

Cost Factor (in 2008\$)	Reference/Note
Advanced Combustion Controls (Linkageless Boiler Management System) -- cost is per boiler - TCI	
\$	LBMS costs are based on a 2008 quote provided to the U.S. Department of Energy. The installed cost for a LBMS on a 20 mmBtu/hr unit was are \$19,127. The DOE noted that costs are relatively fixed, regardless of the size of the unit.
19,127	
Activated Carbon Injection	
Hospital/Medical/Infectious Waste Incinerators (HMIWI). [EPA-HQ-OAR-2006-0534]	Received spreadsheet of HMIWI model costs from Tom Holloway of RTI International.
Fabric Filter	
Hospital/Medical/Infectious Waste Incinerators (HMIWI). [EPA-HQ-OAR-2006-0534]	Received spreadsheet of HMIWI model costs from Tom Holloway of RTI International.
Packed Scrubber	
Hospital/Medical/Infectious Waste Incinerators (HMIWI). [EPA-HQ-OAR-2006-0534]	Received spreadsheet of HMIWI model costs from Tom Holloway of RTI International.
Secondary Chamber/Afterburner Retrofit	
Hospital/Medical/Infectious Waste Incinerators (HMIWI). [EPA-HQ-OAR-2006-0534]	Received spreadsheet of HMIWI model costs from Tom Holloway of RTI International.
Selective Non-Catalytic Reduction	
Hospital/Medical/Infectious Waste Incinerators (HMIWI). [EPA-HQ-OAR-2006-0534]	Received spreadsheet of HMIWI model costs from Tom Holloway of RTI International.
Catalytic Oxidizer	

Year of Costs
Assumed to represent \$2008, since that was the year the quote was obtained.
Originally \$2004
Originally \$2004
Originally \$2004
Originally \$2004
Originally \$2004

Originally \$2004

Table 1. Annual Respondent Burden and Cost Summary – Emission Guidelines and Federal Plan Requirements for Commercial and Industrial Solid Waste Incineration (CISWI) Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule)

ALL UNITS									
CISWI Unit Type	Total Number of Respondents Per year	Total Number of Units Per Year	Total Annual Average Responses	Total Annual Average Reporting Hours	Total Annual Average Recordkeeping Hours	Total Annual Average Total Labor Hours	Annual Average Total Labor Costs	Annualized Capital/O&M Costs	Total Annual Average Costs
Incinerator (including ACIs)	45	50	87	3,008	688	3,696	\$438,000	\$2,830,000	\$3,268,000
ERU, solid	13	22	32	1,372	412	1,784	\$211,667	\$3,200,000	\$3,411,667
Small, remote incinerator	1	1	3	199	31	230	\$27,000	\$100,000	\$127,000
ERU, liquid/gas	4	6	11	480	125	605	\$71,633	\$598,000	\$669,633
Waste-burning kilns	13	23	40	1,932	408	2,340	\$277,667	\$5,530,000	\$5,807,667
Subtotals (all types)	76	102	173	6,992	1,664	8,656	\$1,025,967	\$12,258,000	\$13,283,967
GRAND TOTAL (rounded)¹						8,660	\$1,030,000	\$12,300,000	\$13,300,000

¹ Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

FEDERAL PLAN UNITS									
CISWI Unit Type	Number of Respondents Per Year Subject to Federal Plan	Number of Units Subject to a Federal Plan	Total Annual Average Responses	Total Annual Average Reporting Hours	Total Annual Average Recordkeeping Hours	Total Annual Average Total Labor Hours	Annual Average Total Labor Costs	Annualized Capital/O&M Costs	Total Annual Average Costs
Incinerator (including ACIs)	32	36	65	2,134	282	2,416	\$286,197	\$1,364,952	\$1,651,149
ERU, solid	1	1	3	242	36	278	\$32,918	\$113,593	\$146,511
Small, remote incinerator	1	1	3	199	31	230	\$27,287	\$96,398	\$123,685
ERU, liquid/gas	1	2	5	247	31	279	\$33,002	\$176,180	\$209,182
Waste-burning kilns	5	6	16	1,059	156	1,215	\$143,965	\$1,443,643	\$1,587,608
Subtotals (all types)	40	46	92	3,881	536	4,418	\$523,368	\$3,194,766	\$3,718,134
GRAND TOTAL (rounded)¹						4,420	\$520,000	\$3,200,000	\$3,700,000

¹ Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

STATE PLAN UNITS									
CISWI Unit Type	Number of Respondents Per Year Subject to a State Plan	Number of Units Subject to a State Plan	Total Annual Average Responses	Total Annual Average Reporting Hours	Total Annual Average Recordkeeping Hours	Total Annual Average Total Labor Hours	Annual Average Total Labor Costs	Annualized Capital/O&M Costs	Total Annual Average Costs
Incinerator (including ACIs)	13	14	20	874	406	1,280	\$151,676	\$1,466,348	\$1,618,024
ERU, solid	12	21	29	1,130	376	1,506	\$177,378	\$3,091,155	\$3,268,532
Small, remote incinerator	0	0	0	0	0	0	\$0	\$0	\$0
ERU, liquid/gas	3	4	6	233	94	326	\$38,665	\$421,860	\$460,525
Waste-burning kilns	8	17	24	874	251	1,125	\$133,263	\$4,087,321	\$4,220,584
Subtotals (all types)	36	56	79	3,111	1,127	4,238	\$500,982	\$9,066,684	\$9,567,665
GRAND TOTAL (rounded)¹						4,240	\$500,000	\$9,100,000	\$9,600,000

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**Table 1.A - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Emissions Guidelines
for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 1, Incinerate**

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Emission Testing Contractor Hours Per Occurrence	(C) Non-Labor Costs Per Occurrence	(D) Number of Occurrences Per Respondent Per Year	(E) Hours Per Respondent Per Year (C=A x B)	(F) Number of Respondents Per Year (a)	(G) Technical Hours Per Year (CXD)	(H) Management Hours Per Year (E x 0.05)	(I) Clerical Hours Per Year (E x 0.1)	(J) Emission Testing Contractor Hours Per Year	(K) Total Labor Costs Per Year (b)
1. Applications	Not applicable										
2. Surveys and Studies	Not applicable										
3. Reporting Requirements											
A. Read and Understand Rule Requirements	1	0	\$100	1	1	9	9	0	1	0	\$1,226
B. Required Activities											
1) Initial stack test and report (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO2 (as required))	Included in E.	varies	\$86,200	1	0	13	0	0	0	1,078	\$0
2) Annual stack test and test report (PM, HCl, Opacity, and Fugitive Emissions)	Included in E.	1082	\$86,540	1	0	0	0	0	0	0	\$0
3) Operator training and qualification											
a) Establish and teach operator qualification course	64	0	\$0	1	64	9	576	29	58	0	\$78,474
b) Obtain operator qualification	72	0	\$0	1	72	9	648	32	65	0	\$88,284
c) Annual refresher course	12		\$0	1	12	0	0	0	0	0	\$0
d) Initial review of site-specific information	Included in a.										
e) Annual review of site-specific information	8	0	\$0	1	8	0	0	0	0	0	\$0
4) Establish operating parameters (maximum and minimum)	40	Included in B.1.	\$0	1	40	13	520	26	52	0	\$70,845
5) Continuous parameter monitoring (including CEMS)											
a) Initial costs	17	0	\$48,900	1	17	13	221	11	22	0	\$30,109
b) Annual costs	17	0	\$239,932	1	17	13	221	11	22	0	\$30,109
C. Create Information	Included in 3.B										
D. Gather Information	Included in 3.E										
E. Report Preparation											
1) Notification of initial performance test											
a) Pollutants, fugitive ash emissions	2	0	\$0	1	2	13	26	1	3	0	\$3,542
b) Fugitive Ash Emissions	1	0	\$0	1	1	13	13	1	1	0	\$1,771
2) Notification of initial CMS Demonstration	2	0	\$0	1	2	9	18	1	2	0	\$2,452
3) Report of initial performance test											
a) Pollutants, fugitive ash emissions	8	0	\$7.50	1	8	13	104	5	10	0	\$14,169
b) Fugitive Ash Emissions	2	0	\$0	1	2	13	26	1	3	0	\$3,542
4) Report of initial CMS demonstration	Included in 3.B.5										
5) Report prior to construction (includes siting analysis)	160	0	\$0	1	160	9	1,440	72	144	0	\$196,186
6) Report prior to initial start-up											
a) Without site specific parameter petition	6	0	\$0	1	6	0	0	0	0	0	\$0
b) With site specific parameter petition	14	0	\$0	1	14	0	0	0	0	0	\$0

**Table 1.A - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Emissions Guidelines
for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 1, Incinerate**

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	(B) Number of Occurrences Per Respondent Per Year	(C) Hours Per Respondent Per Year (C=A x B)	(D) Number of Respondents Per Year (a)	(E) Technical Hours Per Year (CXD)	(F) Management Hours Per Year (E x 0.05)	(G) Clerical Hours Per Year (E x 0.1)	(H) Emission Testing Contractor Hours Per Year	Total Labor Costs Per Year (b)
7) Report of initial stack test	Included in 3.B.1										
8) Report established values for site-specific operating parameters	Included in 3.B	0	\$0	1	#VALUE!	0	0	0	0	0	\$0
9) Waste management plan	160	0	\$0	1	160	9	1,440	72	144	0	\$196,186
10) Annual Report:											
a) Results of performance tests conducted during the year	40	0	\$7.50	1	40	0	0	0	0	0	\$0
11) Status report for operators that are off-site for more than 2 weeks	8	0	\$0	1	8	0.9	7	0	1	0	\$981
12) Corrective action summary for operators that are off-site for more than 2 weeks	8	0	\$0	2	16	0.9	14	1	1	0	\$1,962
13) Semiannual report of emissions/parameter exceedances	24	0	\$7.50	1	24	0.9	22	1	2	0	\$2,943
F. Affirmative Defense Claim	30	0	\$0	0	0	0	0	0	0	0	\$0
Reporting Subtotal							5,305	265	531	1,078	\$722,780
4. Recordkeeping Requirements											
A. Read Instructions	Included in 3.A										
B. Plan Activities	Not applicable										
C. Implement Activities	Not applicable										
D. Develop Record System	Not applicable										
E. Record Information											
1) Records of operating parameters	Included in 3.B.5.	0	\$0	52	0	0	0	0	0	0	\$0
2) Records of periods for which minimum amount of data on operating parameters were not obtained	0.5	0	\$0	52	26	0	0	0	0	0	\$0
3) Records of malfunction of the unit	1.5	0	\$0	1	1.5	0	0	0	0	0	\$0
4) Records of exceedances of the operating parameters	1.5	0	\$0	1	1.5	0.9	1	0	0	0	\$184
5) Records of stack tests	Included in 3.E										
6) Records of siting analysis	Included in 3.E										
7) Records of persons who have reviewed operating procedures	1	0	\$0	1	1	0	0	0	0	0	\$0
8) Records of persons who have completed operator training	1	0	\$0	1	1	0	0	0	0	0	\$0
9) Records of persons who meet operator qualification criteria	1	0	\$0	1	1	0	0	0	0	0	\$0
10) Records of monitoring device calibration	Included in 3.B										
11) Records of site-specific documentation	24	0	\$0	1	24	0	0	0	0	0	\$0

**Table 1.A - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Emissions Guidelines
for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 1, Incineration**

For for Existing Stationary Sources: Commercial and Industrial Solid Was (H) (H) TotaTotal LaboLabor Costs	(A) Respondent Hours per Occurrence (Technical hours)	Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	(B) Number of Occurrences Per Respondent Per Year	(C) Hours Per Respondent Per Year (C=A x B)	(D) Number of Respondents Per Year (a)	(E) Technical Hours Per Year (CXD)	(F) Management Hours Per Year (E x 0.05)	(G) Clerical Hours Per Year (E x 0.1)	(H) Emission Testing Contractor Hours Per Year	Total Labor Costs Per Year (b)
Burden Item											
F. Personnel Training	Included in 3.B										
G. Time for Audits	Not applicable										
Recordkeeping Subtotal							1.35	0.0675	0.135	0	\$184
TOTAL:							5,307	265	531	1,078	\$722,964
								Total Hours	Labor	Non-Labor	Total
Summary of Respondent Burden								6,103	\$722,964	\$1,410,436	\$2,133,400
Annualized Capital and Startup										\$1,170,400	\$1,170,400
O & M Summary										\$239,932	\$239,932

FOOTNOTES

- ^a Based on the total number of existing units expected to continue operating once the guidelines become effective.
- ^b Costs are based on the following hourly rates: technical at \$34.60, management at \$82.23, clerical at \$22.32, and testing contractor at \$80.
- ^c One-time only costs.
- ^d Cost incurred by a facility regardless of the number of affected units at the plant.
- ^e Annual cost. Annual costs are not incurred until the second year of operation.
- ^f Based on the sum of the annualized capital costs for each monitoring system required for incinerators.
- ^g Based on the sum of the calculated annual cost for each monitoring system required for incinerators.
- ^h Assumed that one-third 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 least once a year. Assumed that this required only two corrective action summaries.
- ^j Assumed that 10 percent of the facilities would have an exceedance during the year.
- ^k Standards apply at all times under the newly proposed regulation. Therefore no periods of unobtained data or malfunction periods are expected.
- ^l Assumed \$100 for purchase of filing cabinet to house copy of rule, records and report copies.

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Total Non-Labor Costs Per Year	Total Responses Per Year	Footnotes
\$900	9	c, d, l
\$1,120,600	13	c
\$0	0	e
\$0	9	c
\$0	9	c
\$0	0	e
\$0	0	e
\$0	13	c
\$48,900	13	c, f
\$239,932	13	e, g
\$0	13	
\$0	13	
\$0	9	
\$98	13	
\$0	13	
\$0	9	c
\$0	0	c, h
\$0	0	c, h

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Total Non-Labor Costs Per Year	Total Responses Per Year	Footnotes
\$0	0	c
\$0	9	c
\$0	0	
\$0	1	i
\$0	2	i
\$7	1	j
\$0	0	m
	162	
\$0	0	
\$0	0	k
\$0	0	k
\$0	1	j
\$0	0	
\$0	0	
\$0	0	
\$0	0	

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Total Non-Labor Costs Per Year	Total Responses Per Year	Footnotes
\$0	0.9	
\$1,410,436	163	

**Table 1.B - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Emissions Guidelines
for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 2, Incineration**

for for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 2, Incineration (H) (H) Total Labor Costs	(A) Respondent Hours per Occurrence (Technical hours)	Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	(B) Number of Occurrences Per Respondent Per Year	(C) Hours Per Respondent Per Year (C=A x B)	(D) Number of Respondents Per Year (a)	(E) Technical Hours Per Year (CXD)	(F) Management Hours Per Year (E x 0.05)	(G) Clerical Hours Per Year (E x 0.1)	(H) Emission Testing Contractor Hours Per Year	Total Labor Costs Per Year (b)
Burden Item											
1. Applications	Not applicable										
2. Surveys and Studies	Not applicable										
3. Reporting Requirements											
A. Read and Understand Rule Requirements	1	0	\$0	1	1	0	0	0	0	0	\$0
B. Required Activities											
1) Initial stack test and report (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO2 (as required))	Included in E.	varies	\$0	1	0	0	0	0	0	0	\$0
2) Annual stack test and test report (PM, HCl, Opacity, and Fugitive Ash)	Included in E.	1082	\$86,540	1	0	13	0	0	0	14,063	\$0
3) Operator training and qualification											
a) Establish and teach operator qualification course	64	0	\$0	1	64	0	0	0	0	0	\$0
b) Obtain operator qualification	72	0	\$0	1	72	0	0	0	0	0	\$0
c) Annual refresher course	12		\$0	1	12	9	108	5	11	0	\$14,714
d) Initial review of site-specific information	Included in a.										
e) Annual review of site-specific information	8	0	\$0	1	8	9	72	4	7	0	\$9,809
4) Establish operating parameters (maximum and minimum)	40	Included in B.1.	\$0	1	40	0	0	0	0	0	\$0
5) Continuous parameter monitoring (including CEMS)											
a) Initial costs	17	0	\$48,900	1	17	0	0	0	0	0	\$0
b) Annual costs	17	0	\$239,932	1	17	13	221	11	22	0	\$30,109
C. Create Information	Included in 3.B										
D. Gather Information	Included in 3.E										
E. Report Preparation											
1) Notification of initial performance test											
a) Pollutants, fugitive ash emissions	2	0	\$0	1	2	0	0	0	0	0	\$0
b) Fugitive Ash Emissions	1	0	\$0	1	1	0	0	0	0	0	\$0
2) Notification of initial CMS Demonstration	2	0	\$0	1	2	0	0	0	0	0	\$0
3) Report of initial performance test											
a) Pollutants, fugitive ash emissions	8	0	\$7.50	1	8	0	0	0	0	0	\$0
b) Fugitive Ash Emissions	2	0	\$0	1	2	0	0	0	0	0	\$0
4) Report of initial CMS demonstration	Included in 3.B.5										
5) Report prior to construction (includes siting analysis)	160	0	\$0	1	160	0	0	0	0	0	\$0

**Table 1.B - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Emissions Guidelines
for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 2, Incineration**

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	(B) Number of Occurrences Per Respondent Per Year	(C) Hours Per Respondent Per Year (C=A x B)	(D) Number of Respondents Per Year (a)	(E) Technical Hours Per Year (CXD)	(F) Management Hours Per Year (E x 0.05)	(G) Clerical Hours Per Year (E x 0.1)	(H) Emission Testing Contractor Hours Per Year	Total Labor Costs Per Year (b)
6) Report prior to initial start-up											
a) Without site specific parameter petition	6	0	\$0	1	6	0	0	0	0	0	\$0
b) With site specific parameter petition	14	0	\$0	1	14	0	0	0	0	0	\$0
7) Report of initial stack test	Included in 3.B.1										
8) Report established values for site-specific operating parameters	Included in 3.B	0	\$0	1	#VALUE!	0	0	0	0	0	\$0
9) Waste management plan	160	0	\$0	1	160	0	0	0	0	0	\$0
10) Annual Report:											
a) Results of performance tests conducted during the year	40	0	\$7.50	1	40	13	520	26	52	0	\$70,845
11) Status report for operators that are off-site for more than 2	8	0	\$0	1	8	0.9	7	0	1	0	\$981
12) Corrective action summary for operators that are off-site for more than 2 weeks	8	0	\$0	2	16	0.9	14	1	1	0	\$1,962
13) Semiannual report of emissions/parameter exceedances	24	0	\$7.50	1	24	0.9	22	1	2	0	\$2,943
F. Affirmative Defense Claim	30	0	\$0	0	0	0	0	0	0	0	\$0
Reporting Subtotal							964	48	96	14,063	\$131,363
4. Recordkeeping Requirements											
A. Read Instructions	Included in 3.A										
B. Plan Activities	Not applicable										
C. Implement Activities	Not applicable										
D. Develop Record System	Not applicable										
E. Record Information											
1) Records of operating parameters	Included in 3.B.5.b	0	\$0	52	0	0	0	0	0	0	\$0
2) Records of periods for which minimum amount of data on operating parameters were not obtained	0.5	0	\$0	52	26	0	0	0	0	0	\$0
3) Records of malfunction of the unit	1.5	0	\$0	1	1.5	0	0	0	0	0	\$0
4) Records of exceedances of the operating parameters	1.5	0	\$0	1	1.5	0.9	1	0	0	0	\$184
5) Records of stack tests	Included in 3.E										
6) Records of siting analysis	Included in 3.E										
7) Records of persons who have reviewed operating procedures	1	0	\$0	1	1	9	9	0	1	0	\$1,226
8) Records of persons who have completed operator training	1	0	\$0	1	1	9	9	0	1	0	\$1,226
9) Records of persons who meet operator qualification criteria	1	0	\$0	1	1	9	9	0	1	0	\$1,226
10) Records of monitoring device calibration	Included in 3.B										
11) Records of site-specific documentation	24	0	\$0	1	24	9	216	11	22	0	\$29,428

**Table 1.B - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Emissions Guidelines
for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 2, Incineration**

for for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 2, Incineration	(A) Respondent Hours per Occurrence (Technical hours)	Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	(B) Number of Occurrences Per Respondent Per Year	(C) Hours Per Respondent Per Year (C=A x B)	(D) Number of Respondents Per Year (a)	(E) Technical Hours Per Year (CXD)	(F) Management Hours Per Year (E x 0.05)	(G) Clerical Hours Per Year (E x 0.1)	(H) Emission Testing Contractor Hours Per Year	Total Labor Costs Per Year (b)
Burden Item											
F. Personnel Training	Included in 3.B										
G. Time for Audits	Not applicable										
<i>Recordkeeping Subtotal</i>							244.35	12.2175	24.435	0	\$33,290
TOTAL:							1,209	60	121	14,063	\$164,653
							Total Hours				
							Summary of Respondent Burden		1,390	\$164,653	\$1,413,956
							Annualized Capital and Startup			\$48,900	\$48,900
							O & M Summary			\$239,932	\$239,932

FOOTNOTES

- ^a Based on the total number of existing units expected to continue operating once the guidelines become effective.
- ^b Costs are based on the following hourly rates: technical at \$34.60, management at \$82.23, clerical at \$22.32, and testing contractor at \$80.
- ^c One-time only costs.
- ^d Cost incurred by a facility regardless of the number of affected units at the plant.
- ^e Annual cost. Annual costs are not incurred until the second year of operation.
- ^f Based on the sum of the annualized capital costs for each monitoring system required for incinerators.
- ^g Based on the sum of the calculated annual cost for each monitoring system required for incinerators.
- ^h Assumed that one-third 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 least once a year. Assumed that this required only two corrective action summaries.
- ^j Assumed that 10 percent of the facilities would have an exceedance during the year.
- ^k Standards apply at all times under the newly proposed regulation. Therefore no periods of unobtained data or malfunction periods are expected.
- ^l Assumed \$100 for purchase of filing cabinet to house copy of rule, records and report copies.

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Total Non-Labor Costs Per Year	Total Responses Per Year	Footnotes
\$0	0	c, d, l
\$0	0	c
\$1,125,020	13	e
\$0	0	c
\$0	0	c
\$0	9	e
\$0	9	e
\$0	0	c
\$48,900	0	c, f
\$239,932	13	e, g
\$0	0	
\$0	0	
\$0	0	
\$0	0	
\$0	0	
\$0	0	
\$0	0	c

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Total Non-Labor Costs Per Year	Total Responses Per Year	Footnotes
\$0	0	c, h
\$0	0	c, h
\$0	0	c
\$0	0	c
\$98	13	
\$0	1	i
\$0	2	i
\$7	1	j
\$0	0	m
	61	
\$0	0	
\$0	0	k
\$0	0	k
\$0	1	j
\$0	9	
\$0	9	
\$0	9	
\$0	9	

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Total Non-Labor Costs Per Year	Total Responses Per Year	Footnotes
\$0	36.9	
\$1,413,956	98	

Federal Plan Units (see cell Q42 for estimated EG units and monitoring inputs)

Existing Unit Inputs	Incinerators	Energy recovery units - Solids	Small, remote incinerators	Energy recovery units - Liquid/Gas	Waste-burning kilns
Number of Units	13	1	1	2	6
Number of Facilities	9	1	1	1	5
Total Initial Stack Test Cost	\$1,120,600	\$86,200	\$86,200	\$172,400	\$383,600
Average Initial Stack Test Cost	\$86,200	\$86,200	\$86,200	\$86,200	\$63,933
Additional Monitoring Inputs					
Number of Bag Leak Detectors:	9	1	1	0	1
Number of DIFF Monitors	0	0	0	0	0
Number of PBS Parameter Monitors:	0	0	0	0	5
Number of SNCR Monitors:	4	0	0	1	0
Number of CO CEMS:	0	0	0	0	0
Number of PM CEMS or PM CPMS:	0	0	0	0	6
Number of Opacity Monitors:	0	0	0	2	0
Number of Oxygen Monitors:	0	0	0	0	0
Number of Hg CEMS:	0	0	0	0	6
Number of ACI Monitors:	13	1	1	0	6
Average Cost of ACI Monitoring:	\$11,750	\$18,750	\$1,558	\$0	\$20,417

Note: Stack testing costs have been updated from \$2008 to \$2022 using the CEPCI Index.
Note: ACI Monitoring costs have been updated from \$2014 to \$2022 using the CEPCI Index.

Capital/Startup vs. Operation and Maintenance (O&M) Costs										
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
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	Number of Respondents with O&M Subject to the Federal Plan	Total O&M (Federal Plan), (E x F)	Number of Respondents with O&M Subject to a State Plan	Total O&M (State Plan), (I x H)	Total Number of Respondents with O&M (F+H)	Total O&M, (G+I)
Initial and Annual stack test										
-Incinerator	NA	0	0	\$86,540	13	\$1,125,020	14	\$1,211,560	27	\$2,336,580
-ERU, solid	NA	0	0	\$86,540	1	\$86,540	21	\$1,817,240	22	\$1,903,780
-small remote incinerator	NA	0	0	\$86,540	1	\$86,540	0	\$0	1	\$86,540
-ERU, liquid	NA	0	0	\$86,540	2	\$173,080	4	\$346,160	6	\$519,240
-waste-burning kiln	NA	0	0	\$64,273	6	\$385,640	17	\$1,092,647	23	\$1,478,287
SMS										
-Incinerator	NA	0	0	\$18,456	13	\$239,932	14	\$254,788	27	\$494,720
-ERU, solid	NA	0	0	\$27,053	1	\$27,053	21	\$1,273,815	22	\$1,300,868
-small remote incinerator	NA	0	0	\$9,858	1	\$9,858	0	\$0	1	\$9,858
-ERU, liquid	NA	0	0	\$1,508	2	\$3,016	4	\$75,768	6	\$78,784
-waste-burning kiln	NA	0	0	\$176,334	6	\$1,058,003	17	\$2,994,674	23	\$4,052,677
Photocopy and postage										
-annual report	NA	0	0	\$8	46	\$343	56	\$428	102	\$763
-semiannual report	NA	0	0	\$8	4.6	\$37	5.6	\$42	10.2	\$77
TOTAL				\$8	4.6	\$3,280,000		\$8,188,000		\$12,368,000

Note: Stack testing and CEMS costs have been updated from \$2008 to \$2022 using the CEPCI Index.

Prior Values (from 2014 ICR)	Incinerators	Energy recovery units - Solids	Small, remote incinerators	Energy recovery units - Liquid/Gas	Waste-burning kilns
Number of Units	3	22	28	6	23
Number of Facilities	3	13	24	4	13
Additional Monitoring Inputs					
Number of Bag Leak Detectors:	2	4	22	4	5
Number of DIFF Monitors	0	11	0	0	0
Number of PBS Parameter Monitors:	0	11	0	0	18
Number of SNCR Monitors:	1	0	0	2	1
Number of CO CEMS:	0	0	0	0	0
Number of PM CEMS or PM CPMS:	0	16	0	1	23
Number of Opacity Monitors:	0	0	0	5	0
Number of Oxygen Monitors:	0	22	0	0	0
Number of Hg CEMS:	0	0	0	0	23
Number of ACI Monitors:	3	15	22	0	22
Average Cost of ACI Monitoring:	\$8,300	\$13,240	\$1,100	\$0	\$7,355

Prior Values (from 2022 ICR)	Incinerators	Energy recovery units	Small, remote incinerators	Energy recovery units	Waste-burning kilns
Number of Units	27	22	30	6	23

Number of Facilities	22	13	26	4	13
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Additional Monitoring Inputs					
Number of Bag Leak Detectors:	18	4	24	4	5
Number of DIFF Monitors	0	11	0	0	0
Number of PBS Parameter Monitors:	0	11	0	0	18
Number of SNCR Monitors:	9	0	0	2	1
Number of CO CEMS:	0	0	0	0	0
Number of PM CEMS or PM CPMS:	0	16	0	1	23
Number of Opacity Monitors:	0	0	0	5	0
Number of Oxygen Monitors:	0	22	0	0	0
Number of Hg CEMS:	0	0	0	0	23
Number of ACI Monitors:	27	15	24	0	22
Average Cost of ACI Monitoring:	###	###	###	0	###

EG Units	Incinerators	Energy recovery units	Small, remote incinerators	Energy recovery units	Waste-burning kilns
Number of Units	14	21	0	4	17
Number of Facilities	13	12	0	3	8
Additional Monitoring Inputs					
Number of Bag Leak Detectors:	9	4	0	3	4
Number of DIFF Monitors	0	11	0	0	0
Number of PBS Parameter Monitors:	0	11	0	0	13
Number of SNCR Monitors:	5	0	0	1	1
Number of CO CEMS:	0	0	0	0	0
Number of PM CEMS or PM CPMS:	0	15	0	1	17
Number of Opacity Monitors:	0	0	0	3	0
Number of Oxygen Monitors:	0	21	0	0	0
Number of Hg CEMS:	0	0	0	0	17
Number of ACI Monitors:	14	14	0	0	16

Table 1a - Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Incinerators

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b	
1. Applications	N/A								
2. Surveys and Studies	N/A								
3. Reporting Requirements									
A. Familiarization with Rule Requirements ^c									
1) Facilities subject to Federal Plan	16	1	16	9	144	7	14	\$19,618.56	FP facilities
2) Facilities subject to State Plan	1	1	1	13	13	1	1	\$1,771.12	EG facilities
B. Required Activities									
1) Initial stack test and report (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO2 (as required)) ^d	See 3.E.								
2) Annual stack test and test report (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO2 (as required)) ^e	See 3.E.10								
3) Operator training and qualification									
a) Establish and teach operator qualification course ^f	64	1	64	9	576	29	58	\$78,474	FP facilities
b) Obtain operator qualification ^f	72	1	72	9	648	32	65	\$88,284	FP facilities
c) Annual refresher course ^g	12	1	12	13	156	7.8	15.6	\$21,253.44	EG facilities
d) Initial review of site-specific information	See 3.B.3.a.								
e) Annual review of site-specific information ^g	8	1	8	13	104	5.2	10.4	\$14,168.96	EG facilities
4) Establish operating parameters (maximum and minimum) ^d	40	1	40	9	360	18	36	\$49,046	FP facilities
5) Continuous parameter monitoring (including CEMS)									
a) Initial costs ^f	17	1	17	0	0	0	0	\$0	
b) Annual costs ^g	17	1	17	0	0	0	0	\$0	
C. Create Information	See 3.B								
D. Gather Information	See 3.E								
E. Report Preparation									
1) Notification of initial performance test ^h									
a) Pollutants, fugitive ash emissions	2	1	2	13	26	1	3	\$3,542	FP Units
b) Fugitive Ash Emissions	1	1	1	13	13	1	1	\$1,771	FP Units
c) Air Curtain Incinerators (opacity)	1	1	1	23	23	1	2	\$3,134	FP ACI
2) Notification of initial CMS Demonstration ^h	2	1	2	0	0	0	0	\$0	
3) Report of initial performance test ^h									
a) Pollutants, fugitive ash emissions	40	1	40	13	520	26	52	\$70,845	FP Units
b) Fugitive Ash Emissions	8	1	8	13	104	5	10	\$14,169	FP Units
c) Air Curtain Incinerators (opacity)	8	1	8	23	184	9	18	\$25,068	FP Units

Table 1a - Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Incinerators

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b	
4) Report of initial CMS demonstration ^h	See 3.B.5								
5) Report prior to construction (includes siting analysis) ^h	160	1	160	0	0	0	0	\$0	
6) Report prior to initial start-up ^{h, i}									
a) Without site specific parameter petition	6	1	6	0	0	0	0	\$0	
b) With site specific parameter petition	14	1	14	0	0	0	0	\$0	
7) Report of initial stack test ^h	See 3.B.1								
8) Report established values for site-specific operating parameters ^h	See 3.B								
9) Waste management plan ^h	160	1	160	9	1,440	72	144	\$196,186	FP facilities
10) Report results of annual performance test ^e a) Non-ACI units - all pollutants	30	1	30	14	420	21	42	\$57,220.80	EG units
b) ACIs - Report results of annual opacity test ^e	4	1	4	0	0	0	0	\$0.00	
11) Status report for operators that are off-site for more than 2 weeks ⁱ a) Units subject to Federal Plan	8	1	8	1.3	10.4	0.52	1.04	\$1,416.90	FP Units
b) Units subject to State Plan	8	1	8	1.4	11.2	0.56	1.12	\$1,525.89	EG units
12) Corrective action summary for operators that are off-site for more than 2 weeks ⁱ a) Units subject to Federal Plan	8	2	16	1.3	20.8	1.04	2.08	\$2,833.79	FP Units
b) Units subject to State Plan	8	2	16	1.4	22.4	1.12	2.24	\$3,051.78	EG units
13) Semiannual report of emissions/parameter exceedances ^h a) Units subject to Federal Plan	24	1	24	1.3	31.2	1.56	3.12	\$4,250.69	FP Units
b) Units subject to State Plan	24	1	24	1.4	33.6	1.68	3.36	\$4,577.66	EG units
Subtotal for Reporting Requirements					5,590			\$662,208	
4. Recordkeeping Requirements									
A. Familiarization with Rule Requirements	See 3.A								
B. Plan Activities	N/A								
C. Implement Activities	N/A								
D. Develop Record System	N/A								
E. Record Information									
1) Records of operating parameters	See 3.B.5.b								
2) Records of periods for which minimum amount of data on operating parameters were not obtained ⁱ	0.5	52	26	0	0	0	0	\$0	
3) Records of malfunction of the unit ⁱ	1.5	1	1.5	0	0	0	0	\$0	

Table 1a - Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Incinerators

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b	
4) Records of exceedances of the operating parameters ^k a) Units subject to Federal Plan	1.5	1	1.5	1.3	1.95	0.10	0.20	\$265.67	FP Units
b) Units subject to State Plan	1.5	1	1.5	1.4	2.10	0.11	0.21	\$286.10	EG units
5) Records of stack tests	See 3.E								
6) Records of siting analysis	See 3.E								
7) Records of persons who have reviewed operating procedures a) Facilities subject to Federal Plan	1	1	1	9	9	0.45	0.9	\$1,226.16	FP Units
b) Facilities subject to State Plan	1	1	1	13	13	0.65	1.3	\$1,771.12	EG units
8) Records of persons who have completed operator training a) Facilities subject to Federal Plan	1	1	1	9	9	0.45	0.9	\$1,226.16	FP Units
b) Facilities subject to State Plan	1	1	1	13	13	0.65	1.3	\$1,771.12	EG units
9) Records of persons who meet operator qualification criteria a) Facilities subject to Federal Plan	1	1	1	9	9	0.45	0.9	\$1,226.16	FP Units
b) Facilities subject to State Plan	1	1	1	13	13	0.65	1.3	\$1,771.12	EG units
10) Records of monitoring device calibration	See 3.B								
11) Records of site-specific documentation a) Facilities subject to Federal Plan	24	1	24	9	216	10.8	21.6	\$29,427.84	FP Units
b) Facilities subject to State Plan	24	1	24	13	312	15.60	31.2	\$42,506.88	EG units
F. Personnel Training	See 3.B								
G. Time for Audits	N/A								
Subtotal for Recordkeeping Requirements					688			\$81,478	
Total Labor Burden and Costs (rounded) ^m					6,277			\$744,000	
Total Capital and O&M Cost (rounded) ^m									\$2,830,000
GRAND TOTAL (rounded) ^m									\$3,570,000

Assumptions

^a We assume an average of 76 CISWI units at 102 existing respondents per year over the next three years. No new units or respondents are anticipated over the next three years. This consists of 27 incinerator units located at 22 facilities, 22 energy recovery units - solids located at 13 facilities, 1 small, remote incinerator located at 1 facility, 6 energy recovery units - liquids located at 4 facilities, 23 waste burning kilns located at 13 facilities, and 23 air curtain incinerators located at 23 facilities. Of these, 13 incinerator units located at 9 facilities, 1 energy recovery unit-solids located at 1 facility, 1 small remote incinerator located at 1 facility, 2 energy recovery unit-liquids located at 1 facility, 6 waste burning kilns located at 5 facilities, and 23 air curtain incinerators located at 23 facilities are subject to the Federal Plan. There are 14 incinerators at 13 facilities, 21 energy recovery units-solid at 12 facilities, 4 energy recovery units-liquids located at 3 facilities, and 17 waste burning kilns located at 8 facilities subject to State Plans.

Table 1a - Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Incinerators

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b
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^b This ICR uses the following labor rates: \$130.28 (technical), \$163.17 (managerial), and \$65.71 (clerical). These rates are from the United States Department of Labor, Bureau of Labor Statistics, September 2022, “Table 2. Civilian workers, by occupational and industry group.” The rates are from column 1, “Total compensation.” They have been increased by 110 percent to account for the benefit packages available to those employed by private industry.

^c We assume that each respondent will re-familiarize with the requirements each year.

^d Initial stack testing is performed when a new unit is completed or upon initial compliance with the Federal Plan. No new units are expected over the next three years. Operating parameters are established during the initial stack test for a unit.

^e Annual stack testing is performed each year. Labor costs are accounted in the Reporting section. Testing costs are due to contractor labor and are accounted for in Capital and O&M Cost section.

^f These operator qualification requirements and compliance costs are associated with the startup of a new unit or upon initial compliance with a state plan or the Federal Plan. We assume that all state plan facilities have completed initial monitoring requirements.

^g The refresher course and annual review requirements occur each year. CEMS maintenance is performed each year. Annual reporting costs for the CEMS are calculated under the operation and maintenance (O&M) cost section.

^h These notifications, reports, and waste management plan are generally required for newly constructed units. No new units are expected over the next three years (the NSPS covers new sources). We anticipate that initial performance tests and waste management plans will be submitted upon initial compliance with the Federal Plan.

ⁱ We assume that one-third of the facilities will petition for site-specific parameters.

^j We assume that 10 percent of the CISWI units at facilities would not have a qualified operator available for more than two weeks at least once a year. We also assume that this required only two corrective action summaries.

^k We assume that 10 percent of the CISWI units at facilities would have one exceedance during the year. The rule requires the semiannual report be submitted only in the event of an exceedance. Therefore, only 1 semiannual report is submitted for each emissions/parameter exceedance.

^l The standards apply at all times under this regulation. Therefore, no periods of unobtained data or malfunction periods are expected.

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

Testing, Operation, and Maintenance Costs				
Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	Emission Testing Contractor Hours Per Year	Total Non-Labor Costs Per Year	Total Responses Per Year
0	\$0	0	\$0	0
0	\$0	0	\$0	0
varies	\$86,540	0	\$1,125,020	0
1082	\$86,540	0	\$1,211,560	0
0	\$0	0	\$0	0
0	\$0	0	\$0	0
0	\$0	0	\$0	0
0	\$0	0	\$0	0
Included in 3.B.1.	\$0	0	\$0	9
0	\$18,456	0	\$239,932	0
0	\$18,199	0	\$254,788	0
0	\$0	0	\$0	13
0	\$0	0	\$0	13
0	\$0	0	\$0	23
0	\$0	0	\$0	0
0	\$7.50	0	\$98	13
0	\$0	0	\$0	13
0	\$0	0	\$0	23

Testing, Operation, and Maintenance Costs				
Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	Emission Testing Contractor Hours Per Year	Total Non-Labor Costs Per Year	Total Responses Per Year
0	\$0	0	\$0	0
0	\$0	0	\$0	0
0	\$0	0	\$0	0
0	\$0	0	\$0	0
0	\$0	0	\$0	9
0	\$7.50	0	\$105	14
0	\$7.50	0	\$0	0
0	\$0	0	\$0	1.3
0	\$0	0	\$0	1.4
0	\$0	0	\$0	2.6
0	\$0	0	\$0	2.8
0	\$7.50	0	\$10	1.3
0	\$7.50	0	\$11	1.4
0	\$0	0	\$0	0
0	\$0	0	\$0	0
0	\$0	0	\$0	0

**Table 2.A - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Emissions Guidelines
for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 1, Energy Recovery Uni**

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	(B) Number of Occurrences Per Respondent Per Year	(C) Hours Per Respondent Per Year (C=A x B)	(D) Number of Respondents Per Year (a)	(E) Technical Hours Per Year (CXD)	(F) Management Hours Per Year (E x 0.05)	(G) Clerical Hours Per Year (E x 0.1)	(H) Emission Testing Contractor Hours Per Year	Total Labor Costs Per Year (b)
1. Applications	Not applicable										
2. Surveys and Studies	Not applicable										
3. Reporting Requirements											
A. Read and Understand Rule Requirements	1	0	\$100	1	1	1	1	0	0	0	\$136
B. Required Activities											
1) Initial stack test and report (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO2 (as required))	Included in E.	varies	\$86,200	1	0	1	0	0	0	1,078	\$0
2) Annual stack test and test report (PM, HCl, Opacity, and Fug	Included in E.	1082	\$86,540	1	0	0	0	0	0	0	\$0
3) Operator training and qualification											
a) Establish and teach operator qualification course	64	0	\$0	1	64	1	64	3	6	0	\$8,719
b) Obtain operator qualification	72	0	\$0	1	72	1	72	4	7	0	\$9,809
c) Annual refresher course	12		\$0	1	12	0	0	0	0	0	\$0
d) Initial review of site-specific information	Included in a.										
e) Annual review of site-specific information	8	0	\$0	1	8	0	0	0	0	0	\$0
4) Establish operating parameters (maximum and minimum)	40	Included in B.1.	\$0	1	40	1	40	2	4	0	\$5,450
5) Continuous parameter monitoring (including CEMS)											
a) Initial costs	17	0	\$4,900	1	17	1	17	1	2	0	\$2,316
b) Annual costs	17	0	\$27,053	1	17	1	17	1	2	0	\$2,316
C. Create Information	Included in 3.B										
D. Gather Information	Included in 3.E										
E. Report Preparation											
1) Notification of initial performance test											
a) Pollutants, fugitive ash emissions	2	0	\$0	1	2	1	2	0	0	0	\$272
b) Fugitive Ash Emissions	1	0	\$0	1	1	1	1	0	0	0	\$136
2) Notification of initial CMS Demonstration	2	0	\$0	1	2	1	2	0	0	0	\$272
3) Report of initial performance test											
a) Pollutants, fugitive ash emissions	8	0	\$7.50	1	8	1	8	0	1	0	\$1,090
b) Fugitive Ash Emissions	2	0	\$0	1	2	1	2	0	0	0	\$272
4) Report of initial CMS demonstration	Included in 3.B.5										
5) Report prior to construction (includes siting analysis)	160	0	\$0	1	160	1	160	8	16	0	\$21,798

**Table 2.A - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Emissions Guidelines
for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 1, Energy Recovery Unit**

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	(B) Number of Occurrences Per Respondent Per Year	(C) Hours Per Respondent Per Year (C=A x B)	(D) Number of Respondents Per Year (a)	(E) Technical Hours Per Year (CXD)	(F) Management Hours Per Year (E x 0.05)	(G) Clerical Hours Per Year (E x 0.1)	(H) Emission Testing Contractor Hours Per Year	Total Labor Costs Per Year (b)
6) Report prior to initial start-up											
a) Without site specific parameter petition	6	0	\$0	1	6	0	0	0	0	0	\$0
b) With site specific parameter petition	14	0	\$0	1	14	1	14	1	1	0	\$1,907
7) Report of initial stack test	Included in 3.B.1										
8) Report established values for site-specific operating parameters	Included in 3.B	0	\$0	1	0	0	0	0	0	0	\$0
9) Waste management plan	160	0	\$0	1	160	1	160	8	16	0	\$21,798
10) Annual Report:											
a) Results of performance tests conducted during the year	40	0	\$7.50	1	40	0	0	0	0	0	\$0
11) Status report for operators that are off-site for more than 2 weeks	8	0	\$0	1	8	1	8	0	1	0	\$1,090
12) Corrective action summary for operators that are off-site for more than 2 weeks	8	0	\$0	2	16	1	16	1	2	0	\$2,180
13) Semiannual report of emissions/parameter exceedances	24	0	\$7.50	1	24	1	24	1	2	0	\$3,270
F. Affirmative Defense Claim	30	0	\$0	0	0	0	0	0	0	0	\$0
Reporting Subtotal							608	30	61	1,078	\$82,834
4. Recordkeeping Requirements											
A. Read Instructions	Included in 3.A										
B. Plan Activities	Not applicable										
C. Implement Activities	Not applicable										
D. Develop Record System	Not applicable										
E. Record Information											
1) Records of operating parameters	Included in 3.B.5.	0	\$0	52	0	0	0	0	0	0	\$0
2) Records of periods for which minimum amount of data on operating parameters were not obtained	0.5	0	\$0	52	26	0	0	0	0	0	\$0
3) Records of malfunction of the unit	1.5	0	\$0	1	1.5	0	0	0	0	0	\$0
4) Records of exceedances of the operating parameters	1.5	0	\$0	1	1.5	1	2	0	0	0	\$204
5) Records of stack tests	Included in 3.E										
6) Records of siting analysis	Included in 3.E										
7) Records of persons who have reviewed operating procedures	1	0	\$0	1	1	0	0	0	0	0	\$0
8) Records of persons who have completed operator training	1	0	\$0	1	1	0	0	0	0	0	\$0
9) Records of persons who meet operator qualification criteria	1	0	\$0	1	1	0	0	0	0	0	\$0
10) Records of monitoring device calibration	Included in 3.B										
11) Records of site-specific documentation	24	0	\$0	1	24	0	0	0	0	0	\$0

**Table 2.A - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Emissions Guidelines
for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 1, Energy Recovery Units**

for for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 1, Energy Recovery Units	(A) Respondent Hours per Occurrence (Technical hours)	Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	(B) Number of Occurrences Per Respondent Per Year	(C) Hours Per Respondent Per Year (C=A x B)	(D) Number of Respondents Per Year (a)	(E) Technical Hours Per Year (CXD)	(F) Management Hours Per Year (E x 0.05)	(G) Clerical Hours Per Year (E x 0.1)	(H) Emission Testing Contractor Hours Per Year	Total Labor Costs Per Year (b)
Burden Item											
F. Personnel Training	Included in 3.B										
G. Time for Audits	Not applicable										
<i>Recordkeeping Subtotal</i>							1.5	0.075	0.15	0	\$204
TOTAL:							610	30	61	1,078	\$83,038
								Total Hours	Labor	Non-Labor	Total
Summary of Respondent Burden								701	\$83,038	\$118,268	\$201,307
Annualized Capital and Startup										\$91,200	\$91,200
O & M Summary										\$27,053	\$27,053

FOOTNOTES

- ^a Based on the total number of existing units expected to continue operating once the guidelines become effective.
- ^b Costs are based on the following hourly rates: technical at \$34.60, management at \$82.23, clerical at \$22.32, and testing contractor at \$80.
- ^c One-time only costs.
- ^d Cost incurred by a facility regardless of the number of affected units at the plant.
- ^e Annual cost. Annual costs are not incurred until the second year of operation.
- ^f Based on the sum of the annualized capital costs for each monitoring system required for incinerators.
- ^g Based on the sum of the calculated annual cost for each monitoring system required for incinerators.
- ^h Assumed that one-third 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 least once a year. Assumed that this required only two corrective action summaries.
- ^j Assumed that 10 percent of the facilities would have an exceedance during the year.
- ^k Standards apply at all times under the newly proposed regulation. Therefore no periods of unobtained data or malfunction periods are expected.
- ^l Assumed \$100 for purchase of filing cabinet to house copy of rule, records and report copies.

its (Solids)

Total Non-Labor Costs Per Year	Total Responses Per Year	Footnotes
\$100	1	c, d, l
\$86,200	1	c
\$0	0	e
\$0	1	c
\$0	1	c
\$0	0	e
\$0	0	e
\$0	1	c
\$4,900	1	c, f
\$27,053	1	e, g
\$0	1	
\$0	1	
\$0	1	
\$8	1	
\$0	1	
\$0	1	c

its (Solids)

Total Non-Labor Costs Per Year	Total Responses Per Year	Footnotes
\$0	0	c, h
\$0	1	c, h
\$0	0	c
\$0	1	c
\$0	0	
\$0	1	i
\$0	2	i
\$8	1	j
\$0	0	m
	19	
\$0	0	
\$0	0	k
\$0	0	k
\$0	1	j
\$0	0	
\$0	0	
\$0	0	
\$0	0	

its (Solids)

Total Non-Labor Costs Per Year	Total Responses Per Year	Footnotes
\$0	1	
\$118,268	20	

**Table 2.B - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Emissions Guidelines
for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 2, Energy Recovery Units**

for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 2, Energy Recovery Units	(A) Respondent Hours per Occurrence (Technical hours)	Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	(B) Number of Occurrences Per Respondent Per Year	(C) Hours Per Respondent Per Year (C=A x B)	(D) Number of Respondents Per Year (a)	(E) Technical Hours Per Year (CXD)	(F) Management Hours Per Year (E x 0.05)	(G) Clerical Hours Per Year (E x 0.1)	(H) Emission Testing Contractor Hours Per Year	Total Labor Costs Per Year (b)
Burden Item											
1. Applications	Not applicable										
2. Surveys and Studies	Not applicable										
3. Reporting Requirements											
A. Read and Understand Rule Requirements	1	0	\$0	1	1	0	0	0	0	0	\$0
B. Required Activities											
1) Initial stack test and report (PM, dioxins/furans, opacity, HCL, Cd, Pb, Hg, CO, NOx, and SO2 (as required))	Included in E.	varies	\$86,200	1	0	0	0	0	0	1,078	\$0
2) Annual stack test and test report (PM, HCL, Opacity, and SO2)	Included in E.	1082	\$86,540	1	0	1	0	0	0	1,082	\$0
3) Operator training and qualification											
a) Establish and teach operator qualification course	64	0	\$0	1	64	0	0	0	0	0	\$0
b) Obtain operator qualification	72	0	\$0	1	72	0	0	0	0	0	\$0
c) Annual refresher course	12		\$0	1	12	1	12	1	1	0	\$1,635
d) Initial review of site-specific information	Included in a.										
e) Annual review of site-specific information	8	0	\$0	1	8	1	8	0	1	0	\$1,090
4) Establish operating parameters (maximum and minimum)	40	Included in B.1.	\$0	1	40	0	0	0	0	0	\$0
5) Continuous parameter monitoring (including CEMS)											
a) Initial costs	17	0	\$0	1	17	0	0	0	0	0	\$0
b) Annual costs	17	0	\$27,053	1	17	0	0	0	0	0	\$0
C. Create Information	Included in 3.B										
D. Gather Information	Included in 3.E										
E. Report Preparation											
1) Notification of initial performance test											
a) Pollutants, fugitive ash emissions	2	0	\$0	1	2	0	0	0	0	0	\$0
b) Fugitive Ash Emissions	1	0	\$0	1	1	0	0	0	0	0	\$0
2) Notification of initial CMS Demonstration	2	0	\$0	1	2	0	0	0	0	0	\$0
3) Report of initial performance test											
a) Pollutants, fugitive ash emissions	8	0	\$7.50	1	8	0	0	0	0	0	\$0
b) Fugitive Ash Emissions	2	0	\$0	1	2	0	0	0	0	0	\$0

**Table 2.B - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Emissions Guidelines
for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 2, Energy Recovery Unit**

For Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 2, Energy Recovery Unit	(A) Respondent Hours per Occurrence (Technical hours)	Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	(B) Number of Occurrences Per Respondent Per Year	(C) Hours Per Respondent Per Year (C=A x B)	(D) Number of Respondents Per Year (a)	(E) Technical Hours Per Year (CXD)	(F) Management Hours Per Year (E x 0.05)	(G) Clerical Hours Per Year (E x 0.1)	(H) Emission Testing Contractor Hours Per Year	Total Labor Costs Per Year (b)
Burden Item											
4) Report of initial CMS demonstration	Included in 3.B.5										
5) Report prior to construction (includes siting analysis)	160	0	\$0	1	160	0	0	0	0	0	\$0
6) Report prior to initial start-up											
a) Without site specific parameter petition	6	0	\$0	1	6	0	0	0	0	0	\$0
b) With site specific parameter petition	14	0	\$0	1	14	0	0	0	0	0	\$0
7) Report of initial stack test	Included in 3.B.1										
8) Report established values for site-specific operating parameters	Included in 3.B.1	0	\$0	1	0	0	0	0	0	0	\$0
9) Waste management plan	160	0	\$0	1	160	0	0	0	0	0	\$0
10) Annual Report:											
a) Results of performance tests conducted during the year	40	0	\$7.50	1	40	1	40	2	4	0	\$5,450
11) Status report for operators that are off-site for more than 2 weeks	8	0	\$0	1	8	1	8	0	1	0	\$1,090
12) Corrective action summary for operators that are off-site for more than 2 weeks	8	0	\$0	2	16	1	16	1	2	0	\$2,180
13) Semiannual report of emissions/parameter exceedances	24	0	\$7.50	1	24	1	24	1	2	0	\$3,270
F. Affirmative Defense Claim	30	0	\$0	0	0	0	0	0	0	0	\$0
Reporting Subtotal							108	5	11	2,159	\$14,714
4. Recordkeeping Requirements											
A. Read Instructions	Included in 3.A										
B. Plan Activities	Not applicable										
C. Implement Activities	Not applicable										
D. Develop Record System	Not applicable										
E. Record Information											
1) Records of operating parameters	Included in 3.B.5	0	\$0	52	0	0	0	0	0	0	\$0
2) Records of periods for which minimum amount of data on operating parameters were not obtained	0.5	0	\$0	52	26	0	0	0	0	0	\$0
3) Records of malfunction of the unit	1.5	0	\$0	1	1.5	0	0	0	0	0	\$0
4) Records of exceedances of the operating parameters	1.5	0	\$0	1	1.5	1	2	0	0	0	\$204
5) Records of stack tests	Included in 3.E										
6) Records of siting analysis	Included in 3.E										
7) Records of persons who have reviewed operating procedures	1	0	\$0	1	1	1	1	0	0	0	\$136
8) Records of persons who have completed operator training	1	0	\$0	1	1	1	1	0	0	0	\$136
9) Records of persons who meet operator qualification criteria	1	0	\$0	1	1	1	1	0	0	0	\$136
10) Records of monitoring device calibration	Included in 3.B										
11) Records of site-specific documentation	24	0	\$0	1	24	1	24	1	2	0	\$3,270
F. Personnel Training	Included in 3.B										
G. Time for Audits	Not applicable										
Recordkeeping Subtotal							28.5	1.425	2.85	0	\$3,883

**Table 2.B - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Emissions Guidelines
for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 2, Energy Recovery Units**

for for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 2, Energy Recovery Units	(A) Respondent Hours per Occurrence (Technical hours)	Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	(B) Number of Occurrences Per Respondent Per Year	(C) Hours Per Respondent Per Year (C=A x B)	(D) Number of Respondents Per Year (d)	(E) Technical Hours Per Year (CXD)	(F) Management Hours Per Year (E x 0.05)	(G) Clerical Hours Per Year (E x 0.1)	(H) Emission Testing Contractor Hours Per Year	Total Labor Costs Per Year (b)			
TOTAL:							137	7	14	2,159	\$18,597			
							Total Hours		Labor		Non-Labor		Total	
Summary of Respondent Burden							157		\$18,597		\$118,508		\$137,105	
Annualized Capital and Startup											\$4,900		\$4,900	
O & M Summary											\$27,053		\$27,053	

FOOTNOTES

- ^a Based on the total number of existing units expected to continue operating once the guidelines become effective.
- ^b Costs are based on the following hourly rates: technical at \$34.60, management at \$82.23, clerical at \$22.32, and testing contractor at \$80.
- ^c One-time only costs.
- ^d Cost incurred by a facility regardless of the number of affected units at the plant.
- ^e Annual cost. Annual costs are not incurred until the second year of operation.
- ^f Based on the sum of the annualized capital costs for each monitoring system required for incinerators.
- ^g Based on the sum of the calculated annual cost for each monitoring system required for incinerators.
- ^h Assumed that one-third 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 least once a year. Assumed that this required only two corrective action summaries.
- ^j Assumed that 10 percent of the facilities would have an exceedance during the year.
- ^k Standards apply at all times under the newly proposed regulation. Therefore no periods of unobtained data or malfunction periods are expected.
- ^l Assumed \$100 for purchase of filing cabinet to house copy of rule, records and report copies.

its (Solids)

Total Non-Labor Costs Per Year	Total Responses Per Year	Footnotes
\$0	0	c, d, l
\$0	0	c
\$86,540	1	e
\$0	0	c
\$0	0	c
\$0	1	e
\$0	1	e
\$0	0	c
\$4,900	0	c, f
\$27,053	0	e, g
\$0	0	
\$0	0	
\$0	0	
\$0	0	
\$0	0	

its (Solids)

Total Non-Labor Costs Per Year	Total Responses Per Year	Footnotes
\$0	0	c
\$0	0	c, h
\$0	0	c, h
\$0	0	c
\$0	0	c
\$8	1	
\$0	1	i
\$0	2	i
\$8	1	j
\$0	0	m
	8	
\$0	0	
\$0	0	k
\$0	0	k
\$0	1	j
\$0	1	
\$0	1	
\$0	1	
\$0	1	
\$0	5	

its (Solids)

Total Non-Labor Costs Per Year	Total Responses Per Year	Footnotes
\$118,508	13	

Table 1b - Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Incinerators

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b	
1. Applications	N/A								
2. Surveys and Studies	N/A								
3. Reporting Requirements									
A. Familiarization with Rule Requirements ^c									
1) Facilities subject to Federal Plan	1	1	1	9	9	0	1	\$1,226.16	FP facilities
2) Facilities subject to State Plan	1	1	1	13	13	1	1	\$1,771.12	EG facilities
B. Required Activities									
1) Initial stack test and report (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO2 (as required)) ^d	See 3.E.								
2) Annual stack test and test report (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO2 (as required)) ^e	See 3.E.10								
a) Units subject to Federal Plan									
b) Units subject to State Plan	See 3.E.10								
3) Operator training and qualification									
a) Establish and teach operator qualification course ^f	64	1	64	0	0	0	0	\$0	
b) Obtain operator qualification ^f	72	1	72	0	0	0	0	\$0	
c) Annual refresher course ^g									
i. Facilities subject to Federal Plan	12	1	12	9	108	5.4	10.8	\$14,713.92	FP facilities
ii. Facilities subject to State Plan	12	1	12	13	156	7.8	15.6	\$21,253.44	EG facilities
d) Initial review of site-specific information	See 3.B.3.a.								
e) Annual review of site-specific information ^g	8	1	8	9	72	3.6	7.2	\$9,809.28	FP facilities
i. Facilities subject to Federal Plan									
ii. Facilities subject to State Plan	8	1	8	13	104	5.2	10.4	\$14,168.96	EG facilities
4) Establish operating parameters (maximum and minimum) ^d	40	1	40	0	0	0	0	\$0	
5) Continuous parameter monitoring (including CEMS)									
a) Initial costs ^f	17	1	17	0	0	0	0	\$0	
b) Annual costs ^g	17	1	17	0	0	0	0	\$0	
C. Create Information	See 3.B								
D. Gather Information	See 3.E								
E. Report Preparation									
1) Notification of initial performance test ^h									
a) Pollutants, fugitive ash emissions	2	1	2	0	0	0	0	\$0	
b) Fugitive Ash Emissions	1	1	1	0	0	0	0	\$0	
c) Air Curtain Incinerators (opacity)	1	1	1	0	0	0	0	\$0	

Table 1b - Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Incinerators

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b	
2) Notification of initial CMS Demonstration ^h	2	1	2	0	0	0	0	\$0	
3) Report of initial performance test ^h									
a) Pollutants, fugitive ash emissions	40	1	40	0	0	0	0	\$0	
b) Fugitive Ash Emissions	8	1	8	0	0	0	0	\$0	
c) Air Curtain Incinerators (opacity)	8	1	8	0	0	0	0	\$0	
4) Report of initial CMS demonstration ^h	See 3.B.5								
5) Report prior to construction (includes siting analysis) ^h	160	1	160	0	0	0	0	\$0	
6) Report prior to initial start-up ^{h, i}									
a) Without site specific parameter petition	6	1	6	0	0	0	0	\$0	
b) With site specific parameter petition	14	1	14	0	0	0	0	\$0	
7) Report of initial stack test ^h	See 3.B.1								
8) Report established values for site-specific operating parameters ^h	See 3.B								
9) Waste management plan ^h	160	1	160	0	0	0	0	\$0	
10a) Report results of annual performance test ^a a) Non-ACI units - all pollutants (Federal Plan)	30	1	30	13	390	20	39	\$53,133.60	FP Units
b) Non-ACI units - all pollutants (State Plan)	30	1	30	14	420	21	42	\$57,220.80	EG units
10b) ACIs - Report results of annual opacity test ^a	4	1	4	23	92	5	9	\$12,534.08	FP ACI
11) Status report for operators that are off-site for more than 2 weeks ^j a) Units subject to Federal Plan	8	1	8	1.3	10.4	0.52	1.04	\$1,416.90	FP Units
b) Units subject to State Plan	8	1	8	1.4	11.2	0.56	1.12	\$1,525.89	EG units
12) Corrective action summary for operators that are off-site for more than 2 weeks ^j a) Units subject to Federal Plan	8	2	16	1.3	20.8	1.04	2.08	\$2,833.79	FP Units
b) Units subject to State Plan	8	2	16	1.4	22.4	1.12	2.24	\$3,051.78	EG units
13) Semiannual report of emissions/parameter exceedances ^k a) Units subject to Federal Plan	24	1	24	1.3	31.2	1.56	3.12	\$4,250.69	FP Units
b) Units subject to State Plan	24	1	24	1.4	33.6	1.68	3.36	\$4,577.66	EG units
Subtotal for Reporting Requirements						1,718		\$203,488	
4. Recordkeeping Requirements									
A. Familiarization with Rule Requirements	See 3.A								
B. Plan Activities	N/A								
C. Implement Activities	N/A								
D. Develop Record System	N/A								

Table 1b - Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Incinerators

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b	
E. Record Information									
1) Records of operating parameters	See 3.B.5.b								
2) Records of periods for which minimum amount of data on operating parameters were not obtained ¹	0.5	52	26	0	0	0	0	\$0	
3) Records of malfunction of the unit ¹	1.5	1	1.5	0	0	0	0	\$0	
4) Records of exceedances of the operating parameters ² a) Units subject to Federal Plan	1.5	1	1.5	1.3	1.95	0.10	0.20	\$265.67	FP Units
b) Units subject to State Plan	1.5	1	1.5	1.4	2.10	0.11	0.21	\$286.10	EG units
5) Records of stack tests	See 3.E								
6) Records of siting analysis	See 3.E								
7) Records of persons who have reviewed operating procedures a) Facilities subject to Federal Plan	1	1	1	9	9	0.45	0.9	\$1,226.16	FP Units
b) Facilities subject to State Plan	1	1	1	13	13	0.65	1.3	\$1,771.12	EG units
8) Records of persons who have completed operator training a) Facilities subject to Federal Plan	1	1	1	9	9	0.45	0.9	\$1,226.16	FP Units
b) Facilities subject to State Plan	1	1	1	13	13	0.65	1.3	\$1,771.12	EG units
9) Records of persons who meet operator qualification criteria a) Facilities subject to Federal Plan	1	1	1	9	9	0.45	0.9	\$1,226.16	FP Units
b) Facilities subject to State Plan	1	1	1	13	13	0.65	1.3	\$1,771.12	EG units
10) Records of monitoring device calibration	See 3.B								
11) Records of site-specific documentation a) Facilities subject to Federal Plan	24	1	24	9	216	10.8	21.6	\$29,427.84	FP Units
b) Facilities subject to State Plan	24	1	24	13	312	15.6	31.2	\$42,506.88	EG units
F. Personnel Training	See 3.B								
G. Time for Audits	N/A								
Subtotal for Recordkeeping Requirements					688			\$81,478	
Total Labor Burden and Costs (rounded) ^m					2,405			\$285,000	
Total Capital and O&M Cost (rounded) ^m								\$2,830,000	
GRAND TOTAL (rounded) ^m								\$3,120,000	

Assumptions

Table 1b - Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Incinerators

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b
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^a We assume an average of 76 CISWI units at 102 existing respondents per year over the next three years. No new units or respondents are anticipated over the next three years. This consists of 27 incinerator units located at 22 facilities, 22 energy recovery units - solids located at 13 facilities, 1 small, remote incinerator located at 1 facility, 6 energy recovery units - liquids located at 4 facilities, 23 waste burning kilns located at 13 facilities, and 23 air curtain incinerators located at 23 facilities. Of these, 13 incinerator units located at 9 facilities, 1 energy recovery unit-solids located at 1 facility, 1 small remote incinerator located at 1 facility, 2 energy recovery unit-liquids located at 1 facility, 6 waste burning kilns located at 5 facilities, and 23 air curtain incinerators located at 23 facilities are subject to the Federal Plan. There are 14 incinerators at 13 facilities, 21 energy recovery units-solid at 12 facilities, 4 energy recovery units-liquids located at 3 facilities, and 17 waste burning kilns located at 8 facilities subject to State Plans.

^b This ICR uses the following labor rates: \$130.28 (technical), \$163.17 (managerial), and \$65.71 (clerical). These rates are from the United States Department of Labor, Bureau of Labor Statistics, September 2022, "Table 2. Civilian workers, by occupational and industry group." The rates are from column 1, "Total compensation." They have been increased by 110 percent to account for the benefit packages available to those employed by private industry.

^c We assume that each respondent will re-familiarize with the requirements each year.

^d Initial stack testing is performed when a new unit is completed or upon initial compliance with the Federal Plan. No new units are expected over the next three years. Operating parameters are established during the initial stack test for a unit.

^e Annual stack testing is performed each year. Labor costs are accounted in the Reporting section. Testing costs are due to contractor labor and are accounted for in Capital and O&M Cost section.

^f These operator qualification requirements and compliance costs are associated with the startup of a new unit or upon initial compliance with a state plan or the Federal Plan. We assume that all state plan facilities have completed initial monitoring requirements.

^g The refresher course and annual review requirements occur each year. CEMS maintenance is performed each year. Annual reporting costs for the CEMS are calculated under the operation and maintenance (O&M) cost section.

^h These notifications, reports, and waste management plan are generally required for newly constructed units. No new units are expected over the next three year. We anticipate that initial performance tests and waste management plans will be submitted upon initial compliance with the Federal Plan.

ⁱ We assume that one-third of the facilities will petition for site-specific parameters.

^j We assume that 10 percent of the CISWI units at facilities would not have a qualified operator available for more than two weeks at least once a year. We also assume that this required only two corrective action summaries.

^k We assume that 10 percent of the CISWI units at facilities would have one exceedance during the year. The rule requires the semiannual report be submitted only in the event of an exceedance. Therefore, only 1 semiannual report is submitted for each emissions/parameter exceedance.

^l The standards apply at all times under this regulation. Therefore, no periods of unobtained data or malfunction periods are expected.

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

Testing, Operation, and Maintenance Costs				
Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	Emission Testing Contractor Hours Per Year	Total Non-Labor Costs Per Year	Total Responses Per Year
0	\$0	0	\$0	0
0	\$0	0	\$0	0
varies	\$86,540	0	\$0	0
1082	\$86,540	0	\$1,125,020	0
1082	\$86,540	0	\$1,211,560	0
0	\$0	0	\$0	0
0	\$0	0	\$0	0
0	\$0	0	\$0	0
0	\$0	0	\$0	0
Included in 3.B.1.	\$0	0	\$0	0
0	\$18,456	0	\$239,932	0
0	\$18,199	0	\$254,788	0
0	\$0	0	\$0	0
0	\$0	0	\$0	0
0	\$0	0	\$0	0

Testing, Operation, and Maintenance Costs				
Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	Emission Testing Contractor Hours Per Year	Total Non-Labor Costs Per Year	Total Responses Per Year
0	\$0	0	\$0	0
0	\$7.50	0	\$0	0
0	\$0	0	\$0	0
0	\$0	0	\$0	0
0	\$0	0	\$0	0
0	\$0	0	\$0	0
0	\$0	0	\$0	0
0	\$0	0	\$0	0
0	\$0	0	\$0	0
0	\$0	0	\$0	0
0	\$0	0	\$0	0
0	\$7.50	0	\$98	13
0	\$7.50	0	\$105	14
0	\$7.50	0	\$173	23
0	\$0	0	\$0	1.3
0	\$0	0	\$0	1.4
0	\$0	0	\$0	2.6
0	\$0	0	\$0	2.8
0	\$7.50	0	\$10	1.3
0	\$7.50	0	\$11	1.4

Table 1c - Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) Energy Recovery Units (Solids)

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b		Emission Testing Contractor Hours Per Occurrence
1. Applications	N/A									
2. Surveys and Studies	N/A									
3. Reporting Requirements										
A. Familiarization with Rule Requirements ^c										
1) Facilities subject to Federal Plan	16	1	16	1	128	6.4	13	\$17,438.72	FP facilities	0
2) Facilities subject to State Plan	1	1	1	12	12	1	1	\$1,634.88	EG facilities	0
B. Required Activities										
1) Initial stack test and report (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO2 (as required)) ^d	See 3.E.									varies
2) Annual stack test and test report (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO2 (as required)) ^e	See 3.E.10									1082
3) Operator training and qualification										
a) Establish and teach operator qualification course ^f	64	1	64	1	64	3	6	\$8,719	FP facilities	0
b) Obtain operator qualification ^f	72	1	72	1	72	4	7	\$9,809	FP facilities	0
c) Annual refresher course ^g	12	1	12	12	144	7.2	14.4	\$19,618.56	EG facilities	
d) Initial review of site-specific information	See 3.B.3.a.									
e) Annual review of site-specific information ^g	8	1	8	12	96	4.8	9.6	\$13,079.04	EG facilities	0
4) Establish operating parameters (maximum and minimum) ^d	40	1	40	1	40	2	4	\$5,450	FP facilities	Included in 3.B.1.
5) Continuous parameter monitoring (including CEMS)										
a) Initial costs ^f	17	1	17	0	0	0	0	\$0		0
b) Annual costs ^g	17	1	17	0	0	0	0	\$0		0
C. Create Information	See 3.B									
D. Gather Information	See 3.E									
E. Report Preparation										
1) Notification of initial performance test ^h										
a) Pollutants, fugitive ash emissions	2	1	2	1	2	0	0	\$272	FP units	0
b) Fugitive Ash Emissions	1	1	1	1	1	0	0	\$136	FP units	0
2) Notification of initial CMS Demonstration ^h	2	1	2	0	0	0	0	\$0		0
3) Report of initial performance test ^h										
a) Pollutants, fugitive ash emissions	40	1	40	1	40	2	4	\$5,450	FP units	0
b) Fugitive Ash Emissions	8	1	8	1	8	0	1	\$1,090	FP units	0
4) Report of initial CMS demonstration ^h	See 3.B.5									

Table 1c - Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) Energy Recovery Units (Solids)

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b		Emission Testing Contractor Hours Per Occurrence
5) Report prior to construction (includes siting analysis) ^h	160	1	160	0	0	0	0	\$0		0
6) Report prior to initial start-up ^{h,i}										
a) Without site specific parameter petition	6	1	6	0	0	0	0	\$0		0
b) With site specific parameter petition	14	1	14	0	0	0	0	\$0		0
7) Report of initial stack test ^h	See 3.B.1									
8) Report established values for site-specific operating parameters ^h	See 3.B	1	#VALUE!	0	#VALUE!	#VALUE!	#VALUE!	\$0		0
9) Waste management plan ^h	160	1	160	1	160	8	16	\$21,798	FP facilities	0
10) Report results of annual performance test ^e	30	1	30	21	630	32	63	\$85,831.20	EG units	0
11) Status report for operators that are off-site for more than 2 weeks ^j	8	1	8	0.1	0.8	0.04	0.08	\$108.99	FP Units	0
a) Units subject to Federal Plan										
b) Units subject to State Plan	8	1	8	2.1	16.8	0.84	1.68	\$2,288.83	EG units	0
12) Corrective action summary for operators that are off-site for more than 2 weeks ^j	8	2	16	0.1	1.6	0.08	0.16	\$217.98	FP Units	0
a) Units subject to Federal Plan										
b) Units subject to State Plan	8	2	16	2.1	33.6	1.68	3.36	\$4,577.66	EG units	0
13) Semiannual report of emissions/parameter exceedances ^k	24	1	24	0.1	2.4	0.12	0.24	\$326.98	FP Units	0
a) Units subject to Federal Plan										
b) Units subject to State Plan	24	1	24	2.1	50.4	2.52	5.04	\$6,866.50	EG units	0
Subtotal for Reporting Requirements					1,728			\$204,714		
4. Recordkeeping Requirements										
A. Familiarization with Rule Requirements	See 3.A									
B. Plan Activities	N/A									
C. Implement Activities	N/A									
D. Develop Record System	N/A									
E. Record Information										
1) Records of operating parameters	See 3.B.5.b	52	0	0	0	0	0	\$0		0
2) Records of periods for which minimum amount of data on operating parameters were not obtained ^l	0.5	52	26	0	0	0	0	\$0		0
3) Records of malfunction of the unit ^l	1.5	1	1.5	0	0	0	0	\$0		0
4) Records of exceedances of the operating parameters ^k	1.5	1	1.5	0.1	0.2	0.01	0.02	\$20.44	FP Units	0
a) Units subject to Federal Plan										

Table 1c - Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) Energy Recovery Units (Solids)

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b		Emission Testing Contractor Hours Per Occurrence
b) Units subject to State Plan	1.5	1	1.5	2.1	3.2	0.16	0.32	\$429.16	EG units	0
5) Records of stack tests	See 3.E									
6) Records of siting analysis	See 3.E									
7) Records of persons who have reviewed operating procedures a) Facilities subject to Federal Plan	1	1	1	13	13	0.65	1.3	\$1,771.12	FP Units	0
b) Facilities subject to State Plan	1	1	1	12	12	0.60	1.2	\$1,634.88	EG units	0
8) Records of persons who have completed operator training a) Facilities subject to Federal Plan	1	1	1	1	1	0.05	0.1	\$136.24	FP Units	0
b) Facilities subject to State Plan	1	1	1	12	12	0.60	1.2	\$1,634.88	EG units	0
9) Records of persons who meet operator qualification criteria a) Facilities subject to Federal Plan	1	1	1	1	1	0.05	0.1	\$136.24	FP Units	0
b) Facilities subject to State Plan	1	1	1	12	12	0.60	1.2	\$1,634.88	EG units	0
10) Records of monitoring device calibration	See 3.B									
11) Records of site-specific documentation a) Facilities subject to Federal Plan	24	1	24	1	24	1.2	2.4	\$3,269.76	FP Units	0
b) Facilities subject to State Plan	24	1	24	12	288	14.4	28.8	\$39,237.12	EG units	0
F. Personnel Training	See 3.B									
G. Time for Audits	N/A									
Subtotal for Recordkeeping Requirements					421			\$49,905		
Total Labor Burden and Costs (rounded) ^m					2,149			\$255,000		
Total Capital and O&M Cost (rounded) ^m								\$3,200,000		
GRAND TOTAL (rounded) ^m								\$3,460,000		

Assumptions

Testing, Operation, and Maintenance Costs			
Non-Labor Costs Per Occurrence	Emission Testing Contractor Hours Per Year	Total Non-Labor Costs Per Year	Total Responses Per Year
\$0	0	\$0	0
\$0	0	\$0	0
\$86,540	0	\$86,540	0
\$86,540	0	\$1,817,340	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	1
\$27,053	0	\$27,053	0
\$60,658	0	\$1,273,815	0
\$0	0	\$0	1
\$0	0	\$0	1
\$0	0	\$0	0
\$7.50	0	\$8	1
\$0	0	\$0	1

Testing, Operation, and Maintenance Costs			
Non-Labor Costs Per Occurrence	Emission Testing Contractor Hours Per Year	Total Non-Labor Costs Per Year	Total Responses Per Year
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	1
\$7.50	0	\$158	21
\$0	0	\$0	0.1
\$0	0	\$0	2.1
\$0	0	\$0	0.2
\$0	0	\$0	4.2
\$7.50	0	\$1	0.1
\$7.50	0	\$16	2.1
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0

Testing, Operation, and Maintenance Costs			
Non-Labor Costs Per Occurrence	Emission Testing Contractor Hours Per Year	Total Non-Labor Costs Per Year	Total Responses Per Year
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
		\$3,200,000	

FP O&M
\$113,593

EG O&M
\$3,091,155

**Table 3.A - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Emissions Guidelines
for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 1, Small Remote Inc:**

for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 1, Small Remote Inc:	(A) Respondent Hours per Occurrence (Technical hours)	Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	(B) Number of Occurrences Per Respondent Per Year	(C) Hours Per Respondent Per Year (C=A x B)	(D) Number of Respondents Per Year (a)	(E) Technical Hours Per Year (CXD)	(F) Management Hours Per Year (E x 0.05)	(G) Clerical Hours Per Year (E x 0.1)	(H) Emission Testing Contractor Hours Per Year	Total Labor Costs Per Year (b)
Burden Item											
1. Applications	Not applicable										
2. Surveys and Studies	Not applicable										
3. Reporting Requirements											
A. Read and Understand Rule Requirements	1	0	\$100	1	1	1	1	0	0	0	\$136
B. Required Activities											
1) Initial stack test and report (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO2 (as required))	Included in E.	varies	\$86,200	1	0	1	0	0	0	1,078	\$0
2) Annual stack test and test report (PM, HCl, Opacity, and Fu	Included in E.	1082	\$86,540	1	0	0	0	0	0	0	\$0
3) Operator training and qualification											
a) Establish and teach operator qualification course	64	0	\$0	1	64	1	64	3	6	0	\$8,719
b) Obtain operator qualification	72	0	\$0	1	72	1	72	4	7	0	\$9,809
c) Annual refresher course	12		\$0	1	12	0	0	0	0	0	\$0
d) Initial review of site-specific information	Included in a.										
e) Annual review of site-specific information	8	0	\$0	1	8	0	0	0	0	0	\$0
4) Establish operating parameters (maximum and minimum)	40	Included in B.1.	\$0	1	40	1	40	2	4	0	\$5,450
5) Continuous parameter monitoring (including CEMS)											
a) Initial costs	17	0	\$4,900	1	17	1	17	1	2	0	\$2,316
b) Annual costs	17	0	\$9,858	1	17	1	17	1	2	0	\$2,316
C. Create Information	Included in 3.B										
D. Gather Information	Included in 3.E										
E. Report Preparation											
1) Notification of initial performance test											
a) Pollutants, fugitive ash emissions	2	0	\$0	1	2	1	2	0	0	0	\$272
b) Fugitive Ash Emissions	1	0	\$0	1	1	1	1	0	0	0	\$136
2) Notification of initial CMS Demonstration	2	0	\$0	1	2	1	2	0	0	0	\$272
3) Report of initial performance test											
a) Pollutants, fugitive ash emissions	8	0	\$7.50	1	8	1	8	0	1	0	\$1,090
b) Fugitive Ash Emissions	2	0	\$0	1	2	1	2	0	0	0	\$272
4) Report of initial CMS demonstration	Included in 3.B.5										
5) Report prior to construction (includes siting analysis)	160	0	\$0	1	160	1	160	8	16	0	\$21,798

**Table 3.A - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Emissions Guidelines
for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 1, Small Remote Inc:**

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	(B) Number of Occurrences Per Respondent Per Year	(C) Hours Per Respondent Per Year (C=A x B)	(D) Number of Respondents Per Year (a)	(E) Technical Hours Per Year (CXD)	(F) Management Hours Per Year (E x 0.05)	(G) Clerical Hours Per Year (E x 0.1)	(H) Emission Testing Contractor Hours Per Year	Total Labor Costs Per Year (b)
6) Report prior to initial start-up											
a) Without site specific parameter petition	6	0	\$0	1	6	0	0	0	0	0	\$0
b) With site specific parameter petition	14	0	\$0	1	14	1	14	1	1	0	\$1,907
7) Report of initial stack test	Included in 3.B.1										
8) Report established values for site-specific operating parameters	Included in 3.B	0	\$0	1	0	0	0	0	0	0	\$0
9) Waste management plan	160	0	\$0	1	160	1	160	8	16	0	\$21,798
10) Annual Report:											
a) Results of performance tests conducted during the year	40	0	\$7.50	1	40	0	0	0	0	0	\$0
11) Status report for operators that are off-site for more than 2 weeks	8	0	\$0	1	8	1	8	0	1	0	\$1,090
12) Corrective action summary for operators that are off-site for more than 2 weeks	8	0	\$0	2	16	1	16	1	2	0	\$2,180
13) Semiannual report of emissions/parameter exceedances	24	0	\$7.50	1	24	1	24	1	2	0	\$3,270
F. Affirmative Defense Claim	30	0	\$0	0	0	0	0	0	0	0	\$0
Reporting Subtotal							608	30	61	1,078	\$82,834
4. Recordkeeping Requirements											
A. Read Instructions	Included in 3.A										
B. Plan Activities	Not applicable										
C. Implement Activities	Not applicable										
D. Develop Record System	Not applicable										
E. Record Information											
1) Records of operating parameters	Included in 3.B.5.b	0	\$0	52	0	0	0	0	0	0	\$0
2) Records of periods for which minimum amount of data on operating parameters were not obtained	0.5	0	\$0	52	26	0	0	0	0	0	\$0
3) Records of malfunction of the unit	1.5	0	\$0	1	1.5	0	0	0	0	0	\$0
4) Records of exceedances of the operating parameters	1.5	0	\$0	1	1.5	1	2	0	0	0	\$204
5) Records of stack tests	Included in 3.E										
6) Records of siting analysis	Included in 3.E										
7) Records of persons who have reviewed operating procedures	1	0	\$0	1	1	0	0	0	0	0	\$0
8) Records of persons who have completed operator training	1	0	\$0	1	1	0	0	0	0	0	\$0
9) Records of persons who meet operator qualification criteria	1	0	\$0	1	1	0	0	0	0	0	\$0
10) Records of monitoring device calibration	Included in 3.B										
11) Records of site-specific documentation	24	0	\$0	1	24	0	0	0	0	0	\$0

**Table 3.A - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Emissions Guidelines
for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 1, Small Remote Inc:**

for for Existing Stationary Sources: Commercial and Industrial Solid (H) (H) Total Labor Costs	(A) Respondent Hours per Occurrence (Technical hours)	Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	(B) Number of Occurrences Per Respondent Per Year	(C) Hours Per Respondent Per Year (C=A x B)	(D) Number of Respondents Per Year (a)	(E) Technical Hours Per Year (CXD)	(F) Management Hours Per Year (E x 0.05)	(G) Clerical Hours Per Year (E x 0.1)	(H) Emission Testing Contractor Hours Per Year	Total Labor Costs Per Year (b)
Burden Item											
F. Personnel Training	Included in 3.B										
G. Time for Audits	Not applicable										
<i>Recordkeeping Subtotal</i>							1.5	0.075	0.15	0	\$204
TOTAL:							610	30	61	1,078	\$83,038
								Total Hours	Labor	Non-Labor	Total
Summary of Respondent Burden								701	\$83,038	\$101,073	\$184,111
Annualized Capital and Startup										\$91,200	\$91,200
O & M Summary										\$9,858	\$9,858

FOOTNOTES

- ^a Based on the total number of existing units expected to continue operating once the guidelines become effective.
- ^b Costs are based on the following hourly rates: technical at \$34.60, management at \$82.23, clerical at \$22.32, and testing contractor at \$80.
- ^c One-time only costs.
- ^d Cost incurred by a facility regardless of the number of affected units at the plant.
- ^e Annual cost. Annual costs are not incurred until the second year of operation.
- ^f Based on the sum of the annualized capital costs for each monitoring system required for incinerators.
- ^g Based on the sum of the calculated annual cost for each monitoring system required for incinerators.
- ^h Assumed that one-third 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 least once a year. Assumed that this required only two corrective action summaries.
- ^j Assumed that 10 percent of the facilities would have an exceedance during the year.
- ^k Standards apply at all times under the newly proposed regulation. Therefore no periods of unobtained data or malfunction periods are expected.
- ^l Assumed \$100 for purchase of filing cabinet to house copy of rule, records and report copies.

inertors

Total Non-Labor Costs Per Year	Total Responses Per Year	Footnotes
\$100	1	c, d, l
\$86,200	1	c
\$0	0	e
\$0	1	c
\$0	1	c
\$0	0	e
\$0	0	e
\$0	1	c
\$4,900	1	c, f
\$9,858	1	e, g
\$0	1	
\$0	1	
\$0	1	
\$8	1	
\$0	1	
\$0	1	c

inertors

Total Non-Labor Costs Per Year	Total Responses Per Year	Footnotes
\$0	0	c, h
\$0	1	c, h
\$0	0	c
\$0	1	c
\$0	0	
\$0	1	i
\$0	2	i
\$8	1	j
\$0	0	m
	19	
\$0	0	
\$0	0	k
\$0	0	k
\$0	1	j
\$0	0	
\$0	0	
\$0	0	
\$0	0	

inertors

Total Non-Labor Costs Per Year	Total Responses Per Year	Footnotes
\$0	1	
\$101,073	20	

Table 3.B - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Emissions Guidelines for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 2, Small Remote Inc:

(H) (H) Total Labor Costs	(A) Respondent Hours per Occurrence (Technical hours)	Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	(B) Number of Occurrences Per Respondent Per Year	(C) Hours Per Respondent Per Year (C=A x B)	(D) Number of Respondents Per Year (a)	(E) Technical Hours Per Year (CXD)	(F) Management Hours Per Year (E x 0.05)	(G) Clerical Hours Per Year (E x 0.1)	(H) Emission Testing Contractor Hours Per Year	Total Labor Costs Per Year (b)
Burden Item											
1. Applications	Not applicable										
2. Surveys and Studies	Not applicable										
3. Reporting Requirements											
A. Read and Understand Rule Requirements	1	0	\$0	1	1	0	0	0	0	0	\$0
B. Required Activities											
1) Initial stack test and report (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO2 (as required))	Included in E.	varies	\$86,200	1	0	0	0	0	0	1,078	\$0
2) Annual stack test and test report (PM, HCl, Opacity, and SO2)	Included in E.	1082	\$86,540	1	0	1	0	0	0	1,082	\$0
3) Operator training and qualification											
a) Establish and teach operator qualification course	64	0	\$0	1	64	0	0	0	0	0	\$0
b) Obtain operator qualification	72	0	\$0	1	72	0	0	0	0	0	\$0
c) Annual refresher course	12		\$0	1	12	1	12	1	1	0	\$1,635
d) Initial review of site-specific information	Included in a.										
e) Annual review of site-specific information	8	0	\$0	1	8	1	8	0	1	0	\$1,090
4) Establish operating parameters (maximum and minimum)	40	Included in B.1.	\$0	1	40	0	0	0	0	0	\$0
5) Continuous parameter monitoring (including CEMS)											
a) Initial costs	17	0	\$4,900	1	17	0	0	0	0	0	\$0
b) Annual costs	17	0	\$9,858	1	17	0	0	0	0	0	\$0
C. Create Information	Included in 3.B										
D. Gather Information	Included in 3.E										
E. Report Preparation											
1) Notification of initial performance test											
a) Pollutants, fugitive ash emissions	2	0	\$0	1	2	0	0	0	0	0	\$0
b) Fugitive Ash Emissions	1	0	\$0	1	1	0	0	0	0	0	\$0
2) Notification of initial CMS Demonstration	2	0	\$0	1	2	0	0	0	0	0	\$0
3) Report of initial performance test											
a) Pollutants, fugitive ash emissions	8	0	\$7.50	1	8	0	0	0	0	0	\$0
b) Fugitive Ash Emissions	2	0	\$0	1	2	0	0	0	0	0	\$0

Table 3.B - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Emissions Guidelines for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 2, Small Remote Inc:

(H) (H) Total Labor Costs	(A) Respondent Hours per Occurrence (Technical hours)	Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	(B) Number of Occurrences Per Respondent Per Year	(C) Hours Per Respondent Per Year (C=A x B)	(D) Number of Respondents Per Year (a)	(E) Technical Hours Per Year (CXD)	(F) Management Hours Per Year (E x 0.05)	(G) Clerical Hours Per Year (E x 0.1)	(H) Emission Testing Contractor Hours Per Year	Total Labor Costs Per Year (b)
Burden Item											
4) Report of initial CMS demonstration	Included in 3.B.5										
5) Report prior to construction (includes siting analysis)	160	0	\$0	1	160	0	0	0	0	0	\$0
6) Report prior to initial start-up											
a) Without site specific parameter petition	6	0	\$0	1	6	0	0	0	0	0	\$0
b) With site specific parameter petition	14	0	\$0	1	14	0	0	0	0	0	\$0
7) Report of initial stack test	Included in 3.B.1										
8) Report established values for site-specific operating parameters	Included in 3.B	0	\$0	1	0	0	0	0	0	0	\$0
9) Waste management plan	160	0	\$0	1	160	0	0	0	0	0	\$0
10) Annual Report:											
a) Results of performance tests conducted during the year	40	0	\$7.50	1	40	1	40	2	4	0	\$5,450
11) Status report for operators that are off-site for more than 2 weeks	8	0	\$0	1	8	1	8	0	1	0	\$1,090
12) Corrective action summary for operators that are off-site for more than 2 weeks	8	0	\$0	2	16	1	16	1	2	0	\$2,180
13) Semiannual report of emissions/parameter exceedances	24	0	\$7.50	1	24	1	24	1	2	0	\$3,270
F. Affirmative Defense Claim	30	0	\$0	0	0	0	0	0	0	0	\$0
Reporting Subtotal							108	5	11	2,159	\$14,714
4. Recordkeeping Requirements											
A. Read Instructions	Included in 3.A										
B. Plan Activities	Not applicable										
C. Implement Activities	Not applicable										
D. Develop Record System	Not applicable										
E. Record Information											
1) Records of operating parameters	Included in 3.B.5.	0	\$0	52	0	0	0	0	0	0	\$0
2) Records of periods for which minimum amount of data on operating parameters were not obtained	0.5	0	\$0	52	26	0	0	0	0	0	\$0
3) Records of malfunction of the unit	1.5	0	\$0	1	1.5	0	0	0	0	0	\$0
4) Records of exceedances of the operating parameters	1.5	0	\$0	1	1.5	1	2	0	0	0	\$204
5) Records of stack tests	Included in 3.E										
6) Records of siting analysis	Included in 3.E										
7) Records of persons who have reviewed operating procedures	1	0	\$0	1	1	1	1	0	0	0	\$136
8) Records of persons who have completed operator training	1	0	\$0	1	1	1	1	0	0	0	\$136
9) Records of persons who meet operator qualification criteria	1	0	\$0	1	1	1	1	0	0	0	\$136
10) Records of monitoring device calibration	Included in 3.B										
11) Records of site-specific documentation	24	0	\$0	1	24	1	24	1	2	0	\$3,270

Table 3.B - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Emissions Guidelines for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 2, Small Remote Inc:

(H) (H) Total Labor Costs	(A) Respondent Hours per Occurrence (Technical hours)	Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	(B) Number of Occurrences Per Respondent Per Year	(C) Hours Per Respondent Per Year (C=A x B)	(D) Number of Respondents Per Year (a)	(E) Technical Hours Per Year (CXD)	(F) Management Hours Per Year (E x 0.05)	(G) Clerical Hours Per Year (E x 0.1)	(H) Emission Testing Contractor Hours Per Year	Total Labor Costs Per Year (b)
Burden Item											
F. Personnel Training	Included in 3.B										
G. Time for Audits	Not applicable										
<i>Recordkeeping Subtotal</i>							28.5	1.425	2.85	0	\$3,883
TOTAL:							137	7	14	2,159	\$18,597
								Total Hours	Labor	Non-Labor	Total
Summary of Respondent Burden								157	\$18,597	\$101,313	\$119,910
Annualized Capital and Startup										\$4,900	\$4,900
O & M Summary										\$9,858	\$9,858

FOOTNOTES

^a Based on the total number of existing units expected to continue operating once the guidelines become effective.

^b Costs are based on the following hourly rates: technical at \$34.60, management at \$82.23, clerical at \$22.32, and testing contractor at \$80.

^c One-time only costs.

^d Cost incurred by a facility regardless of the number of affected units at the plant.

^e Annual cost. Annual costs are not incurred until the second year of operation.

^f Based on the sum of the annualized capital costs for each monitoring system required for incinerators.

^g Based on the sum of the calculated annual cost for each monitoring system required for incinerators.

^h Assumed that one-third 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 least once a year. Assumed that this required only two corrective action summaries.

^j Assumed that 10 percent of the facilities would have an exceedance during the year.

^k Standards apply at all times under the newly proposed regulation. Therefore no periods of unobtained data or malfunction periods are expected.

^l Assumed \$100 for purchase of filing cabinet to house copy of rule, records and report copies.

inertors

Total Non-Labor Costs Per Year	Total Responses Per Year	Footnotes
\$0	0	c, d, l
\$0	0	c
\$86,540	1	e
\$0	0	c
\$0	0	c
\$0	1	e
\$0	1	e
\$0	0	c
\$4,900	0	c, f
\$9,858	0	e, g
\$0	0	
\$0	0	
\$0	0	
\$0	0	
\$0	0	

inertors

Total Non-Labor Costs Per Year	Total Responses Per Year	Footnotes
\$0	0	c
\$0	0	c, h
\$0	0	c, h
\$0	0	c
\$0	0	c
\$8	1	
\$0	1	i
\$0	2	i
\$8	1	j
\$0	0	m
	8	
\$0	0	
\$0	0	k
\$0	0	k
\$0	1	j
\$0	1	
\$0	1	
\$0	1	
\$0	1	

inertors

Total Non-Labor Costs Per Year	Total Responses Per Year	Footnotes
\$0	5	
\$101,313	13	

Table 1d - Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Energy Recovery Units (Solids)

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b		Emission Testing Contractor Hours Per Occurrence
1. Applications	N/A									
2. Surveys and Studies	N/A									
3. Reporting Requirements										
A. Familiarization with Rule Requirements ^c										
1) Facilities subject to Federal Plan	1	1	1	1	1	0.1	0.1	\$136.24	FP facilities	0
2) Facilities subject to State Plan	1	1	1	12	12	1	1	\$1,634.88	EG facilities	0
B. Required Activities										
1) Initial stack test and report (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO2 (as required)) ^d	See 3.E.									varies
2) Annual stack test and test report (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO2 (as required)) ^e a) Units subject to Federal Plan	See 3.E.10									1082
b) Units subject to State Plan	See 3.E.10									1082
3) Operator training and qualification										
a) Establish and teach operator qualification course ^f	64	1	64	0	0	0	0	\$0		0
b) Obtain operator qualification ^f	72	1	72	0	0	0	0	\$0		0
c) Annual refresher course ^g i. Facilities subject to Federal Plan	12	1	12	1	12	0.6	1.2	\$1,634.88	FP facilities	0
ii. Facilities subject to State Plan	12	1	12	12	144	7.2	14.4	\$19,618.56	EG facilities	0
d) Initial review of site-specific information	See 3.B.3.a.									
e) Annual review of site-specific information ^g i. Facilities subject to Federal Plan	8	1	8	1	8	0.4	0.8	\$1,089.92	FP facilities	0
ii. Facilities subject to State Plan	8	1	8	12	96	4.8	9.6	\$13,079.04	EG facilities	0
4) Establish operating parameters (maximum and minimum) ^d	40	1	40	0	0	0	0	\$0		Included in 3.B.1.
5) Continuous parameter monitoring (including CEMS)										
a) Initial costs ^f	17	1	17	0	0	0	0	\$0		0
b) Annual costs ^g	17	1	17	0	0	0	0	\$0		0
C. Create Information	See 3.B									
D. Gather Information	See 3.E									
E. Report Preparation										
1) Notification of initial performance test ^h										
a) Pollutants, fugitive ash emissions	2	1	2	0	0	0	0	\$0		0
b) Fugitive Ash Emissions	1	1	1	0	0	0	0	\$0		0

Table 1d - Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Energy Recovery Units (Solids)

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b		Emission Testing Contractor Hours Per Occurrence
2) Notification of initial CMS Demonstration ^h	2	1	2	0	0	0	0	\$0		0
3) Report of initial performance test ^h										
a) Pollutants, fugitive ash emissions	40	1	40	0	0	0	0	\$0		0
b) Fugitive Ash Emissions	8	1	8	0	0	0	0	\$0		0
4) Report of initial CMS demonstration ^h	See 3.B.5									
5) Report prior to construction (includes siting analysis) ^h	160	1	160	0	0	0	0	\$0		0
6) Report prior to initial start-up ^{h, i}										
a) Without site specific parameter petition	6	1	6	0	0	0	0	\$0		0
b) With site specific parameter petition	14	1	14	0	0	0	0	\$0		0
7) Report of initial stack test ^h	See 3.B.1									
8) Report established values for site-specific operating parameters ^h	See 3.B	1	#VALUE!	0	#VALUE!	#VALUE!	#VALUE!	\$0		0
9) Waste management plan ^h	160	1	160	0	0	0	0	\$0		0
10) Report results of annual performance test ^c									FP Units	0
a) Units subject to Federal Plan	30	1	30	1	30	2	3	\$4,087.20		
b) Units subject to State Plan	30	1	30	21	630	32	63	\$85,831.20	EG units	0
11) Status report for operators that are off-site for more than 2 weeks ^j	8	1	8	0.1	0.8	0.04	0.08	\$108.99	FP Units	0
a) Units subject to Federal Plan										
b) Units subject to State Plan	8	1	8	2.1	16.8	0.84	1.68	\$2,288.83	EG units	0
12) Corrective action summary for operators that are off-site for more than 2 weeks ^j	8	2	16	0.1	1.6	0.08	0.16	\$217.98	FP Units	0
a) Units subject to Federal Plan										
b) Units subject to State Plan	8	2	16	2.1	33.6	1.68	3.36	\$4,577.66	EG units	0
13) Semiannual report of emissions/parameter exceedances ^h	24	1	24	0.1	2.4	0.12	0.24	\$326.98	FP Units	0
a) Units subject to Federal Plan										
b) Units subject to State Plan	24	1	24	2.1	50.4	2.52	5.04	\$6,866.50	EG units	0
Subtotal for Reporting Requirements					1,194			\$141,499		
4. Recordkeeping Requirements										
A. Familiarization with Rule Requirements	See 3.A									
B. Plan Activities	N/A									
C. Implement Activities	N/A									
D. Develop Record System	N/A									
E. Record Information										
1) Records of operating parameters	See 3.B.5.b	52	0	0	0	0	0	\$0		0

Table 1d - Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Energy Recovery Units (Solids)

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person-hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b	
2) Records of periods for which minimum amount of data on operating parameters were not obtained ¹	0.5	52	26	0	0	0	0	\$0	
3) Records of malfunction of the unit ¹	1.5	1	1.5	0	0	0	0	\$0	
4) Records of exceedances of the operating parameters ^k a) Units subject to Federal Plan	1.5	1	1.5	0.1	0.2	0.01	0.02	\$20.44	FP Units
b) Units subject to State Plan	1.5	1	1.5	2.1	3.2	0.16	0.32	\$429.16	EG units
5) Records of stack tests	See 3.E								
6) Records of siting analysis	See 3.E								
7) Records of persons who have reviewed operating procedures a) Facilities subject to Federal Plan	1	1	1	1	1	0.05	0.1	\$136.24	FP Units
b) Facilities subject to State Plan	1	1	1	12	12	0.60	1.2	\$1,634.88	EG units
8) Records of persons who have completed operator training a) Facilities subject to Federal Plan	1	1	1	1	1	0.05	0.1	\$136.24	FP Units
b) Facilities subject to State Plan	1	1	1	12	12	0.60	1.2	\$1,634.88	EG units
9) Records of persons who meet operator qualification criteria a) Facilities subject to Federal Plan	1	1	1	1	1	0.05	0.1	\$136.24	FP Units
b) Facilities subject to State Plan	1	1	1	12	12	0.60	1.2	\$1,634.88	EG units
10) Records of monitoring device calibration	See 3.B								
11) Records of site-specific documentation a) Facilities subject to Federal Plan	24	1	24	1	24	1.2	2.4	\$3,269.76	FP Units
b) Facilities subject to State Plan	24	1	24	12	288	14.4	28.8	\$39,237.12	EG units
F. Personnel Training	See 3.B								
G. Time for Audits	N/A								
Subtotal for Recordkeeping Requirements						407		\$48,270	
Total Labor Burden and Costs (rounded) ^m						1,602		\$190,000	
Total Capital and O&M Cost (rounded) ^m								\$3,200,000	
GRAND TOTAL (rounded) ^m								\$3,390,000	

Emission Testing Contractor Hours Per Occurrence
0
0
0
0
0
0
0
0
0
0
0
0

Assumptions

Testing, Operation, and Maintenance Costs			
Non-Labor Costs Per Occurrence	Emission Testing Contractor Hours Per Year	Total Non-Labor Costs Per Year	Total Responses Per Year
\$0	0	\$0	0
\$0	0	\$0	0
\$86,540	0	\$0	0
\$86,540	0	\$86,540	0
\$86,540	0	\$1,817,340	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$1,273,815	0	\$27,053	0
\$60,658	0	\$1,273,815	0
\$0	0	\$0	0
\$0	0	\$0	0

Testing, Operation, and Maintenance Costs			
Non-Labor Costs Per Occurrence	Emission Testing Contractor Hours Per Year	Total Non-Labor Costs Per Year	Total Responses Per Year
\$0	0	\$0	0
\$7.50	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$7.50	0	\$8	1
\$7.50	0	\$158	21
\$0	0	\$0	0.1
\$0	0	\$0	2.1
\$0	0	\$0	0.2
\$0	0	\$0	4.2
\$7.50	0	\$1	0.1
\$7.50	0	\$16	2.1
\$0	0	\$0	0

Table 1e - Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Small Remote Incinerators

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b		Emission Testing Contractor Hours Per Occurrence
1. Applications	N/A									
2. Surveys and Studies	N/A									
3. Reporting Requirements										
A. Familiarization with Rule Requirements ^c										
1) Facilities subject to Federal Plan	16	1	16	1	16	1	2	\$2,179.84	FP facilities	0
2) Facilities subject to State Plan	1	1	1	0	0	0	0	\$0	EG facilities	0
B. Required Activities										
1) Initial stack test and report (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO2 (as required)) ^d	See 3.E.									varies
2) Annual stack test and test report (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO2 (as required)) ^e	See 3.E.10									1082
3) Operator training and qualification										
a) Establish and teach operator qualification course ^f	64	1	64	1	64	3	6	\$8,719	FP facilities	0
b) Obtain operator qualification ^f	72	1	72	1	72	4	7	\$9,809	FP facilities	0
c) Annual refresher course ^g	12	1	12	0	0	0	0	\$0.00	EG facilities	
d) Initial review of site-specific information	See 3.B.3.a.									
e) Annual review of site-specific information ^g	8	1	8	0	0	0	0	\$0.00	EG facilities	0
4) Establish operating parameters (maximum and minimum) ^d	40	1	40	1	40	2	4	\$5,450	FP facilities	Included in 3.B.1.
5) Continuous parameter monitoring (including CEMS)										
a) Initial costs ^f	17	1	17	0	0	0	0	\$0		0
b) Annual costs ^g	17	1	17	0	0	0	0	\$0		0
C. Create Information	See 3.B									
D. Gather Information	See 3.E									
E. Report Preparation										
1) Notification of initial performance test ^h										
a) Pollutants, fugitive ash emissions	2	1	2	1	2	0	0	\$272	FP units	0
b) Fugitive Ash Emissions	1	1	1	1	1	0	0	\$136	FP units	0
2) Notification of initial CMS Demonstration ^h	2	1	2	0	0	0	0	\$0		0
3) Report of initial performance test ^h										
a) Pollutants, fugitive ash emissions	40	1	40	1	40	2	4	\$5,450	FP units	0
b) Fugitive Ash Emissions	8	1	8	1	8	0	1	\$1,090	FP units	0
4) Report of initial CMS demonstration ^h	See 3.B.5									
5) Report prior to construction (includes siting analysis) ^h	160	1	160	0	0	0	0	\$0		0

Table 1e - Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Small Remote Incinerators

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b		Emission Testing Contractor Hours Per Occurrence
6) Report prior to initial start-up ^{h,i}										
a) Without site specific parameter petition	6	1	6	0	0	0	0	\$0		0
b) With site specific parameter petition	14	1	14	0	0	0	0	\$0		0
7) Report of initial stack test ^h	See 3.B.1									
8) Report established values for site-specific operating parameters ^h	See 3.B	1	#VALUE!	0	#VALUE!	#VALUE!	#VALUE!	\$0		0
9) Waste management plan ^h	160	1	160	1	160	8	16	\$21,798	FP facilities	0
10) Report of results of annual performance test ^e	30	1	30	0	0	0	0	\$0	EG units	0
11) Status report for operators that are off-site for more than 2 weeks ^j	8	1	8	0.1	0.8	0.04	0.08	\$108.99	FP Units	0
a) Units subject to Federal Plan										
b) Units subject to State Plan	8	1	8	0	0	0	0	\$0	EG units	0
12) Corrective action summary for operators that are off-site for more than 2 weeks ^j	8	2	16	0.1	1.6	0.08	0.16	\$217.98	FP Units	0
a) Units subject to Federal Plan										
b) Units subject to State Plan	8	2	16	0	0	0	0	\$0	EG units	0
13) Semiannual report of emissions/parameter exceedances ^k	24	1	24	0.1	2.4	0.12	0.24	\$326.98	FP Units	0
a) Units subject to Federal Plan										
b) Units subject to State Plan	24	1	24	0	0	0	0	\$0	EG units	0
Subtotal for Reporting Requirements					469			\$55,559		
4. Recordkeeping Requirements										
A. Familiarization with Rule Requirements	See 3.A									
B. Plan Activities	N/A									
C. Implement Activities	N/A									
D. Develop Record System	N/A									
E. Record Information										
1) Records of operating parameters	See 3.B.5.b	52	0	0	0	0	0	\$0		0
2) Records of periods for which minimum amount of data on operating parameters were not obtained ^l	0.5	52	26	0	0	0	0	\$0		0
3) Records of malfunction of the unit ^l	1.5	1	1.5	0	0	0	0	\$0		0
4) Records of exceedances of the operating parameters ^k	1.5	1	1.5	0.1	0.2	0.01	0.02	\$20.44	FP Units	0
a) Units subject to Federal Plan										
b) Units subject to State Plan	1.5	1	1.5	0	0	0	0	\$0	EG units	0
5) Records of stack tests	See 3.E									
6) Records of siting analysis	See 3.E									

Table 1e - Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Small Remote Incinerators

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b		Emission Testing Contractor Hours Per Occurrence
7) Records of persons who have reviewed operating procedures a) Facilities subject to Federal Plan	1	1	1	1	1	0.1	0.1	\$136.24	FP Units	0
b) Facilities subject to State Plan	1	1	1	0	0	0.0	0.0	\$0	EG units	0
8) Records of persons who have completed operator training a) Facilities subject to Federal Plan	1	1	1	1	1	0.1	0.1	\$136.24	FP Units	0
b) Facilities subject to State Plan	1	1	1	0	0	0.0	0.0	\$0	EG units	0
9) Records of persons who meet operator qualification criteria a) Facilities subject to Federal Plan	1	1	1	1	1	0.1	0.1	\$136.24	FP Units	0
b) Facilities subject to State Plan	1	1	1	0	0	0.0	0.0	\$0	EG units	0
10) Records of monitoring device calibration	See 3.B									
11) Records of site-specific documentation a) Facilities subject to Federal Plan	24	1	24	1	24	1.2	2.4	\$3,269.76	FP Units	0
b) Facilities subject to State Plan	24	1	24	0	0	0.0	0.0	\$0	EG units	0
F. Personnel Training	See 3.B									
G. Time for Audits	N/A									
Subtotal for Recordkeeping Requirements					31			\$3,699		
Total Labor Burden and Costs (rounded) ^m					500			\$59,000		
Total Capital and O&M Cost (rounded) ^m								\$100,000		
GRAND TOTAL (rounded) ^m								\$160,000		

Assumptions

Testing, Operation, and Maintenance Costs			
Non-Labor Costs Per Occurrence	Emission Testing Contractor Hours Per Year	Total Non- Labor Costs Per Year	Total Responses Per Year
\$0	0	\$0	0
\$0	0	\$0	0
\$86,540	0	\$86,540	0
\$86,540	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	1
\$9,858	0	\$9,858	0
#DIV/0!	0	\$0	0
\$0	0	\$0	1
\$0	0	\$0	1
\$0	0	\$0	0
\$7.50	0	\$8	1
\$0	0	\$0	1
\$0	0	\$0	0

Testing, Operation, and Maintenance Costs			
Non-Labor Costs Per Occurrence	Emission Testing Contractor Hours Per Year	Total Non- Labor Costs Per Year	Total Responses Per Year
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	1
\$7.50	0	\$0	0
\$0	0	\$0	0.1
\$0	0	\$0	0.0
\$0	0	\$0	0.2
\$0	0	\$0	0.0
\$7.50	0	\$1	0.1
\$7.50	0	\$0	0.0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0

**Table 4.A - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Emissions Guidelines
for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 1, Energy Recovery Units**

for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 1, Energy Recovery Units	(A) Respondent Hours per Occurrence (Technical hours)	Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	(B) Number of Occurrences Per Respondent Per Year	(C) Hours Per Respondent Per Year (C=A x B)	(D) Number of Respondents Per Year (a)	(E) Technical Hours Per Year (CXD)	(F) Management Hours Per Year (E x 0.05)	(G) Clerical Hours Per Year (E x 0.1)	(H) Emission Testing Contractor Hours Per Year	Total Labor Costs Per Year (b)
Burden Item											
1. Applications	Not applicable										
2. Surveys and Studies	Not applicable										
3. Reporting Requirements											
A. Read and Understand Rule Requirements	1	0	\$100	1	1	1	1	0	0	0	\$136
B. Required Activities											
1) Initial stack test and report (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO2 (as required))	Included in E.	varies	\$86,200	1	0	2	0	0	0	1,078	\$0
2) Annual stack test and test report (PM, HCl, Opacity, and Fugitive Ash)	Included in E.	1082	\$86,540	1	0	0	0	0	0	0	\$0
3) Operator training and qualification											
a) Establish and teach operator qualification course	64	0	\$0	1	64	1	64	3	6	0	\$8,719
b) Obtain operator qualification	72	0	\$0	1	72	1	72	4	7	0	\$9,809
c) Annual refresher course	12		\$0	1	12	0	0	0	0	0	\$0
d) Initial review of site-specific information	Included in a.										
e) Annual review of site-specific information	8	0	\$0	1	8	0	0	0	0	0	\$0
4) Establish operating parameters (maximum and minimum)	40	Included in B.1.	\$0	1	40	2	80	4	8	0	\$10,899
5) Continuous parameter monitoring (including CEMS)											
a) Initial costs	17	0	\$15,260	1	17	2	34	2	3	0	\$4,632
b) Annual costs	17	0	\$1,550	1	17	2	34	2	3	0	\$4,632
C. Create Information	Included in 3.B										
D. Gather Information	Included in 3.E										
E. Report Preparation											
1) Notification of initial performance test											
a) Pollutants, fugitive ash emissions	2	0	\$0	1	2	2	4	0	0	0	\$545
b) Fugitive Ash Emissions	1	0	\$0	1	1	2	2	0	0	0	\$272
2) Notification of initial CMS Demonstration	2	0	\$0	1	2	1	2	0	0	0	\$272
3) Report of initial performance test											
a) Pollutants, fugitive ash emissions	8	0	\$7.50	1	8	2	16	1	2	0	\$2,180
b) Fugitive Ash Emissions	2	0	\$0	1	2	2	4	0	0	0	\$545
4) Report of initial CMS demonstration	Included in 3.B.5										
5) Report prior to construction (includes siting analysis)	160	0	\$0	1	160	1	160	8	16	0	\$21,798
6) Report prior to initial start-up											
a) Without site specific parameter petition	6	0	\$0	1	6	0	0	0	0	0	\$0
b) With site specific parameter petition	14	0	\$0	1	14	1	14	1	1	0	\$1,907

**Table 4.A - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Emissions Guidelines
for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 1, Energy Recovery Units**

for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 1, Energy Recovery Units	(A) Respondent Hours per Occurrence (Technical hours)	Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	(B) Number of Occurrences Per Respondent Per Year	(C) Hours Per Respondent Per Year (C=A x B)	(D) Number of Respondents Per Year (a)	(E) Technical Hours Per Year (CXD)	(F) Management Hours Per Year (E x 0.05)	(G) Clerical Hours Per Year (E x 0.1)	(H) Emission Testing Contractor Hours Per Year	Total Labor Costs Per Year (b)
Burden Item											
7) Report of initial stack test	Included in 3.B.1										
8) Report established values for site-specific operating parameters	Included in 3.B	0	\$0	1	0	0	0	0	0	0	\$0
9) Waste management plan	160	0	\$0	1	160	1	160	8	16	0	\$21,798
10) Annual Report:											
a) Results of performance tests conducted during the year	40	0	\$7.50	1	40	0	0	0	0	0	\$0
11) Status report for operators that are off-site for more than 2 weeks	8	0	\$0	1	8	1	8	0	1	0	\$1,090
12) Corrective action summary for operators that are off-site for more than 2 weeks	8	0	\$0	2	16	1	16	1	2	0	\$2,180
13) Semiannual report of emissions/parameter exceedances	24	0	\$7.50	1	24	1	24	1	2	0	\$3,270
F. Affirmative Defense Claim	30	0	\$0	0	0	0	0	0	0	0	\$0
Reporting Subtotal							695	35	70	1,078	\$94,687
4. Recordkeeping Requirements											
A. Read Instructions	Included in 3.A										
B. Plan Activities	Not applicable										
C. Implement Activities	Not applicable										
D. Develop Record System	Not applicable										
E. Record Information											
1) Records of operating parameters	Included in 3.B.5.b	0	\$0	52	0	0	0	0	0	0	\$0
2) Records of periods for which minimum amount of data on operating parameters were not obtained	0.5	0	\$0	52	26	0	0	0	0	0	\$0
3) Records of malfunction of the unit	1.5	0	\$0	1	1.5	0	0	0	0	0	\$0
4) Records of exceedances of the operating parameters	1.5	0	\$0	1	1.5	1	2	0	0	0	\$204
5) Records of stack tests	Included in 3.E										
6) Records of siting analysis	Included in 3.E										
7) Records of persons who have reviewed operating procedures	1	0	\$0	1	1	0	0	0	0	0	\$0
8) Records of persons who have completed operator training	1	0	\$0	1	1	0	0	0	0	0	\$0
9) Records of persons who meet operator qualification criteria	1	0	\$0	1	1	0	0	0	0	0	\$0
10) Records of monitoring device calibration	Included in 3.B										
11) Records of site-specific documentation	24	0	\$0	1	24	0	0	0	0	0	\$0

**Table 4.A - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Emissions Guidelines
for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 1, Energy Recovery Units**

for Efor Existing Stationary Sources: Commercial and Industrial Solid Waste Incine (H) (H) Tota Total LabcLabor Costs	(A) Respondent Hours per Occurrence (Technical hours)	Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	(B) Number of Occurrences Per Respondent Per Year	(C) Hours Per Respondent Per Year (C=A x B)	(D) Number of Respondents Per Year (a)	(E) Technical Hours Per Year (CXD)	(F) Management Hours Per Year (E x 0.05)	(G) Clerical Hours Per Year (E x 0.1)	(H) Emission Testing Contractor Hours Per Year	Total Labor Costs Per Year (b)
Burden Item											
F. Personnel Training	Included in 3.B										
G. Time for Audits	Not applicable										
<i>Recordkeeping Subtotal</i>							1.5	0.075	0.15	0	\$204
TOTAL:							697	35	70	1,078	\$94,891
								Total Hours	Labor	Non-Labor	Total
Summary of Respondent Burden								801	\$94,891	\$206,143	\$301,034
Annualized Capital and Startup										\$203,020	\$203,020
O & M Summary										\$3,100	\$3,100

FOOTNOTES

- ^a Based on the total number of existing units expected to continue operating once the guidelines become effective.
- ^b Costs are based on the following hourly rates: technical at \$34.60, management at \$82.23, clerical at \$22.32, and testing contractor at \$80.
- ^c One-time only costs.
- ^d Cost incurred by a facility regardless of the number of affected units at the plant.
- ^e Annual cost. Annual costs are not incurred until the second year of operation.
- ^f Based on the sum of the annualized capital costs for each monitoring system required for incinerators.
- ^g Based on the sum of the calculated annual cost for each monitoring system required for incinerators.
- ^h Assumed that one-third 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 least once a year. Assumed that this required only two corrective action summaries.
- ^j Assumed that 10 percent of the facilities would have an exceedance during the year.
- ^k Standards apply at all times under the newly proposed regulation. Therefore no periods of unobtained data or malfunction periods are expected.
- ^l Assumed \$100 for purchase of filing cabinet to house copy of rule, records and report copies.

(Liquid/Gas)

Total Non-Labor Costs Per Year	Total Responses Per Year	Footnotes
\$100	1	c,d,l
\$172,400	2	c
\$0	0	e
\$0	1	c
\$0	1	c
\$0	0	e
\$0	0	e
\$0	2	c
\$30,520	2	f
\$3,100	2	e,g
\$0	2	
\$0	2	
\$0	1	
\$15	2	
\$0	2	
\$0	1	c
\$0	0	c,h
\$0	1	c,h

(Liquid/Gas)

Total Non-Labor Costs Per Year	Total Responses Per Year	Footnotes
\$0	0	c
\$0	1	c
\$0	0	
\$0	1	i
\$0	2	i
\$8	1	j
\$0	0	m
	27	
\$0	0	
\$0	0	k
\$0	0	k
\$0	1	j
\$0	0	
\$0	0	
\$0	0	
\$0	0	

(Liquid/Gas)

Total Non-Labor Costs Per Year	Total Responses Per Year	Footnotes
\$0	1	
\$206,143	28	

**Table 4.B - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Emissions Guidelines
for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 2, Energy Recovery Units**

for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 2, Energy Recovery Units	(A) Respondent Hours per Occurrence (Technical hours)	Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	(B) Number of Occurrences Per Respondent Per Year	(C) Hours Per Respondent Per Year (C=A x B)	(D) Number of Respondents Per Year (a)	(E) Technical Hours Per Year (CXD)	(F) Management Hours Per Year (E x 0.05)	(G) Clerical Hours Per Year (E x 0.1)	(H) Emission Testing Contractor Hours Per Year	Total Labor Costs Per Year (b)
Burden Item											
1. Applications	Not applicable										
2. Surveys and Studies	Not applicable										
3. Reporting Requirements											
A. Read and Understand Rule Requirements	1	0	\$0	1	1	0	0	0	0	0	\$0
B. Required Activities											
1) Initial stack test and report (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO2 (as required))	Included in E.	varies	\$86,200	1	0	0	0	0	0	1,078	\$0
2) Annual stack test and test report (PM, HCl, Opacity, and SO2)	Included in E.	1082	\$86,540	1	0	2	0	0	0	2,164	\$0
3) Operator training and qualification											
a) Establish and teach operator qualification course	64	0	\$0	1	64	0	0	0	0	0	\$0
b) Obtain operator qualification	72	0	\$0	1	72	0	0	0	0	0	\$0
c) Annual refresher course	12		\$0	1	12	1	12	1	1	0	\$1,635
d) Initial review of site-specific information	Included in a.										
e) Annual review of site-specific information	8	0	\$0	1	8	1	8	0	1	0	\$1,090
4) Establish operating parameters (maximum and minimum)	40	Included in B.1.	\$0	1	40	0	0	0	0	0	\$0
5) Continuous parameter monitoring (including CEMS)											
a) Initial costs	17	0	\$0	1	17	0	0	0	0	0	\$0
b) Annual costs	17	0	\$1,550	1	17	0	0	0	0	0	\$0
C. Create Information	Included in 3.B										
D. Gather Information	Included in 3.E										
E. Report Preparation											
1) Notification of initial performance test											
a) Pollutants, fugitive ash emissions	2	0	\$0	1	2	0	0	0	0	0	\$0
b) Fugitive Ash Emissions	1	0	\$0	1	1	0	0	0	0	0	\$0
2) Notification of initial CMS Demonstration	2	0	\$0	1	2	0	0	0	0	0	\$0
3) Report of initial performance test											
a) Pollutants, fugitive ash emissions	8	0	\$7.50	1	8	0	0	0	0	0	\$0
b) Fugitive Ash Emissions	2	0	\$0	1	2	0	0	0	0	0	\$0
4) Report of initial CMS demonstration	Included in 3.B.5										
5) Report prior to construction (includes siting analysis)	160	0	\$0	1	160	0	0	0	0	0	\$0

**Table 4.B - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Emissions Guidelines
for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 2, Energy Recovery Units**

for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 2, Energy Recovery Units	(A) Respondent Hours per Occurrence (Technical hours)	Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	(B) Number of Occurrences Per Respondent Per Year	(C) Hours Per Respondent Per Year (C=A x B)	(D) Number of Respondents Per Year (a)	(E) Technical Hours Per Year (CXD)	(F) Management Hours Per Year (E x 0.05)	(G) Clerical Hours Per Year (E x 0.1)	(H) Emission Testing Contractor Hours Per Year	Total Labor Costs Per Year (b)
Burden Item											
6) Report prior to initial start-up											
a) Without site specific parameter petition	6	0	\$0	1	6	0	0	0	0	0	\$0
b) With site specific parameter petition	14	0	\$0	1	14	0	0	0	0	0	\$0
7) Report of initial stack test	Included in 3.B.1										
8) Report established values for site-specific operating parameters	Included in 3.B.1	0	\$0	1	0	0	0	0	0	0	\$0
9) Waste management plan	160	0	\$0	1	160	0	0	0	0	0	\$0
10) Annual Report:											
a) Results of performance tests conducted during the year	40	0	\$7.50	1	40	2	80	4	8	0	\$10,899
11) Status report for operators that are off-site for more than 2 weeks	8	0	\$0	1	8	1	8	0	1	0	\$1,090
12) Corrective action summary for operators that are off-site for more than 2 weeks	8	0	\$0	2	16	1	16	1	2	0	\$2,180
13) Semiannual report of emissions/parameter exceedances	24	0	\$7.50	1	24	1	24	1	2	0	\$3,270
F. Affirmative Defense Claim	30	0	\$0	0	0	0	0	0	0	0	\$0
Reporting Subtotal							148	7	15	3,241	\$20,164
4. Recordkeeping Requirements											
A. Read Instructions	Included in 3.A										
B. Plan Activities	Not applicable										
C. Implement Activities	Not applicable										
D. Develop Record System	Not applicable										
E. Record Information											
1) Records of operating parameters	Included in 3.B.5.	0	\$0	52	0	0	0	0	0	0	\$0
2) Records of periods for which minimum amount of data on operating parameters were not obtained	0.5	0	\$0	52	26	0	0	0	0	0	\$0
3) Records of malfunction of the unit	1.5	0	\$0	1	1.5	0	0	0	0	0	\$0
4) Records of exceedances of the operating parameters	1.5	0	\$0	1	1.5	1	2	0	0	0	\$204
5) Records of stack tests	Included in 3.E										
6) Records of siting analysis	Included in 3.E										
7) Records of persons who have reviewed operating procedures	1	0	\$0	1	1	1	1	0	0	0	\$136
8) Records of persons who have completed operator training	1	0	\$0	1	1	1	1	0	0	0	\$136
9) Records of persons who meet operator qualification criteria	1	0	\$0	1	1	1	1	0	0	0	\$136
10) Records of monitoring device calibration	Included in 3.B										
11) Records of site-specific documentation	24	0	\$0	1	24	1	24	1	2	0	\$3,270

**Table 4.B - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Emissions Guidelines
for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 2, Energy Recovery Units**

for for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 2, Energy Recovery Units	(A) Respondent Hours per Occurrence (Technical hours)	Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	(B) Number of Occurrences Per Respondent Per Year	(C) Hours Per Respondent Per Year (C=A x B)	(D) Number of Respondents Per Year (a)	(E) Technical Hours Per Year (CXD)	(F) Management Hours Per Year (E x 0.05)	(G) Clerical Hours Per Year (E x 0.1)	(H) Emission Testing Contractor Hours Per Year	Total Labor Costs Per Year (b)
Burden Item											
F. Personnel Training	Included in 3.B										
G. Time for Audits	Not applicable										
Recordkeeping Subtotal							28.5	1.425	2.85	0	\$3,883
TOTAL:							177	9	18	3,241	\$24,046
								Total Hours	Labor	Non-Labor	Total
Summary of Respondent Burden								203	\$24,046	\$206,723	\$230,769
Annualized Capital and Startup										\$30,520	\$30,520
O & M Summary										\$3,100	\$3,100

FOOTNOTES

^aBased on the total number of existing units expected to continue operating once the guidelines become effective.

^bCosts are based on the following hourly rates: technical at \$34.60, management at \$82.23, clerical at \$22.32, and testing contractor at \$80.

^cOne-time only costs.

^dCost incurred by a facility regardless of the number of affected units at the plant.

^eAnnual cost. Annual costs are not incurred until the second year of operation.

^fBased on the sum of the annualized capital costs for each monitoring system required for incinerators.

^gBased on the sum of the calculated annual cost for each monitoring system required for incinerators.

^hAssumed that one-third of the facilities will petition for site-specific parameters.

ⁱAssumed that 10 percent of the facilities would not have a qualified operator available for more than two weeks at least once a year. Assumed that this required only two corrective action summaries.

^jAssumed that 10 percent of the facilities would have an exceedance during the year.

^kStandards apply at all times under the newly proposed regulation. Therefore no periods of unobtained data or malfunction periods are expected.

^lAssumed \$100 for purchase of filing cabinet to house copy of rule, records and report copies.

s (Liquid/Gas)

Total Non-Labor Costs Per Year	Total Responses Per Year	Footnotes
\$0	0	c, d, l
\$0	0	c
\$173,000	2	e
\$0	0	c
\$0	0	c
\$0	1	e
\$0	1	e
\$0	0	c
\$30,520	0	c, f
\$3,100	0	e, g
\$0	0	
\$0	0	
\$0	0	
\$0	0	
\$0	0	
\$0	0	
\$0	0	c

s (Liquid/Gas)

Total Non-Labor Costs Per Year	Total Responses Per Year	Footnotes
\$0	0	c, h
\$0	0	c, h
\$0	0	c
\$0	0	c
\$15	2	
\$0	1	i
\$0	2	i
\$8	1	j
\$0	0	m
	10	
\$0	0	
\$0	0	k
\$0	0	k
\$0	1	j
\$0	1	
\$0	1	
\$0	1	
\$0	1	

s (Liquid/Gas)

Total Non-Labor Costs Per Year	Total Responses Per Year	Footnotes
\$0	5	
\$206,723	15	

Table 1f - Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Small Remote Incinerators

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b		Emission Testing Contractor Hours Per Occurrence
1. Applications	N/A									
2. Surveys and Studies	N/A									
3. Reporting Requirements										
A. Familiarization with Rule Requirements ^c										
1) Facilities subject to Federal Plan	1	1	1	1	1	0	0	\$136.24	FP facilities	0
2) Facilities subject to State Plan	1	1	1	0	0	0	0	\$0	EG facilities	0
B. Required Activities										
1) Initial stack test and report (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO ₂ (as required)) ^d	See 3.E.									varies
2) Annual stack test and test report (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO ₂ (as required)) ^e a) Units subject to Federal Plan	See 3.E.10									1082
b) Units subject to State Plan	See 3.E.10									1082
3) Operator training and qualification										
a) Establish and teach operator qualification course ^f	64	1	64	0	0	0	0	\$0		0
b) Obtain operator qualification ^f	72	1	72	0	0	0	0	\$0		0
c) Annual refresher course ^g i. Facilities subject to Federal Plan	12	1	12	1	12	0.6	1.2	\$1,634.88	FP facilities	0
ii. Facilities subject to State Plan	12	1	12	0	0	0	0	\$0	EG facilities	0
d) Initial review of site-specific information	See 3.B.3.a.									
e) Annual review of site-specific information ^g i. Facilities subject to Federal Plan	8	1	8	1	8	0.4	0.8	\$1,089.92	FP facilities	0
ii. Facilities subject to State Plan	8	1	8	0	0	0	0	\$0	EG facilities	0
4) Establish operating parameters (maximum and minimum) ^d	40	1	40	0	0	0	0	\$0		Included in 3.B.1.
5) Continuous parameter monitoring (including CEMS)										
a) Initial costs ^f	17	1	17	0	0	0	0	\$0		0
b) Annual costs ^g	17	1	17	0	0	0	0	\$0		0
C. Create Information	See 3.B									
D. Gather Information	See 3.E									
E. Report Preparation										
1) Notification of initial performance test ^h										
a) Pollutants, fugitive ash emissions	2	1	2	0	0	0	0	\$0		0
b) Fugitive Ash Emissions	1	1	1	0	0	0	0	\$0		0
2) Notification of initial CMS Demonstration ^h	2	1	2	0	0	0	0	\$0		0

Table 1f - Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Small Remote Incinerators

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b	
3) Report of initial performance test ^h									
a) Pollutants, fugitive ash emissions	40	1	40	0	0	0	0	\$0	
b) Fugitive Ash Emissions	8	1	8	0	0	0	0	\$0	
4) Report of initial CMS demonstration ^h	See 3.B.5								
5) Report prior to construction (includes siting analysis) ^h	160	1	160	0	0	0	0	\$0	
6) Report prior to initial start-up ^{h, i}									
a) Without site specific parameter petition	6	1	6	0	0	0	0	\$0	
b) With site specific parameter petition	14	1	14	0	0	0	0	\$0	
7) Report of initial stack test ^h	See 3.B.1								
8) Report established values for site-specific operating parameters ^h	See 3.B	1	#VALUE!	0	#VALUE!	#VALUE!	#VALUE!	\$0	
9) Waste management plan ^h	160	1	160	0	0	0	0	\$0	
10) Report results of annual performance test ^e									
a) Units subject to Federal Plan	30	1	30	1	30	2	3	\$4,087.20	FP Units
b) Units subject to State Plan	30	1	30	0	0	0	0	\$0	EG units
11) Status report for operators that are off-site for more than 2 weeks ^j									
a) Units subject to Federal Plan	8	1	8	0.1	0.8	0.04	0.08	\$108.99	FP Units
b) Units subject to State Plan	8	1	8	0	0	0	0	\$0	EG units
12) Corrective action summary for operators that are off-site for more than 2 weeks ^j									
a) Units subject to Federal Plan	8	2	16	0.1	1.6	0.08	0.16	\$217.98	FP Units
b) Units subject to State Plan	8	2	16	0	0	0	0	\$0	EG units
13) Semiannual report of emissions/parameter exceedances ^k									
a) Units subject to Federal Plan	24	1	24	0.1	2.4	0.12	0.24	\$326.98	FP Units
b) Units subject to State Plan	24	1	24	0	0	0	0	\$0	EG units
Subtotal for Reporting Requirements					64			\$7,602	
4. Recordkeeping Requirements									
A. Familiarization with Rule Requirements	See 3.A								
B. Plan Activities	N/A								
C. Implement Activities	N/A								
D. Develop Record System	N/A								
E. Record Information									
1) Records of operating parameters	See 3.B.5.b	52	0	0	0	0	0	\$0	

Emission Testing Contractor Hours Per Occurrence
0
0
0
0
0
0
0
0
0
0
0
0
0
0

Table 1f - Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Small Remote Incinerators

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b	
2) Records of periods for which minimum amount of data on operating parameters were not obtained ¹	0.5	52	26	0	0	0	0	\$0	
3) Records of malfunction of the unit ¹	1.5	1	1.5	0	0	0	0	\$0	
4) Records of exceedances of the operating parameters ^k a) Units subject to Federal Plan	1.5	1	1.5	0.1	0.2	0.01	0.02	\$20.44	FP Units
b) Units subject to State Plan	1.5	1	1.5	0.0	0	0	0	\$0	EG units
5) Records of stack tests	See 3.E								
6) Records of siting analysis	See 3.E								
7) Records of persons who have reviewed operating procedures a) Facilities subject to Federal Plan	1	1	1	1	1	0.1	0.1	\$136.24	FP Units
b) Facilities subject to State Plan	1	1	1	0	0	0	0	\$0	EG units
8) Records of persons who have completed operator training a) Facilities subject to Federal Plan	1	1	1	1	1	0.1	0.1	\$136.24	FP Units
b) Facilities subject to State Plan	1	1	1	0	0	0	0	\$0	EG units
9) Records of persons who meet operator qualification criteria a) Facilities subject to Federal Plan	1	1	1	1	1	0.1	0.1	\$136.24	FP Units
b) Facilities subject to State Plan	1	1	1	0	0	0	0	\$0	EG units
10) Records of monitoring device calibration	See 3.B								
11) Records of site-specific documentation a) Facilities subject to Federal Plan	24	1	24	1	24	1.2	2.4	\$3,269.76	FP Units
b) Facilities subject to State Plan	24	1	24	0	0	0	0	\$0	EG units
F. Personnel Training	See 3.B								
G. Time for Audits	N/A								
Subtotal for Recordkeeping Requirements					31			\$3,699	
Total Labor Burden and Costs (rounded) ^m					95			\$11,000	
Total Capital and O&M Cost (rounded) ^m								\$100,000	
GRAND TOTAL (rounded) ^m								\$110,000	

Emission Testing Contractor Hours Per Occurrence
0
0
0
0
0
0
0
0
0
0

Assumptions

Testing, Operation, and Maintenance Costs			
Non-Labor Costs Per Occurrence	Emission Testing Contractor Hours Per Year	Total Non- Labor Costs Per Year	Total Responses Per Year
\$0	0	\$0	0
\$0	0	\$0	0
\$86,540	0	\$0	0
\$86,540	0	\$86,540	0
\$86,540	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$9,858	0
#DIV/0!	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0

Testing, Operation, and Maintenance Costs			
Non-Labor Costs Per Occurrence	Emission Testing Contractor Hours Per Year	Total Non- Labor Costs Per Year	Total Responses Per Year
\$7.50	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$7.50	0	\$8	1
\$7.50	0	\$0	0
\$0	0	\$0	0.1
\$0	0	\$0	0.0
\$0	0	\$0	0.2
\$0	0	\$0	0.0
\$7.50	0	\$1	0.1
\$7.50	0	\$0	0.0
\$0	0	\$0	0

Table 1g- Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Energy Recovery Units (Liquid/Gas)

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b		Emission Testing Contractor Hours Per Occurrence
1. Applications	N/A									
2. Surveys and Studies	N/A									
3. Reporting Requirements										
A. Familiarization with Rule Requirements ^c										
1) Facilities subject to Federal Plan	16	1	16	1	16	1	2	\$2,179.84	FP facilities	0
2) Facilities subject to State Plan	1	1	1	3	3	0	0	\$408.72	EG facilities	0
B. Required Activities										
1) Initial stack test and report (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO2 (as required)) ^d	See 3.E.									varies
2) Annual stack test and test report (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO2 (as required)) ^e	See 3.E.10									1082
3) Operator training and qualification										
a) Establish and teach operator qualification course ^f	64	1	64	1	64	3	6	\$8,719	FP facilities	0
b) Obtain operator qualification ^f	72	1	72	1	72	4	7	\$9,809	FP facilities	0
c) Annual refresher course ^g	12	1	12	3	36	1.8	3.6	\$4,904.64	EG facilities	
d) Initial review of site-specific information	See 3.B.3.a.									
e) Annual review of site-specific information ^g	8	1	8	3	24	1.2	2.4	\$3,269.76	EG facilities	0
4) Establish operating parameters (maximum and minimum) ^d	40	1	40	1	40	2	4	\$5,450	FP facilities	Included in B.1.
5) Continuous parameter monitoring (including CEMS)										
a) Initial costs ^f	17	1	17	0	0	0	0	\$0		0
b) Annual costs ^g	17	1	17	0	0	0	0	\$0		0
C. Create Information	See 3.B									
D. Gather Information	See 3.E									
E. Report Preparation										
1) Notification of initial performance test ^h										
a) Pollutants, fugitive ash emissions	2	1	2	2	4	0	0	\$545	FP units	0
b) Fugitive Ash Emissions	1	1	1	2	2	0	0	\$272	FP units	0
2) Notification of initial CMS Demonstration ^h	2	1	2	0	0	0	0	\$0		0
3) Report of initial performance test ^h										
a) Pollutants, fugitive ash emissions	40	1	40	2	80	4	8	\$10,899	FP units	0
b) Fugitive Ash Emissions	8	1	8	2	16	1	2	\$2,180	FP units	0
4) Report of initial CMS demonstration ^h	See 3.B.5									

Table 1g- Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Energy Recovery Units (Liquid/Gas)

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b		Emission Testing Contractor Hours Per Occurrence
5) Report prior to construction (includes siting analysis) ^h	160	1	160	0	0	0	0	\$0		0
6) Report prior to initial start-up ^{h,i}										
a) Without site specific parameter petition	6	1	6	0	0	0	0	\$0		0
b) With site specific parameter petition	14	1	14	0	0	0	0	\$0		0
7) Report of initial stack test ^h	See 3.B.1									
8) Report established values for site-specific operating parameters ^h	See 3.B	1	#VALUE!	0	#VALUE!	#VALUE!	#VALUE!	\$0		0
9) Waste management plan ^h	160	1	160	1	160	8	16	\$21,798	FP facilities	0
10) Report of results of annual performance test ^e	30	1	30	4	120	6	12	\$16,348.80	EG units	0
11) Status report for operators that are off-site for more than 2 weeks ^j										
a) Units subject to Federal Plan	8	1	8	0.2	1.6	0.08	0.16	\$217.98	FP Units	0
b) Units subject to State Plan	8	1	8	0.4	3.2	0.16	0.32	\$435.97	EG units	0
12) Corrective action summary for operators that are off-site for more than 2 weeks ^j										
a) Units subject to Federal Plan	8	2	16	0.2	3.2	0.16	0.32	\$435.97	FP Units	0
b) Units subject to State Plan	8	2	16	0.4	6.4	0.32	0.64	\$871.94	EG units	0
13) Semiannual report of emissions/parameter exceedances ^k										
a) Units subject to Federal Plan	24	1	24	0.2	4.8	0.24	0.48	\$653.95	FP Units	0
b) Units subject to State Plan	24	1	24	0.4	9.6	0.48	0.96	\$1,307.90	EG units	0
Subtotal for Reporting Requirements					766			\$90,709		
4. Recordkeeping Requirements										
A. Familiarization with Rule Requirements	See 3.A									
B. Plan Activities	N/A									
C. Implement Activities	N/A									
D. Develop Record System	N/A									
E. Record Information										
1) Records of operating parameters	See 3.B.5.b	52	0	0	0	0	0	\$0		0
2) Records of periods for which minimum amount of data on operating parameters were not obtained ^l	0.5	52	26	0	0	0	0	\$0		0
3) Records of malfunction of the unit ^l	1.5	1	1.5	0	0	0	0	\$0		0
4) Records of exceedances of the operating parameters [*]										
a) Units subject to Federal Plan	1.5	1	1.5	0.2	0.3	0.02	0.03	\$40.87	FP Units	0
b) Units subject to State Plan	1.5	1	1.5	0.4	0.6	0.03	0.06	\$81.74	EG units	0
5) Records of stack tests	See 3.E									
6) Records of siting analysis	See 3.E									

Table 1g- Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Energy Recovery Units (Liquid/Gas)

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b		Emission Testing Contractor Hours Per Occurrence
7) Records of persons who have reviewed operating procedures a) Facilities subject to Federal Plan	1	1	1	1	1	0.1	0.1	\$136.24	FP Units	0
b) Facilities subject to State Plan	1	1	1	3	3	0.2	0.3	\$408.72	EG units	0
8) Records of persons who have completed operator training a) Facilities subject to Federal Plan	1	1	1	1	1	0.1	0.1	\$136.24	FP Units	0
b) Facilities subject to State Plan	1	1	1	3	3	0.2	0.3	\$408.72	EG units	0
9) Records of persons who meet operator qualification criteria a) Facilities subject to Federal Plan	1	1	1	1	1	0.1	0.1	\$136.24	FP Units	0
b) Facilities subject to State Plan	1	1	1	3	3	0.2	0.3	\$408.72	EG units	0
10) Records of monitoring device calibration	See 3.B									
11) Records of site-specific documentation a) Facilities subject to Federal Plan	24	1	24	1	24	1.2	2.4	\$3,269.76	FP Units	0
b) Facilities subject to State Plan	24	1	24	3	72	3.6	7.2	\$9,809.28	EG units	0
F. Personnel Training	See 3.B									
G. Time for Audits	N/A									
Subtotal for Recordkeeping Requirements										
Total Labor Burden and Costs (rounded) ^m					125			\$14,837		
					891			\$105,500		
Total Capital and O&M Cost (rounded) ^m									\$598,000	
GRAND TOTAL (rounded) ^m									\$704,000	

Testing, Operation, and Maintenance Costs			
Non-Labor Costs Per Occurrence	Emission Testing Contractor Hours Per Year	Total Non- Labor Costs Per Year	Total Responses Per Year
\$0	0	\$0	0
\$0	0	\$0	0
\$86,540	0	\$173,080	0
\$86,540	0	\$346,160	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	1
\$1,550	0	\$3,100	0
\$18,925	0	\$75,700	0
\$0	0	\$0	2
\$0	0	\$0	2
\$0	0	\$0	0
\$7.50	0	\$15	2
\$0	0	\$0	2

Testing, Operation, and Maintenance Costs			
Non-Labor Costs Per Occurrence	Emission Testing Contractor Hours Per Year	Total Non- Labor Costs Per Year	Total Responses Per Year
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	1
\$7.50	0	\$30	4
\$0	0	\$0	0.2
\$0	0	\$0	0.4
\$0	0	\$0	0.4
\$0	0	\$0	0.8
\$7.50	0	\$2	0.2
\$7.50	0	\$3	0.4
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0

**Table 5.A - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Emissions Guidelines
for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 1, Waste-burning**

for for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 1, Waste-burning (H) (H) Total Labor Costs	(A) Respondent Hours per Occurrence (Technical hours)	Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	(B) Number of Occurrences Per Respondent Per Year	(C) Hours Per Respondent Per Year (C=A x B)	(D) Number of Respondents Per Year (a)	(E) Technical Hours Per Year (CXD)	(F) Management Hours Per Year (E x 0.05)	(G) Clerical Hours Per Year (E x 0.1)	(H) Emission Testing Contractor Hours Per Year	Total Labor Costs Per Year (b)
Burden Item											
1. Applications	Not applicable										
2. Surveys and Studies	Not applicable										
3. Reporting Requirements											
A. Read and Understand Rule Requirements	1	0	\$100	1	1	5	5	0	1	0	\$681
B. Required Activities											
1) Initial stack test and report (PM, dioxins/furans, opacity, HCL, Cd, Pb, Hg, CO, NOx, and SO2 (as required))	Included in E.	varies	\$63,933	1	0	6	0	0	0	799	\$0
2) Annual stack test and test report (PM, HCL, Opacity, and SO2)	Included in E.	803	\$64,273	1	0	0	0	0	0	0	\$0
3) Operator training and qualification											
a) Establish and teach operator qualification course	64	0	\$0	1	64	5	320	16	32	0	\$43,597
b) Obtain operator qualification	72	0	\$0	1	72	5	360	18	36	0	\$49,046
c) Annual refresher course	12		\$0	1	12	0	0	0	0	0	\$0
d) Initial review of site-specific information	Included in a.										
e) Annual review of site-specific information	8	0	\$0	1	8	0	0	0	0	0	\$0
4) Establish operating parameters (maximum and minimum)	40	Included in B.1.	\$0	1	40	6	240	12	24	0	\$32,698
5) Continuous parameter monitoring (including CEMS)											
a) Initial costs	17	0	\$82,067	1	17	6	102	5	10	0	\$13,896
b) Annual costs	17	0	\$176,334	1	17	6	102	5	10	0	\$13,896
C. Create Information	Included in 3.B										
D. Gather Information	Included in 3.E										
E. Report Preparation											
1) Notification of initial performance test											
a) Pollutants, fugitive ash emissions	2	0	\$0	1	2	6	12	1	1	0	\$1,635
b) Fugitive Ash Emissions	1	0	\$0	1	1	6	6	0	1	0	\$817
2) Notification of initial CMS Demonstration	2	0	\$0	1	2	5	10	1	1	0	\$1,362
3) Report of initial performance test											
a) Pollutants, fugitive ash emissions	8	0	\$7.50	1	8	6	48	2	5	0	\$6,540
b) Fugitive Ash Emissions	2	0	\$0	1	2	6	12	1	1	0	\$1,635

**Table 5.A - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Emissions Guidelines
for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 1, Waste-burning**

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	(B) Number of Occurrences Per Respondent Per Year	(C) Hours Per Respondent Per Year (C=A x B)	(D) Number of Respondents Per Year (a)	(E) Technical Hours Per Year (CXD)	(F) Management Hours Per Year (E x 0.05)	(G) Clerical Hours Per Year (E x 0.1)	(H) Emission Testing Contractor Hours Per Year	Total Labor Costs Per Year (b)
4) Report of initial CMS demonstration	Included in 3.B.5										
5) Report prior to construction (includes siting analysis)	160	0	\$0	1	160	5	800	40	80	0	\$108,992
6) Report prior to initial start-up											
a) Without site specific parameter petition	6	0	\$0	1	6	3	18	1	2	0	\$2,452
b) With site specific parameter petition	14	0	\$0	1	14	2	28	1	3	0	\$3,815
7) Report of initial stack test	Included in 3.B.1										
8) Report established values for site-specific operating parameters	Included in 3.B.1	0	\$0	1	0	0	0	0	0	0	\$0
9) Waste management plan	160	0	\$0	1	160	5	800	40	80	0	\$108,992
10) Annual Report:											
a) Results of performance tests conducted during the year	40	0	\$7.50	1	40	0	0	0	0	0	\$0
11) Status report for operators that are off-site for more than 2 weeks	8	0	\$0	1	8	1	8	0	1	0	\$1,090
12) Corrective action summary for operators that are off-site for more than 2 weeks	8	0	\$0	2	16	1	16	1	2	0	\$2,180
13) Semiannual report of emissions/parameter exceedances	24	0	\$7.50	1	24	1	24	1	2	0	\$3,270
F. Affirmative Defense Claim	30	0	\$0	0	0	0	0	0	0	0	\$0
Reporting Subtotal							2,911	146	291	799	\$396,595
4. Recordkeeping Requirements											
A. Read Instructions	Included in 3.A										
B. Plan Activities	Not applicable										
C. Implement Activities	Not applicable										
D. Develop Record System	Not applicable										
E. Record Information											
1) Records of operating parameters	Included in 3.B.5	0	\$0	52	0	0	0	0	0	0	\$0
2) Records of periods for which minimum amount of data on operating parameters were not obtained	0.5	0	\$0	52	26	0	0	0	0	0	\$0
3) Records of malfunction of the unit	1.5	0	\$0	1	1.5	0	0	0	0	0	\$0
4) Records of exceedances of the operating parameters	1.5	0	\$0	1	1.5	1	2	0	0	0	\$204
5) Records of stack tests	Included in 3.E										
6) Records of siting analysis	Included in 3.E										
7) Records of persons who have reviewed operating procedures	1	0	\$0	1	1	0	0	0	0	0	\$0
8) Records of persons who have completed operator training	1	0	\$0	1	1	0	0	0	0	0	\$0
9) Records of persons who meet operator qualification criteria	1	0	\$0	1	1	0	0	0	0	0	\$0
10) Records of monitoring device calibration	Included in 3.B										
11) Records of site-specific documentation	24	0	\$0	1	24	0	0	0	0	0	\$0
F. Personnel Training	Included in 3.B										
G. Time for Audits	Not applicable										
Recordkeeping Subtotal							1.5	0.075	0.15	0	\$204

**Table 5.A - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Emissions Guidelines
for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 1, Waste-burning**

For Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 1, Waste-burning	(A) Respondent Hours per Occurrence (Technical hours)	Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	(B) Number of Occurrences Per Respondent Per Year	(C) Hours Per Respondent Per Year (C=A x B)	(D) Number of Respondents Per Year (a)	(E) Technical Hours Per Year	(F) Management Hours Per Year	(G) Clerical Hours Per Year	(H) Emission Testing Contractor Hours Per Year	Total Labor Costs Per Year (b)
Burden Item							(CXD)	(E x 0.05)	(E x 0.1)		
TOTAL:						2,913		146	291	799	\$396,799
							Total Hours	Labor	Non-Labor	Total	
Summary of Respondent Burden							3,349	\$396,799	\$1,934,555	\$2,331,354	
Annualized Capital and Startup									\$876,500	\$876,500	
O & M Summary									\$1,058,003	\$1,058,003	

FOOTNOTES

^a Based on the total number of existing units expected to continue operating once the guidelines become effective.

^b Costs are based on the following hourly rates: technical at \$34.60, management at \$82.23, clerical at \$22.32, and testing contractor at \$80.

^c One-time only costs.

^d Cost incurred by a facility regardless of the number of affected units at the plant.

^e Annual cost. Annual costs are not incurred until the second year of operation.

^f Based on the sum of the annualized capital costs for each monitoring system required for incinerators.

^g Based on the sum of the calculated annual cost for each monitoring system required for incinerators.

^h Assumed that one-third 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 least once a year. Assumed that this required only two corrective action summaries.

^j Assumed that 10 percent of the facilities would have an exceedance during the year.

^k Standards apply at all times under the newly proposed regulation. Therefore no periods of unobtained data or malfunction periods are expected.

^l Assumed \$100 for purchase of filing cabinet to house copy of rule, records and report copies.

Kilns

Total Non-Labor Costs Per Year	Total Responses Per Year	Footnotes
\$500	5	c, d, l
\$383,600	6	c
\$0	0	e
\$0	5	c
\$0	5	c
\$0	0	e
\$0	0	e
\$0	6	c
\$492,400	6	c, f
\$1,058,003	6	e, g
\$0	6	
\$0	6	
\$0	5	
\$45	6	
\$0	6	

Kilns

Total Non-Labor Costs Per Year	Total Responses Per Year	Footnotes
\$0	5	c
\$0	3	c, h
\$0	2	c, h
\$0	0	c
\$0	5	c
\$0	0	
\$0	1	i
\$0	2	i
\$8	1	j
\$0	0	m
	87	
\$0	0	
\$0	0	k
\$0	0	k
\$0	1	j
\$0	0	
\$0	0	
\$0	0	
\$0	0	
\$0	1	

Kilns

Total Non-Labor Costs Per Year	Total Responses Per Year	Footnotes
\$1,934,555	88	

**Table 5.B - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Emissions Guidelines
for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 2, Waste-burning**

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	(B) Number of Occurrences Per Respondent Per Year	(C) Hours Per Respondent Per Year (C=A x B)	(D) Number of Respondents Per Year (a)	(E) Technical Hours Per Year @\$34.60 (CXD)	(F) Management Hours Per Year @\$82.23 (E x 0.05)	(G) Clerical Hours Per Year @\$22.32 (E x 0.1)	(H) Emission Testing Contractor Hours Per Year @\$80	Total Labor Costs Per Year (b)
1. Applications	Not applicable										
2. Surveys and Studies	Not applicable										
3. Reporting Requirements											
A. Read and Understand Rule Requirements	1	0	\$0	1	1	0	0	0	0	0	\$0
B. Required Activities											
1) Initial stack test and report (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO2 (as required))	Included in E.	varies	\$63,933	1	0	0	0	0	0	799	\$0
2) Annual stack test and test report (PM, HCl, Opacity, and Furans)	Included in E.	803	\$64,273	1	0	6	0	0	0	4,821	\$0
3) Operator training and qualification											
a) Establish and teach operator qualification course	64	0	\$0	1	64	0	0	0	0	0	\$0
b) Obtain operator qualification	72	0	\$0	1	72	0	0	0	0	0	\$0
c) Annual refresher course	12		\$0	1	12	5	60	3	6	0	\$8,174
d) Initial review of site-specific information	Included in a.										
e) Annual review of site-specific information	8	0	\$0	1	8	5	40	2	4	0	\$5,450
4) Establish operating parameters (maximum and minimum)	40	Included in B.1.	\$0	1	40	0	0	0	0	0	\$0
5) Continuous parameter monitoring (including CEMS)											
a) Initial costs	17	0	\$0	1	17	0	0	0	0	0	\$0
b) Annual costs	17	0	\$176,334	1	17	0	0	0	0	0	\$0
C. Create Information	Included in 3.B										
D. Gather Information	Included in 3.E										
E. Report Preparation											
1) Notification of initial performance test											
a) Pollutants, fugitive ash emissions	2	0	\$0	1	2	0	0	0	0	0	\$0
b) Fugitive Ash Emissions	1	0	\$0	1	1	0	0	0	0	0	\$0
2) Notification of initial CMS Demonstration	2	0	\$0	1	2	0	0	0	0	0	\$0
3) Report of initial performance test											
a) Pollutants, fugitive ash emissions	8	0	\$7.50	1	8	0	0	0	0	0	\$0
b) Fugitive Ash Emissions	2	0	\$0	1	2	0	0	0	0	0	\$0
4) Report of initial CMS demonstration	Included in 3.B.5										
5) Report prior to construction (includes siting analysis)	160	0	\$0	1	160	0	0	0	0	0	\$0

**Table 5.B - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Emissions Guidelines
for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 2, Waste-burning**

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	(B) Number of Occurrences Per Respondent Per Year	(C) Hours Per Respondent Per Year (C=A x B)	(D) Number of Respondents Per Year (a)	(E) Technical Hours Per Year @\$34.60 (CXD)	(F) Management Hours Per Year @\$82.23 (E x 0.05)	(G) Clerical Hours Per Year @\$22.32 (E x 0.1)	(H) Emission Testing Contractor Hours Per Year @\$80	Total Labor Costs Per Year (b)
6) Report prior to initial start-up											
a) Without site specific parameter petition	6	0	\$0	1	6	0	0	0	0	0	\$0
b) With site specific parameter petition	14	0	\$0	1	14	0	0	0	0	0	\$0
7) Report of initial stack test	Included in 3.B.1										
8) Report established values for site-specific operating parameters	Included in 3.B	0	\$0	1	0	0	0	0	0	0	\$0
9) Waste management plan	160	0	\$0	1	160	0	0	0	0	0	\$0
10) Annual Report:											
a) Results of performance tests conducted during the year	40	0	\$7.50	1	40	6	240	12	24	0	\$32,698
11) Status report for operators that are off-site for more than 2 weeks	8	0	\$0	1	8	1	8	0	1	0	\$1,090
12) Corrective action summary for operators that are off-site for more than 2 weeks	8	0	\$0	2	16	1	16	1	2	0	\$2,180
13) Semiannual report of emissions/parameter exceedances	24	0	\$7.50	1	24	1	24	1	2	0	\$3,270
F. Affirmative Defense Claim	30	0	\$0	0	0	0	0	0	0	0	\$0
Reporting Subtotal							388	19	39	5,620	\$52,861
4. Recordkeeping Requirements											
A. Read Instructions	Included in 3.A										
B. Plan Activities	Not applicable										
C. Implement Activities	Not applicable										
D. Develop Record System	Not applicable										
E. Record Information											
1) Records of operating parameters	Included in 3.B.5.	0	\$0	52	0	0	0	0	0	0	\$0
2) Records of periods for which minimum amount of data on operating parameters were not obtained	0.5	0	\$0	52	26	0	0	0	0	0	\$0
3) Records of malfunction of the unit	1.5	0	\$0	1	1.5	0	0	0	0	0	\$0
4) Records of exceedances of the operating parameters	1.5	0	\$0	1	1.5	1	2	0	0	0	\$204
5) Records of stack tests	Included in 3.E										
6) Records of siting analysis	Included in 3.E										
7) Records of persons who have reviewed operating procedures	1	0	\$0	1	1	5	5	0	1	0	\$681
8) Records of persons who have completed operator training	1	0	\$0	1	1	5	5	0	1	0	\$681
9) Records of persons who meet operator qualification criteria	1	0	\$0	1	1	5	5	0	1	0	\$681
10) Records of monitoring device calibration	Included in 3.B										
11) Records of site-specific documentation	24	0	\$0	1	24	5	120	6	12	0	\$16,349

**Table 5.B - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Emissions Guidelines
for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 2, Waste-burning**

for for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 2, Waste-burning	(A) Respondent Hours per Occurrence (Technical hours)	Emission Testing Contractor Hours Per Occurrence	Non-Labor Costs Per Occurrence	(B) Number of Occurrences Per Respondent Per Year	(C) Hours Per Respondent Per Year (C=A x B)	(D) Number of Respondents Per Year (a)	(E) Technical Hours Per Year @\$34.60 (CXD)	(F) Management Hours Per Year @\$82.23 (E x 0.05)	(G) Clerical Hours Per Year @\$22.32 (E x 0.1)	(H) Emission Testing Contractor Hours Per Year @\$80	Total Labor Costs Per Year (b)
Burden Item											
F. Personnel Training	Included in 3.B										
G. Time for Audits	Not applicable										
<i>Recordkeeping Subtotal</i>							136.5	6.825	13.65	0	\$18,597
TOTAL:							525	26	52	5,620	\$71,458
							Total Hours Labor Non-Labor Total				
							Summary of Respondent Burden 603 \$71,458 \$1,936,095 \$2,007,553				
							Annualized Capital and Startup \$492,400 \$492,400				
							O & M Summary \$1,058,003 \$1,058,003				

FOOTNOTES

- ^a Based on the total number of existing units expected to continue operating once the guidelines become effective.
- ^b Costs are based on the following hourly rates: technical at \$34.60, management at \$82.23, clerical at \$22.32, and testing contractor at \$80.
- ^c One-time only costs.
- ^d Cost incurred by a facility regardless of the number of affected units at the plant.
- ^e Annual cost. Annual costs are not incurred until the second year of operation.
- ^f Based on the sum of the annualized capital costs for each monitoring system required for incinerators.
- ^g Based on the sum of the calculated annual cost for each monitoring system required for incinerators.
- ^h Assumed that one-third 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 least once a year. Assumed that this required only two corrective action summaries.
- ^j Assumed that 10 percent of the facilities would have an exceedance during the year.
- ^k Standards apply at all times under the newly proposed regulation. Therefore no periods of unobtained data or malfunction periods are expected.
- ^l Assumed \$100 for purchase of filing cabinet to house copy of rule, records and report copies.

Kilns

Total Non-Labor Costs Per Year	Total Responses Per Year	Footnotes
\$0	0	c, d, l
\$0	0	c
\$385,640	6	e
\$0	0	c
\$0	0	c
\$0	5	e
\$0	5	e
\$0	0	c
\$492,400	0	c, f
\$1,058,003	0	e, g
\$0	0	
\$0	0	
\$0	0	
\$0	0	
\$0	0	
\$0	0	
\$0	0	c

Kilns

Total Non-Labor Costs Per Year	Total Responses Per Year	Footnotes
\$0	0	c, h
\$0	0	c, h
\$0	0	c
\$0	0	c
\$45	6	
\$0	1	i
\$0	2	i
\$8	1	j
\$0	0	m
	26	
\$0	0	
\$0	0	k
\$0	0	k
\$0	1	j
\$0	5	
\$0	5	
\$0	5	
\$0	5	

Kilns

Total Non-Labor Costs Per Year	Total Responses Per Year	Footnotes
\$0	21	
\$1,936,095	47	

Table 1h- Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Energy Recovery Units (Liquid/Gas)

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b		Emission Testing Contractor Hours Per Occurrence
1. Applications	N/A									
2. Surveys and Studies	N/A									
3. Reporting Requirements										
A. Familiarization with Rule Requirements ^c										
1) Facilities subject to Federal Plan	1	1	1	1	1	0	0	\$136.24	FP facilities	0
2) Facilities subject to State Plan	1	1	1	3	3	0	0	\$408.72	EG facilities	0
B. Required Activities										
1) Initial stack test and report (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO2 (as required)) ^d	See 3.E.									varies
2) Annual stack test and test report (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO2 (as required)) ^e a) Units subject to Federal Plan	See 3.E.10									1082
b) Units subject to State Plan	See 3.E.10									1082
3) Operator training and qualification										
a) Establish and teach operator qualification course ^f	64	1	64	0	0	0	0	\$0		0
b) Obtain operator qualification ^f	72	1	72	0	0	0	0	\$0		0
c) Annual refresher course ^g i. Facilities subject to Federal Plan	12	1	12	1	12	0.6	1.2	\$1,634.88	FP facilities	0
ii. Facilities subject to State Plan	12	1	12	3	36	1.8	3.6	\$4,904.64	EG facilities	0
d) Initial review of site-specific information	See 3.B.3.a.									
e) Annual review of site-specific information ^g i. Facilities subject to Federal Plan	8	1	8	1	8	0.4	0.8	\$1,089.92	FP facilities	0
ii. Facilities subject to State Plan	8	1	8	3	24	1.2	2.4	\$3,269.76	EG facilities	0
4) Establish operating parameters (maximum and minimum) ^d	40	1	40	0	0	0	0	\$0		Included in B.1.
5) Continuous parameter monitoring (including CEMS)										
a) Initial costs ^f	17	1	17	0	0	0	0	\$0		0
b) Annual costs ^g	17	1	17	0	0	0	0	\$0		0
C. Create Information	See 3.B									
D. Gather Information	See 3.E									
E. Report Preparation										
1) Notification of initial performance test ^h										
a) Pollutants, fugitive ash emissions	2	1	2	0	0	0	0	\$0		0
b) Fugitive Ash Emissions	1	1	1	0	0	0	0	\$0		0

Table 1h- Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Energy Recovery Units (Liquid/Gas)

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b		Emission Testing Contractor Hours Per Occurrence
2) Notification of initial CMS Demonstration ^h	2	1	2	0	0	0	0	\$0		0
3) Report of initial performance test ^h										
a) Pollutants, fugitive ash emissions	40	1	40	0	0	0	0	\$0		0
b) Fugitive Ash Emissions	8	1	8	0	0	0	0	\$0		0
4) Report of initial CMS demonstration ^h	See 3.B.5									
5) Report prior to construction (includes siting analysis) ^h	160	1	160	0	0	0	0	\$0		0
6) Report prior to initial start-up ^{h,i}										
a) Without site specific parameter petition	6	1	6	0	0	0	0	\$0		0
b) With site specific parameter petition	14	1	14	0	0	0	0	\$0		0
7) Report of initial stack test ^h	See 3.B.1									
8) Report established values for site-specific operating parameters ^h	See 3.B	1	#VALUE!	0	#VALUE!	#VALUE!	#VALUE!	\$0		0
9) Waste management plan ^h	160	1	160	0	0	0	0	\$0		0
10) Report results of annual performance test ^e										
a) Units subject to Federal Plan	30	1	30	2	60	3	6	\$8,174.40	FP Units	0
b) Units subject to State Plan	30	1	30	4	120	6	12	\$16,348.80	EG units	0
11) Status report for operators that are off-site for more than 2 weeks ^j										
a) Units subject to Federal Plan	8	1	8	0.2	1.6	0.08	0.16	\$217.98	FP Units	0
b) Units subject to State Plan	8	1	8	0.4	3.2	0.16	0.32	\$435.97	EG units	0
12) Corrective action summary for operators that are off-site for more than 2 weeks ^j										
a) Units subject to Federal Plan	8	2	16	0.2	3.2	0.16	0.32	\$435.97	FP Units	0
b) Units subject to State Plan	8	2	16	0.4	6.4	0.32	0.64	\$871.94	EG units	0
13) Semiannual report of emissions/parameter exceedances ^k										
a) Units subject to Federal Plan	24	1	24	0.2	4.8	0.24	0.48	\$653.95	FP Units	0
b) Units subject to State Plan	24	1	24	0.4	9.6	0.48	0.96	\$1,307.90	EG units	0
Subtotal for Reporting Requirements					337			\$39,891		
4. Recordkeeping Requirements										
A. Familiarization with Rule Requirements	See 3.A									
B. Plan Activities	N/A									
C. Implement Activities	N/A									
D. Develop Record System	N/A									
E. Record Information										
1) Records of operating parameters	See 3.B.5.b	52	0	0	0	0	0	\$0		0

Table 1h- Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Energy Recovery Units (Liquid/Gas)

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b		Emission Testing Contractor Hours Per Occurrence
2) Records of periods for which minimum amount of data on operating parameters were not obtained ¹	0.5	52	26	0	0	0	0	\$0		0
3) Records of malfunction of the unit ¹	1.5	1	1.5	0	0	0	0	\$0		0
4) Records of exceedances of the operating parameters ^k a) Units subject to Federal Plan	1.5	1	1.5	0.2	0.3	0.02	0.03	\$40.87	FP Units	0
b) Units subject to State Plan	1.5	1	1.5	0.4	0.6	0.03	0.06	\$81.74	EG units	0
5) Records of stack tests	See 3.E									
6) Records of siting analysis	See 3.E									
7) Records of persons who have reviewed operating procedures a) Facilities subject to Federal Plan	1	1	1	1	1	0.1	0.1	\$136.24	FP Units	0
b) Facilities subject to State Plan	1	1	1	3	3	0.2	0.3	\$408.72	EG units	0
8) Records of persons who have completed operator training a) Facilities subject to Federal Plan	1	1	1	1	1	0.1	0.1	\$136.24	FP Units	0
b) Facilities subject to State Plan	1	1	1	3	3	0.2	0.3	\$408.72	EG units	0
9) Records of persons who meet operator qualification criteria a) Facilities subject to Federal Plan	1	1	1	1	1	0.1	0.1	\$136.24	FP Units	0
b) Facilities subject to State Plan	1	1	1	3	3	0.2	0.3	\$408.72	EG units	0
10) Records of monitoring device calibration	See 3.B									
11) Records of site-specific documentation a) Facilities subject to Federal Plan	24	1	24	1	24	1.2	2.4	\$3,269.76	FP Units	0
b) Facilities subject to State Plan	24	1	24	3	72	3.6	7.2	\$9,809.28	EG units	
F. Personnel Training	See 3.B									
G. Time for Audits	N/A									
Subtotal for Recordkeeping Requirements					125			\$14,837		
Total Labor Burden and Costs (rounded) ^m					462			\$54,700		
Total Capital and O&M Cost (rounded) ^m								\$598,000		
GRAND TOTAL (rounded) ^m								\$653,000		

Testing, Operation, and Maintenance Costs			
Non-Labor Costs Per Occurrence	Emission Testing Contractor Hours Per Year	Total Non- Labor Costs Per Year	Total Responses Per Year
\$0	0	\$0	0
\$0	0	\$0	0
\$86,540	0	\$0	0
\$86,540	0	\$173,080	0
\$86,540	0	\$346,160	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$37,850	0	\$3,100	0
\$18,925	0	\$75,700	0
\$0	0	\$0	0
\$0	0	\$0	0

Testing, Operation, and Maintenance Costs			
Non-Labor Costs Per Occurrence	Emission Testing Contractor Hours Per Year	Total Non- Labor Costs Per Year	Total Responses Per Year
\$0	0	\$0	0
\$7.50	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$7.50	0	\$15	2
\$7.50	0	\$30	4
\$0	0	\$0	0.2
\$0	0	\$0	0.4
\$0	0	\$0	0.4
\$0	0	\$0	0.8
\$7.50	0	\$2	0.2
\$7.50	0	\$3	0.4
\$0	0	\$0	0

Table 7 - Annual Federal Government Burden and Cost of Recordkeeping and Reporting Requirements for the Emission Guidelines for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 1

Burden Item	(A)		(B)	(C)	(D)	(E)	(F)
	Number of Occurrences Per Year		EPA Hours Per Occurrence	Tech Hours Per Year (C=AxB)	Management Hours Per Year (D=Cx0.05)	Clerical Hours Per Year (E=Cx0.1)	EPA Cost Per Year (a,b)
1. Applications	not applicable						
2. Read and Understand Rule Requirements	1	c	16	16	1	2	\$1,266
3. Required Activities							
A. Observe initial stack tests (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO2)	5	c,d	48	221	11	22	\$17,473
B. Excess emissions -- Enforcement Activities	2	f	24	55	3	6	\$4,368
C. Create Information	not applicable						
D. Gather Information	not applicable						
E. Report Reviews							
1) Review waste management plan and siting analysis	17	c	8	136	7	14	\$10,762
2) Review report submitted prior to initial startup	8	c	2	16	1	2	\$1,266
3) Review initial stack test report	23	c	40	920	46	92	\$72,805
4) Review annual compliance report	0	e	8	0	0	0	\$0
5) Review semi-annual excess emission and parameter exceedance report	5	f	16	78	4	8	\$6,204
6) Review status reports and corrective action summary for operators off-site	10	g	4	39	2	4	\$3,102
F. Prepare annual summary report	1		200	200	10	20	\$15,827
5. Travel expenses: (1 person * 30 hours per year / 8 hours per day * \$75 per diem) + (\$600 per round trip)			\$881	per trip			\$4,054
TOTAL				1682	84	168	\$137,128

FOOTNOTES

- a Costs are based on the following hourly rates (loaded with 60% for fringe and overhead): technical at \$52.37, management at \$86.56, clerical at \$29.52.
- b Figures may not add exactly due to rounding.
- c One-time only costs.
- d Assumes EPA personnel attend 20 percent of the initial stack tests.
- e Burden not incurred until second year of operation onward.
- f Assume that 10 percent of the facilities have an exceedance during the year.
- g Assumed that 10 percent of the facilities would not have a qualified operator for more than two weeks at least once a year. Assumed that 1 status report and 2 corrective action summaries are submitted.

Table 8 - Annual Federal Government Burden and Cost of Recordkeeping and Reporting Requirements for the Emission Guidelines for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units - Subpart DDDD - Year 2

Burden Item	(A)		(B)	(C)	(D)	(E)	(F)
	Number of Occurrences Per Year		EPA Hours Per Occurrence	Tech Hours Per Year (C=AxB)	Management Hours Per Year (D=Cx0.05)	Clerical Hours Per Year (E=Cx0.1)	EPA Cost Per Year (a,b)
1. Applications	not applicable						
2. Read and Understand Rule Requirements	0	c	16	0	0	0	\$0
3. Required Activities							
A. Observe initial stack tests (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO2)	0	c,d	48	0	0	0	\$0
B. Excess emissions -- Enforcement Activities	2	f	24	55	3	6	\$4,368
C. Create Information	not applicable						
D. Gather Information	not applicable						
E. Report Reviews							
1) Review waste management plan and siting analysis	0	c	8	0	0	0	\$0
2) Review report submitted prior to initial startup	0	c	2	0	0	0	\$0
3) Review initial stack test report	0	c	40	0	0	0	\$0
4) Review annual compliance report	23	e	8	184	9	18	\$14,561
5) Review semi-annual excess emission and parameter exceedance report	5	f	16	78	4	8	\$6,204
6) Review status reports and corrective action summary for operators off-site	10	g	4	39	2	4	\$3,102
F. Prepare annual summary report	1		200	200	10	20	\$15,827
5. Travel expenses: (1 person * 30 hours per year / 8 hours per day * \$75 per diem) + (\$600 per round trip	per trip						\$0
TOTAL				557	28	56	\$44,063

FOOTNOTES

- a Costs are based on the following hourly rates (loaded with 60% for fringe and overhead): technical at \$52.37, management at \$86.56, clerical at \$29.52.
- b Figures may not add exactly due to rounding.
- c One-time only costs.
- d Assumes EPA personnel attend 20 percent of the initial stack tests.
- e Burden not incurred until second year of operation onward.
- f Assume that 10 percent of the facilities have an exceedance during the year.
- g Assumed that 10 percent of the facilities would not have a qualified operator for more than two weeks at least once a year. Assumed that 1 status report and 2 corrective action summaries are submitted.

Table 1i- Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Waste-burning Kilns

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b		Emission Testing Contractor Hours Per Occurrence
1. Applications	N/A									
2. Surveys and Studies	N/A									
3. Reporting Requirements										
A. Familiarization with Rule Requirements ^c										
1) Facilities subject to Federal Plan	16	1	16	5	80	4	8	\$10,899.20	FP facilities	0
2) Facilities subject to State Plan	1	1	1	8	8	0	1	\$1,089.92	EG facilities	0
B. Required Activities										
1) Initial stack test and report (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO2 (as required)) ^d	See 3.E.									varies
2) Annual stack test and test report (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO2 (as required)) ^e	See 3.E.10									803
3) Operator training and qualification										
a) Establish and teach operator qualification course ^f	64	1	64	5	320	16	32	\$43,597	FP facilities	0
b) Obtain operator qualification ^f	72	1	72	5	360	18	36	\$49,046	FP facilities	0
c) Annual refresher course ^g	12	1	12	8	96	4.8	9.6	\$13,079.04	EG facilities	
d) Initial review of site-specific information	See 3.B.3.a.									
e) Annual review of site-specific information ^g	8	1	8	8	64	3.2	6.4	\$8,719.36	EG facilities	0
4) Establish operating parameters (maximum and minimum) ^d	40	1	40	6	240	12	24	\$32,698	FP facilities	Included in B.1.
5) Continuous parameter monitoring (including CEMS)										
a) Initial costs ^f	17	1	17	0	0	0	0	\$0		0
b) Annual costs ^g	17	1	17	0	0	0	0	\$0		0
C. Create Information	See 3.B									
D. Gather Information	See 3.E									
E. Report Preparation										
1) Notification of initial performance test ^h										
a) Pollutants, fugitive ash emissions	2	1	2	6	12	1	1	\$1,635	FP units	0
b) Fugitive Ash Emissions	1	1	1	6	6	0	1	\$817	FP units	0
2) Notification of initial CMS Demonstration ^h	2	1	2	0	0	0	0	\$0		0
3) Report of initial performance test ^h										
a) Pollutants, fugitive ash emissions	40	1	40	6	240	12	24	\$32,698	FP units	0
b) Fugitive Ash Emissions	8	1	8	6	48	2	5	\$6,540	FP units	0
4) Report of initial CMS demonstration ^h	See 3.B.5									
5) Report prior to construction (includes siting analysis) ^h	160	1	160	0	0	0	0	\$0		0

Table 1i- Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Waste-burning Kilns

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b		Emission Testing Contractor Hours Per Occurrence
6) Report prior to initial start-up ^{h, i}										
a) Without site specific parameter petition	6	1	6	0	0	0	0	\$0		0
b) With site specific parameter petition	14	1	14	0	0	0	0	\$0		0
7) Report of initial stack test ^h	See 3.B.1									
8) Report established values for site-specific operating parameters ^h	See 3.B	1	#VALUE!	0	#VALUE!	#VALUE!	#VALUE!	\$0		0
9) Waste management plan ^h	160	1	160	5	800	40	80	\$108,992	FP facilities	0
10) Report of results of annual performance test ^e	30	1	30	17	510	26	51	\$69,482.40	EG units	0
11) Status report for operators that are off-site for more than 2 weeks ^j a) Units subject to Federal Plan	8	1	8	0.6	4.8	0.24	0.48	\$653.95	FP Units	0
b) Units subject to State Plan	8	1	8	1.7	13.6	0.68	1.36	\$1,852.86	EG units	0
12) Corrective action summary for operators that are off-site for more than 2 weeks ^j a) Units subject to Federal Plan	8	2	16	0.6	9.6	0.48	0.96	\$1,307.90	FP Units	0
b) Units subject to State Plan	8	2	16	1.7	27.2	1.36	2.72	\$3,705.73	EG units	0
13) Semiannual report of emissions/parameter exceedances ^k a) Units subject to Federal Plan	24	1	24	0.6	14.4	0.72	1.44	\$1,961.86	FP Units	0
b) Units subject to State Plan	24	1	24	1.7	40.8	2.04	4.08	\$5,558.59	EG units	0
Subtotal for Reporting Requirements					3,329			\$394,333		
4. Recordkeeping Requirements										
A. Familiarization with Rule Requirements	See 3.A									
B. Plan Activities	N/A									
C. Implement Activities	N/A									
D. Develop Record System	N/A									
E. Record Information										
1) Records of operating parameters	See 3.B.5.b	52	0	0	0	0	0	\$0		0
2) Records of periods for which minimum amount of data on operating parameters were not obtained ^l	0.5	52	26	0	0	0	0	\$0		0
3) Records of malfunction of the unit ^l	1.5	1	1.5	0	0	0	0	\$0		0
4) Records of exceedances of the operating parameters ^k a) Units subject to Federal Plan	1.5	1	1.5	0.6	0.90	0.05	0.09	\$122.62	FP Units	0
b) Units subject to State Plan	1.5	1	1.5	1.7	2.55	0.13	0.26	\$347.41	EG units	0
5) Records of stack tests	See 3.E									
6) Records of siting analysis	See 3.E									

Table 1i- Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Waste-burning Kilns

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b		Emission Testing Contractor Hours Per Occurrence
7) Records of persons who have reviewed operating procedures a) Facilities subject to Federal Plan	1	1	1	5	5	0.25	0.5	\$681.20	FP Units	0
b) Facilities subject to State Plan	1	1	1	8	8	0.40	0.8	\$1,089.92	EG units	0
8) Records of persons who have completed operator training a) Facilities subject to Federal Plan	1	1	1	5	5	0.25	0.5	\$681.20	FP Units	0
b) Facilities subject to State Plan	1	1	1	8	8	0.40	0.8	\$1,089.92	EG units	0
9) Records of persons who meet operator qualification criteria a) Facilities subject to Federal Plan	1	1	1	5	5	0.25	0.5	\$681.20	FP Units	0
b) Facilities subject to State Plan	1	1	1	8	8	0.40	0.8	\$1,089.92	EG units	0
10) Records of monitoring device calibration	See 3.B									
11) Records of site-specific documentation a) Facilities subject to Federal Plan	24	1	24	5	120	6.0	12.0	\$16,348.80	FP Units	0
b) Facilities subject to State Plan	24	1	24	8	192	9.60	19.2	\$26,158.08	EG units	0

Table 1i- Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Waste-burning Kilns

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b
F. Personnel Training	See 3.B							
G. Time for Audits	N/A							
Subtotal for Recordkeeping Requirements					408			\$48,290
Total Labor Burden and Costs (rounded) ^m					3,736			\$443,000
Total Capital and O&M Cost (rounded) ^m								\$5,530,000
GRAND TOTAL (rounded) ^m								\$5,970,000

Assumptions

Emission Testing Contractor Hours Per Occurrence

Testing, Operation, and Maintenance Costs			
Non-Labor Costs Per Occurrence	Emission Testing Contractor Hours Per Year	Total Non- Labor Costs Per Year	Total Responses Per Year
\$0	0	\$0	0
\$0	0	\$0	0
\$64,273	0	\$385,640	0
\$64,273	0	\$1,092,647	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	6
\$176,334	0	\$1,058,003	0
\$176,157	0	\$2,994,674	0
\$0	0	\$0	6
\$0	0	\$0	6
\$0	0	\$0	0
\$7.50	0	\$45	6
\$0	0	\$0	6
\$0	0	\$0	0

Testing, Operation, and Maintenance Costs			
Non-Labor Costs Per Occurrence	Emission Testing Contractor Hours Per Year	Total Non- Labor Costs Per Year	Total Responses Per Year
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	5
\$7.50	0	\$128	17
\$0	0	\$0	0.6
\$0	0	\$0	1.7
\$0	0	\$0	1.2
\$0	0	\$0	3.4
\$7.50	0	\$5	0.6
\$7.50	0	\$13	1.7
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0

Testing, Operation, and Maintenance Costs			
Non-Labor Costs Per Occurrence	Emission Testing Contractor Hours Per Year	Total Non- Labor Costs Per Year	Total Responses Per Year
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0

Testing, Operation, and Maintenance Costs			
Non-Labor Costs Per Occurrence	Emission Testing Contractor Hours Per Year	Total Non- Labor Costs Per Year	Total Responses Per Year
		\$5,530,000	

FP O&M EG O&M

\$1,443,643 \$4,087,321

Table 1j- Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Waste-burning Kilns

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b		Emission Testing Contractor Hours Per Occurrence
1. Applications	N/A									
2. Surveys and Studies	N/A									
3. Reporting Requirements										
A. Familiarization with Rule Requirements ^c										
1) Facilities subject to Federal Plan	1	1	1	5	5	0	1	\$681.20	FP facilities	0
2) Facilities subject to State Plan	1	1	1	8	8	0	1	\$1,089.92	EG facilities	0
B. Required Activities										
1) Initial stack test and report (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO2 (as required)) ^d	See 3.E.									varies
2) Annual stack test and test report (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO2 (as required)) ^e a) Units subject to Federal Plan	See 3.E.10									803
b) Units subject to State Plan	See 3.E.10									803
3) Operator training and qualification										
a) Establish and teach operator qualification course ^f	64	1	64	0	0	0	0	\$0		0
b) Obtain operator qualification ^f	72	1	72	0	0	0	0	\$0		0
c) Annual refresher course ^g i. Facilities subject to Federal Plan	12	1	12	5	60	3.0	6.0	\$8,174.40	FP facilities	0
ii. Facilities subject to State Plan	12	1	12	8	96	4.8	9.6	\$13,079.04	EG facilities	0
d) Initial review of site-specific information	See 3.B.3.a.									
e) Annual review of site-specific information ^g i. Facilities subject to Federal Plan	8	1	8	5	40	2.0	4.0	\$5,449.60	FP facilities	0
ii. Facilities subject to State Plan	8	1	8	8	64	3.2	6.4	\$8,719.36	EG facilities	0
4) Establish operating parameters (maximum and minimum) ^d	40	1	40	0	0	0	0	\$0		Included in B.1.
5) Continuous parameter monitoring (including CEMS)										
a) Initial costs ^f	17	1	17	0	0	0	0	\$0		0
b) Annual costs ^g	17	1	17	0	0	0	0	\$0		0
C. Create Information	See 3.B									
D. Gather Information	See 3.E									
E. Report Preparation										
1) Notification of initial performance test ^h										
a) Pollutants, fugitive ash emissions	2	1	2	0	0	0	0	\$0		0
b) Fugitive Ash Emissions	1	1	1	0	0	0	0	\$0		0
2) Notification of initial CMS Demonstration ^h	2	1	2	0	0	0	0	\$0		0

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Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b
3) Report of initial performance test ^h								
a) Pollutants, fugitive ash emissions	40	1	40	0	0	0	0	\$0
b) Fugitive Ash Emissions	8	1	8	0	0	0	0	\$0
4) Report of initial CMS demonstration ^h	See 3.B.5							
5) Report prior to construction (includes siting analysis) ^h	160	1	160	0	0	0	0	\$0

Emission Testing Contractor Hours Per Occurrence
0
0
0

Table 1j- Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Waste-burning Kilns

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b		Emission Testing Contractor Hours Per Occurrence
6) Report prior to initial start-up ^{h, i}										
a) Without site specific parameter petition	6	1	6	0	0	0	0	\$0		0
b) With site specific parameter petition	14	1	14	0	0	0	0	\$0		0
7) Report of initial stack test ^h	See 3.B.1									
8) Report established values for site-specific operating parameters ^h	See 3.B	1	#VALUE!	0	#VALUE!	#VALUE!	#VALUE!	\$0		0
9) Waste management plan ^h	160	1	160	0	0	0	0	\$0		0
10) Report results of annual performance test ^e a) Units subject to Federal Plan	30	1	30	6	180	9	18	\$24,523.20	FP Units	0
b) Units subject to State Plan	30	1	30	17	510	26	51	\$69,482.40	EG units	0
11) Status report for operators that are off-site for more than 2 weeks ^j a) Units subject to Federal Plan	8	1	8	0.6	4.8	0.24	0.48	\$653.95	FP Units	0
b) Units subject to State Plan	8	1	8	1.7	13.6	0.68	1.36	\$1,852.86	EG units	0
12) Corrective action summary for operators that are off-site for more than 2 weeks ^j a) Units subject to Federal Plan	8	2	16	0.6	9.6	0.48	0.96	\$1,307.90	FP Units	0
b) Units subject to State Plan	8	2	16	1.7	27.2	1.36	2.72	\$3,705.73	EG units	0
13) Semiannual report of emissions/parameter exceedances ^k a) Units subject to Federal Plan	24	1	24	0.6	14.4	0.72	1.44	\$1,961.86	FP Units	0
b) Units subject to State Plan	24	1	24	1.7	40.8	2.04	4.08	\$5,558.59	EG units	0
Subtotal for Reporting Requirements					1,234			\$146,240		
4. Recordkeeping Requirements										
A. Familiarization with Rule Requirements	See 3.A									
B. Plan Activities	N/A									
C. Implement Activities	N/A									
D. Develop Record System	N/A									
E. Record Information										
1) Records of operating parameters	See 3.B.5.b	52	0	0	0	0	0	\$0		0
2) Records of periods for which minimum amount of data on operating parameters were not obtained ^l	0.5	52	26	0	0	0	0	\$0		0
3) Records of malfunction of the unit ^l	1.5	1	1.5	0	0	0	0	\$0		0
4) Records of exceedances of the operating parameters ^k a) Units subject to Federal Plan	1.5	1	1.5	0.6	0.90	0.05	0.09	\$122.62	FP Units	0
b) Units subject to State Plan	1.5	1	1.5	1.7	2.55	0.13	0.26	\$347.41	EG units	0
5) Records of stack tests	See 3.E									

Table 1j- Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Waste-burning Kilns

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b		Emission Testing Contractor Hours Per Occurrence
6) Records of siting analysis	See 3.E									
7) Records of persons who have reviewed operating procedures a) Facilities subject to Federal Plan	1	1	1	5	5	0.25	0.5	\$681.20	FP Units	0
b) Facilities subject to State Plan	1	1	1	8	8	0.40	0.8	\$1,089.92	EG units	0
8) Records of persons who have completed operator training a) Facilities subject to Federal Plan	1	1	1	5	5	0.25	0.5	\$681.20	FP Units	0
b) Facilities subject to State Plan	1	1	1	8	8	0.40	0.8	\$1,089.92	EG units	0
9) Records of persons who meet operator qualification criteria a) Facilities subject to Federal Plan	1	1	1	5	5	0.25	0.5	\$681.20	FP Units	0
b) Facilities subject to State Plan	1	1	1	8	8	0.40	0.8	\$1,089.92	EG units	0
10) Records of monitoring device calibration	See 3.B									
11) Records of site-specific documentation a) Facilities subject to Federal Plan	24	1	24	5	120	6.0	12.0	\$16,348.80	FP Units	0
b) Facilities subject to State Plan	24	1	24	8	192	9.6	19.2	\$26,158.08	EG units	0

Table 1j- Annual Respondent Burden and Cost - Emissions Guidelines and Federal Plan Requirements for Existing Stationary Sources: Commercial and Industrial Solid Waste Incineration Units (40 CFR Part 60, Subpart DDDD and 40 CFR 62, Subpart IIIa) (Final Rule) - Waste-burning Kilns

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C = A x B)	(D) Respondents per year ^a	(E) Technical person- hours per year (E = C x D)	(F) Management person hours per year (E x 0.05)	(G) Clerical person hours per year (E x 0.1)	(H) Total Cost Per year ^b
F. Personnel Training	See 3.B							
G. Time for Audits	N/A							
Subtotal for Recordkeeping Requirements					408			\$48,290
Total Labor Burden and Costs (rounded) ^m					1,642			\$195,000
Total Capital and O&M Cost (rounded) ^m								\$5,530,000
GRAND TOTAL (rounded) ^m								\$5,730,000

Assumptions

Emission Testing Contractor Hours Per Occurrence

Testing, Operation, and Maintenance Costs			
Non-Labor Costs Per Occurrence	Emission Testing Contractor Hours Per Year	Total Non- Labor Costs Per Year	Total Responses Per Year
\$0	0	\$0	0
\$0	0	\$0	0
\$64,273	0	\$0	0
\$64,273	0	\$385,640	0
\$64,273	0	\$1,092,647	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$176,334	0	\$1,058,003	0
\$176,157	0	\$2,994,674	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0

Testing, Operation, and Maintenance Costs			
Non-Labor Costs Per Occurrence	Emission Testing Contractor Hours Per Year	Total Non- Labor Costs Per Year	Total Responses Per Year
\$7.50	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0

Testing, Operation, and Maintenance Costs			
Non-Labor Costs Per Occurrence	Emission Testing Contractor Hours Per Year	Total Non- Labor Costs Per Year	Total Responses Per Year
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$7.50	0	\$45	6
\$7.50	0	\$128	17
\$0	0	\$0	0.6
\$0	0	\$0	1.7
\$0	0	\$0	1.2
\$0	0	\$0	3.4
\$7.50	0	\$5	0.6
\$7.50	0	\$13	1.7
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0

Testing, Operation, and Maintenance Costs			
Non-Labor Costs Per Occurrence	Emission Testing Contractor Hours Per Year	Total Non- Labor Costs Per Year	Total Responses Per Year
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0
\$0	0	\$0	0

Testing, Operation, and Maintenance Costs			
Non-Labor Costs Per Occurrence	Emission Testing Contractor Hours Per Year	Total Non- Labor Costs Per Year	Total Responses Per Year
		\$5,530,000	

FP O&M EG O&M

\$1,443,643 \$4,087,321

Required Activities								
A. Observe initial stack tests (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO2) ^{c, d}	48	0.2	10	0	0	0	0	\$0
B. Excess emissions -- Enforcement Activities ^e	24	0.1	2	5.6	13	1	1	\$1,063.58
C. Report Reviews								
1) Review waste management plan and siting analysis ^c	8	17	136	0	0	0	0	\$0
2) Review report submitted prior to initial startup ^c	2	0	0	0	0	0	0	\$0
3) Review initial stack test report ^c	40	1	40	0	0	0	0	\$0
4) Review annual compliance report	8	1	8	56	448	22	44.8	\$35,452.70
5) Review semi-annual excess emission and parameter exceedance report ^e	16	1	16.0	5.6	90	4.5	9.0	\$7,090.54
6) Review status reports and corrective action summary for operators off-site ^f	4	3	12.0	3.6	43	2.2	4	\$3,418.65
D. Prepare annual summary report ^g	200	1	200	1	200	10	20	\$15,827.10
TOTAL (rounded) ^h					910			\$62,900

Assumptions

^a We assume an average of 56 CISWI units at 36 existing respondents per year are subject to a State Plan over the next three years. We also assume that no new units will become subject during the three-year period of this ICR.

^b This ICR uses the following labor rates: \$54.51 (technical), \$73.46 (managerial), and \$29.50 (clerical). These rates are from the Office of Personnel Management (OPM), 2023 General Schedule, which excludes locality rates of pay. The rates have been increased by 60 percent to account for the benefit packages available to government employees.

^c These are one-time only costs associated with the startup of a new CISWI unit. We assume that no new units will become subject during the three-year period of this ICR.

^d We assume that EPA personnel will attend 20 percent of the initial stack tests.

^e We assume that 10 percent of the 56 CISWI units have an exceedance during the year.

^f We assume that 10 percent of the 36 facilities would not have a qualified operator for more than two weeks at least once a year. We assume that 1 status report and 2 corrective action summaries are submitted and that it takes 4 hours to review each report.

^g Once each year, agencies prepare an annual summary report for all of the CISWI units subject to Subpart DDDD.

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

Required Activities								
A. Observe initial stack tests (PM, dioxins/furans, opacity, HCl, Cd, Pb, Hg, CO, NOx, and SO2) ^{c, d}	48	0.2	10	2	15	1	1	\$1,165
B. Excess emissions -- Enforcement Activities ^e	24	0.1	2	5	11	1	1	\$873.66
C. Report Reviews								
1) Review waste management plan and siting analysis ^c	8	17	136	6	771	39	77	\$60,987
2) Review report submitted prior to initial startup ^c	2	0	0	0	0	0	0	\$0
3) Review initial stack test report ^c	40	1	40	23	920	46	92	\$72,805
4) Review annual compliance report	8	1	8	46	368	18	36.8	\$29,121.86
5) Review semi-annual excess emission and parameter exceedance report ^e	16	1	16.0	4.6	74	3.7	7.4	\$5,824.37
6) Review status reports and corrective action summary for operators off-site ^f	4	3	12.0	4.0	48	2.4	5	\$3,798.50
D. Prepare annual summary report ^g	200	1	200	1	200	10	20	\$15,827.10
TOTAL (rounded) ^h					2,770			\$190,400

Assumptions

^a We assume an average of 46 CISWI units at 40 existing respondents per year over the next three years. We also assume that no new units will become subject during the three-year period of this ICR.

^b This ICR uses the following labor rates: \$54.51 (technical), \$73.46 (managerial), and \$29.50 (clerical). These rates are from the Office of Personnel Management (OPM), 2023 General Schedule, which excludes locality rates of pay. The rates have been increased by 60 percent to account for the benefit packages available to government employees.

^c These are one-time only costs associated with the startup of a new CISWI unit or coming into compliance with the Federal plan. We assume that no new units will become subject during the three-year period of this ICR.

^d We assume that EPA personnel will attend 20 percent of the initial stack tests.

^e We assume that 10 percent of the 46 CISWI units have an exceedance during the year.

^f We assume that 10 percent of the 40 facilities would not have a qualified operator for more than two weeks at least once a year. We assume that 1 status report and 2 corrective action summaries are submitted and that it takes 4 hours to review each report.

^g Once each year, EPA prepares an annual summary report for all of the CISWI units subject to Subpart DDDD.

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

Labor Rates:

INDUSTRY	Loaded
1. Technical - Engineering Technicians, except drafters	\$163.17
2. Management - General and Operations Managers	\$130.28
3. Clerical - Office Clerks, General	\$65.71
4. Contractor - Maintenance	\$88.39

GS20 Rates
\$122.66
\$140.84
\$60.86
\$70.57

³ This ICR uses the following labor rates: \$130.28 (technical), \$163.17 (managerial), \$65.71 (clerical), and \$88.39 (contractor - maintenance). These rates are from the United States Department of Labor, Bureau of Labor Statistics, September 2022, "Table 2. Civilian workers, by occupational and industry group." The rates are from column 1, "Total compensation." They have been increased by 110 percent to account for the benefit packages available to those employed by private industry.

EPA	With Fringe & Overhead
GS-12, Step 1, \$30.05 + 60% - Tech.	\$73.46
GS-13, Step 5, \$40.50 + 60% - Mgmt.	\$54.51
GS-6, Step 3, \$16.26 + 60% - Cler	\$29.50

GS21 Rates
51.23
60.04
27.73

These rates are from the Office of Personnel Management (OPM), 2023 General Schedule, which excludes locality rates of pay. The rates have been increased by 60 percent to account for the benefit packages available to government employees.

Visible Emissions Testing Costs

Parameters/Costs	Equation	Values
A. Parameters		
1. Operating labor rate, \$/hr (LR)		\$50.61
2. Capital recovery factor, 5-yr equipment life, 7% interest (CRF)	$= [i \times (1 + i)^n] / [(1 + i)^n - 1]$, where i = interest rate, a = equipment life	0.24389
B. Total Capital Investment, \$ (TCI)	= Combination light meter/anemometer (\$200) + digital stopwatches (2 each at \$25)	\$355
C. Direct Annual Costs, \$/yr		
1. Operating labor	$= (1 \text{ hr/reading}) \times (3 \text{ readings/test}) \times (1 \text{ test/yr}) \times \text{LR}$	\$152
D. Indirect Annual Costs, \$/yr		
1. Overhead	$= 0.6 \times (\text{operating labor})$	\$91
2. Property taxes, insurance, and administration	$= 0.04 \times \text{TCI}$	\$14
3. Capital recovery	$= \text{CRF} \times \text{TCI}$	\$86
E. Total Annual Cost, \$/yr (rounded)	= Direct Annual Costs + Indirect Annual Costs	\$340

Footnotes

1. Professional Equipment. 2008. Light Meters Industrial and Professional: Digital Light Meter. Website: <http://www.professionalequipment.com>. Accessed July 24, 2008.

2. Cole-Parmer. 2008. Digital Stopwatches -Cole Parmer Instrument Catalog. Website: <http://www.coleparmer.com>. Accessed July 24, 2008

3. Operating labor rate is updated from 2008 to 4th quarter 2022 using the Bureau of Labor Statistics "Wages and salaries for Private industry workers in All industries and occupations, Index". Source: <https://beta.bls.gov/dataViewer/view/timeseries/CIU2020000000000;jsessionid=9E40EBBD04EA12CF2D755147784CC492>

4. Cost of equipment is updated from \$2008 to \$2022 using the CEPCI Index.

Stack Testing Costs

Parameters/Costs	Equation	Values
A. Parameters		
1. Cost index		
a. 2022		816
b. 2008		575.4
c. 1992		358.2
B. Testing Costs, \$		
1. Method 5 (PM)	= \$8,000 x (816/358.2)	\$18,200
2. Method 9 (opacity)	= \$1,000 x (816/358.2) + \$1,500	\$3,800
3. Method 10 (CO)	= \$4,000 x (816/358.2) + \$1,000	\$10,100
4. Method 26 (HCl)	= \$5,000 x (816/358.2)	\$11,400
5. Method 29 (metals)	= \$8,000 x (816/358.2) + \$2,000	\$20,200
6. Method 23 (CDD/CDF)	= \$21,000 x (816/358.2) - \$5,000	\$42,800
7. Method 7E (NO _x)	= \$5,000 x (816/358.2)	\$11,400
8. Method 6C (SO ₂)	= \$5,000 x (816/358.2)	\$11,400

Note:

1. Initial testing costs to be annualized over 15 years at 7% interest.
2. Testing costs have been rounded to the nearest \$1,000 (except for opacity) to be consistent with level of rounding in original costs; costs also adjusted based on additional information from EPA.
3. Multiple test costs adjusted by 2/3 in nationwide cost estimates to account for travel, accommodations, methods/sampling trains, etc. common to the tests.
- 4 Stack testing costs have been updatd to \$2022 using the CEPCI Index.

Sources:

1. Memorandum from R. Segall, EPA/EMB, to R. Copland, EPA/SDB. October 14, 1992. Medical Waste Incinerator Study: Emission Measurement and Continuous Monitoring. (II-B-89)
2. E-mail from Jason Dewees, EPA, to Peter Westlin, EPA. August 20, 2008. Monitoring Options for SNCR & Test Cost Questions.
3. E-mail from Jason Dewees, EPA, to Mary Johnson, EPA. August 20, 2008. Re: Monitoring Options for SNCR & Test Cost Questions.

CRF (15 yr, 7%):

0.10979

Annual everything except PM, Hg, HCl, and opacity
Annual everything:

\$63,933 Waste-burning kilns
\$86,200 Energy recovery units and incinerators

Monitoring Costs

Parameters/Costs	Equation	All model sizes						
		FF	WS	SNCR	Bag leak detector	DIFF	CO CEMS	HCI CEMS
A. Parameters								
1. Recording lime/carbon flow, min/4-hr period						5		
2. Annual operating hours, hr/yr (H)						8100		
3. Cost index (CEPCI)								
a. 2022		816	816	816	816	816	816	816
b. 2014		576.1	576.1	576.1	576.1	576.1	576.1	576.1
c. 2008		575.4	575.4	575.4	575.4	575.4	575.4	575.4
d. 2006		499.6	499.6	499.6	499.6	499.6	499.6	499.6
e. 1997		386.5	386.5	386.5	386.5	386.5	386.5	386.5
f. 1993		359.2	359.2	359.2	359.2	359.2	359.2	359.2
g. 1992		358.2	358.2	358.2	358.2	358.2	358.2	358.2
4. Operating labor wage rate, \$/hr (LR)		\$50.61	\$50.61	\$50.61	\$50.61	\$50.61	\$50.61	\$50.61
5. Capital recovery factor, 20-yr equipment life, 7% interest (CRF)	= [i x (1 + i) ^a] / [(1 + i) ^a - 1], where i = interest rate, a = equipment life	0.09439	0.09439	0.09439	0.09439	0.09439	0.09439	0.09439
B. Total Capital Investment, \$ (TCI)								
1. Planning		\$1,100	\$1,100	\$1,100	\$1,100	\$1,100	\$5,700	\$4,700
2. Select type of equipment		\$600	\$600	\$600	\$6,400	\$600	\$14,200	\$22,900
3. Provide support facilities		\$2,100	\$2,100	\$2,100	\$700	\$2,100	\$29,200	\$29,200
4. Purchased equipment cost (PEC)		\$18,400	\$27,400	\$5,300	\$19,900	\$18,400	\$68,600	\$73,700
5. Install and check equipment		\$1,500	\$1,500	\$1,500	\$6,900	\$1,500	\$25,800	\$27,400
6. Perf. spec. tests (certif.)		\$1,100	\$1,100	\$1,100	\$0	\$1,100	\$22,200	\$18,100
7. Prepare QA/QC plan		\$1,100	\$1,100	\$1,100	\$1,100	\$1,100	\$24,800	\$24,800
8. Total capital cost	= Planning + selecting equipment + support facilities + PEC + installation + perf. spec. tests + QA/QC plan	\$25,900	\$34,900	\$12,800	\$36,100	\$25,900	\$191,000	\$201,000
C. Annual Costs, \$/yr								
1. Operating labor	= (5 min to record lime/carbon flow/4-hr period) x (1 hr/60 min) x H x LR					\$8,500		
2. Maintenance materials	= 0.02 x TCI	\$500	\$700	\$300		\$500		
3. Operation & maintenance	= Day-to-day activities + annual RATA + CGA + annual QA + O&M review and update				\$8,000		\$39,200	\$35,000
4. Recordkeeping and reporting	= \$1,000 x (596.2/386.5)	\$2,100	\$2,100	\$2,100	\$300	\$2,100	\$1,600	\$2,300
5. Overhead	= 0.6 x (labor + maintenance materials)	\$300	\$400	\$200		\$5,400		
6. Property taxes, insurance, and administration	= 0.04 x TCI	\$1,000	\$1,400	\$500		\$1,000		
7. Capital recovery	= CRF x TCI	\$2,400	\$3,300	\$1,200	\$4,900	\$2,400	\$18,000	\$28,600
8. Total annual cost	= Operating labor + maintenance materials + recordkeeping and reporting + overhead + property taxes, insurance, and administration + capital recovery	\$6,300	\$7,900	\$4,300	\$13,200	\$19,900	\$58,800	\$65,900
		all	all	all				

Notes:

1. Monitoring costs have been rounded to the nearest \$100 to be consistent with level of rounding in original costs.
2. Costs to be replaced include: (a) bag leak detector replacing opacity test; (b) CO CEMS replacing CO test and secondary chamber temperature monitor; (c) HCl CEMS replacing HCl test, HCl sorbent monitor (dry scrubbers) and scrubber liquor pH monitor (wet scrubbers); (d) PM CEMS replacing PM and opacity tests and and pressure drop monitor (wet scrubbers); (e) multi-metal/Hg CEMS replacing flue gas temperature monitor (wet scrubbers); (f) dioxin sorbent trap biweekly monitoring replacing fabric filter inlet temperature monitor; and (g) Hg sorbent trap biweekly monitoring replacing flue gas temperature monitor (wet scrubbers).
3. Costs have been updated to \$2022 using the CEPCI Index
4. Operating labor rate is updated from 2008 to 4th quarter 2022 using the Bureau of labor Statistics "Wages and salaries for Private industry workers in All industries and occupations, Index". Source: <https://www.bls.gov/charts/annual-percentiles/wages-and-salaries-for-private-industry-workers-in-all-industries-and-occupations-index>

Sources:

1. Hospital/Medical/Infectious Waste Incinerators (HMIWI) [EPA-HQ-OAR-2006-0534] Testing and Monitoring Options and Costs Memo (IV-B-66).
2. E-mail and attachment from Peter Westlin, EPA, to Mary Johnson, EPA. August 19, 2008. Monitoring Options for SNCR on Medical Waste Incinerators.
3. E-mail from Dan Bivins, EPA, to Mary Johnson, EPA. September 27, 2006. Cost of CO CEMS.
4. E-mail from Dan Bivins, EPA, to Mary Johnson, EPA. July 28, 2006. Some Preliminary Thoughts on the HWI Monitoring.

Monitoring Costs

Parameters/Costs	PM CEMS	Hg CEMS	Multi-metal CEMS	Dioxin or Hg sorbent trap biweekly monitoring	ACI
A. Parameters					
1. Recording lime/carbon flow, min/4-hr period					5
2. Annual operating hours, hr/yr (H)					6,000
3. Cost index (CEPCI)					
a. 2022	816	816	816	816	816
b. 2014	576.1	576.1	576.1	576.1	576.1
c. 2008	575.4	575.4	575.4	575.4	575.4
d. 2006	499.6	499.6	499.6	499.6	499.6
e. 1997	386.5	386.5	386.5	386.5	386.5
f. 1993	359.2	359.2	359.2	359.2	359.2
g. 1992	358.2	358.2	358.2	358.2	358.2
4. Operating labor wage rate, \$/hr (LR)	\$50.61	\$50.61	\$50.61	\$50.61	\$50.61
5. Capital recovery factor, 20-yr equipment life, 7% interest (CRF)	0.09439	0.09439	0.09439	0.09439	0.09439
B. Total Capital Investment, \$ (TCI)					
1. Planning	\$1,300	\$4,700			
2. Select type of equipment	\$17,300	\$22,900			
3. Provide support facilities	\$700	\$29,200			
4. Purchased equipment cost (PEC)	\$104,200	\$155,800			
5. Install and check equipment	\$27,600	\$30,500			
6. Perf. spec. tests (certif.)	\$50,300	\$59,900			
7. Prepare QA/QC plan	\$21,900	\$24,800			
8. Total capital cost	\$223,000	\$328,000	\$327,000	\$163,000	
C. Annual Costs, \$/yr					
1. Operating labor					\$6,300
2. Maintenance materials					
3. Operation & maintenance	\$38,700	\$110,700			
4. Recordkeeping and reporting	\$9,000	\$2,300			
5. Overhead					\$3,800
6. Property taxes, insurance, and administration					
7. Capital recovery	\$31,800	\$46,700			
8. Total annual cost	\$79,500	\$159,700	\$89,800	\$58,800	\$10,100
ERUs (capacity > or = cement kilns)					all

fill in unit-specific annual operating hours here

Notes:

250 mmBtu/hr)

1. Monitoring costs have been rounded to the near
2. Costs to be replaced include: (a) bag leak detect
(c) HCl CEMS replacing HCl test, HCl sorbent mon
opacity tests and and pressure drop monitor (wet s
sorbent trap biweekly monitoring replacing fabric fil
monitor (wet scrubbers).
3. Costs have been updated to \$2022 using the CE
4. Operating labor rate is updated from 2008 to 4th<https://beta.bls.gov/dataViewer/view/timeseries/CIU2020000000000I;jsessionid=9E40EBBD04EA12CF2D755147748CC492>

Sources:

1. Hospital/Medical/Infectious Waste Incinerators (I
2. E-mail and attachment from Peter Westlin, EPA,
3. E-mail from Dan Bivins, EPA, to Mary Johnson, I
4. E-mail from Dan Bivins, EPA, to Mary Johnson, I