

# Air Permitting

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# Goal

## Basic understanding of air permitting requirements:

- Types of air permits
- Who needs one?
- How to apply for one?
- How to stay in compliance?

# Handouts

# **Air Quality Compliance**

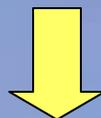
- **Who Regulates Air Quality?**
- **How is Air Quality Regulated?**
- **Air Permitting**

# Who Regulates Air Quality?

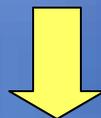
- U.S. EPA
- DEQ's Air Quality Division
- Local Government

# How is Air Quality Regulated?

Clean Air Act



Part 55, Natural Resources and  
Environmental Protection Act  
(NREPA)



Michigan Air Pollution Control  
Rules

# How is Air Quality Regulated?

## Clean Air Act

1970 Act and 1990 Amendments

40 CFR Part 50-99

# Clean Air Act

EPA projects that the Clean Air Act Amendments will prevent over 230,000 early deaths in 2020. Learn more about the [Benefits and Costs of the Clean Air Act](#).

EPA is celebrating the [40th anniversary of the Clean Air Act](#). Learn more about how this landmark law has protected America's health and environment.

The Clean Air Act is the law that defines EPA's responsibilities for protecting and improving the nation's air quality and the stratospheric ozone layer. The last major change in the law, the Clean Air Act Amendments of 1990, was enacted by Congress in 1990. Legislation passed since then has made several minor changes.

The Clean Air Act, like other laws enacted by Congress, was incorporated into the [United States Code](#) as Title 42, Chapter 85. The House of Representatives maintains a current version of the U.S. Code, which includes Clean Air Act changes enacted since 1990.

This site provides links to sections of the U.S. Code containing the amended text of the Clean Air Act. Section numbers in the U.S. Code are different than the Clean Air Act's section numbers. The table of contents below gives corresponding section numbers in the Clean Air Act (CAA) and the U.S. Code (USC). Another difference is that *titles* in the Clean Air Act correspond to *subchapters* in the U.S. Code.



## Table of Contents

- [Title I - Air Pollution Prevention and Control](#)
  - [Part A - Air Quality and Emission Limitations](#) (CAA § 101-131; USC § 7401-7431)
  - [Part B - Ozone Protection](#) (replaced by Title VI)
  - [Part C - Prevention of Significant Deterioration of Air Quality](#) (CAA § 160-169b; USC § 7470-7492)
  - [Part D - Plan Requirements for Nonattainment Areas](#) (CAA § 171-193; USC § 7501-7515)
- [Title II - Emission Standards for Moving Sources](#)
  - [Part A - Motor Vehicle Emission and Fuel Standards](#) (CAA § 201-219; USC § 7521-7554)
  - [Part B - Aircraft Emission Standards](#) (CAA § 231-234; USC § 7571-7574)
  - [Part C - Clean Fuel Vehicles](#) (CAA § 241-250; USC § 7581-7590)
- [Title III - General](#) (CAA § 301-328; USC § 7601-7627)
- [Title IV - Acid Deposition Control](#) (CAA § 401-416; USC § 7651-7651o)
- [Title V - Permits](#) (CAA § 501-507; USC § 7661-7661f)
- [Title VI - Stratospheric Ozone Protection](#) (CAA § 601-618; USC § 7671-7671q)

## Related Documents

### Full Text of the Clean Air Act as a Single Document

- [Clean Air Act as of 2008 \(PDF\)](#) (293pp, 1.5 MB, [about PDF](#)) - This version of the Clean Air Act is provided by the U.S. Government Printing Office.

#### Clean Air Act Programs

- The Acid Rain Program
- Climate Change
- Air Pollutants
- Health and Ecosystem Protection
- Ozone Layer Protection
- Radiation
- The Clean Diesel Program
- Air Pollution Data Sources
- Technology Transfer Network (Air Quality Data)

#### Links to Regulations

- Find regulations:
  - by topic
  - by business sector
- General Information about EPA Regulatory Development
- Federal Register Notices available at Federal Register Online
- EPA posts proposed and final rules at [regulations.gov](#)
- Air & Radiation Regulations and Statutes



# Electronic Code of Federal Regulations

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**ABOUT GOVERNMENT**

-  [Ben's Guide to U.S.](#)

<i>Title</i>	<i>Volume</i>	<i>Chapter</i>	<i>Browse Parts</i>	<i>Regulatory Entity</i>
Title 40 Protection of Environment	1		<a href="#">1-49</a>	Environmental Protection Agency
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# How is Air Quality Regulated?

Part 55, Natural Resources and  
Environmental Protection Act  
(NREPA)

Michigan Air Pollution Control Rules  
(MAPC Rules)

MAPC Parts 1-19





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Why Register?

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New!

Help

## 451-1994-II-1-AIR-RESOURCES-PROTECTION-55

friendly link Printer Friendly index and updates

Search within this Statute for

**NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT (EXCERPT)**  
Act 451 of 1994  
Part 55  
AIR POLLUTION CONTROL

- Documents
- MCL Chapter Index
- Chapter 324
- Act 451 of 1994
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- 451-1994-II-1
- 451-1994-II-1-AIR-RESOURCES-PROTECTION
- 451-1994-II-1-AIR-RESOURCES-PROTECTION-55

Document	Type	Description
Section 324.5501	Section	Definitions.
Section 324.5502	Section	Issuance of permit to install or operating permit to municipal solid waste incinerator; applicability of subsection (1); municipal solid waste incinerator existing prior to June 15, 1993.
Section 324.5503	Section	Powers of department.
Section 324.5504	Section	Medical waste incineration facility; operating permit required; form and contents of application; compliance; validity and renewal of permit; review of operating permits; retrofitting facility; interim operating permit; rules; receipt of pathological or medical wastes generated off-site; records; definitions.
Section 324.5505	Section	Installation, construction, reconstruction, relocation, alteration, or modification of process or process equipment; permit to install or operate required; rules; trial operation; rules for issuance of general permit or certain exemptions; temporary locations; nonrenewable permits; failure of department to act on applications; appeal of permit actions.
Section 324.5506	Section	Operating permit.
Section 324.5507	Section	Administratively complete action; exemption from information requirements; "compliance plan" defined.
Section 324.5508	Section	"Section 112" defined; source, process, or process equipment not subject to best available control technology for toxics requirements or health based screening level requirements.
Section	Section	"Malfunction" defined; rules; prohibition; actions taken by department; enforcement; conditions for

### LEGISLATURE

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### LAWS

- Air**
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## Air Pollution Control Rules

Agency: Environmental Quality

### MICHIGAN AIR POLLUTION CONTROL RULES

The following Air Pollution Control Rules have been adopted pursuant to Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451).

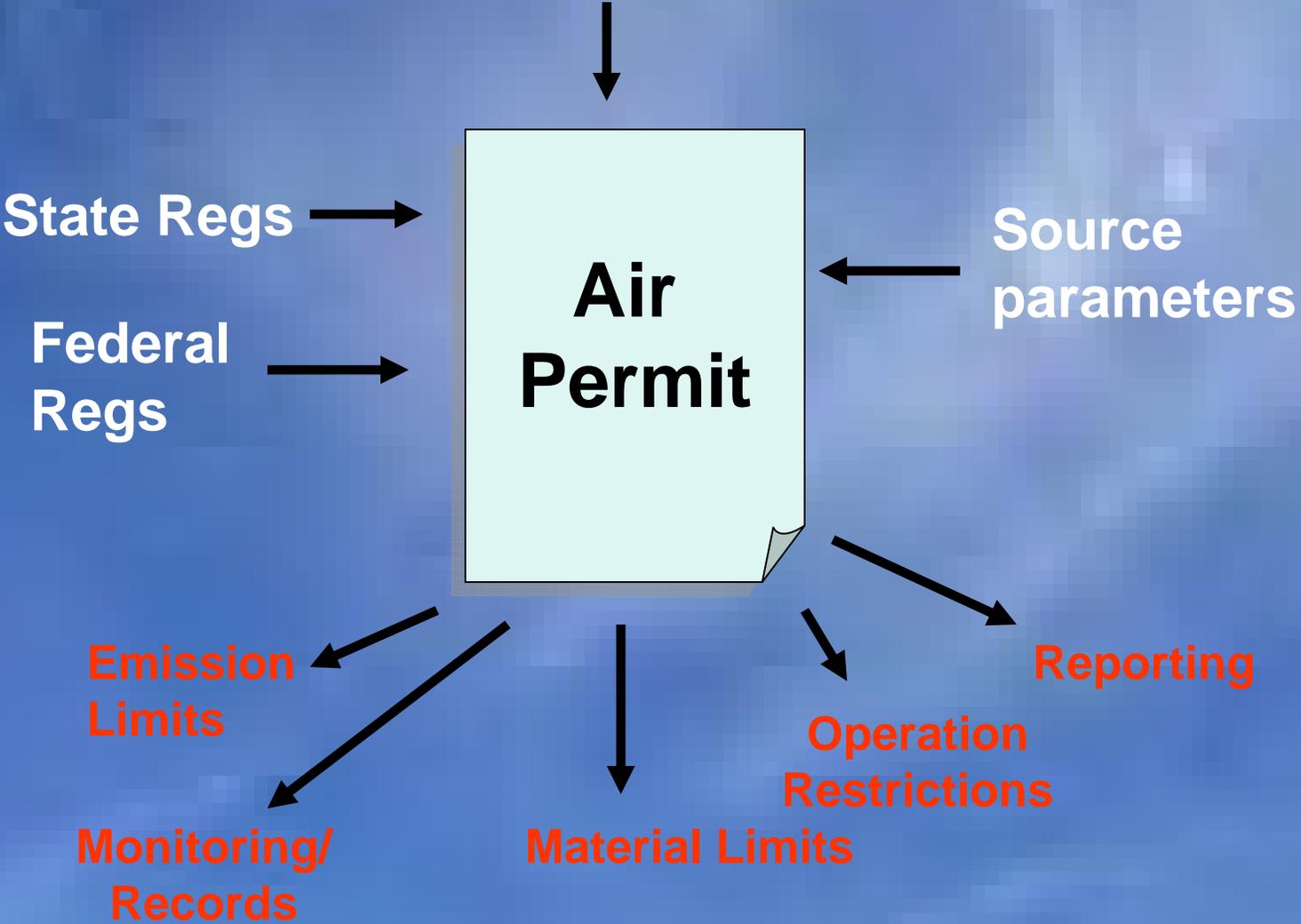
Under Michigan's uniform numbering system, each administrative rule is assigned a compilation number, or "R" number, which appears at the beginning of each rule. The number to the left of the decimal point corresponds to the chapter of the Michigan Compiled Laws containing the statutory authority pursuant to which an agency promulgates rules. All the Air Pollution Control Rules start with "R 336." Generally, the last three digits of the number correspond to the rule number (i.e., R 336.1101 is Rule 101). In Parts 10-17, there are four digit rule numbers (i.e., R 336.2101 is Rule 1101). Just subtract 1000 from the last four digits (i.e., 2101-1000=1101)

The Air Pollution Control Rules are divided into "parts." For three-digit rule numbers, the first digit of the rule number is the part number (i.e. Rule 301 is in Part 3). For four-digit rule numbers, the first two digits of the rule number are the part number (i.e., Rule 1011 is in Part 10).

#### AIR POLLUTION CONTROL RULES:

- PART 1. GENERAL PROVISIONS (as amended March 28, 2008) - [Download](#)
- PART 2. AIR USE APPROVAL (as amended June 20, 2008) - [Download](#)
- PART 3. EMISSION LIMITATIONS AND PROHIBITIONS--PARTICULATE MATTER (as amended March 19, 2002) - [Download](#)
- PART 4. EMISSION LIMITATIONS AND PROHIBITIONS--SULFUR-BEARING COMPOUNDS (as amended January 31, 2008) - [Download](#)
- PART 5. EXTENSION OF SULFUR DIOXIDE COMPLIANCE DATE FOR POWER PLANTS PAST JANUARY 1, 1980 - Rescinded May 28, 1997
- PART 6. EMISSION LIMITATIONS AND PROHIBITIONS--EXISTING SOURCES OF VOLATILE ORGANIC COMPOUND EMISSIONS (as amended October 3, 2007) - [Download](#)
- PART 7. EMISSION LIMITATIONS AND PROHIBITIONS--NEW SOURCES OF VOLATILE ORGANIC COMPOUND EMISSIONS (as amended March 19, 2002) - [Download](#)
- PART 8. EMISSION LIMITATIONS AND PROHIBITIONS--OXIDES OF NITROGEN (as amended May 28, 2009) - [Download](#)
- PART 9. EMISSION LIMITATIONS AND PROHIBITIONS--MISCELLANEOUS (as amended September 11, 2008) - [Download](#)
- PART 10. INTERMITTENT TESTING AND SAMPLING (as amended October 16, 2009) - [Download](#)
- PART 11. CONTINUOUS EMISSION MONITORING (as amended October 16, 2009) - [Download](#)

# Source Information



# Types of Air Permits

- Permit to Install
- Renewable Operating Permit (Title V)

# Permit to Install

- A.K.A New Source Review Permit
- Applicable to any business regardless of size
- Pre-Construction Permit

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
AIR QUALITY DIVISION

August 1, 2008

PERMIT TO INSTALL  
No. 999-08

ISSUED TO  
Sample Corporation

LOCATED AT  
123 S. Main St  
Anytown, Michigan 48888

IN THE COUNTY OF  
Ingham

STATE REGISTRATION NUMBER  
Z9999

The Air Quality Division has approved this permit pursuant to the delegation of authority from the Michigan Department of Environmental Quality, Part 55, Air Pollution Control, of the Natural Resources Code, 1976 PA 451, as amended. This permit constitutes the permittee's authority to install the identified emission sources and to operate them in accordance with the administrative rules of the Department and the attached conditions of this permit. The permittee is hereby issued in accordance with the administrative rules of the Department and the attached conditions of this permit. The permittee is hereby issued in accordance with the administrative rules of the Department and the attached conditions of this permit.

DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULES  
7/1/2008

DATE PERMIT TO INSTALL APPROVED: 8/1/2008

DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

**Pre-construction Permit**

## **R 336.1201 Permits to install.**

Rule 201. (1) Except as allowed in R 336.1202 or R 336.1278 to R 336.1290, a person shall not install, construct, reconstruct, relocate, or modify any process or process equipment, including control equipment pertaining thereto, which may emit any of the following, unless a permit to install which authorizes such action is issued by the department:

(a) Any air pollutant regulated by title I of the clean air act and its associated rules, including 40 C.F.R. §§51.165 and 52.21.

(b) Any air contaminant.

A person who plans to install, construct, reconstruct, relocate, or modify any such

(a) To authorize a person to install, construct, reconstruct, relocate, or modify a process or process equipment pursuant to subrule (1)(a) of this rule.

(b) To establish limits on potential to emit. The limits shall comply with the provisions of R 336.1205(1)(a).

(c) To consolidate terms and conditions from existing permits to install within a renewable operating permit pursuant to R 336.1214a.

(d) To authorize a person to install, construct, reconstruct, relocate, or modify process or process equipment solely pursuant to subrule (1)(b) of this rule or to consolidate state-only enforceable conditions within a renewable operating permit when the renewable operating permit is issued pursuant to R 336.1214. This permit may establish terms and conditions that are legally enforceable solely pursuant to R 336.1224 to R 336.1232, R 336.1901, or other regulations that are not federally enforceable. Each condition in a permit issued pursuant to this subrule shall be identified as state-only enforceable.

(3) A permit to install may be approved subject to any condition, specified in writing, that is reasonably necessary to assure compliance with all applicable requirements.

(4) If a person decides not to install, construct, reconstruct, relocate, or modify the process or process equipment as authorized by a permit to install, then the person, or the authorized agent pursuant to R 336.1204, shall notify the department, in writing, and upon receipt of the notification by the department, the permit to install shall become void. If the installation, reconstruction, or relocation of the equipment, for which a permit has been issued, has not commenced within, or has been interrupted for, 18 months, then the permit to install shall become void, unless otherwise authorized by the department as a condition of the permit to install.

(5) Upon issuance of a permit to install, the emissions from the process or process equipment allowed by the permit to install shall be included in the potential to emit of the stationary source. Upon the physical removal of the process or process equipment, or

# **R 336.1201**

# **Rule 201**

# When is a Permit to Install Required?

- If a process or activity emits an air contaminant

*Unless, the process or activity is specifically exempted in rules*

# Common Air Emission Sources

- Boilers



- Standby Generators



- Degreasers



- Bulb crushers



- Paint Operations



# Do I Need an Air Permit?

## **PERMIT TO INSTALL EXEMPTION HANDBOOK**

Michigan Air Pollution Control Rules  
R336.1278 – R 336.1290 (Rules 278 – 290)



December 2005



**R 336.1282 Permit to install exemptions; furnaces, ovens, and heaters.**

Rule 282. The requirement of R 336.1201(1) to obtain a permit to install does not apply to any of the following:

(a) Any of the following processes or process equipment which are electrically heated or which fire sweet gas fuel or no. 1 or no. 2 fuel oil at a maximum total heat input rate of not more than 10,000,000 Btu per hour:

- (i) Furnaces for heat treating glass or metals, the use of which does not involve molten materials, oil-coated parts, or oil quenching.
- (ii) Porcelain enameling furnaces or porcelain enameling drying ovens.
- (iii) Kilns for firing ceramic ware.
- (iv) Crucible furnaces, pot furnaces, or induction melting and holding furnaces that have a capacity of 1,000 pounds or less each, in which sweating or distilling is not conducted and in which fluxing is not conducted utilizing free chlorine, chloride or fluoride derivatives, or ammonium compounds.
- (v) Bakery ovens and confection cookers where the products are edible and intended for human consumption.
- (vi) Electric resistance melting and holding furnaces that have a capacity of not more than 6,000 pounds per batch and 16,000 pounds per day, which melt only clean charge. Fluxing that results in the emission of any hazardous air pollutant shall not occur in the furnace.

(b) Fuel-burning equipment which is used for space heating, service water heating, electric power generation, oil and gas production or processing, or indirect heating and which burns only the following fuels:

- (i) Sweet natural gas, synthetic gas, liquefied petroleum gas, or a combination thereof and the equipment has a rated heat input capacity of not more than 50,000,000 Btu per hour.
- (ii) Number 1 fuel oil, number 2 fuel oil, distillate oil, the gaseous fuels specified in paragraph (i) of this subdivision, or a combination thereof which contains not more than 0.40% sulfur by weight and the equipment has a rated heat input capacity of not more than 20,000,000 Btu per hour.
- (iii) Wood, wood residue, or wood waste which is not painted or treated with wood preservatives, which does not contain more than 25% plywood, chipboard, particleboard, and other types of manufactured wood products, which is not contaminated with oil or waste materials, and the equipment has a rated heat input capacity of not more than 6,000,000 Btu per hour.
- (iv) Waste oil or used oil fuels which are generated on the geographical site and the equipment has a rated heat input capacity of not more than 500,000 Btu per hour.

(c) Fuel-burning appliances which are used in a residential building with a structure that is designed and used exclusively as a dwelling for not more than five families

- (d) All residential cooking equipment.
- (e) Equipment, including smokehouses, at restaurants and other retail or institutional establishments that is used for preparing food for human consumption.
- (f) Blacksmith forges.
- (g) Sour gas-burning equipment, if the actual emission of sulfur dioxide does not exceed 1 pound per hour.



g, service water heating, electric power and which burns only the following fuels:

l gas, or a combination thereof and the 0,000 Btu per hour.

quired if:  
on Btu/hr  
n Btu/hr  
00 million



## Michigan Department of Environmental Quality Air Quality Division – Permit Section

### Applicability Criteria for Propane or Natural Gas-Fired Boilers With a Maximum Heat Input of 100 MMBtu

Boilers are used for a variety of applications such as providing process steam; providing hot water or steam for space heating; or generating high-temperature, high-pressure steam for producing electricity. Portable units are used on a temporary basis during maintenance or repairs of permanent units.

The following state and federal requirements are applicable to propane or natural gas-fired boilers with a maximum rated heat input of 100 million Btu per hour and were considered in the development of the general permit to install. These requirements are addressed in the Special Conditions of the permit.

# Standby Generators – Permits?

(g) Internal combustion engines that have less than 10,000,000 Btu/hour maximum heat input.

- Permit Required if:
    - Generator  $\geq$  10 Million Btu/hr
    - Emissions are “Significant”
- (R 336.1278(b))

*As of July 2010, the AQD determined the general permit for diesel generators does not limit NO<sub>2</sub> emissions to adequately ensure compliance with the new US EPA 1-hour NO<sub>2</sub> limit.*

(e) "**Significant**" means a rate of emissions for the following air contaminants which would equal or exceed any of the following:

- (i) Carbon monoxide - 100 tons per year.
  - (ii) Nitrogen oxides - 40 tons per year.
  - (iii) Sulfur dioxide - 40 tons per year.
  - (iv) Particulate matter - 25 tons per year.
- 

(v) PM-10 - 15 tons per year.

(vi) Volatile organic compounds - 40 tons per year.

# Degreasers/Cold Cleaners

- MAPC Rule 707
- Exemption = R 336.281(h)
- Exempt if air/vapor interface not more than than 10 ft<sup>2</sup>



Rule 707. (1) It is unlawful for a person to operate a new cold cleaner 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 a new cold cleaner using a solvent having a Reid vapor pressure of more than 0.6 psia or heated above 120 degrees Fahrenheit, unless at least 1 of the following conditions is met:

(a) The cold cleaner is designed such that the ratio of the freeboard height to the width of the cleaner is equal to or greater than 0.7.

(b) The solvent bath is covered with water if the solvent is insoluble and has a specific gravity of more than 1.0.

(c) The cold cleaner is controlled by a carbon adsorption system, condensation system, or other method of equivalent control approved by the department.

(3) It is unlawful for a person to operate a new cold cleaner unless all of the following conditions are met:

(a) A cover shall be installed and the cover shall be closed whenever parts are not being handled in the cleaner. The cover shall be mechanically assisted in any of the following situations:

(i) The Reid vapor pressure of the solvent is more than 0.3 psia.

(ii) The solvent is agitated.

(iii) The solvent is heated.

(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 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.

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

(5) The provisions of this rule do not apply to a new cold cleaner 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.



Michigan Department of Environmental Quality  
Office of Pollution Prevention and Compliance Assistance

## Fluorescent Light Drum-Top Bulb Crushers

This fact sheet summarizes the Michigan environmental regulations related to disposing fluorescent light tubes utilizing drum-top bulb crushers.

### INTRODUCTION

The use of energy-efficient, fluorescent lights results in environmental benefits by reducing energy consumption. Mercury, a toxic metal, is an essential component of all currently manufactured fluorescent lights. When these lights break, whether during storage, transport, disposal, or crushing, most of the mercury contained in the lights is released as mercury vapor. If the mercury vapor is not controlled or contained, it can be readily inhaled by individuals within close proximity. Additionally, mercury released from broken lights can be transported in the air and deposited into lakes where it can enter the food chain. Mercury in fish poses a risk to wildlife and humans that eat the fish. With regard to the fate of mercury in the environment, the Michigan Department of Environmental Quality (MDEQ) has placed a priority on identifying and eliminating sources of mercury. To reach that goal, the MDEQ developed a Mercury Strategy report which is available on-line at [www.michigan.gov/deq](http://www.michigan.gov/deq) by clicking on the word "mercury."



### REGULATIONS

#### Air Quality

The MDEQ strongly encourages the safe recycling of all spent fluorescent lights. When a company chooses to crush their spent lights for recycling, all operators of fluorescent light drum-top bulb crushers must apply for and obtain a Permit to Install (PTI) prior to installing and operating a bulb crusher. The PTI application is located on-line at [www.deq.state.mi.us/aps/appinforev.shtml](http://www.deq.state.mi.us/aps/appinforev.shtml), or go to the MDEQ web page at [www.michigan.gov/deq](http://www.michigan.gov/deq), click on "Air," "Permits," "Permits to Install," and go to "Application Form, Instructions and Guidance Documents." Additional technical information to assist with completing a PTI application can be found at [www.deq.state.mi.us/aps/downloads/permits/c-p/bulb.pdf](http://www.deq.state.mi.us/aps/downloads/permits/c-p/bulb.pdf) or follow the above directions to the "Application Form" information and select "Specific Processes/



# Painting Operations

- Exemption = R 336.1287(c)
- Air Permit Required if use  $\geq$  200 gal coating/month
- Must keep records



**RULE 287(c) PERMIT TO INSTALL EXEMPTION RECORD: SURFACE COATING EQUIPMENT**

Manufacturer (a)	Product ID Number (b)	Coating Type (c)	Coating Usage (gal) (d)	Operator's Initials (e)	Cleanup Solvent Usage (gal) (f)
Total coating used (gal) <200 gal/month				Total cleanup solvent used (gal)	

## RULE 290 PERMIT TO INSTALL EXEMPTION: SOURCES WITH LIMITED EMISSIONS RECORD

*This record is provided as a courtesy for businesses by the Michigan Department of Environmental Quality (MDEQ), Environmental Science and Services Division, Clean Air Assistance Program, and is not required to be returned or submitted to the MDEQ.*

Applicable Rule: Rule 290 of the Michigan Air Pollution Control Rules

### NOTE:

- Rule 290 of the Michigan Air Pollution Control Rules exempts an emission unit with limited emissions from having to apply for Permit to Install. Rule 201 requires sources to obtain a Permit to Install prior to the installation, construction, reconstruction, relocation, or modification of an emission unit. Sources using this exemption must not meet any of the criteria in Rule 278 and must be able to demonstrate compliance with the various emission limits contained in Rule 290.
- Utilization of this form is not the sole method of demonstrating compliance with the requirements of Rule 290, unless required by a permit such as a Renewable Operating Permit (ROP). For example, an alternative method of demonstrating compliance could be determining the emissions of air contaminants from a single unit of production and recording the number of production units generated per month.
- ROP subject sources – This document must be used to track emissions unless an alternate format has been approved by the District Supervisor or alternate format is cited in the ROP.
- An emission unit that emits an air contaminant, excluding noncarcinogenic Volatile Organic Compounds (VOCs) and noncarcinogenic, non-ozone forming materials listed in Rule 122(f), which has an Initial Threshold Screening Level (ITSL) or Initial Risk Screening Level (IRSL) less than 0.04 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) cannot use Rule 290.
- For all emission units exempt pursuant to Rule 290 that emit particulate emissions which have an ITSL equal to or less than  $2.0 \mu\text{g}/\text{m}^3$  and greater than or equal  $0.04 \mu\text{g}/\text{m}^3$ , the particulate emissions must be included in Section 2.
- For all emission units exempt pursuant to Rule 290 that emit particulate emissions which have an IRSL equal to or greater than  $0.04 \mu\text{g}/\text{m}^3$ , the particulate emissions must be included in Section 3.
- Perchloroethylene is the only non-ozone forming material listed in Rule 122(f) that is a carcinogen. Two of the stabilizers in Rule 122(f) Table 11, tertiary butyl alcohol and 1,2-butylene oxide, are carcinogenic and are ozone forming materials.
- If an emission unit is equipped with a control device (i.e., equipment that captures and/or destroys air contaminants) and the control device is not vital to production of the normal product of the process or to its normal operation, then there are two options of recording emissions in Sections 2, 3, and 4:
  1. record all uncontrolled emissions of air contaminants (i.e., all air contaminants entering the control



# Air Permit Application

- Free [www.deq.state.mi.us/aps/#PTI](http://www.deq.state.mi.us/aps/#PTI)
- Basic Source Information
  - Stack info
  - Process and site information
  - Emission estimates



# Air Permit

- Contains requirements
- Contract between state of Michigan and business

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
AIR QUALITY DIVISION

August 1, 2008

PERMIT TO INSTALL  
No. 999-08



ISSUED TO  
Sample Corporation

LOCATED AT  
123 S. Main St  
Anytown, Michigan 48888

IN THE COUNTY OF  
Ingham

STATE REGISTRATION NUMBER  
Z9999

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environmental Quality. This permit is hereby issued in accordance with and subject to Section 5505(1) of Article II, Chapter I, Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Pursuant to Air Pollution Control Rule 336.1201(1), this permit constitutes the permittee's authority to install the identified emission unit(s) in accordance with all administrative rules of the Department and the attached conditions. Operation of the emission unit(s) identified in this Permit to Install is allowed pursuant to Rule 336.1201(6).

DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203:

**7/1/2008**

DATE PERMIT TO INSTALL APPROVED: SIGNATURE:

**8/1/2008**

DATE PERMIT VOIDED: SIGNATURE:

DATE PERMIT REVOKED: SIGNATURE:





# Major Source

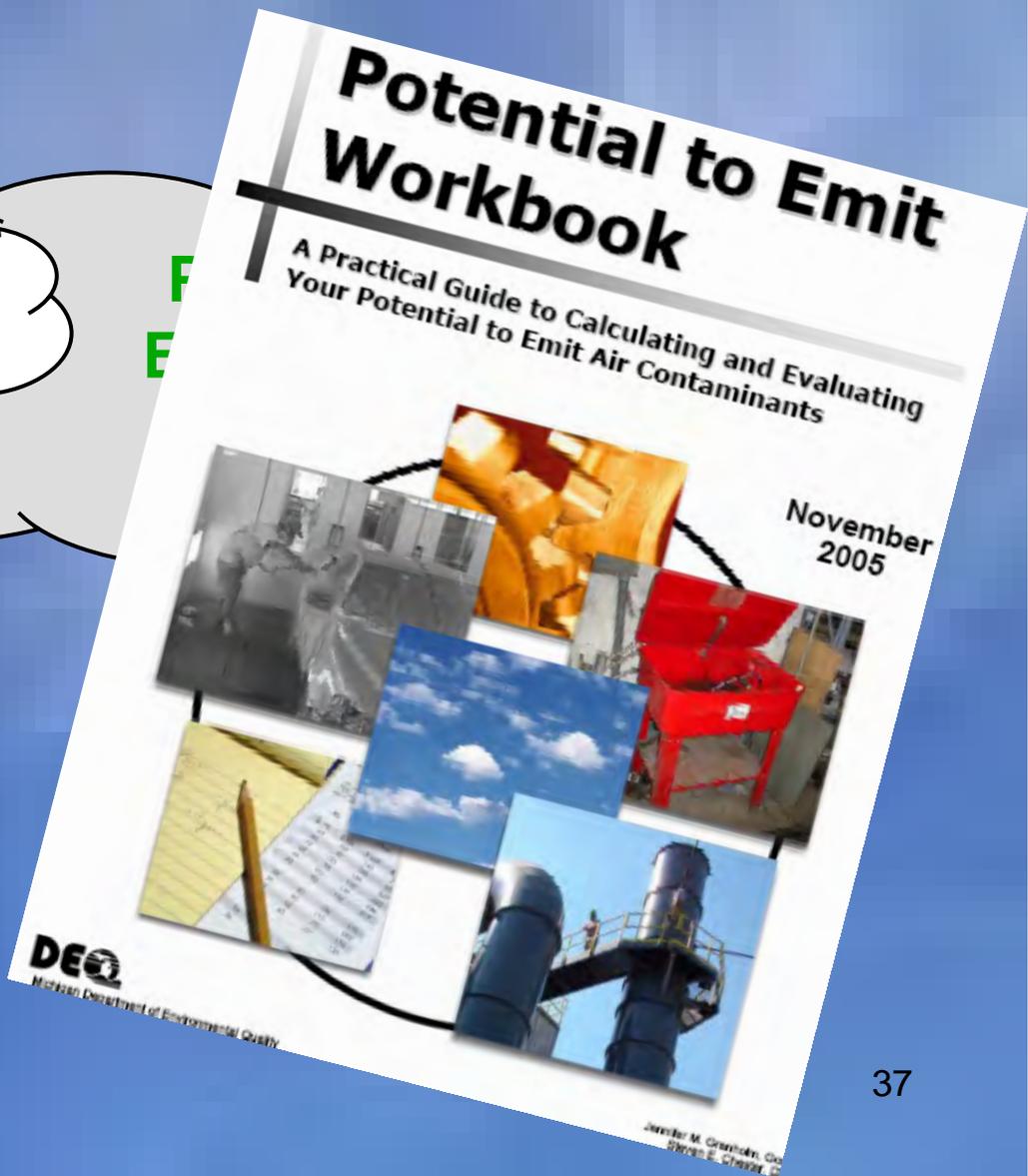
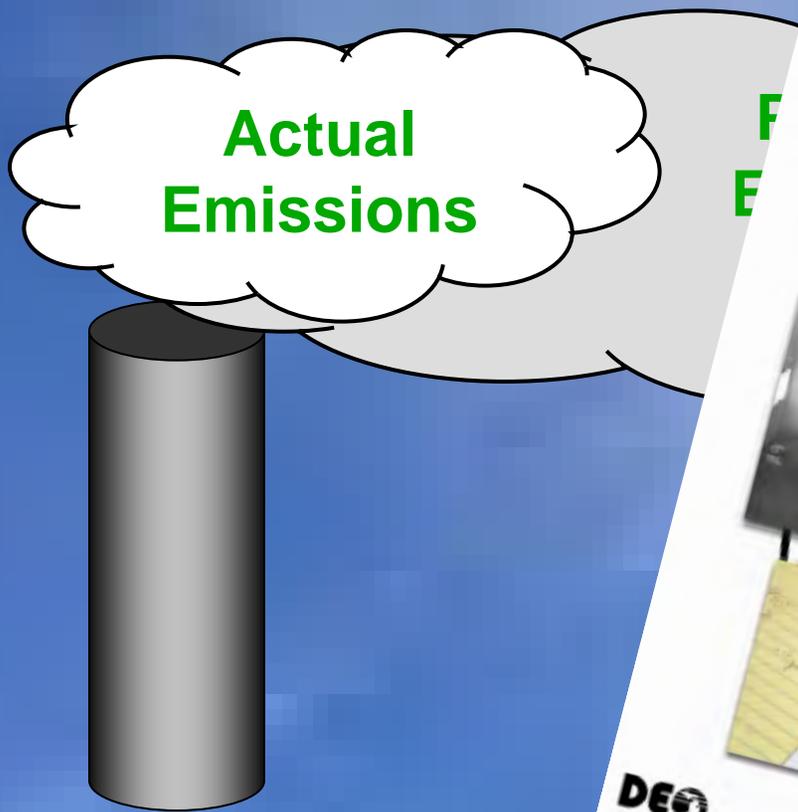
- Potential to Emit
  - $\geq 100$  tons/yr Criteria Air Pollutants
  - $\geq 10$  tons/yr single Hazardous Air Pollutant
  - $\geq 25$  tons/yr total Hazardous Air Pollutants



# Potential to Emit

- Maximum amount of air contaminants your source could emit if:
  - Operate at 100% of design capacity;
  - Operated 24hrs/day, 365 days/yr
  - Worse-case materials used or processed 100% of the time
  - No air pollution control equipment

# Potential to Emit



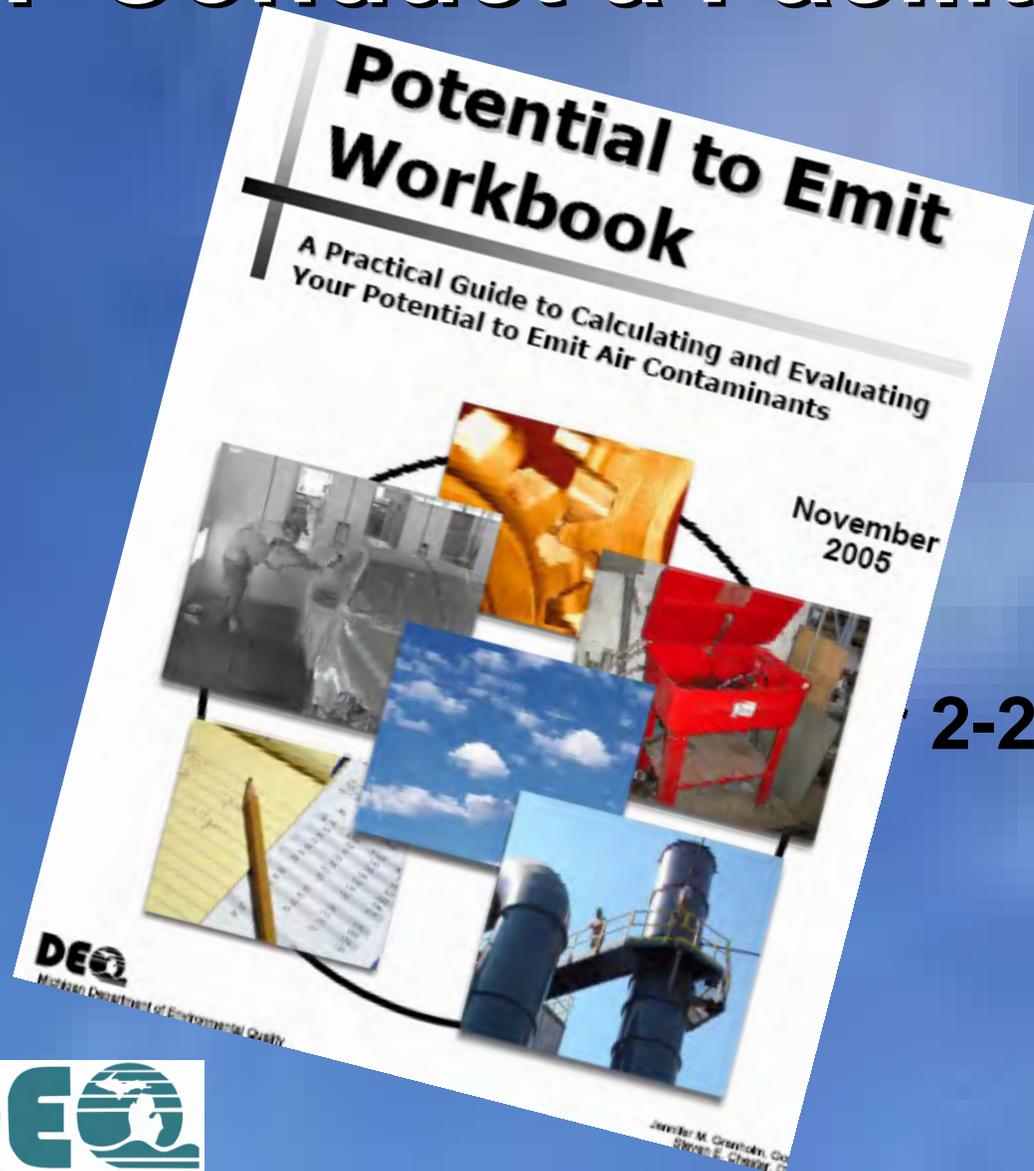
# ROP Requirements

- Apply within 12 months of becoming a major source
- Renew every 5 years
- Annual Air Quality Fee (MAERS)
- Annual Air Emissions Reporting (MAERS)
- Annual and Semi-Annual Compliance Reporting
- Deviation Reporting

# 10 Tips

## for Staying in Compliance with Air Quality Regulations

# 1. Conduct a Facility Inventory



2-2





## Sources of Air Emissions

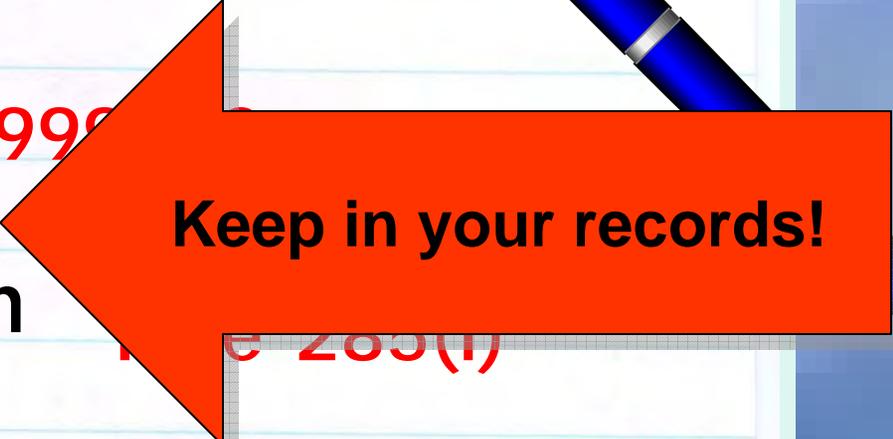
boiler PTI #999

welding station

Paint Booth 1 & 2 PTI #999-95

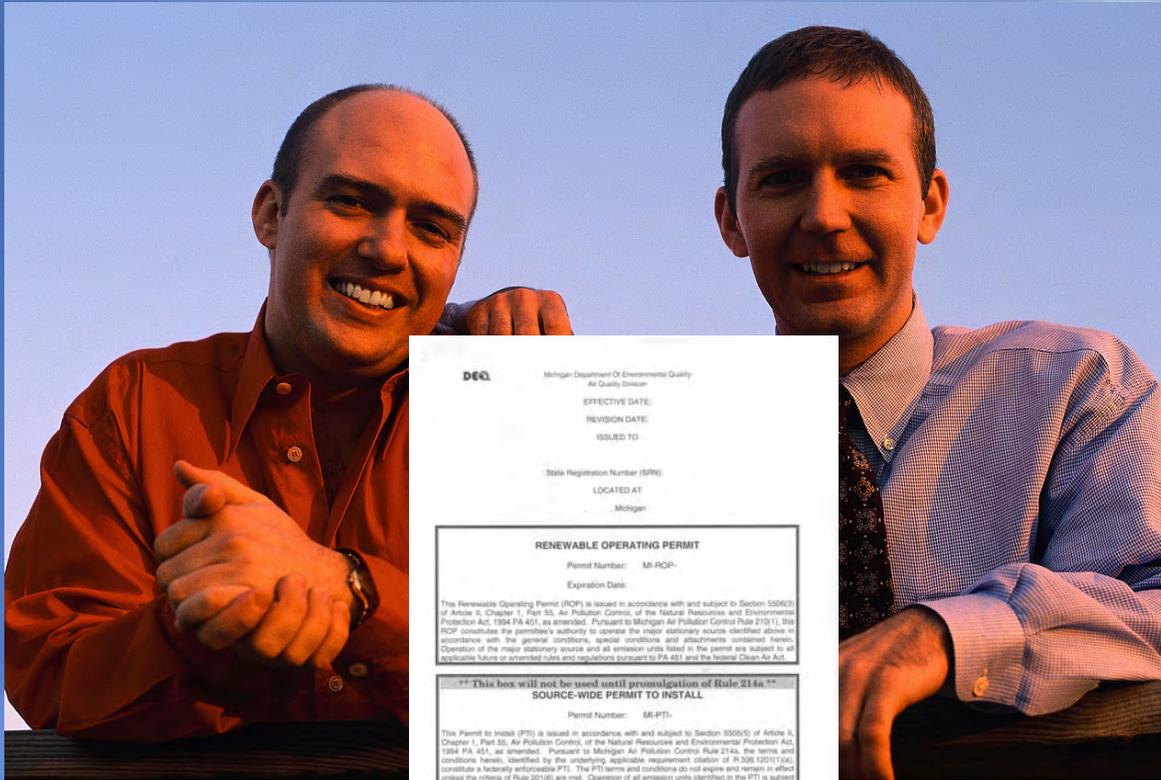
Paint Booth #3 exempt!  
Rule 287(c)

Cold cleaner exempt! Rule 281(h)



Keep in your records!

# 2. Know Your Permit and Understand Requirements



DEQ Michigan Department Of Environmental Quality  
Air Quality Division

EFFECTIVE DATE:  
REVISION DATE:  
ISSUED TO:

State Registration Number (SRN):  
LOCATED AT:  
Michigan

**RENEWABLE OPERATING PERMIT**  
Permit Number: MI-RQP-  
Expiration Date:

The Renewable Operating Permit (RQP) is issued in accordance with and subject to Section 5506(3) of Article 9, Chapter 1, Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 421, as amended. Pursuant to Michigan Air Pollution Control Rule 210(1), this RQP constitutes the permittee's authority to operate the major stationary source identified above in accordance with the general conditions, special conditions and attachments contained herein. Operation of the major stationary source and all emission units listed in the permit are subject to all applicable future or amended rules and regulations pursuant to PA 421 and the Federal Clean Air Act.

**\*\* This box will not be used until promulgation of Rule 214a. \*\***  
**SOURCE-WIDE PERMIT TO INSTALL**  
Permit Number: MI-PTI-

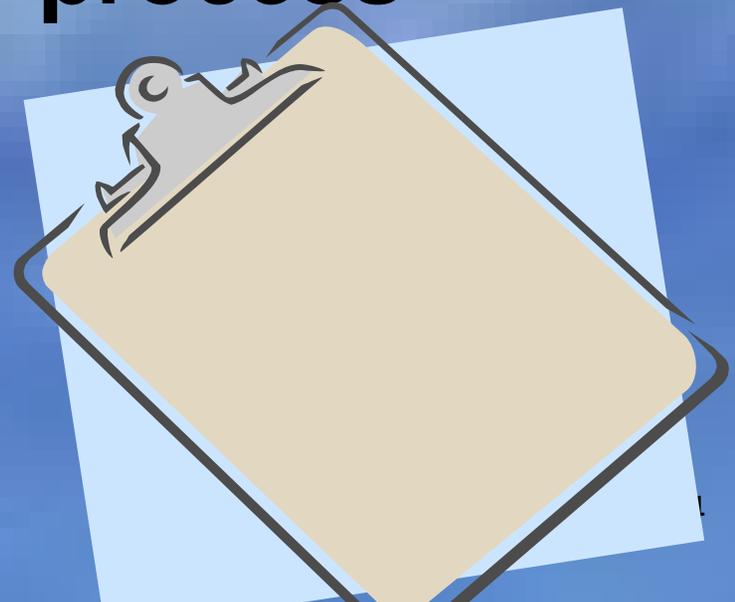
This Permit to Install (PTI) is issued in accordance with and subject to Section 5505(5) of Article 9, Chapter 1, Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 421, as amended. Pursuant to Michigan Air Pollution Control Rule 214a, the terms and conditions herein, identified by the underlying applicable requirement citation of R 306.1201(1)(a), constitute a federally enforceable PTI. The PTI terms and conditions do not expire and remain in effect unless the criteria of Rule 210(5) are met. Operation of all emission units identified in the PTI is subject to all applicable future or amended rules and regulations pursuant to PA 421 and the Federal Clean Air Act.

Michigan Department of Environmental Quality  
District Supervisor



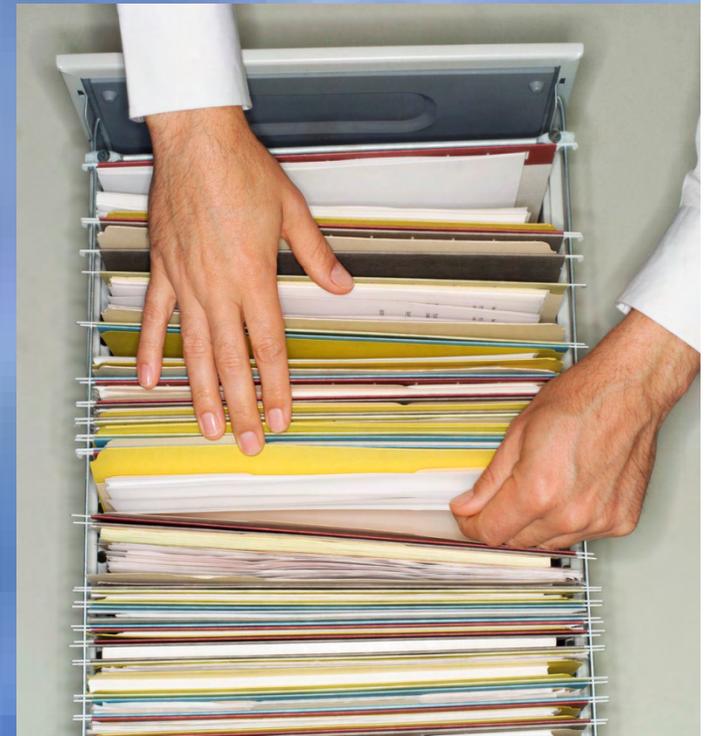
# 3. Establish Procedures

- **Monitoring procedures**
- **Recordkeeping practices**
- **Reporting schedules**
- **Internal review process**



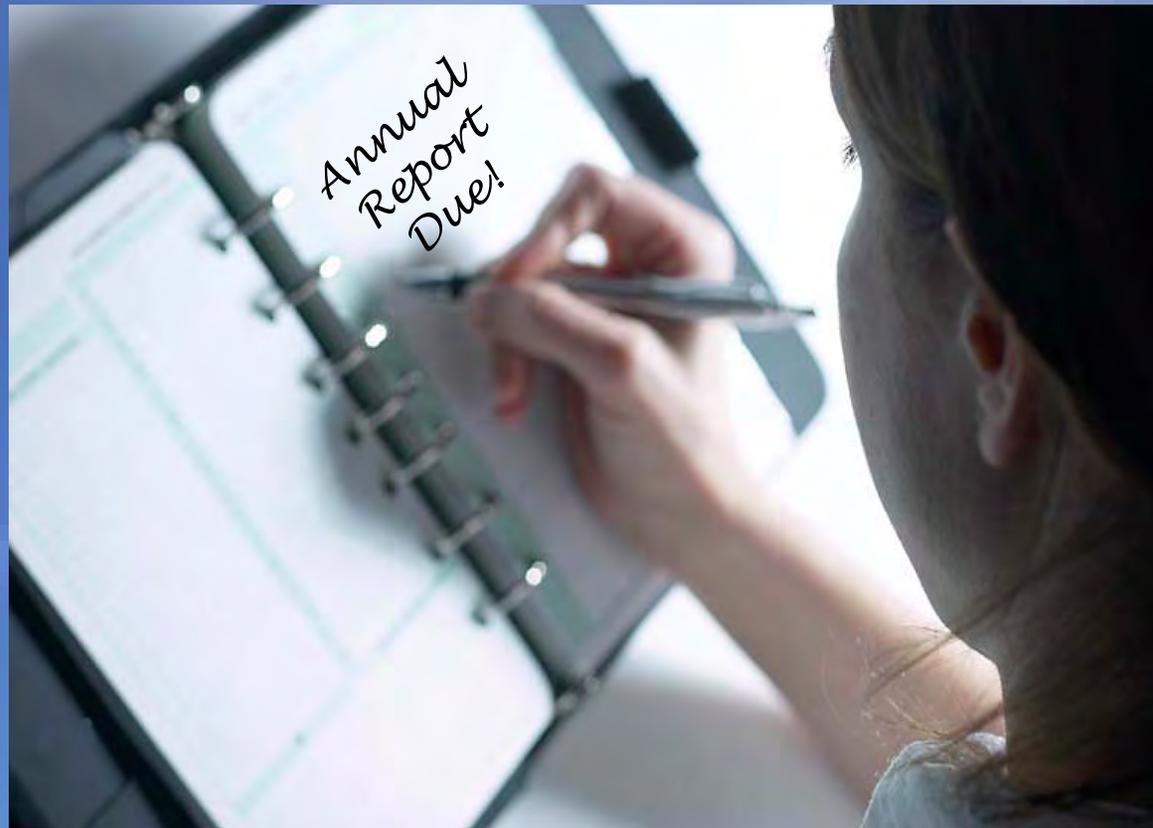
# 4. Practice Good Record Keeping

- **Keep organized**
- **Develop a retention schedule/ requirement**



# 5. Know the Reporting Deadlines

(Don't miss reporting deadlines)



# 6. Don't Recreate Records or Falsify Data

I don't have data for that day. Let's just fill it in now.



I'm not certifying that! We need to report it.

# 7. Take Immediate Action to Correct Violations

Don't wait until you get caught!

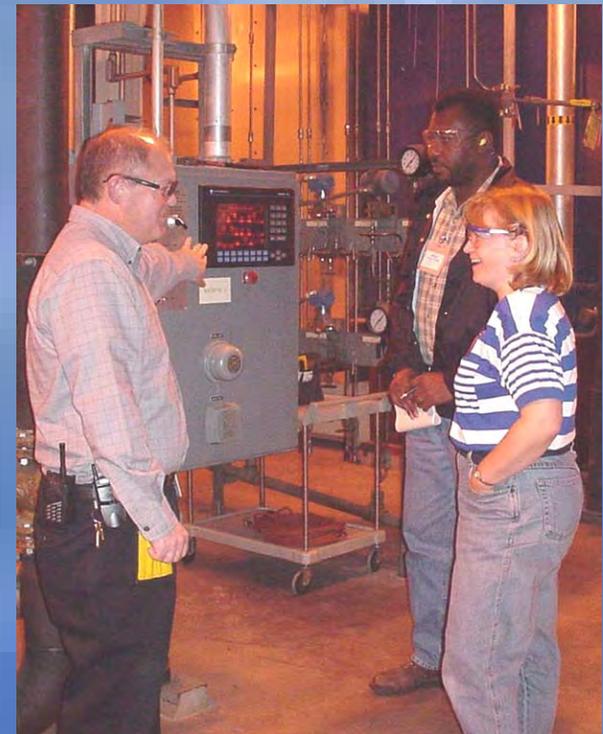


# 8. Do not ignore correspondence from the DEQ



# 9. Communicate with your Inspector

- **Ask for business cards when they visit**
- **Ask questions**



# 10. Educate Yourself

- **Understand Terminology**
- **Read DEQ Education materials**
- **Attend DEQ Workshops**
- **Keep up on Rules**



# Resources

# Web Resources

- Find Permits [www.deq.state.mi.us/aps/](http://www.deq.state.mi.us/aps/)
- Site Registry  
[www.deq.state.mi.us/SiteRegistry/](http://www.deq.state.mi.us/SiteRegistry/)
- Online Training  
[www.michigan.gov/deqworkshops](http://www.michigan.gov/deqworkshops)  
(click on “Online Training”)

# Michigan Air Permits System

Information (517) 373-7023

[Acid Rain](#) [APS Home](#) [CAIR](#) [MACT/NESHAP](#) [NOx Program](#) [Permit Spotlight](#) [PTI / NSR](#) [ROP / Title V](#)

## PERMIT SPOTLIGHT!

- [New Address to Submit ROP Rule 216 Modification Applications](#)
- [Greenhouse Gas Emission Regulations](#)
- [ROP Renewal Application](#)
- [Air Permit Application Workshops for First Time Applicants](#)
- [Consideration of Clean Coal Technology in Air Use Permitting Interested Party Letter](#)
- [Fact Sheet on Environmental Permitting of Coal Fired Power Plants in Michigan](#)
- [Issue Resolution Process Decisions, Rule 225](#)
- [Rule 225 Variance Document](#)
- [Upcoming Permit to Install and Renewable Operating Permit Workshops](#)
- [Michigan's PTI Application Review Process](#)
- [Permit to Install Determining Applicability Guidebook](#)
- [Ozone Nonattainment and New Source Review Q&A](#)

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### PERMIT TO INSTALL (PTI)

#### NEW SOURCE REVIEW (NSR)

- [NSR Public Notice Documents](#)
- [Permit Scoping Meeting \(PSM Scheduling Procedure\)](#)
- [Application Form, Instructions and Guidance Documents](#)
- [Permit Exemptions](#)
- [General Permits - Application Forms and Instructions](#)
- [Coal-Fired Power Plant Applications](#)
- [Other Applications of Interest](#)
- [NSR Pending Application Query](#)
- [Active PTIs Final Conditions](#)
- [Permit Statistics](#)
- [Clean Corporate Citizen](#)
- [Procedure for Voiding Permit to Install](#)
- [Name Change & Transfer of Ownership](#)
- [Technical Assistance Resources](#)
- [DEQ Evaluation for PTI Customer Service](#)

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### TITLE V

#### RENEWABLE OPERATING PERMITS (ROP)

- [Recent Actions - Draft, Proposed and Final Permits](#)
- [ROP Renewal Application](#)
- [Michigan's November 2010 Title V Submittal to U.S. EPA](#)
- [Initial Application Software](#)
- [Overview of the ROP Program](#)
- [Source Lists](#)
- [Environmental Assistance Program](#)
- [Program Support Information & Background](#)
- ["Life After ROP" - New application submittal address as of 2/1/12](#)
- [ROP Forms & Application Software](#)
- ["Opting Out" of Title V by Rule 208a Registration](#)

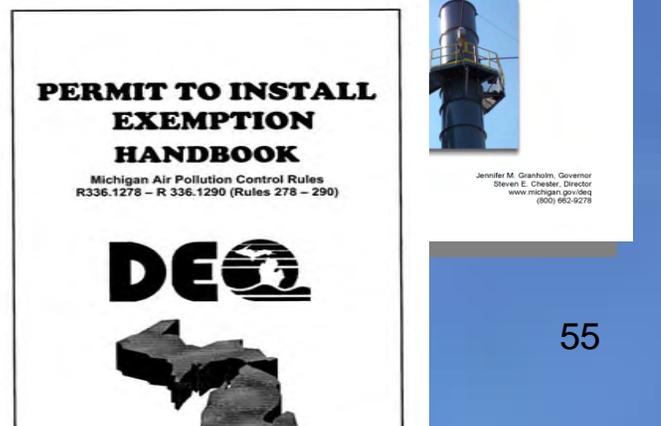
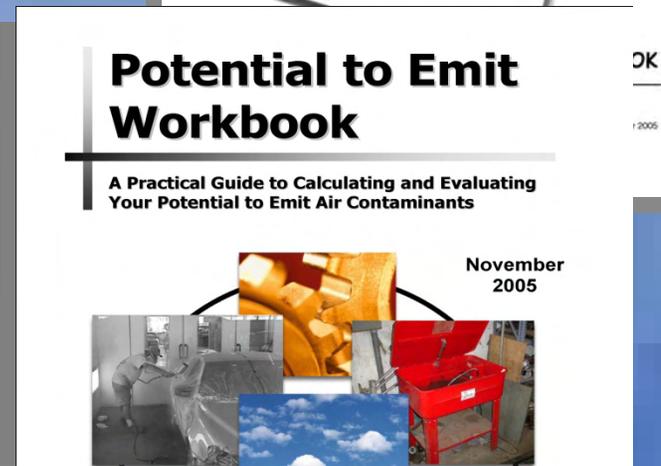
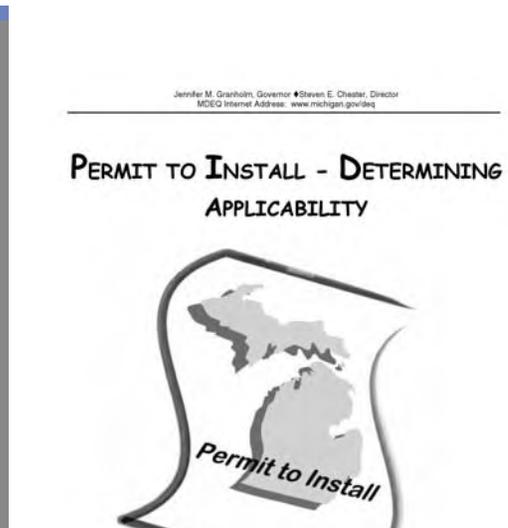
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Acid Rain (Title IV)

CAIR (Clean Air Interstate Rule) Program

# Publications

- Michigan Guide to Environmental, Health, and Safety Regulations
- Permit to Install – Determining Applicability Guidebook
- Potential to Emit Workbook
- Exemption Handbook

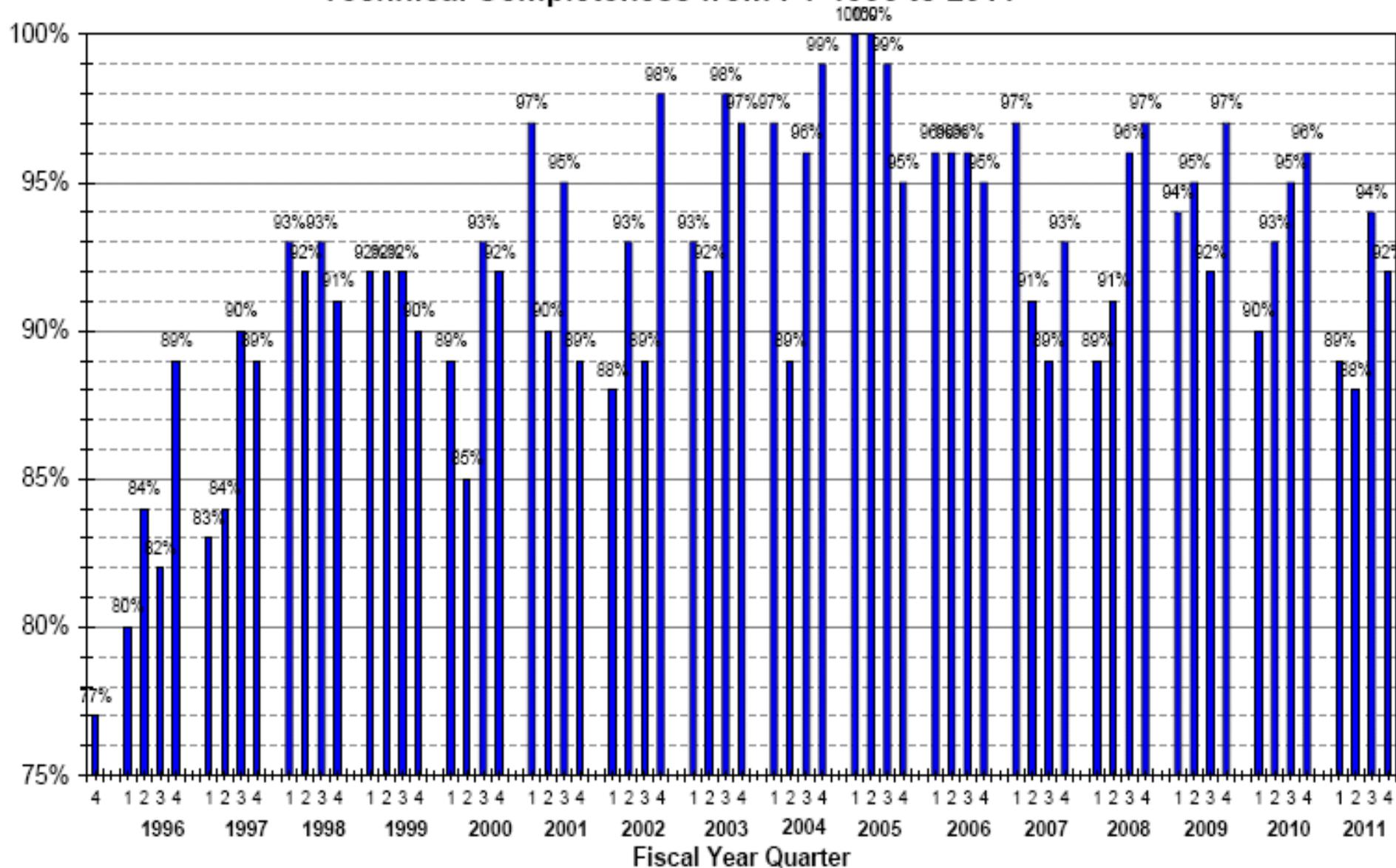


# Training

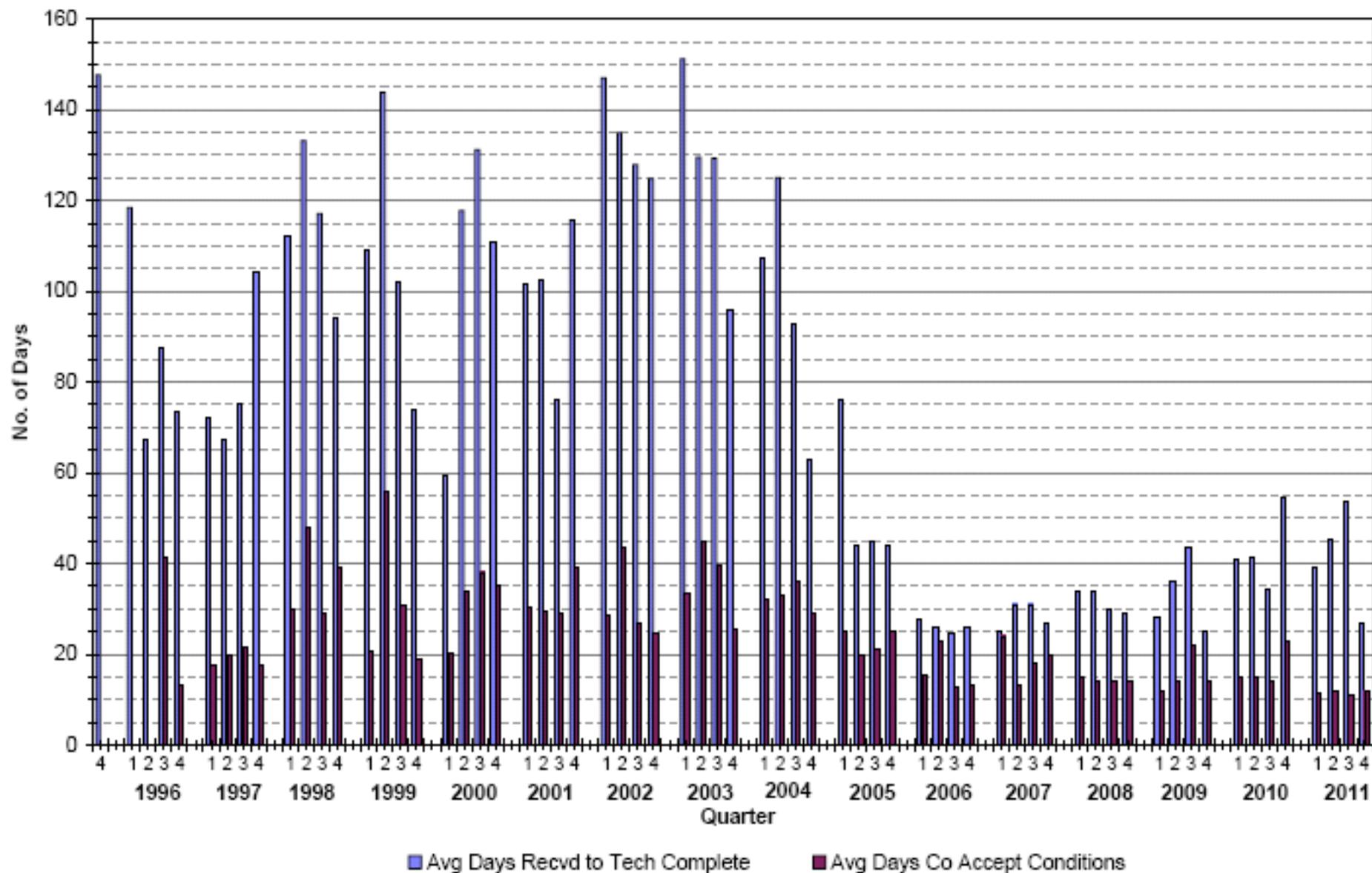
- Webinars
- Conferences
- On-line presentations



## Percent of Permits to Install Approved within 60/120 Days of Technical Completeness from FY 1995 to 2011



## Average Waiting Time for Company to Submit Info and Accept Conditions FY 1995 to 2011



# QUESTIONS?

Anita Singh

[singha3@michigan.gov](mailto:singha3@michigan.gov)

517.335.2356

800.662.9278

