

**Rule Summary:
Final Area Source NESHAP for Glass Manufacturing**

Rule: **40 CFR Part 63, Subpart SSSSSS (6S)**
Docket: **EPA-HQ-OAR-2006-0360**
FR Date: **September 22, 2007, pp. 53838 – 53870**

EPA Contact:

Susan Fairchild, Office of Air Quality Planning and Standards
919-541-5167
fairchild.susan@epa.gov

Applicability

This rule applies to all glass manufacturing facilities that are an area source of Hazardous Air Pollutant (HAP) emissions and the glass products contain one or more of the following specific HAP compounds: oxides or other compounds of arsenic, cadmium, chromium, lead, manganese, and nickel. A source is classified as an area source if it is not a major source (i.e., has the potential to emit individual HAPs in amounts equal to or greater than 10 tons per year or the potential to emit total aggregate HAPs in amounts equal to or greater than 25 tons per year). The primary NAICS codes for the affected industries are:

327211	Area source facilities that manufacture flat glass, glass containers, and other pressed and blown glass and glassware.
327212	
327213	

Existing sources are defined as those that commenced construction or reconstruction before September 20, 2007. Likewise, new sources are defined as those that commenced construction or reconstruction on or after September 20, 2007.

The final rule applies only to glass manufacturing plants that operate continuous furnaces and use one or more of the glass manufacturing metal HAP as raw materials. To be an affected source, the furnace must produce at least 50 TPY of glass that contains one or more of the glass manufacturing metal HAPs as raw material. The rule does not apply to periodic furnaces or furnaces used strictly for research and development. Further, affected facilities must obtain a title V permit.

Target HAPs:

Oxides or other compounds of arsenic, cadmium, chromium, lead, manganese, and nickel.

Notifications

Owners and operators of all affected glass manufacturing plants that operate at least one continuous furnace that produces at least 50 TPY of glass using any of the glass manufacturing metal HAP as raw material must submit an initial notification, as required under § 63.9(b). Any facility with an affected source must also submit a Notification of Compliance as specified in § 63.9 (h). Record keeping is also required.

Standards

1. Each new or existing furnace must comply with a PM emission limit of 0.1 gram per kilogram (g/kg) (0.2 pounds per ton) of glass produced or an equivalent metal HAP emission limit of 0.01 g/kg (0.02 lb/ton) of glass produced.

Performance Testing

There is an initial one-time performance test required on each affected furnace unless the furnace has been tested during the previous five years., and the previous test demonstrates compliance with the emission limits in this rule using the same test methods and procedures specified in this rule.

Monitoring

Existing glass furnaces controlled by an electrostatic precipitator (ESP) must monitor the secondary voltage and secondary electrical current and record the results at least every eight hours. Existing glass furnaces that are controlled with a fabric filter must monitor the filter inlet temperature continuously and record the results at least every eight hours. New furnaces equipped with a fabric filter must install and operate a bag leak detector.

Control Device Inspections

Periodic inspections of the furnace control devices are required. Requirement for a fabric filter is annually and for the ductwork, housing, and fabric filter interior. For ESPs, inspections are annually for the ductwork, housing, and hopper. The interior of the ESP must be inspected every two years.

Compliance Dates:

Existing sources have two years from the date of publication of the final rule in the Federal Register to comply; new and reconstructed sources must comply upon the date that the final rule is published in the Federal Register or upon start-up, whichever is later. The anticipated date of final rule publication is December 2007. However, affected owners or operators may request an extension of one year if the additional time is needed to install emission controls.

Monitoring:

The rule specifies at 63.11454 and 63.11455 monitoring requirements for furnaces subject to the emission standard of the rule.

Performance Testing:

Glass furnaces subject to the emission standard must undergo a performance test to demonstrate compliance within 180 days of the compliance date. The rule provides specific test methodologies at 63.11452. Performance tests are not required for sources that have undergone a compliant performance test within five years prior to the performance testing requirement.

Records:

The rule specifies at 63.11457 that records of all notifications, production rates, periods of start-up, shutdown and malfunction, and all required monitoring be maintained for at least five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. Records less than two years old must be maintained on site.

Reporting:

An initial notification of applicability must be submitted to the implementing agency within 120 days of the final rule being published in the Federal Register or within 120 days of a new facility's commencement of operations, whichever is later. Guidelines for the information to be submitted with the initial notification of applicability are detailed at 63.9(b)(3).

Initial compliance reports must be submitted to the implementing agency within 60 days after each the compliance date or performance testing deadline. See 63.11456 for specific details.