06- DEPARTMENT OF ENVIRONMENTAL PROTECTION

096 BUREAU OF AIR QUALITY CONTROL

**CHAPTER 137: EMISSION STATEMENTS**

**SUMMARY:** This regulation establishes requirements for the reporting of pollutant emissions from stationary sources of air pollution.

## 1. Applicability

**A.** This regulation applies statewide.

**B.** This regulation applies to all stationary sources which emit or are licensed to emit into the ambient air, any of the following air pollutants at or above the minimum required reporting level:

| **Criteria Pollutants** | **Minimum Reporting Threshold** |
|---|---|
| (1) Carbon monoxide (CO) | 75 tpy |
| (2) Sulfur dioxide ($SO_2$) | 40 tpy |
| (3) Volatile organic compounds (VOC) | 25 tpy |
| (4) Nitrogen oxides ($NO_x$) (in $NO_2$ equivalents) | 25 tpy |
| (5) Fine Particulate Matter ($PM_{10}$) | 15 tpy |
| (6) Fine Particulate Matter ($PM_{2.5}$) | 15 tpy |
| (7) Lead (Pb) | 0.1 tpy |
| (8) Ammonia ($NH_3$) | 50 tpy |

* * *[1]

**D.** If any one pollutant as specified in Section 1(B) is emitted at or above the minimum required reporting level, the data for all pollutants listed in Section 1(B) * * * must be collected and reported.

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**2. Definitions.** The following terms are defined for use in this Chapter:

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[1] * * * The entire rule, Chapter 137: Emission Statements, is approved with the exception of HAP and Greenhouse gas reporting requirements which were not included in the state's SIP revision request.

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**G.** **Tons per year (tpy).** "Tons per year (tpy)" means tons per year of actual emissions.

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**3.** **Requirements.**

**A.** The owner or operator of any facility meeting the applicability requirements in Section 1(B) must file an emission statement with the Department on an annual basis for those pollutants listed in Section 1(B) * * * of this Chapter. The emission statement must be filed with the Department no later than July 1 of the year following the inventory year.

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**D.** Not withstanding the other provisions of subsections 3A * * * above, all required reports of emissions that occurred in 2003 shall be reported no later than September 1, 2004.

**4.** **Emission Statement.** Sources subject to reporting shall file, at a minimum, the following information in a format prescribed by the Department:

**A.** **Certification** - A certification that the information contained in the statement is accurate and complete to the best knowledge of the facility's responsible official or his/her designee. The certification shall include the full name, title, signature, date of signature, and telephone number of the responsible official or designee.

**B.** Inventory year - Calendar year for which emissions estimates are calculated.

**C.** Source Identification Information:

(1) State FIPS code - The Federal Information Placement System (FIPS) is the system of unique numeric codes the government developed to identify States, counties and parishes for the entire United States, Puerto Rico and Guam.

(2) County FIPS code - The Federal Information Placement System (FIPS) is the system of unique numeric codes the government developed to identify States, counties and parishes for the entire United States, Puerto Rico and Guam.

(3) Facility ID code - The unique code for a facility that is generated by the Department.

(4) Point ID code - The unique code for the point of generation of emissions that is generated by the Department.

(5) Site Name - The name of the facility as it appears on its air emission license or if unlicensed, the name of the facility as identified by the Bureau of Taxation.

(6) Physical Address - The street address for the facility where emissions occur. This must be the E911 address, when available.

(7) Mailing Address of the facility.

(8) SIC/NAICS - The Standard Industrial Classification Code/North American Industry Classification System (to replace SIC).

(9) Latitude and Longitude or Universal Transverse Mercator (UTM) coordinates of stack or release point.

**D.** Emissions Information:

(1) Pollutant Code - The unique code for each reported pollutant assigned in the Emission Inventory Improvement Program (EIIP) Data Model.

(2) Primary Control Device Description - The name of the type of control device (primary).

(3) Total Annual Activity/throughput data - The total annual amount of a measurable factor or parameter that relates directly or indirectly to the emissions of an air pollution source. Depending on the type of source category, activity information may refer to the amount of fuel combusted, raw material processed, product manufactured, or material handled or processed.

(4) Annual Emissions - The actual emissions for a facility, point or process - measured or calculated that represent a calendar year. * * *

(5) Estimation calculations with documentation supporting all input variables.

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**F.** Additional Criteria Pollutant Information. For sources subject to reporting under Section 1(B), the following additional information must also be filed with the Department as part of a complete emissions statement.

(1) Additional Processing Information:

(a) Process ID code - The unique code for the process generating emissions that is generated by the Department.

(b) Stack ID code - The unique code for a stack or release point of emissions into the atmosphere that is generated by the Department.

(2) Additional Operating Information:

(a) SCC (Source classification code) - The process level code that describes the equipment or operation which is emitting pollutants.

(b) PCC (Process classification code) - A process-level code that describes the equipment or operation which is emitting pollutants. EPA is considering this code as a replacement for SCC.

(c) Start time (hour) - The start time (if available) that was used to calculate the emissions estimates.

(d) Operating Schedule (Hours/Day) - The hours per day that the emitting process operates, averaged over the inventory period.

(e) Operating Schedule (Days/Week) - The days per week that the emitting process operates, averaged over the inventory period.

(f) Operating Schedule (Weeks/Year) - The weeks per year that the emitting process operates, averaged over the inventory period.

(3) Additional Activity/throughput data - A measurable factor or parameter that relates directly or indirectly to the emissions of an air pollution source. Depending on the type of source category, activity information may refer to the amount of fuel combusted, raw material processed, product manufactured, or material handled or processed.

(a) Activity/throughput (annual) - The total annual throughput.

(b) Activity/throughput (monthly) - The throughput on a monthly basis.

(c) Activity/throughput (daily) - An estimate of the daily average throughput, including the beginning and ending dates and times that define the emissions period used to estimate the daily activity rate/throughput.

(d) Spring Throughput % - March, April, and May of inventory period.

(e) Summer Throughput % - June, July and August of inventory period.

(f) Fall Throughput % - September, October, and November of inventory period.

(g) Winter Throughput % - December, January, and February of inventory period.

(4) Additional Release Point Data:

(a) Latitude and Longitude or Universal Transverse Mercator (UTM) coordinates of stack or release point.

(b) Stack or release point height - The height above the surrounding terrain.

(c) Stack or release point diameter - The inner physical diameter.

(d) Exit gas temperature (maximum license allowed) - The numeric value of an exit gas stream's temperature.

(e) Exit gas flow rate (maximum license allowed) - The numeric value of an exit gas's flow rate.

(f) Exit gas velocity (maximum license allowed) - The numeric value of an exit gas stream's velocity.

(5) Fuel and Process Parameters:

(a) Heat Content (annual average of fuel) - The amount of thermal heat energy in the fuel.

(b) Sulfur Content (annual average of fuel) - The sulfur content of the fuel, expressed in %.

(c) Ash Content (annual average of fuel) - The inert residual portion of the fuel.

(6) Activity Throughput - A measurable factor or parameter that relates directly or indirectly to the emissions of an air pollution source. The units are dependent on source category or report on a monthly basis:

(a) Fuel parameters:

(1) Fuel type.

(2) Type of combustion units used.

(3) Fuel consumption (thousands of gallons of fuel oil, tons of coal or wood, etc.) monthly and annually.

(b) Process parameters:

(1) Design Capacity - The measure of the size of a unit, based on the reported maximum continuous capacity of the unit.

(2) Maximum nameplate capacity - The measure of a unit's size that the manufacturer put on the unit's nameplate.

(7) Additional Emissions Information:

(a) Pollutant Code - The unique code for each reported pollutant assigned in the Emission Inventory Improvement Program (EIIP) Data Model.

(b) Primary Control Device Description - The name of the type of control device (primary).

(c) Primary Control Device Efficiency (%) - The percent efficiency of removing pollutant, expressed as a percentage for primary control.

(d) Secondary Control Device Description - The name of the type of control device (secondary).

(e) Secondary Control Device Efficiency (%) - The percent efficiency of removing pollutant, expressed as a percentage for secondary control.

(f) Emission Factor - The ratio relating emissions of a specific pollutant to an activity or material throughput level.

(g) Annual Emissions - The actual emissions for a facility, point or process, measured or calculated, that represent a calendar year.

(h) Emission Calculation Method Code - A 2-digit field which further describes the types of emissions being reported and/or on what the emission factors were based. For example, whether or not CEMS, stack tests, material balances or emission factors were used in the calculations or estimates.

**G.** Emissions Estimation Approaches

(1) Air emissions reported to the Department pursuant to this Chapter shall be quantified/estimated in the manner which most accurately reflects actual emissions, as follows below. The Department retains the right to review reports, question the emission procedure used, and require use of an estimation procedure that the Department determines is more accurate:

(a) For sources with specification CEMs/PEMs monitoring systems that are required by statute, regulation, or license condition, emission data generated by these systems shall serve as the basis for emissions reported pursuant to this Chapter;

(b) For sources not subject to subsection 4G(1)(a) and for which reference method emission testing that has been deemed by the Department to be representative of current and normal operating conditions, emission data from such testing shall serve as the basis for estimating emissions reported to the Department pursuant to this Chapter;

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NOTE: Emission tests should have been conducted within the 3 years prior to the emission year to be considered representative of emission conditions.

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(c) For sources not subject to subsection 4G(1)(a) or (b), emissions reported pursuant to this Chapter shall be estimated and reported on the basis of a facility-specific emission factor approved by the Department;

(d) For sources not subject to subsection 4G(1)(a)(b) or (c), emissions

reported pursuant to this Chapter shall be estimated and reported on the basis of EPA-published emission factors, where available;

(e) For sources not subject to subsection 4G(1)(a)(b)(c) or (d), emissions reported pursuant to this Chapter shall be estimated and reported based on emissions factors from other industry and trade groups based on sound science, where available; or

(f) For sources not subject to subsection 4G(1)(a)(b)(c)(d) or (e), emissions reported pursuant to this Chapter shall be estimated and reported based on best engineering judgement.

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AUTHORITY: 38 M.R.S.A., Section 585-A, 585-C, and 575

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|---|---|
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