

COMMONWEALTH OF VIRGINIA
STATE AIR POLLUTION CONTROL BOARD
REGULATIONS FOR THE CONTROL AND ABATEMENT OF AIR POLLUTION

9 VAC 5 CHAPTER 40.
EXISTING STATIONARY SOURCES.

PART II.
Emission Standards.

ARTICLE 19.
Emission Standards For Lightweight Aggregate
Process Operations (Rule 4-19).

9 VAC 5-40-2540.	Applicability and designation of affected facility.
9 VAC 5-40-2550.	Definitions.
9 VAC 5-40-2560.	Standard for particulate matter.
9 VAC 5-40-2570.	Standard for sulfur oxides.
9 VAC 5-40-2580.	Standard for Visible Emissions.
9 VAC 5-40-2590.	Standard for Fugitive Dust/Emissions.
9 VAC 5-40-2620.	Compliance.
9 VAC 5-40-2630.	Test methods and procedures.
9 VAC 5-40-2640.	Monitoring.
9 VAC 5-40-2650.	Notification, records and reporting.
9 VAC 5-40-2660.	Registration.
9 VAC 5-40-2670.	Facility and control equipment maintenance or malfunction.
9 VAC 5-40-2680.	Permits.

9 VAC 5-40-2540. Applicability and designation of affected facility.

A. The affected facility to which the provisions of this article apply is each lightweight aggregate process operation.

B. The provisions of this article apply throughout the Commonwealth of Virginia.

9 VAC 5-40-2550. Definitions.

A. For the purpose of these regulations and subsequent amendments or any orders issued by the board, the words or terms shall have the meaning given them in subsection C of this section.

B. As used in this article, all terms not defined here shall have the meaning given them in 9 VAC 5 Chapter (9 VAC 5-10-10 et seq.), unless otherwise required by context.

C. Terms defined.

"Process operation" means any method, form, action, operation or treatment of manufacturing or processing, including any storage or handling of materials or products before, during or after manufacturing or processing.

"Process unit" means any step in a manufacturing or process operation which results in the emission of pollutants to the atmosphere.

"Process weight" means total weight of all materials introduced into any process unit which may cause any emission of pollutants. Process weight includes solid fuels charged, but does not include liquid and gaseous fuels charged or combustion air for all fuels.

"Process weight rate" means a rate established as follows:

a. For continuous or long-run steady-state process operations, the total process weight for the entire period of continuous operation or for a typical portion of it, divided by the number of hours of such period or portion of it.

b. For cyclical or batch process operations, the total weight for a period that covers a complete operation or an integral number of cycles, divided by the hours of actual process operation during such a period.

9 VAC 5-40-2560. Standard for particulate matter.

A. No owner or other person shall cause, or permit to be discharged into the atmosphere from any lightweight aggregate process operation any particulate emissions in excess of the limits in Table 4-19.

TABLE 4-19

Process Weight Rate Tons/Hr	Maximum Allowable Emission Rate Lb/Hr
.05 or less	.176
.10	.351
.20	.702
.30	1.053
.40	1.404
.50	1.76
.75	2.64
1.0	3.51
1.25	5.27
1.75	6.15
2.0	7.02
4.0	14.0
6.0	21.1
8.0	28.1
10.0	35.1
15.0	52.7
20.0	70.2
25.0	87.8
30.0	105.0
35.0	123.0
40.0	140.0
45.0	158.0
50.0	176.0

B. Except as provided in subsection C of this section, interpretation of the emission standard in subsection A of this section shall be in accordance with 9 VAC 5-40-22.

C. For a process weight rate between any two consecutive rates in Table 4-19, or for rates over 50 tons per hour, the maximum allowable emission rate may be calculated by the following

equation:

$$E = 3.51 P$$

where:

E = emission rate in lb/hr.

P = process weight rate in tons/hr.

9 VAC 5-40-2570. Standard for sulfur oxides.

No owner or other person shall cause, or permit fuel with a sulfur content in excess of three pounds per million Btu to be used in the processing of lightweight aggregate.

9 VAC 5-40-2580. Standard for Visible Emissions.

The provisions of Article 1 (9 VAC 5-40-60 et seq.) of 9 VAC 5 Chapter 40 (Emission Standards for Visible Emissions and Fugitive Dust/Emissions, Rule 4-1) apply.

9 VAC 5-40-2590. Standard for Fugitive Dust/Emissions.

The provisions of Article 1 (9 VAC 5-40-60 et seq.) of 9 VAC 5 Chapter 40 (Emission Standards for Visible Emissions and Fugitive Dust/Emissions, Rule 4-1) apply.

9 VAC 5-40-2600. **[Not in SIP]**

9 VAC 5-40-2610. **[Not in SIP]**

9 VAC 5-40-2620. Compliance.

The provisions of 9 VAC 5-40-20 (Compliance) apply.

9 VAC 5-40-2630. Test methods and procedures.

The provisions of 9 VAC 5-40-30 (Emission Testing) apply.

9 VAC 5-40-2640. Monitoring.

The provisions of 9 VAC 5-40-40 (Monitoring) apply.

9 VAC 5-40-2650. Notification, records and reporting.

The provisions of 9 VAC 5-40-50 (Notification, Records and Reporting) apply.

9 VAC 5-40-2660. Registration.

The provisions of 9 VAC 5-20-160 (Registration) apply.

9 VAC 5-40-2670. Facility and control equipment maintenance or malfunction.

The provisions of 9 VAC 5-20-180 (Facility and Control Equipment Maintenance or Malfunction) apply.

9 VAC 5-40-2680. Permits.

A permit may be required prior to beginning any of the activities specified below and the provisions of 9 VAC 5 Chapter (9 VAC 5-50-10 et seq.) and 9 VAC 5 Chapter 80 (9 VAC 5-80-10 et seq.) may apply. Owners contemplating such action should contact the appropriate regional office for guidance.

1. Construction of a facility.
2. Reconstruction (replacement of more than half) of a facility.
3. Modification (any physical change to equipment) of a facility.
4. Relocation of a facility.
5. Reactivation (restart-up) of a facility.