

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

AIR QUALITY DIVISION

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

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:

(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, 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 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 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 ^{1,2} (a) Prime (i) Flexible coating (ii) Nonflexible coating (b) Topcoat (i) Basecoat (ii) Clearcoat (iii) Non-basecoat/clearcoat	 5.0 4.0 4.6 4.3 4.7
2. Air-dried coating-exterior parts ³ (a) Prime (b) Topcoat (i) Basecoat (ii) Clearcoat (iii) Non-basecoat/clearcoat	 6.1 5.8 5.4 6.3
3. Air-dried coating--interior parts ³	6.3
4. Touch-up and repair ³	6.3

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

²When 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.

³When 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 ^{1,2} (a) Prime (iii) Flexible coating (iv) Nonflexible coating (b) Topcoat (iv) Basecoat (v) Clearcoat (vi) Non-basecoat/clearcoat	 4.5 3.5 4.3 4.0 4.3
2. Air-dried coating-exterior parts ^{1,3} (a) Prime (b) Topcoat (iv) Basecoat (v) Clearcoat (vi) Non-basecoat/clearcoat	 4.8 5.0 4.5 5.0
3. Air-dried coating--interior parts ^{1,3}	5.0
4. Touch-up and repair ³	5.2

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

²When 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.

³When 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

History: 1989 AACCS; 1993 MR 4, Eff. Apr. 28, 1993.