

NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT
Act 451 of 1994

324.5524 Fugitive dust sources or emissions.

Sec. 5524. (1) The provisions of this section, including subsection (2), shall apply to any fugitive dust source at all mining operations, standard industrial classification major groups 10 through 14; manufacturing operations, standard industrial classification major groups 20 through 39; railroad transportation, standard industrial classification major group 40; motor freight transportation and warehousing, standard industrial classification major group 42; electric services, standard industrial classification group 491; sanitary services, standard industrial classification group 495; and steam supply, standard industrial classification group 496, which are located in areas listed in table 36 of R 336.1371 of the Michigan administrative code.

(2) Except as provided in subsection (8), a person responsible for any fugitive dust source regulated under this section shall not cause or allow the emission of fugitive dust from any road, lot, or storage pile, including any material handling activity at a storage pile, that has an opacity greater than 5% as determined by reference test method 9d. Except as otherwise provided in subsection (8) or this section, a person shall not cause or allow the emission of fugitive dust from any other fugitive dust source that has an opacity greater than 20% as determined by test method 9d. The provisions of this subsection shall not apply to storage pile material handling activities when wind speeds are in excess of 25 miles per hour (40.2 kilometers per hour).

(3) In addition to the requirements of subsection (2), and except as provided in subdivisions (e), (f), and (g), a person shall control fugitive dust emissions in a manner that results in compliance with all of the following provisions:

(a) Potential fugitive dust sources shall be maintained and operated so as to comply with all of the following applicable provisions:

(i) All storage piles of materials, where the total uncontrolled emissions of fugitive dust from all such piles at a facility is in excess of 50 tons per year and where such piles are located within a facility with potential particulate emissions from all sources including fugitive dust sources and all other sources exceeding 100 tons per year, shall be protected by a cover or enclosure or sprayed with water or a surfactant solution, or treated by an equivalent method, in accordance with the operating program required by subsection (4).

(ii) All conveyor loading operations to storage piles specified in subparagraph (i) shall utilize spray systems, telescopic chutes, stone ladders, or other equivalent methods in accordance with the operating program required by subsection (4). Batch loading operations to storage piles specified in subparagraph (i) shall utilize spray systems, limited drop heights, enclosures, or other equivalent methods in accordance with the operating program required by subsection (4). Unloading operations from storage piles specified in subparagraph (i) shall utilize rake reclaimers, bucket wheel reclaimers, under-pile conveying, pneumatic conveying with baghouse, water sprays, gravity-feed plow reclaimer, front-end loaders with limited drop heights, or other equivalent methods in accordance with the operating program required by subsection (4).

(iii) All traffic pattern access areas surrounding storage piles specified in subparagraph (i) and all traffic pattern roads and parking facilities shall be paved or treated with water, oils, or chemical dust suppressants. All paved areas, including traffic pattern access areas surrounding storage piles specified in subparagraph (i), shall be cleaned in accordance with the operating program required by subsection (4). All areas treated with water, oils, or chemical dust suppressants shall have the treatment applied in accordance with the operating program required by subsection (4).

(iv) All unloading and transporting operations of materials collected by pollution control equipment shall be enclosed or shall utilize spraying, pelletizing, screw conveying, or other equivalent methods.

(v) Crushers, grinding mills, screening operations, bucket elevators, conveyor transfer points, conveyor bagging operations, storage bins, and fine product truck and railcar loading operations shall be sprayed with water or a surfactant solution, utilize choke-feeding, or be treated by an equivalent method in accordance with an operating program required under subsection (4). This subparagraph shall not apply to high-lines at steel mills.

(b) If particulate collection equipment is operated pursuant to this section, emissions from such equipment shall not exceed 0.03 grains per dry standard cubic foot (0.07 grams per cubic meter).

(c) A person shall not cause or allow the operation of a vehicle for the transporting of bulk materials with a silt content of more than 1% without employing 1 or more of the following control methods:

(i) The use of completely enclosed trucks, tarps, or other covers for bulk materials with a silt content of 20% or more by weight.

(ii) The use of tarps, chemical dust suppressants, or water in sufficient quantity to maintain the surface in a wet condition for bulk materials with a silt content of more than 5% but less than 20%.

(iii) Loading trucks so that no part of the load making contact with any sideboard, side panel, or rear part of the load comes within 6 inches of the top part of the enclosure for bulk materials with a silt content of more than 1% but not more than 5%.

(d) All vehicles for transporting bulk materials off-site shall be maintained in such a way as to prevent leakage or spillage and shall comply with the requirements of section 720 of the Michigan vehicle code, Act No. 300 of the Public Acts of 1949, being section 257.720 of the Michigan Compiled Laws, and with R 28.1457 of the Michigan administrative code.

(e) The provisions of subdivisions (c) and (d) do not apply to vehicles with less than a 2-ton capacity that are used to transport sand, gravel, stones, peat, or topsoil.

(f) The provisions of subdivision (c)(i) and (ii) do not apply to fly ash which has been thoroughly wetted and has the property of forming a stable crust upon drying.

(g) The provisions of subdivision (c) do not apply to the transportation of iron or steel slag if the vehicles do not leave the facility and the slag has a temperature of 200 degrees fahrenheit or greater.

(4) All fugitive dust sources subject to the provisions of this section shall be operated in compliance with both the provisions of an operating program that shall be prepared by the owner or operator of the source and submitted to the department and with applicable provisions of this section. Such operating program shall be designed to significantly reduce the fugitive dust emissions to the lowest level that a particular source is capable of achieving by the application of control technology that is reasonably available, considering technological and economic feasibility. The operating program shall be implemented with the approval of the department.

(5) The operating program required by subsection (4) is subject to review and approval or disapproval by the department and shall be considered approved if not acted on by the department within 90 days of submittal. All programs approved by the department shall become a part of a legally enforceable order or as part of an approved permit to install or operate. At a minimum, the operating program shall include all of the following:

(a) The name and address of the facility.

(b) The name and address of the owner or operator responsible for implementation of the operating program.

(c) A map or diagram of the facility showing all of the following:

(i) Approximate locations of storage piles.

(ii) Conveyor loading operations.

(iii) All traffic patterns within the facility.

(d) The location of unloading and transporting operations with pollution control equipment.

(e) A detailed description of the best management practices utilized to achieve compliance with this section, including an engineering specification of particulate collection equipment, application systems for water, oil, chemicals, and dust suppressants utilized, and equivalent methods utilized.

(f) A test procedure, including record keeping, for testing all waste or recycled oils used for fugitive dust control for toxic contaminants.

(g) The frequency of application, application rates, and dilution rates if applicable, of dust suppressants by location of materials.

(h) The frequency of cleaning paved traffic pattern roads and parking facilities.

(i) Other information as may be necessary to facilitate the department's review of the operating program.

(6) Except for fugitive dust sources operating programs approved by the department pursuant to R 336.1373 of the Michigan administrative code between April 23, 1985 and May 12, 1987, the owner or operator of a source shall submit the operating program required by subsection (4) to the department by August 12, 1987.

(7) The operating program required by subsection (4) shall be amended by the owner or operator so that the operating program is current and reflects any significant change in the fugitive dust source or fugitive dust emissions. An amendment to an operating program shall be consistent with the requirements of this section and shall be submitted to the department for its review and approval or disapproval.

(8) Upon request by the owner or operator of a fugitive dust source, the department may establish alternate provisions to those specified in this section, if all of the following conditions are met:

(a) The fugitive dust emitting process, operation, or activity is subject to either of the following:

(i) The opacity limits of subsection (2).

(ii) The spray requirements of subsection (3)(a)(i) to (v).

(b) An alternate provision shall not be established by the department unless the department is reasonably convinced of all of the following:

(i) That a fugitive dust emitting process, operation, or activity subject to the alternate provisions is in compliance or on a legally enforceable schedule of compliance with the other rules of the department.

(ii) That compliance with the provisions of this section is not technically or economically reasonable.

(iii) That reasonable measures to reduce fugitive emissions as required by this section have been implemented in accordance with or will be implemented in accordance with a schedule approved by the department.

(9) Any alternate provisions approved by the department pursuant to subsection (8) shall be submitted to the United States environmental protection agency as an amendment to the state implementation plan.

History: 1994, Act 451, Eff. Mar. 30, 1995.

Popular name: Act 451

324.5525 Definitions.

Sec. 5525. As used in section 5524:

(a) "Control equipment or pollution control equipment" has the meaning ascribed to control equipment in R 336.1103 of the Michigan administrative code.

(b) "Fine product" means materials which will pass through a 20-mesh screen or those particles with aerodynamic diameters of 830 microns or less.

(c) "Fugitive dust" has the meaning ascribed to it in R 336.1106 of the Michigan administrative code.

(d) "Fugitive dust source" means any fugitive dust emitting process, operation, or activity regulated under section 5524.

(e) "Opacity" has the meaning ascribed to it in R 336.1115 of the Michigan administrative code.

(f) "Particulate" means any air contaminant existing as a finely divided liquid or solid, other than uncombined water, as measured by a reference test specified in subsection (5) of R 336.2004 of the Michigan administrative code or by an equivalent or alternative method.

(g) "Potential particulate emissions" means those emissions of particulate matter expected to occur without control equipment, unless such control equipment is, aside from air pollution control requirements, vital to the production of the normal product of the source or to its normal operation. Annual potential particulate emissions shall be based on the maximum annual-rated capacity of the source, unless the source is subject to enforceable permit conditions or enforceable orders which limit the operating rate or the hours of operation or both. Enforceable agreements or permit conditions on the type or amount of materials combusted or processed shall be used in determining the potential particulate emission rate of a source.

(h) "Process" or "process equipment" has the meaning ascribed to it in R 336.1116 of the Michigan administrative code.

(i) "Silt content" means that portion, by weight, of a particulate material which will pass through a number 200 (75 micron) wire sieve as determined by the American society of testing material, test C-136-76.

(j) "Test method 9D" means the method by which visible emissions of fugitive dust shall be determined according to test method 9 as set forth in appendix A-reference methods in 40 CFR, part 60, with the following modifications:

(i) The data reduction provisions of section 2.5 of method 9 shall be based on an average of 12 consecutive readings recorded at 15-second intervals.

(ii) For roadways and parking lots, opacity observations shall be made from a position such that the observer's line of vision is approximately perpendicular to the plume direction and approximately 4 feet directly above the surface of the road or parking area from which the emissions are being generated. The observer shall not look continuously at the plume, but instead shall observe the plume momentarily at 15-second intervals at the point of maximum plume density. Consecutive readings must be suspended for any 15-second period if a vehicle is in the observer's line of sight. If this occurs, a "V" shall be used in lieu of a numerical value, and a footnote shall be made to indicate that "V" signifies that the observer's view was obstructed by a vehicle. Readings shall continue at the next 15-second period, and they shall be considered consecutive to the reading immediately preceding the 15-second period denoted by a "V". Consecutive readings also shall be suspended for any 15-second period if a vehicle passes through the area traveling in the opposite direction and creates a plume that is intermixed with the plume being read. If this occurs, an "I" shall be used in lieu of a numerical value, and a footnote shall be made to indicate that "I" signifies that the readings were terminated due to interference from intermixed plumes. Readings shall continue when, in the judgment of the observer, the plume created by the vehicle traveling in the opposite direction no longer interferes with the plume originally being read; and they shall be considered consecutive to the reading

immediately preceding the 15-second period denoted by an "I". Intermixing of plumes from vehicles traveling in the same direction represents the road conditions, and reading shall continue in the prescribed manner. A reading encompassing an unusual condition (such as a broken bag of cement on the pavement) cannot be used to represent the entire surface condition involved. In such cases, another set of readings, encompassing the average surface condition, must be conducted. For all other fugitive dust sources except roadways and parking lots, opacity observations shall be made from a position that provides the observer a clear view of the source and the fugitive dust with the sun behind the observer. A position at least 15 feet from the source is recommended. To the extent possible, the line of sight should be approximately perpendicular to the flow of fugitive dust and to the longer axis of the emissions. Opacity observations shall be made for the point of highest opacity within the fugitive dust. Since the highest opacity usually occurs immediately above or downwind of the source, the observer should normally concentrate on the area or areas of the plume close to the source.

History: 1994, Act 451, Eff. Mar. 30, 1995.

Popular name: Act 451