

\$106.45 \$138.43

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	154	9,856	492.8
Semiannual	16	2	32	616	19,712	985.6
Reports for PM ^{f,h}						
Quarterly ^g						
Excess	16	4	64	33	2,112	105.6
No Excess	8	4	32	131	4,192	209.6
Semiannual						
Excess	16	2	32	131	4,192	209.6
No Excess	8	2	16	525	8,400	420
Reports for NO _x ^{f,h}						

Quarterly ^g						
CEMS Compliance	16	4	64	369	23,616	1180.8
Excess	16	4	64	74	4,736	236.8
No Excess	8	4	32	295	9,440	472
Semiannual						
CEMS Compliance	16	2	32	1,477	47,264	2363.2
Excess	16	2	32	295	9,440	472
No Excess	8	2	16	1,182	18,912	945.6
Appendix F Report ^f						
Quarterly ^g						
SO ₂	11	4	44	154	6,776	338.8
NO _x	11	4	44	369	16,236	811.8
Semiannual						
SO ₂	11	2	22	616	13,552	677.6
NO _x	11	2	22	1,477	32,494	1,624.7
Annual Compliance Tests for NO _x ^f	250	1	250	1,846	461,500	23075
Appendix F Annual Accuracy Test ^f						
SO ₂	36	1	36	770	27,720	1,386
NO _x	36	1	36	1,846	66,456	3,322.8
Appendix F Audits ^{f,i}						
Quarterly ^g						
SO ₂ - In Situ	125	4	500	39	19,500	975
SO ₂ - Extractive	36	4	144	116	16,704	835.2
Semiannual						
SO ₂ - In Situ	125	2	250	154	38,500	1,925
SO ₂ - Extractive	36	2	72	462	33,264	1,663.2
Quarterly ^g						
NO _x - In Situ	125	4	500	92	46,000	2,300
NO _x - Extractive	36	4	144	277	39,888	1,994.4
Semiannual						
NO _x - In Situ	125	2	250	369	92,250	4,613
NO _x - Extractive	36	2	72	1,108	79,776	3,988.8
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						1,358,329
4. Recordkeeping Requirements						

A. Familiarization with the regulatory requi	1	1	1	1,846	1,846	92.3
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	1,846	143,988	7199.4
G. Records of All Measurements	1.5	52	78	1,846	143,988	7199.4
Subtotal for Recordkeeping Requirements						333,295
TOTAL LABOR BURDEN AND COST (rounded) ^j						1,690,000
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 1,846. There will be 1,846 respondents.
- ^{b.} This ICR uses the following labor rates: Technical \$106.45 (\$50.69 + 110%); Managerial \$138.43 (\$65.92+ 110%). These rates are from the United States Department of Labor, Bureau of Labor Statistics, September 2015, "Table 2 group." The rates are from column 1, "Total compensation." The rates have been increased by 110 percent to account for inflation. These rates are for employees employed by private industry. This ICR assumes that Managerial hours are 5 percent of Technical hours, and Clerical hours are 1 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), 10 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 EPA, all new sources will submit a monitoring plan.
- ^{e.} Assume 20 percent of initial performance tests and CEMS demonstrations are repeated due to failures. EPA estimates that there will be 130, 198, and 524 additional sources of new steam generating units built since 2003. Using this approach, EPA estimates 130, 198, and 524 additional sources of new steam generating units built since 2003.
- ^{f.} Assume that 20 percent of respondents will choose to report quarterly.
- ^{g.} 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.
- ^{h.} Assume that 25 percent of units have in situ CEMS and 75 percent have extractive CEMS.
- ^{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.

\$52.77

(G) Clerical hours per year (Ex0.1)	(H) Total cost per year, \$ ^b
132	\$156,616.02
825	\$978,850.13
33	\$39,154.01
175	\$207,634.88
0	\$0.00
6.4	\$7,593.50
59.2	\$70,239.91
0	\$0.00
0.8	\$949.19
7.4	\$8,779.99
0	\$0.00
40	\$47,459.40
1295	\$1,536,498.08
0	\$0.00
10	\$11,864.85
245	\$290,688.83
985.6	\$1,169,399.62
1971.2	\$2,338,799.23
211.2	\$250,585.63
419.2	\$497,374.51
419.2	\$497,374.51
840	\$996,647.40

Updates:
 Labor Rates
 Respondent Universe

	Respondents
Existing	1,809
New	37
Total	1,846
Existing and New (Previous I	
SO2	757
PM	793
NOX	1,727
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	770
PM	820
NOX	1,846

*added new uni

2361.6	\$2,802,002.98
473.6	\$561,919.30
944	\$1,120,041.84
4726.4	\$5,607,802.70
944	\$1,120,041.84
1891.2	\$2,243,880.43
677.6	\$803,962.24
1623.6	\$1,926,377.05
1,355.2	\$1,607,924.47
3,249.4	\$3,855,364.36
46150	\$54,756,282.75
2,772	\$3,288,936.42
6,645.6	\$7,884,904.72
1,950	\$2,313,645.75
1,670.4	\$1,981,904.54
3,850	\$4,567,967.25
3,326.4	\$3,946,723.70
4,600	\$5,457,831.00
3,988.8	\$4,732,651.37
9,225	\$10,945,324.13
7,977.6	\$9,465,302.74
7.4	\$8,779.99
7.4	\$8,779.99
7.4	\$8,779.99
7.6	\$9,017.29
0	\$0.00
0.8	\$949.19
7.4	\$8,779.99
	\$140,142,387.67

0.25

0.75

184.6	\$219,025.13
14398.8	\$17,083,960.22
14398.8	\$17,083,960.22
	\$34,386,945.57
	\$175,000,000
	\$35,100,000
	\$210,000,000

Update: All respondents must reread the instructions

381 hr per resp

ll be 37 additional new sources that will become subject to the rule over the three-year period of this ICR.

%) ; and Clerical \$52.77 (\$25.13 + 110%).

. Civilian Workers, by occupational and industry

ount for the benefit packages available to those

ical hours are 10 percent of Technical hours.

) new coal-fired steam generating units per

which require NO_x and PM controls).

g to the 2003 ICR renewal, approximately half

-----, -----, -----
 rces must report SO₂, PM, and NO_x emissions,

in excess.

20%	80%
362	1447
7	30
369	1477
ICR)	
151	606
159	634
345	1382
7	26
0	0
1	3
0	0
1	3
7	30
154	616
164	656
369	1477

ts from previous ICR for last year, then new units for this ICR, to get the correct existing and new unit counts

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 (CxD)
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	369	61,992
Semiannual	2	42	84	1477	124,068
Review SO ₂ compliance reports ^{e,f}					
Quarterly	4	70	280	154	43,120
Semiannual	2	70	140	616	86,240
Review excess emissions reports ^{e,f}					
SO ₂					
Quarterly	4	130	520	154	80,080
Semiannual	2	130	260	616	160,160
NOx					
Quarterly	4	92	368	369	135,792
Semiannual	2	92	184	1477	271,768
Review appendix F QA data assessment reports ^e					
SO ₂	1	42	42	770	32,340
NOx	1	56	56	1,846	103,376
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 1,846. The

- b. This cost is based on the average hourly labor rate as follows: Technical \$47.62 (GS-12, Step 1, \$29.76 + 60% and Clerical \$25.76 (GS-6, Step 3, \$16.10 + 60%). This ICR assumes that Managerial hours are 5 percent of Technical hours. These rates are from the OPM, 2016 General Schedule, which excludes locality, and 10 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. There are anticipated 37 new sources per year over the next three years. According to the 2003 ICR renewal, approximately 37 new monitoring plans.
- d. EPA estimates that there will be 33 new gas-fired steam generating units per year (which require NO_x controls), 130 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. Using this approach, EPA estimates 130, 198, and 524 additional new steam generating units built since 2003.
- 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.

64.16 25.76

(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	\$229,209.97
0	0	\$0.00
14.4	28.8	\$15,380.35
192.4	384.8	\$205,498.59
0	0	\$0.00
57.6	115.2	\$61,521.41
769.6	1539.2	\$821,994.37
0	0	\$0.00
16.4	32.8	\$17,516.51
77.7	155.4	\$82,989.82
0	0	\$0.00
131.2	262.4	\$140,132.10
621.6	1,243	\$663,918.53
102.6	205.2	\$109,585.01
3,099.6	6,199.2	\$3,310,620.77
6,203.4	12,406.8	\$6,625,727.47
2,156	4,312	\$2,302,780.48
4,312	8,624	\$4,605,560.96
4,004	8,008	\$4,276,592.32
8,008	16,016	\$8,553,184.64
6,789.6	13,579.2	\$7,251,835.97
13,588.4	27,176.8	\$14,513,498.27
1,617	3,234	\$1,727,085.36
5,168.8	10,337.6	\$5,520,691.90
1,310,000		\$61,000,000

Updates:
Labor Rates
Respondent Universe

	Response
Existing	1,809
New	37
Total	1,846
Existing and New (Previous)	
SO2	757
PM	793
NOX	1,727
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	770
PM	820
NOX	1,846

* added ne

There will be 37 additional new sources that will become subject to the rule over the three-year period of this ICR.

); Managerial \$64.16 (GS-13, Step 5, \$40.10 + 60%);
Technical hours, and Clerical hours are 10
rates of pay. The rates have been increased by 60

are one-time-only costs associated with the
tely half of all new sources will submit a

ls), 0 new coal-fired steam generating units per
ar (which require NO_x and PM controls).

sources must report SO₂, PM, and NO_x emissions,

	20%	80%
	362	1447
	7	30
	369	1477
ous ICR)		
	151	606
	159	634
	345	1382
	7	26
	0	0
	1	3
d		
	0	0
	1	3
	7	30
v		
	154	616
	164	656
	369	1477

130
198
524

w units from previous ICR for last year, then new units for this ICR, to get the correct existing and new unit c

ounts.

From: ERG, November 2011. "Revised New Unit Analysis Industrial, Commercial, and Institutional
Docket ID: EPA-HQ-OAR-2002-0058-XXXX

Model Identifier	Sector	Standard Fuel Category	Annual Operating Hours	Design Capacity	Size Category	2008	
						Consumption	Number of Existing Units
IndBagasseBlr1	Industrial	Bagasse	3,903	229.0	100 to 250	8.04E+05	1
IndBagasseBlr2	Industrial	Bagasse	4,924	489.2	>250	3.47E+07	16
IndBiomassBlr5	Industrial	Biomass	7,982	170.1	100 to 250	9.78E+07	80
IndBiomassBlr6	Industrial	Biomass	8,362	442.6	>250	1.83E+08	55
IndCoalBlr3	Industrial	Coal	6,668	185.7	100 to 250	2.46E+08	221
IndCoalBlr4	Industrial	Coal	7,554	536.3	>250	6.82E+08	187
IndGas1Blr5	Industrial	Gas 1	6,939	164.4	100 to 250	8.38E+08	816
IndGas1Blr6	Industrial	Gas 1	7,690	416.8	>250	9.66E+08	335
IndMtlFurnBlr5	Industrial	1 - Metal Furnace	7,290	157.5	100 to 250	1.65E+07	16
IndMtlFurnBlr6	Industrial	1 - Metal Furnace	8,440	370.3	>250	1.12E+07	4
IndProcGasBlr5	Industrial	Process Gas	6,451	186.4	100 to 250	3.03E+07	28
IndProcGasBlr6	Industrial	Process Gas	7,676	532.3	>250	1.03E+08	28

Model Identifier	Sector	Standard Fuel Category	Annual Operating Hours	Design Capacity	Size Category	2008	
						Consumption	Number of Existing Units
ComBagasseBlr1	Commercial	Bagasse	8,040	212.0	100 to 250	3.07E+06	2
ComBagasseBlr2	Commercial	Bagasse	8,040	568.0	>250	4.11E+06	1
ComBiomassBlr2	Commercial	Biomass			100 to 250	0.00E+00	0
ComCoalBlr3	Commercial	Coal	5,947	156.1	100 to 250	3.84E+07	46
ComCoalBlr4	Commercial	Coal	7,820	431.4	>250	5.16E+07	17
ComGas1Blr5	Commercial	Gas 1	4,410	157.3	100 to 250	5.06E+07	81
ComGas1Blr6	Commercial	Gas 1	1,732	318.2	>250	4.46E+06	9

nal Boilers and Process Heaters National Emission Standards for Hazardous Air Pollutants –Major S

2015	
Energy Consumed	Number of New Units
N/A	0
N/A	0
1.22E+08	18
2.28E+08	13
2.31E+08	0
6.40E+08	0
1.01E+09	155
1.17E+09	64
2.00E+07	4
1.36E+07	1
N/A	0
N/A	0

2015	
Energy Consumed	Number of New Units
N/A	0
N/A	0
0.00E+00	0
3.29E+07	0
4.42E+07	0
5.45E+07	6
4.81E+06	1

	Existing	New (2008 to 2015)
Biomass-Fired Units		31
Coal-Fired Units		0
Gas-Fired Units		231
Total		

Number of Respondents		
Year	(A) Number of	(B) Number of Existing Re
1	37	1,772
2	37	1,809
3	37	1,846
Average	37	1,809

Update:

	Existing
Biomass-Fired Units	
Coal-Fired Units	
Gas-Fired Units	
Total	

ource."

New per year	
4	
0	
33	
37	

ents

(C)	(D)	(E)	Respondents
Number of Existi	Number of	Number of	(E=A+B+C-D)
0	0	1,809	
0	0	1,846	
0	0	1,883	
0	0	1,846	