

What are the compliance dates?

EXISTING SOURCES:

Emission limits: As expeditiously as practicable after State plan approval, but no later than 3 years after State plan approval or by May 20, 2016, whichever is earlier.

Operator training: Must be completed by the later of: the final compliance date; 6 months after unit startup; or 6 months after an employee assumes responsibility for operating the unit or supervising operation of the unit.

NEW SOURCES:

Emission limits: Within 60 days after your SSI unit reaches the feed rate at which it will operate, or within 180 days after initial startup, whichever is earlier.

Operator training: Six months after your SSI unit starts up, or before an employee assumes responsibility for supervising or operating the unit.

What reports are required?

- ◆ New sources: Notification of construction (including a siting analysis) and notification of initial startup.
- ◆ Existing sources taking more than 1 year to comply: Final control plan and notification of increments of progress.

All Sources:

- ◆ Monitoring plan for each continuous monitoring system, bag leak detection system and ash handling system.
- ◆ Initial and annual compliance reports and deviation reports.
- ◆ Submittal to EPA's Central Data Exchange of performance test data and relative accuracy test audit data for continuous monitors (using EPA's Electronic Reporting Tool).

What records are required?

- ◆ Records of operator training.
- ◆ Records that demonstrate compliance with emission limits, including records for testing, operating parameters, and continuous monitoring.
- ◆ Records of air pollution control device inspections.
- ◆ Records of all plans, reports, and notifications.
- ◆ Records of inspections, calibrations, validation checks, monitoring plans, and performance evaluation results of monitoring control devices.
- ◆ Records of bypass stack usage.
- ◆ Records of malfunctions.

For More Information

Copies of the rule and other materials are located at:

<http://www.epa.gov/ttn/atw/129/ssi/ssipg.html>

For more information on this regulation, please call your state or local air pollution control agency or the EPA Regional Office covering your state. EPA Regional contact information can be found on the Internet, at the following address:

<http://www.epa.gov/aboutepa/index.html#regional>

For more information on state requirements, please contact your state representative found at the following link:

<http://www.4cleanair.org/contactUsaLevel.asp>

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Environmental Protection
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<http://www.epa.gov/ttn/atw/129/ssi/ssipg.html>

Office of Air Quality Planning & Standards



Summary of Regulations Controlling Air Emissions from

Sewage Sludge Incinerators



Standards of Performance for New Stationary Sources and Emission Guidelines for Existing Sources: Sewage Sludge Incineration Units (40 CFR Part 60, Subparts LLLL and MMMM)

FINAL RULE
March 21, 2011 (76 FR 15372)



Summary of Sewage Sludge Incinerator Emission Limits and Operator Training Requirements

Which SSI units are affected?

- ◆ SSI units located at wastewater treatment facilities that are designed to treat domestic sewage sludge.

What is an SSI unit?

- ◆ An SSI unit is an incineration unit combusting sewage sludge for the purpose of reducing the volume of the sewage sludge by removing combustible matter.
- ◆ An SSI unit includes the following:
 - Sewage sludge feed system, auxiliary fuel feed system, grate system, flue gas system, waste heat recovery equipment, and bottom ash system.
 - All ash handling systems connected to the bottom ash handling system.

How do I comply?

You comply by obtaining operator training and demonstrating that your SSI meets specified air pollutant emission limits, as summarized in the table above. The emission limits are based on the construction date of the unit and the type of unit.

Obtain Operator Training and Qualification

- ◆ Obtain operator training through a state-approved program or by completing the requirements in the rule, which include a state-approved examination.
- ◆ Establish a program for reviewing with plant personnel the operator training procedures and information such as how to operate the incinerator and air pollution control systems to meet the rule's requirements.
- ◆ Complete an annual review or refresher course.

SSI Unit [1]	Summary of Requirements [2]
Existing SSI units: Commenced construction or reconstruction of the unit on or before October 14, 2010	
Fluidized bed Multiple hearth	<ul style="list-style-type: none"> ● Obtain and maintain operator training and qualification. ● Meet emission limits for PM, HCl, dioxins/furans, Hg, NOx, SO₂, Cd, Pb, and CO. ● Limit visible emissions of combustion ash from an ash conveying system to ≤5 percent.
New SSI units: Commenced construction/reconstruction of the unit after October 14, 2010	
Fluidized bed Multiple hearth	<ul style="list-style-type: none"> ● Obtain and maintain operator training and qualification. ● Meet emission limits for PM, HCl, dioxins/furans, Hg, NOx, SO₂, Cd, Pb, and CO. ● Install and operate CEMS to monitor CO. ● Limit visible emissions of combustion ash from an ash conveying system to ≤5 percent.
<p>[1] <u>Fluidized bed incinerator</u>: Enclosed device in which organic and inorganic matter in sewage sludge are combusted in a bed of particles suspended in the combustion chamber gas.</p> <p><u>Multiple hearth incinerator</u>: Circular steel furnace that contains a number of solid refractory hearths and a central rotating shaft; rabble arms that are designed to slowly rake the sludge on the hearth are attached to the rotating shaft.</p> <p>[2] Existing and new FB and MH incinerators must all meet emission limits for the same nine pollutants; however, the numerical emission limits are different for each of the subcategories.</p>	

Meet Emission Limits

- ◆ Conduct initial performance test and establish operating parameters.
- ◆ Repeat performance test every year.
- ◆ Monitor and collect data to demonstrate compliance with operating limits.
- ◆ Conduct initial and annual inspections of the air pollution control device.
- ◆ Continuously monitor the minimum temperature of the combustion chamber.
- ◆ Prepare a site-specific monitoring plan for each continuous monitoring system, bag leak detection system, and ash handling system.
- ◆ Conduct initial and periodic performance evaluation of each continuous monitoring system, bag leak detection system, and ash handling system.

Do the rules provide flexibility?

- ◆ You may install and operate continuous monitoring systems (CEMS) for PM, HCl, dioxins/furans, Hg, NOx, SO₂, Cd, and Pb and CO instead of conducting annual performance tests. New units must install CO CEMS.
- ◆ You may install a continuous automated sampling system for Hg and dioxins/furans instead of annual performance testing.
- ◆ To demonstrate initial compliance, existing units may use results from a test conducted within 2 previous years, if the test was conducted under the same conditions and no process changes have been made since.
- ◆ You may conduct performance tests every third year if performance tests for a pollutant for at least 2 consecutive years show that emissions are at or below 75 percent of the emission limit.