

2.105 Ammonium Nitrate Fertilizer Processes

2.105.1 Applicability and Designation of Affected Facility

The provisions of this source category are applicable to each ammonium nitrate fertilizer process, which is the affected facility.

2.105.2 Test Methods and Procedures

(a) In conducting the performance tests required in Section 1.2, the owner or operator shall use as reference methods and procedures the test methods in Appendix A of this text or other methods and procedures as specified in this section, except as provided for in Section 1.2(b).

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

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

$$E = C_s Q_{sd}$$

Where:

E = emission rate of particulate matter, lbs./hr.

C_s = concentration of particulate matter, lb./dscf.

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

(2) Method 5 shall be used to determine the particulate matter concentration (C_s) and the 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 30 dscf. Water shall be used as the clean up solvent instead of acetone in the sample recovery procedure outlined in Method 5.

(i) For Method 5, the sampling probe and filter holder may be operated without heaters if the gas stream being sampled is at ambient temperature, AND, no liquid droplets of water or other substance are present.

(ii) For gas streams above ambient temperature or where liquid droplets of water or other substance exist, the sampling train shall be operated with a probe and filter temperature high enough to prevent condensation on the filter but no higher than 121 °C (250 °F).