Subpart PP-Standards of Performance for Ammonium Sulfate Manufacture

Applicability of affected facility - §60.420

Source	All Emissions
General	1.) 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. 2.) Any facility under paragraph (1) of this section that commences construction or modification after February 4, 1980, is subject to the requirements of this subpart.

Standards for particulate matter - §60.422

Source	All Emissions
General	1.) Facility shall not emit particulate matter at an emission rate exceeding 0.15 kilogram of particulate per megagram of ammonium sulfate produced (0.30 pound of particulate per ton of ammonium sulfate produced). 2.) Facility shall not emit exhaust gases with greater than 15 percent opacity.

Monitoring of operations - §60.423

Source	All Emissions
General	1.) Facility shall install, calibrate, maintain, and operate flow monitoring devices which can be used to determine the mass flow of ammonium sulfate feed material streams to the process. The flow monitoring device shall have an accuracy of ± 5 percent over its range. However, if the plant uses weigh scales of the same accuracy to directly measure production rate of ammonium sulfate, the use of flow monitoring devices is not required. 2.) Facility shall install, calibrate, maintain, and operate a monitoring device which continuously measures and permanently records the total pressure drop across the emission control system. The monitoring device shall have an accuracy of ± 5 percent over its operating range.

Test methods and procedures - §60.424

Source	All Emissions
General	1.) 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 in §60.8(b). 2.) The owner or operator shall determine compliance with the particulate matter standards in §60.422 as follows: a.) The emission rate (E) of particulate matter shall be computed for each run using the following equation: E=(csQsd)/(PK) See §60.424 (1) for variables and units. b.) Method 5 shall be used to determine the particulate matter concentration (cs) and volumetric flow rate (Qsd) of the effluent gas. The sampling time and sample volume for each run shall be at least 60 minutes and 1.50 dscm (53 dscf). c.) Direct measurement using product weigh scales or computed from material balance shall be used to determine the rate (P) of the ammonium sulfate production. If production rate is determined by material balance, the following equations shall be used: (i) For synthetic and coke oven by-product ammonium sulfate plants: P=ABCK' See §60.424 (3) (i) for variables and units. (ii) For caprolactam by-product ammonium sulfate plants: P=DEFK" See §60.424 (30 (ii) for variables and units. d.) Method 9 and the procedures in §60.11 shall be used to determine the opacity.