

Subcategory and Row	Task 1 Submit Initial Notifications				Task 2 Comply with Operator Training Requirements		Task 3 Meet Emission Limits			Task 4 Keep Records	Task 5 Submit Other Notifications and Reports (Note k)
	Notification of construction	Notification of initial startup	Increments of Progress	Initial compliance report	Obtain operator training and qualification	Maintain operator training and qualification	For this pollutant (Note c)	Initial Compliance	Continuous Compliance		
NEW — MULTIPLE HEARTH and FLUIDIZED BED (Note c)	Yes, including all documentation produced as a result of the siting requirements of NSPS §60.4805 (NSPS §60.4915(a))	Yes (NSPS §60.4915(b))	No	Yes (NSPS §60.4915(c) and Table 5 to subpart LLLL)	Yes (NSPS §60.4810)	Yes (NSPS §60.4825)	All pollutants	Inspect the air pollution control device according to NSPS §60.4900(c) (NSPS §60.4875)	Conduct performance evaluation for each CPMS/CEMS/CASS/bag leak detection system used to comply with rule, at frequency specified in monitoring plan (NSPS §60.4885(b)(5))	Documentation of operator training (NSPS §60.4840(a))	Annual compliance report (NSPS §60.4915(d))
ROW #1					Establish a program for reviewing with plant personnel the operator training procedures and records listed in NSPS §60.4910(c)(1) (NSPS §60.4840(b))	Complete an annual review or refresher course (NSPS §60.4825)		Prepare a site-specific monitoring plan for each CEMS/continuous automated sampling system (CASS)/CPMS/bag leak detection system/fugitive ash handling system (NSPS §60.4880)	Monitor the temperature of the combustion chamber (or afterburner combustion chamber) and operate your SSI unit such that the temperature remains above the minimum operating temperature.	Records of the results of initial and annual air pollution control device inspections (NSPS §60.4910(d))	Force majeure report (NSPS §60.4915(g))
							PM HCl PCDD/PCDF Hg NOx SO2 Cd Pb	Conduct initial performance (stack) test (NSPS §60.4865(a))	Conduct annual stack test (NSPS §60.4900(a), NSPS §60.4885(a), Tables 1 and 2 to subpart LLLL (Note d)) and operate a CPMS/bag leak detection system (NSPS §60.4885)	Monitoring plan and performance evaluations for continuous monitoring systems (NSPS §60.4910(k))	Other reports (NSPS §60.4915(h))
								OR	OR	Records indicating the use of the bypass stack (NSPS §60.4910(m))	Prepare and submit a siting analysis if you plan to commence construction of a SSI unit after October 14, 2010 or if you are modifying an SSI unit (NSPS §60.4800(a) and (b))
								Install and operate CEMS/CASS and follow NSPS §60.4865(b)(3) / NSPS §60.4865(b)(4) (Note e)	Operate the CEMS as specified in NSPS §60.4900(b).	Records of malfunctions and actions taken to minimize emissions (NSPS §60.4910(n))	As of 1/1/2012, submit relative accuracy test audit data and performance test data (except opacity), electronically to EPA's Central Data Exchange using the Electronic Reporting Tool < http://www.epa.gov/ttnchie1/ert/ert_tool.html > (NSPS §60.4915(i)(2))
								OR	Operate the CASS as specified in NSPS §60.58b(p) (NSPS §60.4885(b)(4)(i) ; NSPS §60.4865(b)(4))	All documentation produced as a result of the siting requirements of NSPS §60.4805 (NSPS §60.4915(a))	
										Other records for continuous monitoring systems (NSPS §60.4910(g))	
										Deviation reports (NSPS §60.4910(h))	
										Records of inspections, calibrations, and validation checks of monitoring devices (NSPS §60.4910(j))	
										Records to support less frequent testing (NSPS §60.4910(i))	
										Other records for continuous monitoring systems (NSPS §60.4910(g))	
										Deviation reports (NSPS §60.4910(h), NSPS §60.4915(e)(1)(vi) and (vii))	
										Equipment specifications and operation and maintenance requirements (NSPS §60.4910(i))	
										Inspections, calibrations, and validation checks of monitoring devices (NSPS §60.4910(j))	
										Monitoring plan and performance evaluations for continuous monitoring systems (NSPS §60.4910(k))	
										Continuous monitoring data (§60.4910(f))	
										Other records for continuous monitoring systems (§60.4910(g))	
										Deviation reports (§60.4910(h), §60.4915(e)(1)(vi) and (vii))	
										Equipment specifications and operation and maintenance requirements (§60.4910(i))	
										Inspections, calibrations, and validation checks of monitoring devices (§60.4910(j))	
										Monitoring plan and performance evaluations for continuous monitoring systems (§60.4910(k))	
										Continuous monitoring data (§60.4910(f))	
										Other records for continuous monitoring systems (§60.4910(g))	
										Deviation reports (§60.4910(h), §60.4915(e)(1)(vi) and (vii))	
										Equipment specifications and operation and maintenance requirements (§60.4910(i))	
										Inspections, calibrations, and validation checks of monitoring devices (§60.4910(j))	
										Monitoring plan and performance evaluations for continuous monitoring systems (§60.4910(k))	
										Continuous monitoring data (§60.4910(f))	
										Other records for continuous monitoring systems (§60.4910(g))	
										Deviation reports (§60.4910(h), §60.4915(e)(1)(vi) and (vii))	
										Equipment specifications and operation and maintenance requirements (§60.4910(i))	
										Inspections, calibrations, and validation checks of monitoring devices (§60.4910(j))	
										Monitoring plan and performance evaluations for continuous monitoring systems (§60.4910(k))	
										Continuous monitoring data (§60.4910(f))	
										Other records for continuous monitoring systems (§60.4910(g))	
										Deviation reports (§60.4910(h), NSPS §60.4915(e)(1)(vi))	
										Keep records of the monitoring plan for the ash handling system that specifies the operating procedures that will ensure that the fugitive emission limit is met (NSPS §60.4910(k))	Submit a monitoring plan specifying the ash handling system operating procedures that you will follow to ensure that you meet the fugitive emissions limit (NSPS §60.4880(d), Table 1 or 2 to subpart LLLL)

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Note (a): Subparts LLLL and MMMM regulate the same pollutants for multiple hearth (MH) and fluidized bed (FB) SSI units. However, the numerical emission limits are different for MH and FB units. See Tables 1 and 2 to subpart LLLL and Tables 2 and 3 to subpart MMMM.

Note (b): Owners and operators of NEW units submit reports to the U.S. EPA Administrator or a delegated authority such as your state, local, or tribal agency (NSPS §60.4785). Owners and operators of EXISTING SSI units submit reports to the Administrator of an air quality program in your state.

Note (c): Fluidized bed incinerator means an enclosed device in which organic matter and inorganic matter in sewage sludge are combusted in a bed of particles suspended in the combustion chamber gas. Multiple hearth incinerator means a 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. Dewatered sludge enters at the top and proceeds downward through the furnace from hearth to hearth, pushed along by the rabble arms.

Note (d): You can conduct performance tests less often (every third year) if your performance tests for the pollutant for at least 2 consecutive years show that your emissions are at or below 75 percent of the emission limit [NSPS §60.4835(a)(3) or EG §60.5205(a)(3)]

Note (e): Continuous emissions monitoring system (CEMS) may be used for HCl, PCDD/PCDF, Cd, or Pb when the performance specification (PS) is published in the Federal Register (FR). The option to use continuous automated sampling systems (CASS) for PCDD/PCDF may be used when the PS is published in the

Note (f): The Administrator of an air quality program in your state or protectorate must develop and submit a State plan, based on 40 CFR part 60, subpart MMMM to EPA that implements the emission guidelines contained in this subpart. The State plan must specify the date by which you must meet the increments of progress specified in Table 1 to subpart MMMM.

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EXISTING – MULTIPLE HEARTH and FLUIDIZED BED (Note d)	No	No	If you plan to achieve compliance more than 1 year following the effective date of state plan approval, then you must submit: (1) final control plan by the date specified in the state plan (EG §60.5110(a) and Table 1 to subpart MMMM); and (2) notification of achievement of increments of progress by the date 3 years after the effective date of state plan approval or March 21, 2016 (EG §60.5095 and Table 1 to subpart MMMM) (Note f)	Yes (EG §60.5235(b) and Table 6 to subpart MMMM)	Yes (EG §60.5130) Establish a program for reviewing with plant personnel the operator training procedures and records listed in EG §60.4910(c)(1) (EG §60.4840(b))	Yes (EG §60.5145) Complete an annual review or refresher course (EG §60.5145)	All pollutants	Inspect the air pollution control device according to EG §60.5220(c) (EG §60.5195) Prepare a site-specific monitoring plan for each CEMS/continuous automated sampling system (CASS)/CPMS/bag leak detection system/fugitive ash handling system (EG §60.5200) Conduct an initial performance evaluation of each CPMS/CEMS/CASS/bag leak detection system used to comply with rule (EG §60.5200(c)) Install and operate a device to monitor the temperature of the combustion chamber (or afterburner combustion chamber) and establish the minimum operating temperature during the initial performance (stack) test (§60.5170(a))	Conduct performance evaluation for each CPMS/CEMS/CASS/bag leak detection system used to comply with rule, at frequency specified in monitoring plan (EG §60.5205(b)(4)) Monitor the temperature of the combustion chamber (or afterburner combustion chamber) and operate your SSI unit such that the temperature remains above the minimum operating temperature.	Documentation of operator training (EG §60.5160(a)) Copies of the final control plan and any additional notifications associated with your Increments of Progress (EG §60.5230(b)) Records of the results of initial and annual air pollution control device inspections (EG §60.5230(d)) Monitoring plan and performance evaluations for continuous monitoring systems (EG §60.5230(k)) Records indicating the use of the bypass stack (EG §60.5230(m)) Records of malfunctions and actions taken to minimize emissions (EG §60.5230(n))	Annual compliance report (EG §60.5235(c)) Deviation reports (EG §60.5235(d)) Force majeure report (EG §60.5235(f)) Other reports (EG §60.5235(g)) Final control plan (EG §60.5110(a)) and (2) notification of achievement of increments of progress (EG §60.5095) As of 1/1/2012, submit relative accuracy test audit data and performance test data (except opacity), electronically to EPA's Central Data Exchange using the Electronic Reporting Tool < http://www.epa.gov/ttnchie1/ert/ert_tool.html > (EG §60.5235(h))
ROW #2							PM HCl PCDD/PCDF Hb NOx SO2 Cd Pb CO	Conduct initial performance (stack) test (EG §60.5185(a)) or use results from test conducted within 2 previous years if the test meets criteria in EG §60.5185 (a)(2) Install and operate CPMS/bag leak detection system; establish operating parameters for CPMS (for wet scrubbers, fabric filters, electrostatic precipitators, and activated carbon injection (EG §60.5190)(b) through (h); or petition the Administrator for specific operating parameters for other control devices EG §60.5205(b)).	Conduct annual stack test (EG §60.5200(b), EG §60.5205(a), Tables 2 and 3 to subpart MMMM (Note d)) and operate a CPMS/bag leak detection system (EG §60.5205(b)(1))	Performance test reports, including calculations, hourly dry sludge feed rate during the test, and records to demonstrate that the test was conducted under normal operations (EG §60.5230(e)) Continuous monitoring data (EG §60.5230(f)) Other records for continuous monitoring systems (EG §60.5230(g)) Deviation reports (EG §60.5230(h)) Records of inspections, calibrations, and validation checks of monitoring devices (EG §60.5230(j)) Records to support less frequent testing (EG §60.5230(i))	
							OR	Install and operate CEMS/CASS and follow §60.5185(b)(2) / §60.5185(b)(3) (Note e)	OR Operate the CEMS as specified in EG §60.5200(b). Operate the CASS as specified in EG §60.58b(p) (EG §60.5205(b)(3)(i) ; EG §60.5185(b)(3))	OR Continuous monitoring data (EG §60.5230(f)) Other records for continuous monitoring systems (EG §60.5230(g)) Deviation reports (EG §60.5230(h), NSPS §60.5235(d)(1)(vi) and (vii)) Equipment specifications and operation and maintenance requirements (EG §60.5230(i)) Inspections, calibrations, and validation checks of monitoring devices (EG §60.5230(j)) Monitoring plan and performance evaluations for continuous monitoring systems (EG §60.5230(k))	
							Fugitive ash	Conduct Method 22 visible emissions testing of the ash handling operations during each compliance test (Table 1 to subpart MMMM) (or use results from test conducted within 2 previous years if the test meets criteria in EG §60.5185 (a)(2))	Conduct annual Method 22 visible emission test (Note d) and meet the operating requirements in your site-specific fugitive emission monitoring plan, submitted as specified in EG §60.4880(d) to ensure that your ash handling system will meet the emission standard for fugitive emissions from ash handling (EG §60.4880(d))	Deviation reports (EG §60.5230(h), EG §60.5235(d)(1)(iv)) Keep records of the monitoring plan for the ash handling system that specifies the operating procedures that will ensure that the fugitive emission limit is met (EG §60.5230(k))	Submit a monitoring plan specifying the ash handling system operating procedures that you will follow to ensure that you meet the fugitive emissions limit (EG §60.5200(d), Table 2 or 3 to subpart MMMM)

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rabble arms that are designed to slowly rake the sludge on the hearth are attached to the rotating shaft. Devatered sludge enters at the top and proceeds downward through the furnace from hearth to hearth, pushed along by the rabble air

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