

ICR Summary Information

Hours per Response	381
Number of Respondents	2,068
Total Estimated Burden Hours	1,890,000
Total Estimated Costs	\$265,000,000
Annualized Capital O&M	\$37,900,000
Total Annual Responses	4,963
Form Number	Not Applicable

\$123.94 \$157.61

Burden Item	(A) Hours per Occurrence	(B) Number of occurrences per respondent per year	(C) Hours per respondent per year (AxB)	(D) Respondents per Year ^a	(E) Technical hours per year (Cx D)	(F) Management hours per year (Ex0.05)
1. Applicants	N/A					
2. Survey and Studies	N/A					
3. Reporting Requirements ^c						
A. Familiarization with the regulatory requirements	See 4A					
B. Required activities						
Initial Performance Test						
PM ^c	330	1	330	4	1,320	66
24 hour test for Gas Units ^d	250	1	250	33	8,250	412.5
Repeat of Performance Test ^e						
PM ^c	330	1	330	1	330	16.5
24 hour tests for Gas Units ^d	250	1	250	7	1,750	87.5
Report of Initial Performance Test ^d						
SO ₂	16	1	16	0	0	0
PM	16	1	16	4	64	3.2
NO _x	16	1	16	37	592	29.6
Notification of CEMS Demonstration ^d						
SO ₂	2	1	2	0	0	0
PM	2	1	2	4	8	0.4
NO _x	2	1	2	37	74	3.7
Demonstration of CEMS ^d						
SO ₂	150	1	150	0	0	0
PM	100	1	100	4	400	20
NO _x	350	1	350	37	12,950	647.5
Repeat Demonstration of CEMS ^{d,e}						
SO ₂	150	1	150	0	0	0
PM	100	1	100	1	100	5
NO _x	350	1	350	7	2,450	122.5
Report of CEMS Demonstration ^d	See 3B					
Reports for SO ₂ ^f						
Quarterly ^g	16	4	64	172	11,008	550.4
Semiannual	16	2	32	690	22,080	1104
Reports for PM ^{f,h}						
Quarterly ^g						
Excess	16	4	64	37	2,368	118.4
No Excess	8	4	32	147	4,704	235.2
Semiannual						
Excess	16	2	32	147	4,704	235.2
No Excess	8	2	16	588	9,408	470.4
Reports for NO _x ^{f,h}						
Quarterly ^g						
CEMS Compliance	16	4	64	414	26,496	1324.8
Excess	16	4	64	83	5,312	265.6

No Excess	8	4	32	331	10,592	529.6
Semiannual						
CEMS Compliance	16	2	32	1,654	52,928	2646.4
Excess	16	2	32	331	10,592	529.6
No Excess	8	2	16	1,323	21,168	1058.4
Appendix F Report ^f						
Quarterly ^g						
SO ₂	11	4	44	172	7,568	378.4
NO _x	11	4	44	414	18,216	910.8
Semiannual						
SO ₂	11	2	22	690	15,180	759.0
NO _x	11	2	22	1,654	36,388	1,819.4
Annual Compliance Tests for NO _x ^f	250	1	250	2,068	517,000	25850
Appendix F Annual Accuracy Test ^f						
SO ₂	36	1	36	862	31,045	1,552
NO _x	36	1	36	2,068	74,448	3,722.4
Appendix F Audits ^{f,i}						
Quarterly ^g						
SO ₂ - In Situ	125	4	500	43	21,500	1,075
SO ₂ - Extractive	36	4	144	129	18,576	928.8
Semiannual						
SO ₂ - In Situ	125	2	250	172	43,000	2,150
SO ₂ - Extractive	36	2	72	517	37,224	1,861.2
Quarterly ^g						
NO _x - In Situ	125	4	500	103	51,500	2,575
NO _x - Extractive	36	4	144	310	44,640	2,232.0
Semiannual						
NO _x - In Situ	125	2	250	414	103,500	5,175
NO _x - Extractive	36	2	72	1,241	89,352	4,467.6
C. Create Information ^d	See 3B					
D. Gather Existing Information	See 3B					
E. Write Report						
Notify of construction/reconstruction ^d	2	1	2	37	74	3.7
Notify of Anticipated Startup ^d	2	1	2	37	74	3.7
Notify of Actual Startup ^d	2	1	2	37	74	3.7
Monitoring Plan ^d	4	1	4	19	76	3.8
Notification of initial performance test ^d						
SO ₂	2	1	2	0	0	0
PM	2	1	2	4	8	0.4
NO _x	2	1	2	37	74	3.7
Subtotal for Reporting Requirements						1,517,040
4. Recordkeeping Requirements						
A. Familiarization with the regulatory requi	1	1	1	2,068	2,068	103.4
B. Plan activities	N/A					
C. Implement activities	N/A					
D. Develop record system	N/A					
E. Time to enter information	N/A					

F. Records of startup, shutdown, malfunction	1.5	52	78	2,068	161,304	8065.2
G. Records of All Measurements	1.5	52	78	2,068	161,304	8065.2
Subtotal for Recordkeeping Requirements						373,377
TOTAL LABOR BURDEN AND COST (rounded) ^j						1,890,000
Capital and O&M Cost (see Section 6(b)(iii)): ^j						
TOTAL COST: ^j						

Assumptions:

- ^a We have assumed that the average number of respondents that will be subject to the rule will be 2,068. There will be 37 sources that will become subject to the rule over the three-year period of this ICR.
- ^b This ICR uses the following labor rates: Technical \$123.94 (\$59.02 + 110%); Managerial \$157.61 (\$75.05 + 110%) ; and Clerical \$78.76 (\$37.50 + 110%). These rates are from the United States Department of Labor, Bureau of Labor Statistics, September 2021, “Table B-1. Occupational and industry group.” The rates are from column 1, “Total compensation.” The rates have been increased by benefit packages available to those employed by private industry. This ICR assumes that Managerial hours are 5 percent of Technical hours and Clerical hours are 10 percent of Technical hours.
- ^c EPA estimates that there will be 33 new gas-fired steam generating units per year (which require NO_x controls), 0 new coal-fired steam generating units per year (which require SO₂, NO_x, and PM controls), and 4 new biomass/wood-fired steam generating units per year (which require SO₂, NO_x, and PM controls).
- ^d One-time only costs associated with the anticipated 37 new sources per year over the next three years. According to the ICR, approximately half of all new sources will submit a monitoring plan.
- ^e Assume 20 percent of initial performance tests and CEMS demonstrations are repeated due to failures.
- ^f EPA assumes, based on the 2003 ICR renewal and additional sources since that time, there are 862 sources that must report PM emissions, and 2,068 sources that must report NO_x emissions.
- ^g Assume that 20 percent of respondents will choose to report quarterly.
- ^h Assume the 20 percent of units are found to be in excess of emission standard and 80 percent are found not to be in excess of emission standard.
- ⁱ Assume that 25 percent of units have in situ CEMS and 75 percent have extractive CEMS.
- ^j Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

\$62.52

(G) Clerical hours per year (Ex0.1)	(H) Total cost per year, \$ ^b
132	\$182,255.70
825	\$1,139,098.13
33	\$45,563.93
175	\$241,626.88
0	\$0.00
6.4	\$8,836.64
59.2	\$81,738.92
0	\$0.00
0.8	\$1,104.58
7.4	\$10,217.37
0	\$0.00
40	\$55,229.00
1295	\$1,788,038.88
0	\$0.00
10	\$13,807.25
245	\$338,277.63
1100.8	\$1,519,902.08
2208	\$3,048,640.80
236.8	\$326,955.68
470.4	\$649,493.04
470.4	\$649,493.04
940.8	\$1,298,986.08
2649.6	\$3,658,368.96
531.2	\$733,441.12

Updates:
 Labor Rates
 Respondent Universe

	Respondents
Existing	2,031
New	37
Total	2,068
Existing and New (Previous I	
SO2	816
PM	869
NOX	1,957
New	
Gas-fired (NOX)	33
Coal-fired (SO2,NOX,PM)	0
Biomass-fired (PM, NOX)	4
New_Reorganized	
SO2	0
PM	4
NOX	37
Existing and New	
SO2	862
PM	918
NOX	2,068

1059.2	\$1,462,463.92
5292.8	\$7,307,901.28
1059.2	\$1,462,463.92
2116.8	\$2,922,718.68
756.8	\$1,044,932.68
1821.6	\$2,515,128.66
1,518.0	\$2,095,940.55
3,638.8	\$5,024,182.13
51700	\$71,383,482.50
3,104	\$4,286,435.36
7,444.8	\$10,279,221.48
2,150	\$2,968,558.75
1,857.6	\$2,564,834.76
4,300	\$5,937,117.50
3,722.4	\$5,139,610.74
5,150	\$7,110,733.75
4,464.0	\$6,163,556.40
10,350	\$14,290,503.75
8,935.2	\$12,337,054.02
7.4	\$10,217.37
7.4	\$10,217.37
7.4	\$10,217.37
7.6	\$10,493.51
0	\$0.00
0.8	\$1,104.58
7.4	\$10,217.37
	\$182,140,384.06
206.8	\$285,533.93

16130.4	\$22,271,646.54
16130.4	\$22,271,646.54
	\$44,828,827.01
	\$227,000,000
	\$37,900,000
	\$265,000,000

381 hr per resp

7 additional new sources that

and Clerical \$62.52 (\$29.77 +
 2. Civilian Workers, by
 110 percent to account for the
 of Technical hours, and

coal-fired steam generating
 r (which require NOx and PM

2003 ICR renewal,

port SO2 emissions, 919

ess.

20%	80%
406	1625
7	30
414	1654
ICR)	
163	653
174	695
391	1566
7	26
0	0
1	3
0	0
1	3
7	30
172	690
184	735
414	1654

The number of units in these cells are updated based on the ratio of affected units/total count of units from the prior renewal.

Burden Item	(A) EPA hours per occurrence	(B) Number of occurrences per plant per year	(C) EPA hours per plant per year (AxB)	(D) Plants per year ^a	(E) EPA Technical hours per plant per year (Cx D)
Report review for construction, anticipated startup, actual startup	1	116	116	37	4,292
Review notification of initial test ^c					
SO ₂ ^d	1	70	70	0	0
PM ^d	1	72	72	4	288
Nox ^d	1	104	104	37	3,848
Review initial test results ^c					
SO ₂ ^d	1	280	280	0	0
PM ^d	1	288	288	4	1,152
Nox ^d	1	416	416	37	15,392
Review notification of CMS demonstration ^c					
SO ₂ ^d	1	56	56	0	0
PM ^d	1	82	82	4	328
Nox ^d	1	42	42	37	1,554
Review CMS performance demonstration ^c					
SO ₂ ^d	1	448	448	0	0
PM ^d	1	656	656	4	2,624
Nox ^d	1	336	336	37	12,432
Review monitoring plan ^c	1	108	108	19	2,052
Review NOx compliance reports ^{e,f}					
Quarterly	4	42	168	414	69,552
Semiannual	2	42	84	1,654	138,936
Review SO ₂ compliance reports ^{e,f}					
Quarterly	4	70	280	172	48,160
Semiannual	2	70	140	690	96,600
Review excess emissions reports ^{e,f}					
SO ₂					
Quarterly	4	130	520	172	89,440
Semiannual	2	130	260	690	179,400
NOx					
Quarterly	4	92	368	414	152,352
Semiannual	2	92	184	1,654	304,336
Review appendix F QA data assessment reports ^e					
SO ₂	1	42	42	862	36,219
NOx	1	56	56	2,068	115,808
TOTAL ANNUAL BURDEN AND COST (rounded) ^g					

Assumptions:

^a We have assumed that the average number of respondents that will be subject to the rule will be 2,068. There will become subject to the rule over the three-year period of this ICR.

- ^b This cost is based on the average hourly labor rate as follows: Technical \$52.37 (GS-12, Step 1, \$32.73 + 60%); Managerial \$31.60 (GS-11, Step 1, \$19.75 + 60%); and Clerical \$28.34 (GS-6, Step 3, \$17.17 + 60%). This ICR assumes that Managerial hours are 5 percent of 10 percent of Technical hours. These rates are from the OPM, 2022 General Schedule, which excludes locality, rates by 60 percent to account for the benefit packages available to government employees.
- ^c All new plants subject to the standard must provide reports of these events as required by section 60.7. These are 0.5 million anticipated 37 new sources per year over the next three years. According to the 2003 ICR renewal, approximately half of these sources are in the monitoring plan.
- ^d EPA estimates that there will be 33 new gas-fired steam generating units per year (which require NO_x controls), 0 new biomass/wood-fired steam generating units per year (which require SO₂, NO_x, and PM controls), and 4 new biomass/wood-fired steam generating units per year (which require SO₂, NO_x, and PM controls).
- ^e EPA assumes, based on the 2003 ICR renewal and additional sources since that time, there are 862 sources that must report PM emissions, and 2,068 sources that must report NO_x emissions.
- ^f We assume that 20 percent of respondents will choose to report quarterly.
- ^g Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

70.56 28.34

(F) EPA Managerial hours per year (Ex0.05)	(G) EPA Clerical hours per year (Ex0.1)	(H) Total cost per year ^b
214.6	429.2	\$252,077.74
0	0	\$0.00
14.4	28.8	\$16,914.82
192.4	384.8	\$226,000.74
0	0	\$0.00
57.6	115.2	\$67,659.26
769.6	1539.2	\$904,002.94
0	0	\$0.00
16.4	32.8	\$19,264.10
77.7	155.4	\$91,269.53
0	0	\$0.00
131.2	262.4	\$154,112.77
621.6	1,243	\$730,156.22
102.6	205.2	\$120,518.06
3,477.6	6,955.2	\$4,084,928.06
6,946.8	13,893.6	\$8,159,989.15
2,408	4,816	\$2,828,533.12
4,830	9,660	\$5,673,511.20
4,472	8,944	\$5,252,990.08
8,970	17,940	\$10,536,520.80
7,617.6	15,235.2	\$8,947,937.66
15,216.8	30,433.6	\$17,874,261.95
1,811	3,622	\$2,127,211.49
5,790.4	11,580.8	\$6,801,635.46
1,470,000		\$74,900,000

Updates:
Labor Rates
Respondent Universe

	Respondent
Existing	2,031
New	37
Total	2,068
Existing and New (Previous)	
SO2	816
PM	869
NOX	1,957
New	
Gas-fired (NOX)	33
Coal-fired (SO2,NOX,PM)	0
Biomass-fired (PM, NOX)	4
New_Reorganize	
SO2	0
PM	4
NOX	37
Existing and New	
SO2	862
PM	918
NOX	2,068

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174	695
391	1566
7	26
0	0
1	3
d	
0	0
1	3
7	30
v	
172	690
184	735
414	1654

The number of units in these cells are updated based on the ratio of affected units/total count of units from the prior renewal.

Capital/Startup vs. Operation and Maintenance			
(A)	(B)	(C)	(D)
Continuous Monitoring Device	Capital/Startup Cost for One Respondent	Number of New Respondents ^a	Total Capital/Startup Cost, (B X C)
SO ₂ , PM, and NO _x	\$200,000	37	\$7,400,000
Totals (rounded) ^b			\$7,400,000

^a EPA estimates that there will be 33 new gas-fired steam generating units per year (which require NO_x and SO₂, NO_x, and PM controls), and 4 new biomass/wood-fired steam generating units per year (which require NO_x and PM controls).

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

ce (O&M) Costs		
(E)	(F)	(G)
Annual O&M Costs for One Respondent	Number of Respondents with O&M ^b	Total O&M, (E X F)
\$15,000	2,031	\$30,465,000
		\$30,500,000

Total Capital O&M Costs
\$37,900,000

controls), 0 new coal-fired steam generating units per year (which require ure NOx and PM controls).

Total Annual Responses				
(A)	(B)	(C)	(D)	(E)
Information Collection Activity	Number of Respondents ^a	Number of Responses	Number of Existing Respondents That Keep Records But Do Not Submit Reports	Total Annual Responses E=(BxC)+D
Semiannual excess emissions ^b	1,654	2	0	3,309
Quarterly SO ₂ , PM, and NO _x reporting ^b	414	4	0	1,654
			Total	4,963

^a We have assumed that the average number of respondents that will be subject to the rule will be 2,068. There will be 37 additional new sources that will become subject to the rule over the three-year period of this ICR.

^b This ICR assumes that 80 percent of all respondents will submit semiannual reports, and assumes that 20 percent of all respondents will submit quarterly reports.

Number of Respondents				
	Respondents That Submit Reports		Respondents That Do Not Submit Any Reports	
	(A)	(B)	(C)	(D)
Year	Number of New Respondents ^a	Number of Existing Respondents	Number of Existing Respondents that keep records but do not submit reports	Number of Existing Respondents That Are Also New Respondents
1	37	1,994	0	0
2	37	2,031	0	0
3	37	2,068	0	0
Average	37	2,031	0	0

^a New respondents include sources with constructed and reconstructed affected facilities.

(E)
Number of Respondents (E=A+B+C-D)
2,031
2,068
2,105
2,068