Environmental Protection Agency

§ 60.420  Applicability and designation of affected facility.

(a) The affected facility to which the provisions of this subpart apply is each ammonium sulfate dryer within an ammonium sulfate manufacturing plant in the caprolactam by-product, synthetic, and coke oven by-product sectors of the ammonium sulfate industry.

(b) Any facility under paragraph (a) of this section that commences construction or modification after February 4, 1980, is subject to the requirements of this subpart.

§ 60.402  Emission rate of particulate matter.

E=(c_s Q_{sd})/(P K)

where:

E = emission rate of particulate matter, kg/Mg (lb/ton) of phosphate rock feed.

c_s = concentration of particulate matter, g/dscm (g/dscf).

Q_{sd} = volumetric flow rate of effluent gas, dscm/hr (dscf/hr).

P = phosphate rock feed rate, Mg/hr (ton/hr).

K = conversion factor, 1000 g/kg (453.6 g/lb).

§ 60.404  Test methods and procedures.

(a) In conducting the performance tests required in §60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided for in §60.8(b).

(b) The owner or operator shall determine compliance with the particulate matter standards in §60.402 as follows:

1. The emission rate (E) of particulate matter shall be computed for each run using the following equation:

E=(c_s Q_{sd})/(P K)

where:

E = emission rate of particulate matter, kg/Mg (lb/ton) of phosphate rock feed.

c_s = concentration of particulate matter, g/dscm (g/dscf).

Q_{sd} = volumetric flow rate of effluent gas, dscm/hr (dscf/hr).

P = phosphate rock feed rate, Mg/hr (ton/hr).

K = conversion factor, 1000 g/kg (453.6 g/lb).

2. Method 5 shall be used to determine the particulate matter concentration (c_s) and volumetric flow rate (Q_{sd}) of the effluent gas. The sampling time and sample volume for each run shall be at least 60 minutes and 0.85 dscm (30 dscf).

3. The device of §60.403(d) shall be used to determine the phosphate rock feed rate (P) for each run.

4. Method 9 and the procedures in §60.11 shall be used to determine opacity.

(c) To comply with §60.403(f), if applicable, the owner or operator shall use the monitoring devices in §60.403(c) (1) and (2) to determine the average pressure loss of the gas stream through the scrubber and the average scrubbing liquid supply pressure during the particulate matter runs.


Subpart PP—Standards of Performance for Ammonium Sulfate Manufacture

SOURCE: 45 FR 74850, Nov. 12, 1980, unless otherwise noted.

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