
40 C.F.R. § 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 device, the alarm set points, and the alarm delay time.
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