

Malfunction means any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. Failures caused in part by poor maintenance or careless operation are not malfunctions.

Metal oxygen refining (MOR) process means the reduction of the carbon content of ferromanganese through the use of oxygen.

Open submerged arc furnace means an electric submerged arc furnace that is equipped with a canopy hood above the furnace to collect primary emissions.

Operating time means the period of time in hours that the affected source is in operation beginning at a startup and ending at the next shutdown.

Plant roadway means any area at a ferromanganese and silicomanganese production facility that is subject to plant mobile equipment, such as fork lifts, front end loaders, or trucks, carrying manganese-bearing materials. Excluded from this definition are employee and visitor parking areas, provided they are not subject to traffic by plant mobile equipment.

Primary emissions means gases and emissions collected by hoods and ductwork located above an open furnace or under the cover of a semi-closed or sealed furnace.

Sealed submerged arc furnace means an electric submerged arc furnace equipped with a total enclosure or cover from which primary emissions are evacuated directly.

Semi-closed submerged arc furnace means an electric submerged arc furnace equipped with a partially sealed cover over the furnace. This cover is equipped with openings to allow penetration of the electrodes into the furnace. Mix is introduced into the furnace around the electrode holes forming a partial seal between the electrodes and the cover. Furnace emissions generated under the cover are ducted to an emission control device. Emissions that escape the cover are collected and vented through stacks directly to the atmosphere.

Shop means the building which houses one or more submerged arc furnaces.

Shutdown means the cessation of operation of an affected source for any purpose.

Startup means the setting in operation of an affected source for any purpose.

Submerged arc furnace means any furnace wherein electrical energy is converted to heat energy by transmission of current between electrodes partially submerged in the furnace charge. The furnace may be of an open, semi-sealed, or sealed design.

Tapping emissions means a source of air pollutant emissions that occur during the process of removing the molten product from the furnace.

Tapping period means the time from when a tap hole is opened until the time a tap hole is closed.

§ 63.1652 Emission standards.

(a) *New and reconstructed submerged arc furnaces.* No owner or operator shall cause to be discharged into the atmosphere from any new or reconstructed submerged arc furnace exhaust gases (including primary and tapping) containing particulate matter in excess of one of the following:

(1) 0.23 kilograms per hour per megawatt (kg/hr/MW) (0.51 pounds per hour per megawatt [lb/hr/MW]), or

(2) 35 milligrams per dry standard cubic meter (mg/dscm) (0.015 grains per dry standard cubic foot [gr/dscf]).

(b) *Existing open submerged arc furnaces.* No owner or operator shall cause to be discharged into the atmosphere from any existing open submerged arc furnace exhaust gases (including primary and tapping) containing particulate matter in excess of one of the following:

(1) 16.3 kilograms per hour (kg/hr) (35.9 pounds per hour [lb/hr]) when producing silicomanganese, or

(2) 6.4 kg/hr (14.0 lb/hr) when producing ferromanganese.

(c) *Existing semi-sealed submerged arc furnaces.* No owner or operator shall cause to be discharged into the atmosphere from any existing semi-sealed submerged arc furnace exhaust gases (including primary, tapping, and vent stacks) containing particulate matter in excess of 11.2 kg/hr (24.7 lb/hr) when producing ferromanganese.

§ 63.1653

40 CFR Ch. I (7-1-00 Edition)

(d) *MOR process.* No owner or operator shall cause to be discharged into the atmosphere from any new, reconstructed, or existing MOR process exhaust gases containing particulate matter in excess of 69 mg/dscm (0.03 gr/dscf).

(e) *Crushing and screening equipment.*

(1) *New and reconstructed equipment.* No owner or operator shall cause to be discharged into the atmosphere from any new or reconstructed piece of equipment associated with crushing and screening exhaust gases containing particulate matter in excess of 50 mg/dscm (0.022 gr/dscf).

(2) *Existing equipment.* No owner or operator shall cause to be discharged into the atmosphere from any existing piece of equipment associated with crushing and screening exhaust gases containing particulate matter in excess of 69 (mg/dscm) (0.03 gr/dscf).

§ 63.1653 Opacity standards.

No owner or operator shall cause emissions exiting from a shop due solely to operations of any affected submerged arc furnace, to exceed 20 percent opacity for more than one 6-minute period during any performance test, with the following exceptions:

(a) Visible particulate emissions from a shop due solely to operation of a semi-closed submerged arc furnace, may exceed 20 percent opacity, measured as a 6-minute average, one time during any performance test, so long as the emissions never exceed 60 percent opacity, measured as a 6-minute average.

(b) Blowing taps, poling and oxygen lancing of the tap hole; burndowns associated with electrode measurements; and maintenance activities associated with submerged arc furnaces and casting operations are exempt from the opacity standards specified in this section.

§ 63.1654 Operational and work practice standards.

(a) *Fugitive dust sources.* (1) Each owner or operator of an affected ferromanganese and silicomanganese production facility must prepare, and at all times operate according to, a fugitive dust control plan that describes in detail the measures that will be put

in place to control fugitive dust emissions from the individual fugitive dust sources at the facility.

(2) The owner or operator must submit a copy of the fugitive dust control plan to the designated permitting authority on or before the applicable compliance date for the affected source as specified in § 63.1650(e). The requirement for the owner or operator to operate the facility according to a written fugitive dust control plan must be incorporated in the operating permit for the facility that is issued by the designated permitting authority under part 70 of this chapter.

(3) The owner or operator may use existing manuals that describe the measures in place to control fugitive dust sources required as part of a State implementation plan or other federally enforceable requirement for particulate matter to satisfy the requirements of paragraph (a)(1) of this section.

(b) *Baghouses equipped with bag leak detection systems.* The owner or operator of a new or reconstructed submerged arc furnace must install and continuously operate a bag leak detection system if the furnace's primary and/or tapping emissions are ducted to a negative pressure baghouse or to a positive pressure baghouse equipped with a stack. The owner or operator must maintain and operate each baghouse such that the following conditions are met:

(1) The alarm on the system does not sound for more than 5 percent of the total operating time in a 6-month reporting period.

(2) A record is made of the date and time of each alarm and procedures to determine the cause of the alarm are initiated within 1 hour of the alarm according to the plan for corrective action required under § 63.1657(a)(7).

§ 63.1655 Maintenance requirements.

(a) The owner or operator of an affected source must comply with the requirements of § 63.6(e) of subpart A.

(b)(1) The owner or operator must develop and implement a written maintenance plan for each air pollution control device associated with submerged arc furnaces, metal oxygen refining processes, and crushing and screening operations subject to the provisions of