupations; collection practices;</b> applicability of collection practices provisions of occupational code to repossession and certain other collection practices; modify. <i>(Sen. R. Jones)</i>
168		0657	Yes	6/8	6/9	9/7/16	<b>Consumer credit; collection practices;</b> applicability of collection practices statute to repossession and certain other collection activities; modify. <i>(Sen. R. Jones)</i>

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	HB	SB					
169		0569	Yes	6/8	6/9	9/7/16	<b>Local government; financing;</b> municipal budget stabilization fund; increase. <b>(Sen. M. Nofs)</b>
170	4493		Yes	6/13	6/14	6/14/16	<b>Education; curriculum;</b> genocide education; provide for, and define teacher for purposes of teacher performance evaluation system. <b>(Rep. K. Kesto)</b>
171	4656		Yes	6/12	6/14	9/12/16	<b>Drains; other;</b> entry on property for drain maintenance project; require written notification to property owner. <b>(Rep. J. Johnson)</b>
172	4796		Yes	6/12	6/14	9/12/16	<b>Veterans; employment;</b> employment protections for National Guard members who work outside of the state where they mobilize; provide for. <b>(Rep. R. Franz)</b>
173		0481	Yes	6/12	6/14	9/12/16 #	<b>Local government; authorities;</b> recreational authorities act; clarify regarding use of tax proceeds by a recreational authority. <b>(Sen. D. Booher)</b>
174	4578		Yes	6/12	6/14	9/12/16 #	<b>Local government; authorities;</b> recreational authorities act; revise to include school districts. <b>(Rep. P. Potvin)</b>
175		0748	Yes	6/12	6/14	9/12/16 #	<b>Financial institutions; banks;</b> fees and examinations of state banks in banking code of 1999; revise, and establish state bank regulatory fund. <b>(Sen. D. Booher)</b>
176		0749	Yes	6/12	6/14	9/12/16 #	<b>Financial institutions; banks;</b> general definitions in banking code of 1999; revise. <b>(Sen. D. Zorn)</b>
177		0750	Yes	6/12	6/14	9/12/16 #	<b>Financial institutions; banks;</b> permissible investments by state banks; revise. <b>(Sen. M. Nofs)</b>
178		0858	Yes	6/12	6/14	9/12/16	<b>Family law; paternity;</b> revocation of paternity in cases where a child's birth is the result of criminal sexual conduct; clarify. <b>(Sen. R. Jones)</b>

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PA No.	ENROLLED		I.E.* Yes/No	Governor Approved	Filed Date	Effective Date	SUBJECT
	HB	SB					
179		0844	Yes	6/12	6/14	6/14/16	<i>Property; conveyances</i> ; state-owned property in Ingham County; provide for conveyance. <b>(Sen. R. Jones)</b>
180		0901	Yes	6/12	6/14	6/14/16	<i>Liquor; licenses</i> ; issuance of a national sporting event license; expand to include United States Golf Association Amateur Championship. <b>(Sen. M. Kowall)</b>
181	4817		Yes	6/15	6/16	6/16/16 #	<i>Individual income tax; other</i> ; Michigan junior achievement fund act; create. <b>(Rep. B. Iden)</b>
182	4818		Yes	6/15	6/16	6/16/16 #	<i>Individual income tax; checkoff</i> ; donation to the Michigan junior achievement fund; provide check-off option. <b>(Rep. B. Iden)</b>
183		0428	Yes	6/15	6/16	6/16/16 #	<i>Individual income tax; other</i> ; American Red Cross Michigan fund act; create. <b>(Sen. R. Jones)</b>
184		0429	Yes	6/15	6/16	6/16/16 #	<i>Individual income tax; checkoff</i> ; American Red Cross Michigan fund; provide check-off option. <b>(Sen. R. Jones)</b>
185		0251	Yes	6/20	6/21	9/19/16	<i>Courts; other</i> ; consent calendar for juveniles; create. <b>(Sen. J. Proos)</b>
186		0632	Yes	6/20	6/21	pending #	<i>Courts; jurisdiction</i> ; jurisdiction on appeals from orders and judgments of the probate court; provide to the court of appeals. <b>(Sen. T. Schuitmaker)</b>
187		0672	Yes	6/20	6/21	9/19/16	<i>Torts; liability</i> ; parental waiver of liability for minor; expand to include camping activities. <b>(Sen. G. Hansen)</b>
188		0774	Yes	6/20	6/21	9/19/16	<i>Food; other</i> ; vending machine locations; classify as food establishments, provide for state inspections, and assess fees against base location. <b>(Sen. J. Hune)</b>

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PA No.	ENROLLED		I.E.* Yes/No	Governor Approved	Filed Date	Effective Date	SUBJECT
	HB	SB					
189		0957	Yes	6/20	6/21	6/21/16	<b>Health facilities; quality assurance assessments;</b> state retention amount from funds generated through hospital assessments; revise. <i>(Sen. J. Marleau)</i>
190	5521		Yes	6/20	6/21	9/19/16 #	<b>Children; foster care;</b> keeping siblings together in foster care placements; require under certain conditions. <i>(Rep. K. Kesto)</i>
191		0483	Yes	6/20	6/21	9/19/16 #	<b>Children; children's rights;</b> rights for siblings to be placed together in foster care or to have sibling visitation; establish, and change husband and wife to spouse in the Michigan adoption code. <i>(Sen. R. Jones)</i>
192	5384		Yes	6/21	6/21	6/21/16 #	<b>Education; school districts;</b> education district; create to be successor to qualifying school district, and provide for certain reforms. <i>(Rep. D. Garcia)</i>
193	5383		Yes	6/21	6/21	6/21/16 #	<b>Education; financing;</b> community district education trust fund; create. <i>(Rep. A. Price)</i>
194	5387		Yes	6/21	6/21	9/19/16	<b>Education; employees;</b> enforcement actions against public school employers and employees involved in a prohibited lockout or strike; modify procedures and sanctions. <i>(Rep. D. Garcia)</i>
195		0711	Yes	6/21	6/21	6/21/16 #	<b>State financing and management; authorities;</b> Michigan financial review commission; expand to include certain school districts. <i>(Sen. G. Hansen)</i>
196		0820	Yes	6/21	6/21	6/21/16 #	<b>Public employees and officers; ethics;</b> superintendent or chairperson of a qualified school district, member of a financial review commission, emergency manager, and transition manager; include in exemptions from incompatible offices. <i>(Sen. G. Hansen)</i>
197		0822	Yes	6/21	6/21	6/21/16 #	<b>Local government; financing;</b> emergency municipal loan act; modify criteria for issuance of loans. <i>(Sen. G. Hansen)</i>
198		0809	Yes	6/21	6/22	9/20/16	<b>Veterans; other;</b> veterans' ombudsman; create. <i>(Sen. P. MacGregor)</i>

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PA No.	ENROLLED		I.E.* Yes/No	Governor Approved	Filed Date	Effective Date	SUBJECT
	HB	SB					
199	5332		Yes	6/21	6/22	9/20/16	<b>Veterans; other</b> ; definition of veteran; modify. <b>(Rep. T. Barrett)</b>
200	5333		Yes	6/21	6/22	9/20/16 #	<b>Veterans; other</b> ; definition of veteran; update in the veterans' military pay act. <b>(Rep. D. Maturen)</b>
201	5334		Yes	6/21	6/22	9/20/16 #	<b>Veterans; other</b> ; definition of veteran; update in the Vietnam veteran era bonus act. <b>(Rep. D. Rutledge)</b>
202	5335		Yes	6/21	6/22	9/20/16 #	<b>Veterans; other</b> ; definition of veteran; update in the Korean veterans' military pay fund act of 1955. <b>(Rep. G. Glenn)</b>
203	5336		Yes	6/21	6/22	9/20/16 #	<b>Veterans; other</b> ; definition of veteran; update in state personal identification act. <b>(Rep. H. Hughes)</b>
204	5337		Yes	6/21	6/22	9/20/16 #	<b>Veterans; other</b> ; definition of veteran; update in department of management and budget act. <b>(Rep. L. Cox)</b>
205	5338		Yes	6/21	6/22	9/20/16 #	<b>Veterans; other</b> ; definition of veteran; update in the veteran right to employment services act. <b>(Rep. H. Vaupel)</b>
206	5339		Yes	6/21	6/22	9/20/16 #	<b>Health; diseases</b> ; definition of veteran; update in the public health code. <b>(Rep. P. Lucido)</b>
207	5340		Yes	6/21	6/22	9/20/16 #	<b>Veterans; other</b> ; definition of veteran; update in the private employer's veterans' preference policy act. <b>(Rep. J. Bizon)</b>
208	5341		Yes	6/21	6/22	9/20/16 #	<b>Veterans; other</b> ; definition of veteran; update in the veterans' relief fund act. <b>(Rep. J. Bizon)</b>

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	HB	SB					
209	5342		Yes	6/21	6/22	9/20/16 #	<b>Veterans; other</b> ; definition of veteran; update in the bonds to provide service bonus for Vietnam veterans act. <b>(Rep. L. Theis)</b>
210	5343		Yes	6/21	6/22	9/20/16 #	<b>Veterans; other</b> ; definition of veteran for individuals seeking license or qualification for a trade, occupation, or apprenticeship; update. <b>(Rep. R. Kosowski)</b>
211	5344		Yes	6/21	6/22	9/20/16 #	<b>Veterans; other</b> ; definition of veteran; update in the preference for public employment act. <b>(Rep. J. Sheppard)</b>
212	5345		Yes	6/21	6/22	9/20/16 #	<b>Individual income tax; veterans</b> ; definition of veteran; update in the income tax act. <b>(Rep. L. Inman)</b>
213	5346		Yes	6/21	6/22	9/20/16 #	<b>Veterans; other</b> ; definition of veteran; update in the veterans' facility act. <b>(Rep. L. Chatfield)</b>
214	5347		Yes	6/21	6/22	9/20/16 #	<b>Veterans; other</b> ; definition of veteran; update in the license to sell goods act. <b>(Rep. T. Cole)</b>
215	5348		Yes	6/21	6/22	9/20/16 #	<b>Courts; juries</b> ; definition of veteran; update in the revised judicature act of 1961. <b>(Rep. E. Leutheuser)</b>
216	5548		Yes	6/21	6/22	9/20/16 #	<b>Veterans; other</b> ; definition of veteran and period of war for purposes of compensating an estate for burial expenses; modify. <b>(Rep. M. Whiteford)</b>
217	5549		Yes	6/21	6/22	9/20/16 #	<b>Veterans; trust fund</b> ; definition of veteran and period of war for purposes of the veterans' trust fund; modify. <b>(Rep. G. Howell)</b>
218	5550		Yes	6/21	6/22	9/20/16 #	<b>Veterans; other</b> ; reference to federal code periods of war; update. <b>(Rep. H. Hughes)</b>

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	HB	SB					
219	5551		Yes	6/21	6/22	9/20/16 #	<b>Traffic control</b> ; driver license; definition of veteran on driver license; revise. <i>(Rep. T. Barrett)</i>
220		0914	Yes	6/22	6/23	6/23/16	<b>State financing and management</b> ; funds; appropriation cap on disaster and emergency contingency fund; increase. <i>(Sen. M. Nofs)</i>
221		0292	No	6/22	6/23	**	<b>State financing and management</b> ; budget; governor's executive budget; require to include reporting of unfunded accrued liabilities. <i>(Sen. J. Proos)</i>
222		0673	Yes	6/22	6/23	6/23/16	<b>Economic development</b> ; obsolete property and rehabilitation; sunset on obsolete property rehabilitation act; extend. <i>(Sen. K. Horn)</i>
223		0883	Yes	6/22	6/23	6/23/16	<b>State financing and management</b> ; funds; Michigan infrastructure fund; create. <i>(Sen. D. Hildenbrand)</i>
224		0599	Yes	6/22	6/23	10/1/16 #	<b>Property</b> ; recording; fees for recording documents; revise. <i>(Sen. P. MacGregor)</i>
225		0600	Yes	6/22	6/23	10/1/16 #	<b>Liens</b> ; other; liens for labor on oil and gas wells; clarify fee for recording and indexing a statement claiming a lien. <i>(Sen. P. MacGregor)</i>
226		0601	Yes	6/22	6/23	10/1/16 #	<b>Liens</b> ; other; federal tax liens; modify fee for filing and indexing liens and notices. <i>(Sen. D. Zorn)</i>
227		0602	Yes	6/22	6/23	10/1/16 #	<b>Liens</b> ; other; state tax liens; modify fee for recording or filing and indexing liens and notices. <i>(Sen. D. Zorn)</i>
228		0603	Yes	6/22	6/23	10/1/16 #	<b>Liens</b> ; other; fee for recording or discharging lien; modify in the Michigan employment security act. <i>(Sen. D. Booher)</i>

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	HB	SB					
229		0604	Yes	6/22	6/23	10/1/16 #	<b>Commercial code</b> ; secured transactions; recording fees for mortgages that are effective as financing statements; clarify. <i>(Sen. C. Hertel)</i>
230		0737	Yes	6/22	6/23	10/1/16 #	<b>State financing and management</b> ; funds; recovery of certain fees for recording certain documents; allow. <i>(Sen. P. MacGregor)</i>
231	5164		Yes	6/22	6/23	10/1/16 #	<b>Land use</b> ; land division; fee collected for final plat; revise. <i>(Rep. L. Chatfield)</i>
232	5165		Yes	6/22	6/23	10/1/16 #	<b>Property</b> ; recording; recording fee for judgments recorded by register of deeds; clarify. <i>(Rep. J. Moss)</i>
233		0610	Yes	6/22	6/23	9/21/16	<b>Housing</b> ; condominium; reversion of undeveloped units to common elements after period of time; require approval by condominium association. <i>(Sen. M. O'Brien)</i>
234		0976	Yes	6/23	6/24	9/22/16 #	<b>Criminal procedure</b> ; sentencing guidelines; crime of making a false report of an urgent and immediate threat; provide for. <i>(Sen. M. Nofs)</i>
235	5442		Yes	6/23	6/24	9/22/16 #	<b>Law enforcement</b> ; communications; public threat alert system to send alerts to residents through various modes of communication including on cellular telephones; create. <i>(Rep. B. Iden)</i>
236	5567		Yes	6/23	6/24	9/22/16 #	<b>Criminal procedure</b> ; other; recovery of certain costs for prosecution for a false report of a public threat; provide for. <i>(Rep. D. Maturen)</i>
237		0690	Yes	6/23	6/24	9/22/16	<b>Disabilities</b> ; other; reference to "hearing impaired" in the Michigan telecommunications act; revise to "deaf, deafblind, or hard of hearing". <i>(Sen. D. Robertson)</i>
238		0691	Yes	6/23	6/24	9/22/16	<b>Health occupations</b> ; speech-language pathologists; reference to "hearing impaired"; revise to "hard of hearing". <i>(Sen. M. Knollenberg)</i>

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	HB	SB					
239		0692	Yes	6/23	6/24	9/22/16	<b>Mental health</b> ; code; reference to deaf and "hearing impaired"; revise to deaf, deafblind, and "hard of hearing". <i>(Sen. D. Zorn)</i>
240		0693	Yes	6/23	6/24	9/22/16	<b>Disabilities</b> ; other; title of division on deafness act; revise to division on deaf, deafblind, and hard of hearing. <i>(Sen. M. O'Brien)</i>
241		0694	Yes	6/23	6/24	9/22/16	<b>Disabilities</b> ; other; reference to "deaf, deafblind, and hearing impaired" in the department of civil rights; revise. <i>(Sen. R. Warren)</i>
242		0207	Yes	6/23	6/24	9/22/16 #	<b>Crimes</b> ; intoxication or impairment; operating a motor vehicle under the influence of alcohol or a controlled substance, or both; amend certain definitions and procedures. <i>(Sen. R. Jones)</i>
243		0434	Yes	6/23	6/24	9/22/16 #	<b>Law enforcement</b> ; investigations; pilot program to use preliminary drug testing at roadside stop and add certain definitions; create. <i>(Sen. T. Casperson)</i>
244		0878	Yes	6/23	6/24	6/24/16	<b>Communications</b> ; emergency 9-1-1; certain requirements of multiline telephone systems to identify the specific location of 9-1-1 calls; modify implementation date. <i>(Sen. M. Shirkey)</i>
245	5701		Yes	6/23	6/24	6/24/16	<b>State financing and management</b> ; purchasing; sale of certain state transportation department equipment; require to offer to local units of government first. <i>(Rep. L. Inman)</i>
246		0105	Yes	6/23	6/24	9/22/16	<b>Highways</b> ; bridges; movable bridge fund; create, and require oversight of publicly owned movable bridges by department of transportation. <i>(Sen. M. Green)</i>
247		0523	Yes	6/23	6/24	9/22/16	<b>History and arts</b> ; historic sites; Native American historical recognition program; create. <i>(Sen. W. Schmidt)</i>
248	5631		Yes	6/23	6/24	9/22/16	<b>Natural resources</b> ; funding; forest development fund; modify allowable uses. <i>(Rep. A. Pscholka)</i>

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## 2016 Michigan Public Acts Table

PA No.	ENROLLED		I.E.* Yes/No	Governor Approved	Filed Date	Effective Date	SUBJECT
	HB	SB					
249		0801	Yes	6/27	6/27	6/27/16	<b>Appropriations; school aid</b> ; fiscal year 2016-2017 omnibus appropriations for school aid, higher education, and community colleges and certain supplemental appropriations for 2015-2016; provide for. <b>(Sen. D. Hildenbrand)</b>
250	5050		Yes	6/27	6/28	9/26/16	<b>Agriculture; animals</b> ; provision related to breeding of horses; repeal. <b>(Rep. D. Page)</b>
251	5051		Yes	6/27	6/28	6/28/16	<b>Taxation; specific tax</b> ; provision related to collection of specific taxes; repeal. <b>(Rep. E. Canfield)</b>
252	5052		Yes	6/27	6/28	9/26/16	<b>Agriculture; animals</b> ; provision related to immature or unwholesome calves, pigs, kids, and lambs; repeal. <b>(Rep. T. Cole)</b>
253	5053		Yes	6/27	6/28	9/26/16	<b>Animals; dogs</b> ; certain provisions related to dog identification; repeal. <b>(Rep. H. Hughes)</b>
254	5054		Yes	6/27	6/28	9/26/16	<b>Agriculture; diseases and pests</b> ; provision related to nursery agent permit and fee; repeal. <b>(Rep. M. Howrylak)</b>
255	5055		Yes	6/27	6/28	9/26/16	<b>Agriculture; other</b> ; provision related to silos treated with polychlorinated biphenyls; repeal. <b>(Rep. J. Bizon)</b>
256	5059		Yes	6/27	6/28	9/26/16	<b>Agriculture; animals</b> ; provision related to started pullets; repeal. <b>(Rep. T. Barrett)</b>
257	5060		Yes	6/27	6/28	9/26/16	<b>Agriculture; animals</b> ; provision related to livestock and poultry remedies; repeal. <b>(Rep. J. Sheppard)</b>
258	5392		Yes	6/27	6/28	9/26/16	<b>Agriculture; products</b> ; regulation of purity, germination, and other seed testing; provide for. <b>(Rep. B. Roberts)</b>

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	HB	SB					
259		0477	Yes	6/27	6/28	9/26/16	<b>Food; milk;</b> reference to federal recommendations in the definition of pasteurized milk ordinance in the grade A milk law of 2001; update. <b>(Sen. M. Green)</b>
260		0651	Yes	6/23	6/28	6/28/16 #	<b>Taxation; specific tax;</b> transitional qualified forest property specific tax for properties previously enrolled in commercial forest program; create, and provide for transition into the qualified forest program. <b>(Sen. D. Booher)</b>
261		0652	Yes	6/23	6/28	6/28/16 #	<b>Property tax; exemptions;</b> exemption for transitional qualified forest property; create. <b>(Sen. D. Booher)</b>
262		0653	Yes	6/27	6/28	6/28/16 #	<b>Natural resources; forests;</b> withdrawal of properties enrolled in commercial forest program; permit without penalty for transitional qualified forest property. <b>(Sen. T. Casperson)</b>
263		0899	Yes	6/27	6/28	9/26/16	<b>Trade; other;</b> farm produce in possession of failed grain dealer; establish lien and revise allocation of proceeds. <b>(Sen. J. Stamas)</b>
264		0900	Yes	6/27	6/28	9/26/16	<b>Trade; other;</b> payment of producer premiums into farm produce insurance fund; revise requirements. <b>(Sen. J. Hune)</b>
265	5189		Yes	6/27	6/28	9/26/16 #	<b>Land use; farmland and open space;</b> development rights agreements; modify terms for processing and relinquishment. <b>(Rep. D. Lauwers)</b>
266	5190		Yes	6/27	6/28	6/28/16	<b>Individual income tax; administration;</b> earmark for unclaimed farmland tax credits and filing requirements; provide for and clarify. <b>(Rep. B. Roberts)</b>
267	5191		Yes	6/27	6/28	6/28/16	<b>Taxation; administration;</b> calculation of interest penalties related to certain credits; provide for. <b>(Rep. D. Lauwers)</b>
268	5294		Yes	6/29	6/29	6/29/16	<b>Appropriations; zero budget;</b> omnibus budget appropriations; provide for. <b>(Rep. A. Pscholka)</b>

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	HB	SB					
269	5641		Yes	6/29	7/1	9/29/16 #	<b>Civil procedure; personal protection orders;</b> orders for transfer of wireless telephone numbers; allow issuance of. <b>(Rep. T. Barrett)</b>
270	5642		Yes	6/29	7/1	9/29/16 #	<b>Civil procedure; personal protection orders;</b> wireless telephone providers; require to transfer numbers under court order. <b>(Rep. V. Guerra)</b>
271		0504	Yes	6/29	7/1	7/1/16	<b>Gaming; horse racing;</b> simulcast races; revise provisions related to, and make other general amendments. <b>(Sen. D. Robertson)</b>
272		0505	Yes	6/29	7/1	7/1/16 #	<b>Criminal procedure; sentencing guidelines;</b> sentencing guidelines for accepting wagers on live or simulcast horse races without a license; enact. <b>(Sen. D. Robertson)</b>
273	4440		Yes	6/29	7/1	7/1/16	<b>Transportation; funds;</b> transportation economic development fund sunset; revise. <b>(Rep. E. Canfield)</b>
274	4933		Yes	6/29	7/1	9/29/16 #	<b>Insurance; health insurers;</b> patient's right to independent review act; provide for general amendments relating to health insurance. <b>(Rep. T. Barrett)</b>
275	4934		Yes	6/29	7/1	7/1/16 #	<b>Insurance; health insurers;</b> coordination of benefits act; revise. <b>(Rep. R. Kosowski)</b>
276	4935		Yes	6/29	7/1	7/1/16 #	<b>Insurance; health insurers;</b> insurance code; provide for general amendments relating to health insurance. <b>(Rep. T. Leonard)</b>
277	5457		Yes	6/29	7/1	7/1/16	<b>Michigan business tax; insurance companies;</b> credit for certain amounts paid that are attributable to the assigned claims plan; exclude. <b>(Rep. J. Bumstead)</b>
278	5458		Yes	6/29	7/1	7/1/16	<b>Corporate income tax; insurance companies;</b> credit for certain amounts paid that are attributable to the assigned claims plan; exclude. <b>(Rep. E. Poleski)</b>

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	HB	SB					
279	5562		Yes	6/29	7/1	10/1/16	<b>Human services; county services;</b> sunset on administrative rate for foster care services; extend. <b>(Rep. E. Poleski)</b>
280	5706		Yes	6/29	7/1	9/29/16	<b>Vehicles; registration;</b> disposition and use of revenues from increases in fees; modify. <b>(Rep. L. Inman)</b>
Veto	4344			No		6/16/16	<b>Occupations; vehicles, dealers and repair facilities;</b> motor vehicle service and repair act; make general revisions. <b>(Rep. P. Pettalia)</b>
Veto		0363		No		6/6/16	<b>Natural resources; Great Lakes;</b> payment for occupying waters or bottomlands; reduce, or waive in certain circumstances. <b>(Sen. T. Casperson)</b>
Veto		0557		No		7/1/16	<b>Transportation; funds;</b> requirement that cities and villages bear a portion of the cost of opening, widening, and improving state trunk line highways; eliminate. <b>(Sen. M. Knollenberg)</b>

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