

APPENDIX A

Rules Cited

R 336.1116(n) Definitions; P.

(n) "**Potential to emit**" means the maximum capacity of a stationary source to emit an air contaminant under its physical and operational design. Any physical or operational limit on the capacity of the stationary source to emit an air contaminant, including air pollution control equipment and restrictions on the hours of operation or the type or amount of material combusted, stored, or processed, shall be treated as part of its design only if the limit, or the effect it would have on emissions, is legally enforceable.

Secondary emissions shall not count in determining the "potential to emit" of a stationary source. For hazardous air pollutants that have been listed pursuant to section 112(b) of the clean air act, quantifiable fugitive emissions shall be included in determining the potential to emit of any stationary source. For all other air contaminants, quantifiable fugitive emissions shall be included in determining the "potential to emit" of a stationary source only if the stationary source belongs to 1 of the following categories:

- (i) Coal cleaning plants that have thermal dryers.
- (ii) Kraft pulp mills.
- (iii) Portland cement plants.
- (iv) Primary zinc smelters.
- (v) Iron and steel mills.
- (vi) Primary aluminum ore reduction plants.
- (vii) Primary copper smelters.
- (viii) Municipal incinerators capable of charging more than 50 tons of refuse per day.
- (ix) Hydrofluoric, sulfuric, or nitric acid plants.
- (x) Petroleum refineries.
- (xi) Lime plants.
- (xii) Phosphate rock processing plants.
- (xiii) Coke oven batteries.
- (xiv) Sulfur recovery plants.
- (xv) Carbon black plants that have a furnace process.
- (xvi) Primary lead smelters.
- (xvii) Fuel conversion plants.
- (xviii) Sintering plants.
- (xix) Secondary metal production plants.
- (xx) Chemical process plants. The term chemical process plant shall not include ethanol production facilities that produce ethanol by natural fermentation included in North American industrial classification system codes 325193 or 312140.
- (xxi) Fossil fuel boilers (or combination thereof) totaling more than 250,000,000 Btu per hour heat input.
- (xxii) Petroleum storage and transfer units that have a total storage capacity of more than 300,000 barrels or petroleum storage vessels that have a capacity of more than 40,000 gallons.
- (xxiii) Taconite ore processing plants.
- (xxiv) Glass-fiber processing plants.
- (xxv) Charcoal production plants.
- (xxvi) Fossil fuel-fired steam electric plants of more than 250,000,000 Btu per hour heat input.
- (xxvii) Asphalt concrete plants.
- (xxviii) Secondary lead smelters and refineries.
- (xxix) Sewage treatment plants.
- (xxx) Phosphate fertilizer plants.
- (xxxi) Ferroalloy production plants.
- (xxxii) Grain elevators.
- (xxxiii) Stationary gas turbines.
- (xxxiv) Stationary sources that are subject to the federal national emission standards for hazardous air pollutants for the following materials:
 - (A) Asbestos.
 - (B) Beryllium.
 - (C) Mercury.

(D) Vinyl chloride.

R 336.1205 Permit to install; approval.

To view this rule go to www.michigan.gov/air (select the “News and Info” tab then “State Air Laws and Rules” then “Air Pollution Control Rules”). This rule is found in Part 2 of the Michigan Air Pollution Control Rules.

R 336.1209 Use of old permits to limit potential to emit.

Rule 209. (1) A person may use a permit to install or a permit to operate issued before May 6, 1980, or a Wayne county permit issued before a delegation of authority to Wayne county pursuant to section 14f of the act, to limit the potential to emit of a stationary source to a quantity less than the amount which would cause the stationary source to be subject to the requirements of R 336.1210 by complying with the requirements of subrule (2) of this rule, if the permit meets both of the following requirements:

(a) The permit contains emission limits that are less than the maximum emissions of the process or process equipment operating at full design capacity without air pollution control equipment, and the permit contains a production or operational limit consistent with the requirements of R 336.1205(1)(a).

(b) The potential to emit of the stationary source, including the emissions authorized by the permit, is less than the quantity of emissions that would cause the stationary source to be considered a major source pursuant to R 336.1211(1)(a).

(2) Except as provided by subrule (3) of this rule, a person shall meet both of the following requirements to use a permit to install or permit to operate issued before May 6, 1980, or a Wayne county permit issued before a delegation of authority to Wayne county pursuant to section 14f of the act, to limit the potential to emit of a stationary source:

(a) Submit a written notice to the department, on a form provided by the department, of the intent that the terms and conditions of the permit to install, permit to operate, or the Wayne county permit be used to limit the potential to emit of the stationary source under the provisions of this rule. The written notice shall include a certification signed by the person that the stationary source, process, or process equipment is in full compliance with the permit to install, permit to operate, or the Wayne county permit.

(b) Maintain records, conduct monitoring, and submit reports as required by the permit and as required pursuant to any applicable requirement to show that the stationary source, process, or process equipment is operating in compliance with the terms and conditions of the permit and any applicable requirements.

(3) A person need not notify the department pursuant to subrule (2)(a) of this rule if the potential to emit of the stationary source, including the emissions authorized by the permit to install or permit to operate issued before May 6, 1980, or the Wayne county permit issued before a delegation of authority to Wayne county pursuant to section 14f of the act, is less than 50% of the quantity that would cause the stationary source to be considered a major source pursuant to R 336.1211(1)(a).

R 336.1278 Exclusion from exemption.

Rule 278. (1) The exemptions specified in R 336.1280 to R 336.1290 do not apply to either of the following:

(a) Any activity that is subject to prevention of significant deterioration of air quality regulations or new source review for major sources in nonattainment areas regulations.

(b) Any activity that results in an increase in actual emissions greater than the significance levels defined in R 336.1119. For the purpose of this rule, "activity" means the concurrent and related installation, construction, reconstruction, relocation, or modification of any process or process equipment.

(2) The exemptions specified in R 336.1280 to R 336.1290 do not apply to the construction of a new major source of hazardous air pollutants or reconstruction of a major source of hazardous air pollutants, as defined in and subject to 40 C.F.R. §63.2 and §63.5(b)(3), national emission standards for hazardous air pollutants, adopted by reference in R 336.1299.

(3) The exemptions specified in R 336.1280 to R 336.1290 do not apply to a construction or modification as defined in and subject to 40 C.F.R. part 61, national emission standards for hazardous air pollutants, adopted by reference in R 336.1299.

(4) The exemptions in R 336.1280 to R 336.1290 apply to the requirement to obtain a permit to install only and do not exempt any source from complying with any other applicable requirement or existing permit limitation.

R 336.1278a Scope of permit exemptions.

Rule 278a. (1) To be eligible for a specific exemption listed in R 336.1280 through R 336.1290, any person owning or operating an exempt process or exempt process equipment shall be able to provide information demonstrating the applicability of the exemption. The demonstration shall be provided within 30 days of a written request from the department. The demonstration may include the following information:

- (a) A description of the exempt process or process equipment, including the date of installation.
- (b) The specific exemption being used by the process or process equipment.
- (c) An analysis demonstrating that R 336.1278 does not apply to the process or process equipment.

(2) The records required by this rule shall be provided in addition to any other records required within a specific exemption.

R 336.1280 - R 336.1290 Permit to install exemptions

To view these rules go to www.michigan.gov/air (select the “News and Info” tab then “State Air Laws and Rules” then “Part 2 Exemptions”). These rules are found in Part 2 of the Michigan Air Pollution Control Rules.

R 336.1287 Permit to install exemptions; surface coating equipment.

Rule 287. The requirement of R 336.1201(1) to obtain a permit to install does not apply to any of the following:

- (a) An adhesive coating line which has an application rate of less than 2 gallons per day and which has emissions that are released only into the general in-plant environment.
- (b) A surface coating process that uses only hand-held aerosol spray cans, including the puncturing and disposing of the spray cans.
- (c) A surface coating line if all of the following conditions are met:
 - (i) The coating use rate is not more than 200 gallons, as applied, minus water, per month.
 - (ii) Any exhaust system that serves only coating spray equipment is supplied with a properly installed and operating particulate control system.
 - (iii) Monthly coating use records are maintained on file for the most recent 2-year period and are made available to the air quality division upon request.
- (d) A powder coating booth that has an appropriately designed and operated particulate control system and associated ovens.
- (e) A silkscreen process.
- (f) Replacement of waterwash control in a paint spray booth with dry filter control.
- (g) Adding dry filters to paint spray booths.
- (h) Replacement of a coating applicator system with a coating applicator system that has an equivalent or higher design transfer efficiency, unless the change is specifically prohibited by a permit condition.
- (i) Equipment that is used for the application of a hot melt adhesive.
- (j) Portable equipment that is used for on-site nonproduction painting.
- (k) Mixing, blending, or metering operations associated with a surface coating line.

R 336.1331 Emission of Particulate Matter

To view this rule go to www.michigan.gov/air (select the “News and Info” tab then “State Air Laws and Rules” then “Air Pollution Control Rules”). This rule is found in Part 3 of the Michigan Air Pollution Control Rules.

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) 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 the halogenated solvent cleaner national emission standards for hazardous air pollutants (1995), which are adopted by reference in R 336.1651.

R 336.1612 Existing open top vapor degreasers.

Rule 612. (1) After June 30, 1980, it is unlawful for a person to operate an existing open top vapor degreaser unless all of the provisions of the following subrules are met or unless an equivalent control method is approved by the department.

(2) It is unlawful for a person to 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 be closed at all times, except when processing workloads through the degreaser.

(b) A procedure shall 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 not occupy more than 1/2 of the degreaser's open top area.

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

(e) Organic solvent leaks shall be 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 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 the halogenated solvent cleaner national emission standards for hazardous air pollutants (1995), which are adopted by reference in R 336.1651.

R 336.1621 Emission of volatile organic compounds from existing metallic surface coating lines

To view this rule go to www.michigan.gov/air (select the “News and Info” tab then “State Air Laws and Rules” then “Air Pollution Control Rules”). This rule is found in Part 6 of the Michigan Air Pollution Control Rules.

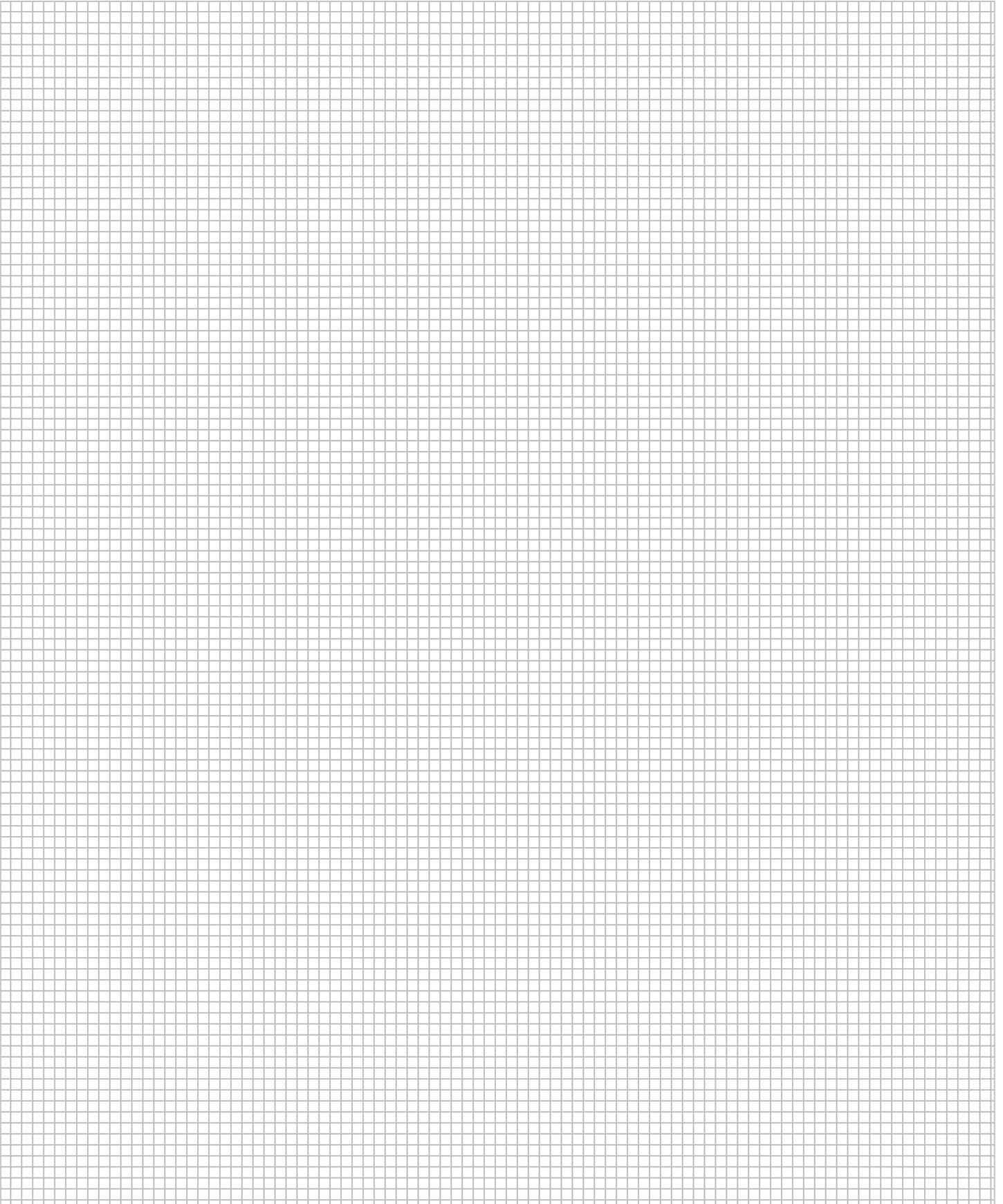
R 336.1708 New open top vapor degreasers

To view this rule go to www.michigan.gov/air (select the “News and Info” tab then “State Air Laws and Rules” then “Air Pollution Control Rules”). This rule is found in Part 7 of the Michigan Air Pollution Control Rules.

APPENDIX B

Potential to Emit Worksheets

SITE DIAGRAM



PTE SUMMARY TABLE

Emission Source	Description	Permit Status	Legally Enforceable Limitation	Calculation Method
		<input type="checkbox"/> Permitted: PTI # _____ <input type="checkbox"/> Grandfathered: ___/___/___ <input type="checkbox"/> Exempt: R 336. _____		
		<input type="checkbox"/> Permitted: PTI # _____ <input type="checkbox"/> Grandfathered: ___/___/___ <input type="checkbox"/> Exempt: R 336. _____		
		<input type="checkbox"/> Permitted: PTI # _____ <input type="checkbox"/> Grandfathered: ___/___/___ <input type="checkbox"/> Exempt: R 336. _____		
		<input type="checkbox"/> Permitted: PTI # _____ <input type="checkbox"/> Grandfathered: ___/___/___ <input type="checkbox"/> Exempt: R 336. _____		
		<input type="checkbox"/> Permitted: PTI # _____ <input type="checkbox"/> Grandfathered: ___/___/___ <input type="checkbox"/> Exempt: R 336. _____		
		<input type="checkbox"/> Permitted: PTI # _____ <input type="checkbox"/> Grandfathered: ___/___/___ <input type="checkbox"/> Exempt: R 336. _____		
		<input type="checkbox"/> Permitted: PTI # _____ <input type="checkbox"/> Grandfathered: ___/___/___ <input type="checkbox"/> Exempt: R 336. _____		
		<input type="checkbox"/> Permitted: PTI # _____ <input type="checkbox"/> Grandfathered: ___/___/___ <input type="checkbox"/> Exempt: R 336. _____		
		<input type="checkbox"/> Permitted: PTI # _____ <input type="checkbox"/> Grandfathered: ___/___/___ <input type="checkbox"/> Exempt: R 336. _____		
		<input type="checkbox"/> Permitted: PTI # _____ <input type="checkbox"/> Grandfathered: ___/___/___ <input type="checkbox"/> Exempt: R 336. _____		
		<input type="checkbox"/> Permitted: PTI # _____ <input type="checkbox"/> Grandfathered: ___/___/___ <input type="checkbox"/> Exempt: R 336. _____		

APPENDIX C

Permit to Install Application

**PERMIT TO INSTALL APPLICATION**

For authority to install, construct, reconstruct, relocate, or modify process, fuel-burning or refuse burning equipment and/or control equipment. Permits to install are required by administrative rules pursuant to Section 5505 of 1994 PA 451, as amended.

FOR DEQ USE ONLY

APPLICATION NUMBER

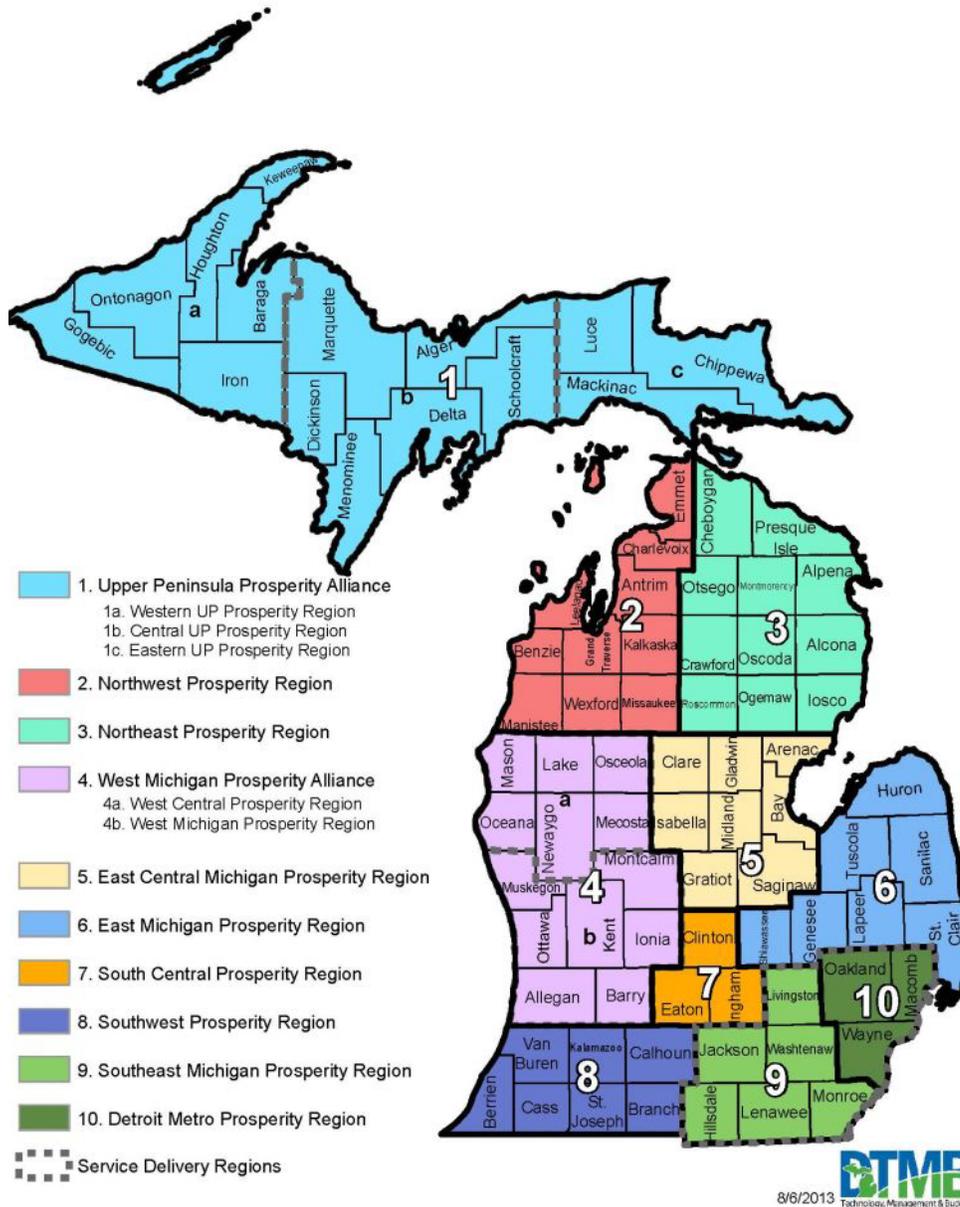
Please type or print clearly. The "Application Instructions" and "Information Required for an Administratively Complete Permit to Install Application" are available on the Air Quality Division (AQD) Permit Web Page at <http://www.deq.state.mi.us/aps>. Please call the AQD at 517-373-7023 if you have not been contacted within 15 days of your application submittal.

1. FACILITY CODES: State Registration Number (SRN) and North American Industry Classification System (NAICS)			
SRN	<input type="text"/>	NAICS	<input type="text"/>
2. APPLICANT NAME: (Business License Name of Corporation, Partnership, Individual Owner, Government Agency)			
3. APPLICANT ADDRESS: (Number and Street)			MAIL CODE:
CITY: (City, Village or Township)	STATE:	ZIP CODE:	COUNTY:
4. EQUIPMENT OR PROCESS LOCATION: (Number and Street – if different than Item 3)			
CITY: (City, Village or Township)	ZIP CODE:	COUNTY:	
5. GENERAL NATURE OF BUSINESS:			
6. EQUIPMENT OR PROCESS DESCRIPTION: (A Description MUST Be Provided Here. Include Emission Unit IDs. Attach additional sheets if necessary; number and date each page of the submittal.)			
7. REASON FOR APPLICATION: (Check all that apply.)			
<input type="checkbox"/> INSTALLATION / CONSTRUCTION OF NEW EQUIPMENT OR PROCESS			
<input type="checkbox"/> RECONSTRUCTION / MODIFICATION / RELOCATION OF EXISTING EQUIPMENT OR PROCESS – DATE INSTALLED:			
<input type="checkbox"/> OTHER – DESCRIBE			
8. IF THE EQUIPMENT OR PROCESS THAT WILL BE COVERED BY THIS PERMIT TO INSTALL (PTI) IS CURRENTLY COVERED BY ANY ACTIVE PERMITS, LIST THE PTI NUMBER(S):			
9. DOES THIS FACILITY HAVE AN EXISTING RENEWABLE OPERATING PERMIT (ROP)? <input type="checkbox"/> NOT APPLICABLE <input type="checkbox"/> PENDING APPLICATION <input type="checkbox"/> YES			
PENDING APPLICATION OR ROP NUMBER:			
10. AUTHORIZED EMPLOYEE:	TITLE:	PHONE NUMBER: (Include Area Code)	
SIGNATURE:	DATE:	E-MAIL ADDRESS:	
11. CONTACT: (If different than Authorized Employee. The person to contact with questions regarding this application)			PHONE NUMBER: (Include Area Code)
CONTACT AFFILIATION:		E-MAIL ADDRESS:	
12. IS THE CONTACT PERSON AUTHORIZED TO NEGOTIATE THE TERMS AND CONDITIONS OF THE PERMIT TO INSTALL? <input type="checkbox"/> YES <input type="checkbox"/> NO			
FOR DEQ USE ONLY - DO NOT WRITE BELOW			
DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203:			
DATE PERMIT TO INSTALL APPROVED:	SIGNATURE:		
DATE APPLICATION / PTI VOIDED:	SIGNATURE:		
DATE APPLICATION DENIED:	SIGNATURE:		
A PERMIT CERTIFICATE WILL BE ISSUED UPON APPROVAL OF A PERMIT TO INSTALL			

APPENDIX D

MDEQ District Offices

State of Michigan Prosperity Regions



8/6/2013 DTMB Technology, Management & Budget

DEQ DISTRICT OFFICES

Region 1 - Upper Peninsula District Office
1504 West Washington Street
Marquette, MI 49855
Phone: 906-346-8300

Region 2 - Cadillac District Office
120 West Chapin St.
Cadillac, MI 49601
Phone: 231-775-3960

Region 3 - Gaylord Field Office
2100 West M-32
Gaylord, MI 49735
Phone: 989-731-4920

Region 4 - Grand Rapids District Office
350 Ottawa Avenue, NW, Unit 10
Grand Rapids, MI 49503-2341
Phone: 616-356-0500

Regions 5 & 6 - Saginaw Bay District Office
401 Ketchum Street, Suite B
Bay City, MI 48708
Phone: 989-894-6200

Region 7 - Lansing District Office
Constitution Hall, 1st Floor South
525 West Allegan Street
Lansing, MI 48933
Phone: 517-284-6651

Region 8 - Kalamazoo District Office
7953 Adobe Road
Kalamazoo, MI 49009-5025
Phone: 269-567-3500

Region 9 - Jackson District Office
301 East Louis Glick Highway
Jackson, MI 49201-1556
Phone: 517-780-7690

Region 10 - SE Michigan District Office
27700 Donald Court
Warren, MI 48092-2793
Phone: 586-753-3700

Detroit Field Office
Cadillac Place
3058 W. Grand Blvd., Ste. 2-300
Detroit, MI 48202
Phone: 313-456-4700

DEQ LANSING HEADQUARTERS

Michigan Department of Environmental Quality

Constitutional Hall
525 W. Allegan Street
P.O. Box 30473
Lansing, MI 48909-7973
800-662-8278



DEQ DISTRICT OFFICES

Upper Peninsula District

1504 W. Washington St.
Marquette, MI 49855
906-228-4853
Counties: Entire Upper Peninsula

Cadillac District

120 W Chapin Street
Cadillac, MI 49601-2158
231-775-3960
Counties: Benzie, Grand Traverse, Kalkaska, Lake, Leelanau, Manistee, Mason, Missaukee, Osceola, Wexford

Gaylord Office

2100 West M-32
Gaylord, MI 49735-9282
989-731-4920
Counties: Alcona, Alpena, Antrim, Charlevoix, Cheboygan, Crawford, Emmet, Montmorency, Oscoda, Otsego, Presque Isle, Roscommon

Saginaw Bay District

Saginaw Bay District Headquarters
401 Ketchum St., Ste. B
Bay City, MI 48708
989-894-6200
Counties: Arenac, Bay, Clare, Gladwin, Huron, Iosco, Isabella, Midland, Ogemaw, Saginaw, Sanilac, Tuscola

Grand Rapids District

350 Ottawa NW
Grand Rapids, MI 49503
616-356-0500
Counties: Barry, Ionia, Kent, Mecosta, Montcalm, Muskegon, Newaygo, Oceana, Ottawa

DISTRICT OFFICE LOCATIONS *(continued)*

Kalamazoo District

7953 Adobe Road
Kalamazoo, MI 49009-5026
269-567-3500

Counties: Allegan, Berrien, Branch, Calhoun, Cass, Kalamazoo St. Joseph, Van Buren

Lansing District

Constitution Hall
525 W. Allegan St., 1S
P.O. Box 30242
Lansing, MI 48909-7742
517-284-6651

Counties: Clinton, Eaton, Genesee, Gratiot, Ingham, Lapeer, Livingston, Shiawassee

Jackson District

State Office Building, 4th Floor
301 E Louis B Glick Highway
Jackson, MI 49201-1556
517-780-7690

Counties: Hillsdale, Jackson, Lenawee, Monroe, Washtenaw

Southeast Michigan District

27700 Donald Court
Warren, MI 48092-2793
586-753-3700

Counties: Macomb, Oakland, St. Clair

Detroit Office

Cadillac Place, Suite 2-300
3058 West Grand Blvd.
Detroit, MI 48202-6058
313-456-4700

Counties: Wayne

APPENDIX E

Resources

The following guidance materials can be found on the MDEQ's Potential to Emit website. To access this website go to www.michigan.gov/air (select the "Permits" tab, then "Potential to Emit").

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY PTE GUIDANCE

- **Potential To Emit Workbook – A Practical Guide to Calculating and Evaluating Your Potential to Emit**
- **PTE Calculation Worksheets**
 - Boiler (Natural Gas Fired)
 - Space Heater (Natural Gas Fired)
 - Generator (Diesel)
 - Spray Paint Line
 - Oven (Natural Gas Fired)
 - Degreaser
 - Particulate Matter Sources
 - How to Calculate the HAP and VOC content of a Multi-Part Coating
- **AQD-004: Mechanisms for Limiting the Applicability of Michigan's Renewable Operating Permit Program**
- **Permit to Install Application Form**

U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) PTE GUIDANCE

- **EPA Potential to Emit: A Guide for Small Business** (October 1998)
- **Calculating Potential to Emit (PTE) for Emergency Generators.** September 26, 1995 policy memorandum from J.S. Seitz, Office of Air Quality Planning and Standards.
- **Calculating PTE and Other Guidance for Grain Handling Facilities.** November 14, 1995 policy memorandum from J.S. Seitz, Office of Air Quality Planning and Standards.
- **PTE Guidance for Specific Source Categories.** April 14, 1998 policy memorandum from J.S. Seitz, Office of Air Quality Planning and Standards, and E. Schaeffer, Office of Regulatory Enforcement.
- **Clarification of Methodology for Calculating PTE for Batch Chemical Production Operations.** August 29, 1996 policy memorandum from J.S. Seitz, Office of Air Quality Planning and Standards.
- **Definition of Regulated Air Pollutant for the Purposes of Title V.** April 1993 policy memorandum from Lydia N. Wegman, Office of Air Quality Planning and Standards.
- **PTE for MACT Standards – Guidance on Timing Issues.** May 16, 1995 policy memorandum from J.S. Seitz, Office of Air Quality Planning and Standards.
- **Guidance on the Major Source Determination for Certain Hazardous Air Pollutants.** August 14, 2000 policy memorandum from J.S. Seitz, Office of Air Quality Planning and Standards.
- **Preferred and Alternative Methods for Estimating Air Emissions from Equipment Leaks** (November 1996).
- **AP-42 Compilation of Air Pollution Emission Factors**

- **EPA's Web FIRE - Search and Retrieval of EPA Emissions Factors.** Database containing EPA's emission estimation factors for criteria and hazardous air pollutants.
- **TANKS Emission Estimation Software.** Software program that estimates volatile organic compound (VOC) and hazardous air pollutant (HAP) emissions from fixed- and floating-roof storage tanks.
- **List of Hazardous Air Pollutants**

OTHER GUIDANCE MATERIALS

- **Permit to Install – Determining Applicability Guidebook**
www.michigan.gov/air (select the “Permits” tab, then hover over the “Permits” tab, choose “Permits to Install/New Source Review (PTI/NSR)” then (Permits to Install))
- **Michigan Air Pollution Control Rules**
www.michigan.gov/air (select the “News and Info” tab, then “State Air Laws and Rules” then “Air Pollution Control Rules”)
- **PSD Workbook - A Practical Guide to Michigan's Prevention of Significant Deterioration Regulations**
www.michigan.gov/air (select the “Permits” tab, then hover over the “Permits” tab, choose “Permits to Install/New Source Review (PTI/NSR)” then “Prevention of Significant Deterioration (PSD) Workbook”)



For additional assistance contact the DEQ
Office of Environmental Assistance at 800-
662-9278.