AIR POLLUTION CONTROL REGULATION NO. 3

PARTICULATE EMISSIONS FROM INDUSTRIAL PROCESSES

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RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DIVISION OF AIR RESOURCES
AIR POLLUTION CONTROL REGULATION NO. 3

<u>PARTICULATE EMISSIONS FROM INDUSTRIAL PROCESSES</u>

1. Particulate Emissions from Industrial Processes

3.1 Definitions

As used in these regulations, 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.

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.