

Table 1: Annual Respondent Burden and Cost - Emission Guidelines for Sewage Sludge Incinerators (40

Burden Item	(A)	(B)
	Respondent Hours per Occurrence	Number of Occurrences Per Respondent Per Year
1. Applications	N/A	
2. Surveys and Studies	N/A	
3. Reporting Requirements		
A. Familiarize with the regulatory requirements ^{c,d}	40	1
B. Required Activities		
1) Initial stack test and report ^e	40	1
2) Annual stack test and test report ^{f,g}	40	0.33
3) Operator training and qualification		
a) Establish and teach operator qualification course ^{d,e}	64	1
b) Obtain operator qualification ^{d,e}	72	1
c) Annual refresher course ^{d,f}	12	1
d) Initial review of site-specific information	See 3B 3) a)	
e) Annual review of site-specific information ^{d,f}	8	1
4) Establish operating parameters (maximum and minimum) ^e	40	1
5) Continuous parameter monitoring (including CEMS)		
a) Initial monitoring ^e	11	1
b) Annual monitoring ^f	11	1
C. Create Information	See 3B	
D. Gather Information	See 3E	
E. Report Preparation		
1) Notification of initial performance test ^e	2	1
2) Notification of initial CMS Demonstration ^{d,e}	2	1
3) Final Control Plan ^e	20	1
4) Initial Compliance Report ^e	40	1
5) Report for site-specific parameter petition ^{e,h}	14	1
6) Annual Compliance Report	40	1
7) Notification for operators that are off-site for more than 2 weeks ⁱ	8	1
8) Status report for operators that are off-site for more than 2 weeks ⁱ	8	2
9) Semiannual Deviation Report ^j	24	2
Subtotal for Reporting Requirements		
4. Recordkeeping Requirements		
A. Familiarize with the regulatory requirements	See 3A	
B. Plan Activities	N/A	
C. Implement Activities	N/A	
D. Develop Record System	N/A	
E. Record Information		
1) Records of operating parameters	2	52
2) Records of exceedances of the operating parameters ^j	2	1
3) Records of stack tests ^g	2	0.33

4) Records of persons who have reviewed operating procedures	2	1
5) Records of persons who have completed operator training	2	1
6) Records of persons who meet operator qualification criteria	2	1
7) Records of monitoring device calibration	2	1
8) Records of site-specific documentation	24	1
F. Personnel Training	See 3B	
G. Time for Audits	N/A	
Subtotal for Recordkeeping Requirements		
TOTAL ANNUAL BURDEN AND COST (rounded) ^k		
TOTAL CAPITAL AND O&M COST (rounded) ^k		
GRAND TOTAL (rounded) ^k		

Assumptions:

- ^a We have assumed that there will be an average of 170 units at 86 facilities that will be subject to the rule. Because of
- ^b This ICR uses the following labor rates: \$144.33 per hour for Executive, Administrative, and Managerial labor; \$10
- ^c We have assumed that all existing respondents will have to familiarize with the regulatory requirements each year.
- ^d Cost incurred by a facility regardless of the number of affected units at the plant.
- ^e This is a one-time only costs.
- ^f Annual costs are not incurred until the second year of operation.
- ^g Facilities may test every three years if certain requirements are met, thus annual testing is divided by three to give a
- ^h Assumed that none of the facilities will petition for site-specific parameters.
- ⁱ Assumed that 10 percent of the facilities would not have a qualified operator available for more than two weeks at le
- ^j Assumed that 10 percent of the facilities would have an exceedance during the year ($86 \times 10\% = 8.6$, rounded to 9 fa
- ^k Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

CFR Part 60, Subpart MMMM) (Renewal)

108.28 144.33 53.34

(C)	(D)	(E)	(F)	(G)	(H)
Hours Per Respondent Per Year (C=AxB)	Number of Respondents Per Year ^a	Technical Hours Per Year (E=CxD)	Management Hours Per Year (F=Ex0.05)	Clerical Hours Per Year (G=Ex0.1)	Total Costs, \$ ^b
40	86	3,440	172	344	\$415,657
40	0	0	0	0	\$0
13.2	170	2,244	112.2	224.4	\$271,143.64
64	0	0	0	0	\$0
72	0	0	0	0	\$0
12	86	1,032	51.6	103.2	\$124,697.08
8	86	688	34.4	68.8	\$83,131.38
40	0	0	0	0	\$0
11	0	0	0	0	\$0
11	170	1,870	93.5	187	\$225,953.04
2	0	0	0	0	\$0
2	0	0	0	0	\$0
20	0	0	0	0	\$0
40	0	0	0	0	\$0
14	0	0	0	0	\$0
40	170	6,800	340	680	\$821,647.40
8	9	72	3.6	7.2	\$8,699.80
16	9	144	7.2	14.4	\$17,399.59
48	9	432	21.6	43.2	\$52,198.78
		19,230			\$2,020,528
104	86	8,944	447.2	894.4	\$1,080,708
2	9	18	0.9	1.8	\$2,174.95
0.66	86	56.76	2.84	5.68	\$6,858.34

2	86	172	8.6	17.2	\$20,782.85
2	86	172	8.6	17.2	\$20,782.85
2	86	172	8.6	17.2	\$20,782.85
2	86	172	8.6	17.2	\$20,782.85
24	86	2,064	103.2	206.4	\$249,394.15
			13,536		\$1,422,267
			32,800		\$3,440,000
					\$1,350,000
					\$4,790,000

responses hr/response
271 121.0332

the standard only affects existing units constructed on or before October 14, 2010; there will be no new units subject to the rule of 8.28 per hour for Technical labor, and \$53.34 per hour for Clerical labor. These rates are from the United States Department of Labor.

per year cost. It is assumed most facilities would meet the requirements.

at least once a year (86 x 10% = 8.6, rounded to 9 facilities). Assumed that this required only two status reports. (facilities).

1.

of Labor, Bureau of Labor Statistics, September 2016, "Table 2. Civilian Workers, by Occupational and Industry group."

' The rates are from column 1, "Total Compensation." The rates have been increased by 110 percent to account for the l

benefit packages available to those employed by private industry.

Table 2: Average Annual EPA Burden and Cost – Emission Guidelines for Sewage Sludge Incinerators (40 CFR Pa

Burden Item	(A)	(B)	(C)
	EPA Hours per Occurrence	Number of Occurrences Per Respondent Per Year	EPA Hours Per Respondent Per Year (C=AxB)
1. Applications	N/A		
2. Read and Understand Rule Requirements	40	1	40
3. Required Activities			
A. Observe stack tests ^a	48	1	48
B. Excess emissions -- Enforcement Activities ^b	24	1	24
C. Create Information	N/A		
D. Gather Information	N/A		
E. Report Reviews			
1) Review initial notifications	20	1	20
2) Review initial compliance report	40	1	40
3) Review annual compliance report	8	1	8
4) Review semiannual excess emission and parameter exceedance report ^b	16	2	32
5) Review notification and status reports for operators off-site ^c	4	3	12
F. Prepare annual summary report	200	1	200
5. Travel expenses: (1 person * 48 hours per trip / 8 hours per day * \$75 per diem) + (\$600 per round trip) = \$1,050 per trip (\$1,050 per trip x 11 trips) = \$11,550			
TOTAL ANNUAL BURDEN AND COST (rounded) ^d			

Assumptions

- ^a We assume that EPA personnel attends 20 percent of the stack tests. Facilities may test every three years if certain requirem
- ^b We assume that 10 percent of the facilities would have an exceedance during the year (86 x 10% = 8.6, rounded to 9 faciliti
- ^c We assume that 10 percent of the facilities would not have a qualified operator available for more than two weeks at least on
- ^d Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

Part 60, Subpart MMMM) (Renewal)

48.08 64.8 26.02

(D)	(E)	(F)	(G)	(H)
Number of Respondents Per Year ^a	Technical Hours Per Year (E=CXD)	Management Hours Per Year (F=Ex0.05)	Clerical Hours Per Year (G=Ex0.1)	Total Costs, \$ ^b
0	0	0	0	\$0
11	528	26.4	52.8	\$28,470.82
9	216	10.8	21.6	\$11,647.15
0	0	0	0	\$0
0	0	0	0	\$0
170	1,360	68	136	\$73,333.92
9	288	14.4	28.8	\$15,529.54
9	108	5.4	10.8	\$5,823.58
1	200	10	20	\$10,784.40
				\$11,550.00
		3,110		\$157,000

ents are met, thus annual testing is divided by three to give a per year cost. It is assumed most facilities would meet the requirements (as).

nce a year. We assume that this will require only two status reports, resulting in a total of 3 reports (1 notification and

he requirements. $(170 \text{ units per year} \times 0.33 \text{ stack test/unit} \times 20\%) = 11.33$, rounded to 11 stack tests per year)

| 2 status reports).

Capital/Startup vs. Operation and Maintenance (O&M) Costs				
(A)	(B)	(C)	(D)	(E)
Continuous Monitoring Device	Capital/Startup Cost for One Respondent	Number of New Respondents	Total Capital/Startup Cost, (B X C)	Annual O&M Costs for One Respondent
Fluidized Bed				
PBS parameter monitors	\$24,300	0	\$0	\$5,600
SNCR monitors	\$10,300	0	\$0	\$3,200
Initial and annual stack test	\$61,740	0	\$0	\$21,348
Multiple Hearth				
PBS parameter monitors	\$24,300	0	\$0	\$5,600
Initial and annual stack test	\$61,740	0	\$0	\$23,302
Total			\$0	

(F)	(G)
Number of Respondents with O&M	Total O&M, (E X F)
6	\$33,600
2	\$6,400
18	\$384,264
8	\$44,800
38	\$885,476
	\$1,350,000