

you must achieve compliance with applicable provisions in this subpart not later than January 23, 2007.

(2) If you startup a new affected source after January 23, 2007, you must achieve compliance with applicable provisions in this subpart upon initial startup.

PRIMARY ZINC PRODUCTION FACILITIES

§ 63.11162 What are the standards and compliance requirements for existing sources?

(a) You must exhaust the off-gases from each roaster to a particulate matter (PM) control device and to a sulfuric acid plant, including during the charging of the roaster.

(b) Except as provided in paragraph (b)(6) of this section, you must not discharge to the atmosphere any gases which contain PM in excess of the emissions limits in paragraphs (b)(1) through (5) of this section.

(1) 0.93 pound per hour (lb/hr) from the exhaust vent of a zinc cathode melting furnace.

(2) 0.1 lb/hr from the exhaust vent of a furnace that melts zinc dust, zinc chips, and/or other materials containing zinc.

(3) 0.228 lb/hr from the vent for the combined exhaust from a furnace melting zinc scrap and an alloy furnace.

(4) 0.014 grains per dry standard cubic foot (gr/dscf) from the exhaust vent of an anode casting furnace.

(5) 0.015 gr/dscf from the exhaust vent of a cadmium melting furnace.

(6) You may elect to meet an emissions limit of 0.005 gr/dscf as an alternative to the emissions limits in lb/hr in paragraphs (b)(1) through (3) of this section.

(c) You must establish an operating range for pressure drop for each baghouse applied to a furnace subject to an emissions limit in paragraph (b) of this section based on the minimum and maximum values recorded during a performance test that demonstrates compliance with the applicable PM emissions limit. Alternatively, you may use an operating range that has been previously established and approved by your permitting authority within the past 5 years. You must monitor the pressure drop daily, maintain the pressure drop for each baghouse

within the established operating range, and record the pressure drop measurement in a daily log. You must perform routine maintenance on each baghouse and record maintenance activities in a baghouse maintenance log. Baghouse maintenance logs must include, but are not limited to, inspections, criteria for changing bag filters, and dates on which the bag filters are replaced. Both logs must be maintained in a suitable permanent form and kept available for inspection.

(d) If you own or operate a sintering machine at your facility, you must comply with the PM emissions limit in 40 CFR 60.172(a) and the opacity emissions limit in 40 CFR 60.174(a) for that sintering machine.

(e) If you own or operate a sintering machine at your facility, you must install and operate a continuous opacity monitoring system (COMS) for each sintering machine according to the requirements in 40 CFR 60.175(a). Each COMS must meet Performance Specification 1 (40 CFR part 60, appendix B).

(f) For each furnace at your facility subject to an emissions limit in paragraph (b) of this section, you must demonstrate initial compliance with the applicable PM emissions limit in paragraph (b) of this section based on the results of a performance test for that furnace. If you own or operate a sintering machine, you must also demonstrate initial compliance with the PM and opacity emissions limits in paragraph (d) of this section based on the results of a performance test for that sintering machine.

(1) You may certify initial compliance for a furnace (and sintering machine, if applicable) based on the results of a previous performance test conducted during the past 5 years.

(2) If you have not conducted a performance test to demonstrate compliance with the applicable emissions limits during the past 5 years, you must conduct a performance test within 180 days of your compliance date and report the results in your notification of compliance status. If a furnace subject to an emissions limit in paragraph (b) of this section is not operating on the compliance date and subsequently resumes operation, you must conduct a performance test within 180 days of

startup and report the results in your notification of compliance status.

(3) You must conduct each PM test for a furnace according to § 63.7(e)(1) using the test methods and procedures in paragraphs (f)(3)(i) through (v) of this section.

(i) Method 1 or 1A (40 CFR part 60, appendix A) to select sampling port locations and the number of traverse points in each stack or duct. Sampling sites must be located at the outlet of the control device (or at the outlet of the emissions source if no control device is present) prior to any releases to the atmosphere.

(ii) Method 2, 2A, 2C, 2D, 2F, or 2G (40 CFR part 60, appendix A) to determine the volumetric flow rate of the stack gas.

(iii) Method 3, 3A, or 3B (40 CFR part 60, appendix A) to determine the dry molecular weight of the stack gas. You may use ANSI/ASME PTC 19.10-1981, "Flue and Exhaust Gas Analyses (incorporated by reference—see § 63.14) as an alternative to EPA Method 3B.

(iv) Method 4 (40 CFR part 60, appendix A) to determine the moisture content of the stack gas.

(v) Method 5 (40 CFR part 60, appendix A) to determine the PM concentration for a negative pressure baghouse, Method 5D (40 CFR part 60, appendix A) for a positive pressure baghouse, or an alternative method previously approved by your permitting authority. A minimum of three valid test runs are needed to comprise a PM performance test.

(4) You must conduct each PM test for a sintering machine according to § 63.7(e)(1) and 40 CFR 60.176(b)(1) using the test methods in paragraph (f)(3) of this section. You must determine the PM concentration using EPA Method 5 (40 CFR part 60, appendix A). You may use ANSI/ASME PTC 19.10-1981, "Flue and Exhaust Gas Analyses" (incorporated by reference—see § 63.14) as an alternative to EPA Method 3B.

(5) You must conduct each opacity test for a sintering machine according to the requirements in § 63.6(h)(7). You must determine the opacity of emissions using EPA Method 9 (40 CFR part 60, appendix A).

(g) For each furnace subject to an emissions limit in paragraph (b) of this

section, you must conduct subsequent performance tests according to the requirements in paragraph (f)(3) of this section to demonstrate compliance with the applicable PM emissions limit for the furnace every 5 years.

(h) You must submit a notification to your permitting authority of any deviation from the requirements of this subpart within 30 days after the deviation. The notification must describe the probable cause of the deviation and any corrective actions or preventative measures taken.

(i) You must submit semiannual monitoring reports to your permitting authority containing the results for all monitoring required by this subpart. All deviations that occur during the reporting period must be clearly identified.

(j) You must keep records of all required monitoring data and support information. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation and copies of all reports required by this subpart.

(k) You must comply with the operation and maintenance requirements specified in paragraphs (k)(1) and (2) of this section and the requirements for emergency situations specified in paragraph (k)(3) or (4) of this section.

(1) You must maintain all equipment covered under this subpart in such a manner that the performance or operation of such equipment does not cause a deviation from the applicable requirements.

(2) You must keep a maintenance record for each item of air pollution control equipment. At a minimum, this record must show the dates of performing maintenance and the nature of preventative maintenance activities.

(3) Except as specified in paragraph (k)(4) of this section, in the event of an emergency situation you must comply with the requirements in paragraphs (k)(3)(i) through (iii) of this section. For the purpose of complying with this paragraph, an emergency situation is any situation arising from sudden and reasonably unforeseeable events beyond the control of the facility owner or operator that require immediate

corrective action to restore normal operation, and that cause the affected source to exceed applicable emission limitation under this subpart, due to unavoidable increases in emissions attributable to the emergency. An emergency must not include noncompliance to the extent it is caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.

(i) During the period of the emergency you must implement all reasonable steps to minimize levels of emissions that exceeded the emission standards or other applicable requirements in this subpart.

(ii) You must document through signed contemporaneous logs or other relevant evidence that an emergency occurred and you can identify the probable cause, your facility was being operated properly at the time the emergency occurred, and the corrective actions taken to minimize emissions as required by paragraph (k)(3)(i) of this section.

(iii) You must submit a notice of the emergency to the permitting authority within two working days of the time when emission limitations were exceeded due to the emergency (or an alternative timeframe acceptable to the permitting authority). This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

(4) As an alternative to the requirements in paragraph (k)(3) of this section, you must comply with the start-up, shutdown, and malfunction requirements in 40 CFR 63.6(e)(3).

§ 63.11163 What are the standards and compliance requirements for new sources?

(a) You must exhaust the off-gases from each roaster to a PM control device and to a sulfuric acid plant, including the charging of the roaster.

(b) You must not discharge to the atmosphere any gases which contain PM in excess of the emissions limits in paragraphs (b)(1) through (3) of this section.

(1) 0.005 gr/dscf from the exhaust vent of a zinc cathode melting furnace; scrap zinc melting furnace; furnace

melting zinc dust, zinc chips, and other materials containing zinc; and alloy melting furnace.

(2) 0.014 gr/dscf from the exhaust vent of an anode casting furnace.

(3) 0.015 gr/dscf from the exhaust vent of a cadmium melting furnace.

(c) For each melting furnace, you must install and operate a capture system that collects gases and fumes from the melting furnace and from the transfer of molten materials and conveys the collected gases to a control device.

(d) You must install, operate, and maintain a bag leak detection system on all baghouses used to comply with the PM emissions limit in paragraph (b) of this section according to paragraph (d)(1) of this section, prepare and operate by a site-specific monitoring plan according to paragraph (d)(2) of this section, take corrective action according to paragraph (d)(3) of this section, and record information according to paragraph (d)(4) of this section.

(1) Each bag leak detection system must meet the specifications and requirements in paragraphs (d)(1)(i) through (viii) of this section.

(i) The bag leak detection system must be certified by the manufacturer to be capable of detecting PM emissions at concentrations of 1 milligram per actual cubic meter (0.00044 grains per actual cubic foot) or less.

(ii) The bag leak detection system sensor must provide output of relative PM loadings. The owner or operator must continuously record the output from the bag leak detection system using electronic or other means (e.g., using a strip chart recorder or a data logger.)

(iii) The bag leak detection system must be equipped with an alarm system that will sound when the system detects an increase in relative particulate loading over the alarm set point established according to paragraph (d)(1)(iv) of this section, and the alarm must be located such that it can be heard by the appropriate plant personnel.

(iv) In the initial adjustment of the bag leak detection system, you must establish, at a minimum, the baseline output by adjusting the sensitivity (range) and the averaging period of the