

Table 1A: Annual Respondent Burden and Cost – Emission Guidelines for Sewage Sludge Incinerators (4C)

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	
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 Labor Burden and Costs (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 the rule is effective in 2010; there will be no new units subject to the rule.

^b This ICR uses the following labor rates: \$149.84 per hour for Executive, Administrative, and Managerial labor; \$12.00 per hour for other labor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, September 2020, "Table 2. Compensation, by occupation, sex, race, and hispanic or latino ethnicity, column 1, "Total Compensation." The rates have been increased by 110 percent to account for the benefit packages associated with the rule.

^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 cost.

^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 three-year average.

^h We have assumed that none of the facilities will petition for site-specific parameters.

ⁱ We have assumed that 10 percent of the facilities would not have a qualified operator available for more than two weeks. We also assumed that this required only two status reports.

^j We have assumed that 10 percent of the facilities would have an exceedance during the year ($86 \times 10\% = 8.6$, rounded to 9).

^k Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

) CFR Part 60, Subpart MMMM) (Renewal)

122.66 149.84 60.88

(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	\$468,666
40	0	0	0	0	\$0
13.2	170	2,244	112.2	224	\$305,722.56
64	0	0	0	0	\$0
72	0	0	0	0	\$0
12	86	1,032	51.6	103	\$140,599.68
8	86	688	34.4	68.8	\$93,733.12
40	0	0	0	0	\$0
11	0	0	0	0	\$0
11	170	1,870	93.5	187	\$254,768.80
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	\$926,432.00
8	9	72	3.6	7.2	\$9,809.28
16	9	144	7.2	14.4	\$19,618.56
48	9	432	21.6	43.2	\$58,855.68
			19,230		\$2,278,205
104	86	8,944	447	894	\$1,218,531
2	9	18	0.9	1.8	\$2,452.32
0.66	86	56.76	2.84	5.68	\$7,732.98
2	86	172	8.6	17.2	\$23,433.28

2	86	172	8.6	17.2	\$23,433.28
2	86	172	8.6	17.2	\$23,433.28
2	86	172	8.6	17.2	\$23,433.28
24	86	2,064	103	206	\$281,199.36
			13,536		\$1,603,648
			32,800		\$3,880,000
					\$1,350,000
					\$5,230,000

responses hr/response
271 121

ie standard only affects existing units constructed on or before October 14,

2.66 per hour for Technical labor, and \$60.88 per hour for Clerical labor.
vilian Workers, by Occupational and Industry group.” The rates are from
available to those employed by private industry.

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

eks at least once a year (86 x 10% = 8.6, rounded to 9 facilities). We have

ed to 9 facilities).

Table 1B: Average Annual State/Local Agency Burden and Cost - Emission Guidelines for Sewage Sludge Incineration

Burden Item	(A)	(B)	(C)
	State/Local Agency Hours per Occurrence	Number of Occurrences Per Respondent Per Year	State/Local Agency 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 ^c	48	1	48
B. Excess emissions -- Enforcement Activities ^d	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 ^d	16	2	32
5) Review notification and status reports for operators off-site ^e	4	3	12
F. Prepare annual summary report ^f	3	1	3
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 (rounded) ^g			

Assumptions

^a We have assumed that there will be an average of 170 units at 86 facilities that will be subject to the rule. We assume that 9 incinerator units) have been delegated authority by EPA and that 15 states/local jurisdictions (consisting of 38 facilities and 6

^b This cost is based on the following labor rates: Managerial rate of \$69.04 (GS-13, Step 5, \$43.15 + 60%), Technical rate of (GS-6, Step 3, \$17.33 + 60%). The rates have been increased by 60 percent to account for the benefit packages available to gc Management (OPM), 2021 General Schedule, which excludes locality rates of pay.

^c We assume that State/local agency personnel attends 20 percent of the stack tests. Facilities may test every three years if cer give a per year cost. It is assumed most facilities would meet the requirements. (102 units per year x 0.333 stack test/unit x 20

^d We assume that 10 percent of the 48 facilities would have an exceedance during the year (48 x 10% = 4.8, rounded to 5 facili

^e We assume that 10 percent of the facilities would not have a qualified operator available for more than two weeks at least or resulting in a total of 3 reports (1 notification and 2 status reports).

^f We assume that the 9 states/local agencies that have been delegated authority will take 3 hours per SSI facility to prepare the facilities in state/local jurisdictions.

^g Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

rators (40 CFR Part 60, Subpart MMMM) (Renewal)

51.23 69.04 27.73

(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)	Annual Costs (\$/year) ^b
0	0	0	0	\$0
7	336	16.8	33.6	\$19,304.88
5	120	6	12	\$6,894.60
0	0	0	0	\$0
0	0	0	0	\$0
102	816	40.8	81.6	\$46,883.28
5	160	8	16	\$9,192.80
5	60	3	6	\$3,447.30
48	144	7.2	14.4	\$8,273.52
				\$11,550
		1,880		\$106,000

states/local jurisdictions (consisting of 48 facilities and 102 incinerator units) will operate under the Federal Plan.

\$51.23 (GS-12, Step 1, \$32.02 + 60%), and Clerical rate of \$27.73 for government employees. These rates are from the Office of Personnel

tain requirements are met, thus annual testing is divided by three to 7%) = 6.79, rounded to 7 stack tests per year)

ilities).

ice a year. We assume that this will require only two status reports,

: annual summary report for the 48 sewage sludge incinerator

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 ^c	48	1	48
B. Excess emissions -- Enforcement Activities ^d	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 ^d	16	2	32
5) Review notification and status reports for operators off-site ^e	4	3	12
F. Prepare annual summary report ^f	3	1	3
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 (rounded) ^g			

Assumptions

^a We have assumed that there will be an average of 170 units at 86 facilities that will be subject to the rule. We assume that 9 incinerator units) have been delegated authority by EPA and that 15 states/local jurisdictions (consisting of 38 facilities and 6

^b This cost is based on the following labor rates: Managerial rate of \$69.04 (GS-13, Step 5, \$43.15 + 60%), Technical rate of (GS-6, Step 3, \$17.33 + 60%). The rates have been increased by 60 percent to account for the benefit packages available to gc Personnel Management (OPM), 2021 General Schedule, which excludes locality rates of pay.

^c We assume that EPA personnel attends 20 percent of the stack tests. Facilities may test every three years if certain requirem year cost. It is assumed most facilities would meet the requirements. (68 units per year x 0.333 stack test/unit x 20%) = 4.53,

^d We assume that 10 percent of the 38 facilities would have an exceedance during the year (38 x 10% = 3.8, rounded to 4 facili

^e We assume that 10 percent of the facilities would not have a qualified operator available for more than two weeks at least or reports, resulting in a total of 3 reports (1 notification and 2 status reports).

^f We assume that EPA will take 3 hours per SSI facility to prepare the annual summary report for the 38 sewage sludge incine

^g Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

Part 60, Subpart MMMM and Federal Plan) (Renewal)

51.23 69.04 27.73

(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)	Annual Costs (\$/year) ^b
0	0	0	0	\$0
5	240	12	24	\$13,789.20
4	96	4.8	9.6	\$5,515.68
0	0	0	0	\$0
0	0	0	0	\$0
68	544	27.2	54.4	\$31,255.52
4	128	6.4	12.8	\$7,354.24
4	48	2.4	4.8	\$2,757.84
38	114	5.7	11.4	\$6,549.87
				\$11,550
	1,350			\$78,800

states/local jurisdictions (consisting of 48 facilities and 102 incinerator units) will operate under the Federal Plan.

\$51.23 (GS-12, Step 1, \$32.02 + 60%), and Clerical rate of \$27.73 for government employees. These rates are from the Office of

requirements are met, thus annual testing is divided by three to give a per facility (rounded to 5 stack tests per year)

facilities).

once a year. We assume that this will require only two status

incinerator facilities operating under the Federal Plan.

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	

Number of Respondents				
	Respondents That Submit Reports		Respondents That Do Not Submit Any Reports	
	(A)	(B)	(C)	(D)
Year	Number of New Respondents ¹	Number of Existing Respondents	Number of Existing Respondents that keep records but do not submit reports	Number of Existing Respondents That Are Also New Respondents
1	0	86	0	0
2	0	86	0	0
3	0	86	0	0
Average	0	86	0	0

¹ New respondents include sources with constructed, reconstructed and modified

Total Annual Responses				
(A)	(B)	(C)	(D)	(E)
Information Collection Activity	Number of Respondents	Number of Responses	Number of Existing Respondents That Keep Records But Do Not Submit Reports	Total Annual Responses E=(BxC)+D
Notification of performance test	0	1	0	0
Notification of CMS demonstration	0	1	0	0
Final control plan	0	1	0	0
Initial compliance report	0	1	0	0
Annual stack test ^a	56	1	0	56
Annual compliance report ^b	170	1	0	170
Qualified operator notification ^c	9	1	0	9

Qualified operator status report ^c	9	2	0	18
Semiannual Deviation Report ^d	9	2	0	18
			Total	271

^a Facilities may test every three years if certain requirements are met, thus annual testing is divided by three

^b Based on the number of SSI units.

^c Assumed that 10 percent of the facilities would not have a qualified operator available for more than two w

^d Assumed that 10 percent of the facilities would have an exceedance during the year. 86 facilities x 10% = 8.6

(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

(E)
Number of Respondents (E=A+B+C-D)
86
86
86
86

hours/response 121

to give a per year cost. It is assumed most facilities would meet the requirements. Number of tests per year = $170 / 3 = 56$

weeks at least once a year. We assumed that this required only two status reports. $86 \text{ facilities} \times 10\% = 8.6$, rounded to 9 facilities. 8.6 , rounded to 9 facilities.

0.1, rounded to 56 tests per year.

ilities.