

**STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR RESOURCES**

AIR POLLUTION CONTROL REGULATION NO. 3

PARTICULATE EMISSIONS FROM INDUSTRIAL PROCESSES



Effective 2 August 1967

Last Amended: 19 July 2007

AUTHORITY: These regulations are authorized pursuant to R.I. Gen. Laws § 42-17.1-2(s) and 23-23, as amended, and have been promulgated pursuant to the procedures set forth in the R.I. Administrative Procedures Act, R.I. Gen. Laws Chapter 42-35.

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3.1 Definitions

Unless otherwise expressly defined in this section, the terms used in this regulation shall be defined by reference to the Rhode Island Air Pollution Control General Definitions Regulation. As used in this regulation, the following terms shall, where the context permits, be construed as follows:

- 3.1.1 **"Process weight"** means the total weight of all materials introduced into any specific process, except liquid and gaseous fuels and combustion air, which may cause any emissions of particulate matter into the atmosphere.

3.2 Limitations

No person shall emit into the atmosphere in any one hour from any source, except those specific types of sources to which emission standards elsewhere in these rules and regulations apply, particulate matter in excess of that shown in the following table opposite the applicable process weight. In entering the table "the process weight rate" will be determined by dividing the total process weight by the number of hours in one complete operation, excluding anytime during which the equipment is not operating.

3.3 Determination of Compliance

Compliance with Section 3.2 shall be determined by one of the following procedures:

- (a) Emission testing conducted by the owner or operator of the source according to Method 5 of Appendix A to Part 60 of Title 40 of the Code of Federal Regulations, or by another method which has the prior approval of or is required by the Director.
- (b) Technical evaluation based on such factors which may include the potential of the industrial process for emitting particulates; design of the process, equipment or facility; design efficiency of air pollution control systems; and emission test results on similar processes, equipment or facilities.

3.4 General Provisions

3.4.1 Purpose

The purpose of this regulation is to limit particulate emissions from industrial sources.

3.4.2 Authority

These regulations are authorized pursuant to R.I. Gen. Laws § 42-17.1-2(s) and 23-23, as amended, and have been promulgated pursuant to the procedures set forth in the R.I. Administrative Procedures Act, R.I. Gen. Laws Chapter 42-35

3.4.3 Application

The terms and provisions of this regulation shall be liberally construed to permit the Department to effectuate the purposes of state law, goals and policies.

3.4.4 Severability

If any provision of this regulation or the application thereof to any person or circumstance, is held invalid by a court of competent jurisdiction, the validity of the remainder of the regulation shall not be affected thereby.

3.4.5 Effective Date

The foregoing regulation, "Particulate Emissions from Industrial Processes", as amended, after due notice, is hereby adopted and filed with the Secretary of State this _____ day of _____, 20__ to become effective twenty (20) days thereafter, in accordance with the provisions of Chapters 23-23, 42-35, 42-17.1, 42-17.6, of the General Laws of Rhode Island of 1956, as amended.

W. Michael Sullivan, PhD., Director
Department of Environmental Management

Notice Given on: February 21, 2007

Public Hearing held: March 23, 2007

Filing Date: June 29, 2007

Effective Date: July 19, 2007

TABLE

Process Weight Rate		Rate of Emission	Process Weight Rate		Rate of Emission
Lb/Hr	Tons/Hr	Lb/Hr	Lb/Hr	Tons/Hr	Lb/Hr
100	0.05	0.551	16,000	8.00	16.5
200	0.10	0.877	18,000	9.00	17.9
400	0.20	1.40	20,000	10.00	19.2
600	0.30	1.83	30,000	15.00	25.2
800	0.40	2.22	40,000	20.00	30.5
1,000	0.50	2.58	50,000	25.00	35.4
1,500	0.75	3.38	60,000	30.00	40.0
2,000	1.00	4.10	70,000	35.00	41.3
2,500	1.25	4.76	80,000	40.00	42.5
3,000	1.50	5.38	90,000	45.00	43.6
3,500	1.75	5.96	100,000	50.00	44.6
4,000	2.00	6.52	120,000	60.00	46.3
5,000	2.50	7.58	140,000	70.00	47.8
6,000	3.00	8.56	160,000	80.00	49.0
7,000	3.50	9.49	200,000	100.00	51.2
8,000	4.00	10.40	1,000,000	500.00	69.0
9,000	4.50	11.20	2,000,000	1,000.00	77.6
10,000	5.00	12.0	6,000,000	3,000.00	92.7
12,000	6.00	13.6			

Interpolation of the data in this table for the process weight rates up to 60,000 Lb/Hr shall be accomplished by use of the equation: $E = 4.10 P^{0.67}$, and interpolation and extrapolation of the data for process weight rates in excess of 60,000 Lb/Hr shall be accomplished by the equation: $E = 55.0 P^{0.11} - 40$, where E = rate of emission in Lb/Hr and P = process weight rate in Tons/Hr.