

Important Dates and Requirements

Standards of Performance for New Stationary Sources (NSPS) and Emission Guidelines (EG) for Existing Sources

40 CFR part 60 subpart LLLL (NSPS) & MMMM (EG)

Sewage Sludge Incinerators (SSI)

This document does not establish any new requirements and is not binding or enforceable. It does not constitute final agency action under Clean Air Act section 307(b)(1), 42 U.S.C. 7607(b)(1). Rather, it summarizes existing regulations & applicable compliance dates, provides guidance to applicable facilities, and provides guidance to States pertaining to State Plan development under Section 129 of the Clean Air Act as amended in 1990.

Table 1: Important Dates and Obligations for State and Tribal Organizations

Emission Guidelines (MMMM)	CFR §	New Source Performance Standards (LLLL)	CFR §
States and U.S. protectorates (tribes) with one or more SSI units constructed on or before October 14, 2010 must submit a state plan or tribal plan to EPA by March 21, 2012	60.5005	Not Applicable	Not Applicable
States and tribes with no SSI units constructed on or before October 14, 2010 must submit a negative declaration letter in place of the state plan.	60.5010	Not Applicable	Not Applicable
If EPA has not approved a state or tribal plan by March 21, 2013, a Federal plan developed by EPA will apply to SSI units in that state until a state plan has been approved.	60.5025	Not Applicable	Not Applicable
For compliance schedules that extend more than 1-year following the effective date of state plan approval, state plans must include dates for enforceable increments of progress	60.5035	Not Applicable	Not Applicable
A state or tribe may meet its obligation by submitting a written request for delegation of the Federal plan.	60.5045	Not Applicable	Not Applicable

Table 2: Important Dates and Requirements for Affected SSI Units

Compliance Dates			
Emission Guidelines (MMMM)	CFR §	New Source Performance Standards (LLLL)	CFR §
Compliance with the emission guidelines is required 3 years from date of state plan approval or March 21, 2016 if no state/tribal plan has been approved (i.e., the Federal plan applies to the SSI unit).	60.5035 & 60.5090	After this subpart goes into effect on September 21, 2011 units that commenced construction after October 14, 2010 or commenced modification after September 21, 2011 must comply with the emission limits and standards within 60 days after the unit reaches the feed rate at which it will operate or 180 days after initial startup (whichever is first.)	60.4765, 60.4845, & 60.4850(e)
Title V Permitting			
Emission Guidelines (MMMM)	CFR §	New Source Performance Standards (LLLL)	CFR §
All SSI units subject to a state or Federal plan implementing the emission guidelines are required to apply for and obtain a title V operating permit.	60.5240	All SSI units subject to the NSPS are required to apply for and obtain a title V operating permit.	60.4920
Unless a unit is subject to an earlier title V permit application deadline (for example, a unit subject to	60.5245(a)	Unless a new unit is subject to an earlier title V permit application deadline (for example, a unit	60.4925(a)

<p>this subpart may be part of a major source that has already triggered title V requirements), the title V permit application must be submitted on or before the earliest date specified in 1 through 3 below:</p> <ol style="list-style-type: none"> 1.) 12 months after the effective date of any applicable EPA approved state or tribal plan. 2.) 12 months after the effective date of any applicable Federal plan; or 3.) March 21, 2014 		<p>subject to this subpart may be part of a major source that has already triggered title V requirements), the title V permit application must be submitted on or before one of the dates specified in options 1 or 2 below:</p> <ol style="list-style-type: none"> 1.) If operation commenced by March 21, 2011, title V application must be submitted by March 21, 2012. 2.) If operation commenced after March 21, 2011, title V applications must be submitted within 12 months of commencing operation. 	
<p>If the SSI unit is subject to another title V permit application deadline triggered by some other requirement besides the emission guidelines, then the 12-month timeframe for filing a title V permit application is triggered by the requirement which first causes the unit to be subject to title V (i.e., the earliest application deadline date that applies to the unit).</p>	60.5245(b)	<p>If the SSI unit is subject to another title V permit application deadline triggered by some other requirement besides the NSPS, then the 12-month timeframe for filing a title V permit application is triggered by the requirement which first causes the unit to be subject to title V (i.e., the earliest application deadline date that applies to the unit).</p>	60.4925(b)
Operator Training Requirements			
Emission Guidelines (MMMM)	CFR §	New Source Performance Standards (LLLL)	CFR §
<p>Initial operator training and qualification must be completed by the later of the following three dates:</p> <ol style="list-style-type: none"> 1.) The compliance date, 2.) 6 months after the unit startup or, 3.) 6 months after an employee assumes responsibility of operating or supervising operation of the unit. 	60.5135	<p>Initial operator training and qualification must be completed by the later of the following two dates:</p> <ol style="list-style-type: none"> 1.) 6 months after the unit startup or, 2.) The date before employee assumes responsibility of operating or supervising operation of the unit 	60.4815
<p>Maintaining operator qualification requires an annual refresher course or review including coverage of the following topics:</p> <ol style="list-style-type: none"> 1.) Update of regulations 2.) Proper incinerator operation procedures 3.) Inspection and maintenance 4.) Prevention of malfunctions or conditions leading to malfunction 5.) Discussion of operating problems encountered by attendees 	60.5145	<p>Maintaining operator qualification requires an annual refresher course or review including coverage of the following topics:</p> <ol style="list-style-type: none"> 1.) Update of regulations 2.) Proper incinerator operation procedures 3.) Inspection and maintenance 4.) Prevention of malfunctions or conditions leading to malfunction 5.) Discussion of operating problems encountered by attendees 	60.4825
<p>Renewal of lapsed operator qualification requires one of two methods:</p> <ol style="list-style-type: none"> 1.) For lapse less than 3 years, completion of annual refresher course is required 2.) For lapse of 3 years or more, initial qualification training must be repeated 	60.5150	<p>Renewal of lapsed operator qualification requires one of two methods:</p> <ol style="list-style-type: none"> 1.) For lapse less than 3 years, completion of annual refresher course is required 2.) For lapse of 3 years or more, initial qualification training must be repeated 	60.4830
<p>Initial operator training must be obtained through a state-approved program or by completing a training course that includes the following topics:</p> <ol style="list-style-type: none"> 1.) Environmental concerns, including emission types, 2.) Basic combustion principles, including products of combustion, 3.) Operation of specific type of incinerator to be used by operator, 4.) Combustion controls and monitoring, 	60.5130	<p>Initial operator training must be obtained through a state-approved program or by completing a training course that includes the following topics:</p> <ol style="list-style-type: none"> 1.) Environmental concerns, including emission types, 2.) Basic combustion principles, including products of combustion, 3.) Operation of specific type of incinerator to be used by operator, 4.) Combustion controls and monitoring, 	60.4810

<p>5.) Operation of air pollution control equipment and factors affecting performance,</p> <p>6.) Inspection and maintenance of the incinerator and related control device,</p> <p>7.) Actions to prevent malfunctions or prevent conditions that may lead to malfunctions,</p> <p>8.) Bottom and fly ash characteristics and handling procedures,</p> <p>9.) Applicable Federal, State and local regulations, including Occupational Safety and Health Administration standards,</p> <p>10.) Pollution prevention.</p> <p>In order to complete qualification an operator must pass an examination designed and administered by a state-approved program and receive written material covering the training course topics.</p>		<p>5.) Operation of air pollution control equipment and factors affecting performance,</p> <p>6.) Inspection and maintenance of the incinerator and related control device,</p> <p>7.) Actions to prevent malfunctions or prevent conditions that may lead to malfunctions,</p> <p>8.) Bottom and fly ash characteristics and handling procedures,</p> <p>9.) Applicable Federal, State and local regulations, including Occupational Safety and Health Administration standards,</p> <p>10.) Pollution prevention.</p> <p>In order to complete qualification an operator must pass an examination designed and administered by a state-approved program and receive written material covering the training course topics.</p>	
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Air Pollution Control Device (APCD) Inspection

Emission Guidelines (MMMM)	CFR §	New Source Performance Standards (LLLL)	CFR §
Initial APCD inspection must be conducted by the compliance date under the approved state/tribal plan, or by March 21, 2016 if no state/tribal plan has been approved.	60.5195	Initial APCD inspection must be conducted by the earlier of two dates: 1.) Within 60 days after APCD installation or, 2.) Within 180 days after startup of the SSI unit.	60.4875
For new APCD installed after final compliance date, inspection must be conducted within 60 days of installation.	60.5195	Not Applicable	Not Applicable
APCD repairs (if necessary) following inspection must be completed within 10 operating days unless written approval establishing another date is obtained from the Administration.	60.5195 & 60.5215	APCD repairs (if necessary) following inspection must be completed within 10 operating days unless written approval establishing another date is obtained from the Administration.	60.4875 & 60.4895
Annual APCD inspections must be conducted no later than 12 months following the previous inspection. (APCD repair schedule same as above.)	60.5215	Annual APCD inspections must be conducted no later than 12 months following the previous inspection. (APCD repair schedule same as above.)	60.4895
APCD inspection must include: 1.) Inspection of APCD for proper operation, 2.) General observation of equipment to assure it is well maintained and in good operating condition.	60.5220(c)	APCD inspection must include: 1.) Inspection of APCD for proper operation, 2.) General observation of equipment to assure it is well maintained and in good operating condition.	60.4900(c)

Monitoring & Testing

Emission Guidelines (MMMM)	CFR §	New Source Performance Standards (LLLL)	CFR §
Site-specific monitoring plans must be submitted to the Administrator according to the requirements in 60.5200 (a) and (b) for approval at least 60 days before initial performance evaluation of a continuous monitoring system.	60.5200(f)	Site-specific monitoring plans must be submitted to the Administrator according to the requirements in 60.4880 (a) and (b) for approval at least 60 days before initial performance evaluation of a continuous monitoring system.	60.4880(f)
An ash handling plan must be submitted 60 days before the initial compliance test date.	60.5200(g)	An ash handling plan must be submitted 60 days before the initial compliance test date.	60.4880(g)
An updated monitoring plan must be submitted if there are any changes in monitoring procedures, or if there is a process change.	60.5200(h)	An updated monitoring plan must be submitted if there are any changes in monitoring procedures, or if there is a process change.	60.4880(h)
Monitoring plans involving alternate monitoring	60.5200(e)	Monitoring plans involving alternate monitoring	60.4880(e)

requirements to demonstrate compliance may be submitted to the Administrator for approval. Alternate monitoring plan must be submitted for approval no later than notification of the initial performance test. Approval or denial of the alternate monitoring plan will be given to the SSI unit owner/operator within 90 days after receipt of original request or 60 days after receipt of any supplemental information, whichever is later.		requirements to demonstrate compliance may be submitted to the Administrator for approval. Alternate monitoring plan must be submitted for approval no later than notification of the initial performance test. Approval or denial of the alternate monitoring plan will be given to the SSI unit owner/operator within 90 days after receipt of original request or 60 days after receipt of any supplemental information, whichever is later.	
Initial compliance with the emission limits and standards specified in Tables 2 or 3 of this subpart must be demonstrated according to the requirements in 60.5185 and 60.5220 (a) and (b) by the compliance date under the approved state/tribal plan, or by March 21, 2016 if no state/tribal plan has been approved.	60.5185	Initial compliance with the emission limits and standards specified in Tables 1 or 2 of this subpart must be demonstrated according to the requirements in 60.4865 and 60.4900 within 60 days after unit reaches the feed rate at which it will operate or within 180 days after initial startup, whichever comes first (i.e., the compliance date).	60.4865
An annual performance test must be conducted 11-13 calendar months after the previous test or within 60 days of a process change.	60.5205(a)	An annual performance test must be conducted 11-13 calendar months after the previous test or within 60 days of a process change.	60.4885(a)
If two consecutive performance tests show that emissions for a pollutant are at or below 75 percent of the emission limit specified in Table 2 or 3 of this subpart, then testing for that pollutant can be conducted every 3 rd year, but no more than 37 months after the previous performance test.	60.5205(a)	If two consecutive performance tests show that emissions for a pollutant are at or below 75 percent of the emission limit specified in Table 1 or 2 of this subpart, then testing for that pollutant can be conducted every 3 rd year, but no more than 37 months after the previous performance test.	60.4885(a)
Use of a continuous emissions monitoring system (CEMS) or continuous automated sampling system (CASS) to demonstrate compliance requires following of the procedures specified in 60.5220(b)(6). For CEMS that do not yet have a final performance specification (hydrogen chloride, dioxins/furans, cadmium, or lead), the option to use CEMS or CASS takes effect on the date a final performance specification applicable to the monitored pollutant is published in the Federal Register.	60.5205(b),	Use of a continuous emissions monitoring system (CEMS) or continuous automated sampling system (CASS) to demonstrate compliance requires following of the procedures specified in 60.4900(b)(6). For CEMS that do not yet have a final performance specification (hydrogen chloride, dioxins/furans, cadmium, or lead), the option to use CEMS or CASS takes effect on the date a final performance specification applicable to the monitored pollutant is published in the Federal Register.	60.4885(b)
Record Keeping & Reporting			
Emission Guidelines (MMMM)	CFR §	New Source Performance Standards (LLLL)	CFR §
The records specified in 60.5230 (a) through (n) must be maintained for 5 years. These records must be on site in paper copy or computer-readable format that can be printed upon request, unless the Administrator approves an alternative format.	60.5230	The records specified in 60.4910 (a) through (n) must be maintained for 5 years. These records must be on site in paper copy or computer-readable format that can be printed upon request, unless the Administrator approves an alternative format.	60.4910
An Increments of Progress Report must be submitted if compliance will be achieved more than 1 year following the effective date of state plan approval. This report must be submitted no later than 10 business days after the compliance	60.5235(a)	Not Applicable	Not Applicable

date for the increment as specified in 60.5085(a) and 60.5110.			
Not Applicable	Not Applicable	A notification of construction (that includes documentation of the siting analysis specified in 60.4805) and notification of initial startup must be submitted prior to commencing construction and initial startup, respectively.	60.4915(a) & 60.4915(b)
The Initial Compliance Report must be submitted within 60 days after the initial performance test.	60.5235(b)	The Initial Compliance Report must be submitted within 60 days after the initial performance test.	60.4915(c)
The Annual Compliance Report must be submitted no later than 12 months following previous annual compliance report. Report can be submitted electronically or in paper copy is postmarked on or before the due date.	60.5235(c)	The first Annual Compliance Report must be submitted no later than 12 months following the submission of the initial compliance report. Subsequent annual compliance reports must be submitted no more than 12 months after the previous annual compliance report. Report can be submitted electronically or in paper copy is postmarked on or before the due date.	60.4915(d)
A Deviation Report must be submitted if a deviation has occurred, according to the specifications in 60.5235(d). The Deviation Report must be submitted by August 1 of that year for data collected during the first half of the calendar year (January 1 to June 30), and by February 1 of the following year for data collected during the second half of the calendar year (July 1 to December 31). Report can be submitted electronically or in paper copy is postmarked on or before the due date.	60.5235(d) 60.5235(h)	A Deviation Report must be submitted if a deviation has occurred, according to the specifications in 60.4915(e). The Deviation Report must be submitted by August 1 of that year for data collected during the first half of the calendar year (January 1 to June 30), and by February 1 of the following year for data collected during the second half of the calendar year (July 1 to December 31). Report can be submitted electronically or in paper copy is postmarked on or before the due date.	60.4915(e) 60.4915(i)
A Qualified Operator Deviation Report must be submitted if all qualified operators are not accessible to the SSI unit for 2 weeks or more. This report must be submitted within 10 days of the deviation and be followed by a status report every 4 weeks.	60.5235(e)	A Qualified Operator Deviation Report must be submitted if all qualified operators are not accessible to the SSI unit for 2 weeks or more. This report must be submitted within 10 days of the deviation and be followed by a status report every 4 weeks.	60.4915(f)
A report notifying a <i>force majeure</i> must be submitted as soon as possible following the date of a pending or past occurrence of a <i>force majeure</i> is known. <i>A force majeure</i> is an event beyond the control of the facility, such as acts of nature, acts of war or terrorism, or equipment failure that that prevents conducting a performance test within the regulatory timeframe specified by the emission guidelines.	60.5235(f)	A report notifying a <i>force majeure</i> must be submitted as soon as possible following the date of a pending or past occurrence of a <i>force majeure</i> is known. <i>A force majeure</i> is an event beyond the control of the facility, such as acts of nature, acts of war or terrorism, or equipment failure that that prevents conducting a performance test within the regulatory timeframe specified by the NSPS.	60.4915(g)
Notification of intent to conduct a performance test is due at least 30 days prior to the performance test.	60.5235(g)	Notification of intent to conduct a performance test is due at least 30 days prior to the performance test.	60.4915(h)
Notification of a rescheduled performance test is due at least 7 days prior to the date of the rescheduled test.	60.5235(g)	Notification of a rescheduled performance test is due at least 7 days prior to the date of the rescheduled test.	60.4915(h)
Notification to start or stop use of a continuous monitoring system used to demonstrate compliance with an emission limit must be provided to the Administrator 1 month before	60.5235(g)	Notification to start or stop use of a continuous monitoring system used to demonstrate compliance with an emission limit must be provided to the Administrator 1 month before	60.4915(h)

starting or stopping use of the continuous monitoring system.		starting or stopping use of the continuous monitoring system.	
Beginning January 1, 2012 and within 60 days after completing performance testing, a relative accuracy test audit data and performance test must be submitted electronically to EPA's Central Data Exchange by using the Electronic Reporting Tool at: http://www.epa.gov/ttn/chief/ert/ert_tool.html/ or other compatible electronic spreadsheet.	60.5235(h)	Beginning January 1, 2012 and within 60 days after completing performance testing as defined in 63.2, a relative accuracy test audit data and performance test must be submitted electronically to EPA's Central Data Exchange by using the Electronic Reporting Tool at: http://www.epa.gov/ttn/chief/ert/ert_tool.html/ or other compatible electronic spreadsheet.	60.4915(i)
Annual or semi-annual reporting dates may be changed with Administrator agreement. Procedures to seek approval for changes to reporting dates are found in 60.19(c).	60.5235(i)	Annual or semi-annual reporting dates may be changed with Administrator agreement. Procedures to seek approval for changes to reporting dates are found in 60.19(c).	60.4915(j)