

(A)	(B)	(C)	(D)*
Boiler Type	Number of Respondents (facilities)	Total Number Responses for 3-year Period	Average Annual Number of Responses
Existing Large Solid Units	2,020	6,347	2,116
New Large Solid Units	30	120	40
Existing Small Solid Units	5,314	13,285	4,428
New Small Solid Units	148	444	148
Existing Large Liquid Units	4,615	11,538	3,846
New Large Liquid Units	244	975	325
Existing Small Liquid Units	79,387	198,468	66,156
New Small Liquid Units	2,968	8,904	2,968
TOTAL	94,726	240,079	80,026

198,468

66155.83

(A)	(B)	(C)	(D)	(E)
Boiler Type	Number of Respondents (facilities)	Total Annualized Capital and O&M over 3 years	Total Capital/Startup Cost over 3 years	Average Annual O&M and Annualized Capital Costs per year
Existing Large Solid Units	2,020	\$ 20,730,258	\$ 2,040,000	\$ 6,910,086
New Large Solid Units	30	\$ 313,700	\$ 474,100	\$ 104,567
Existing Small Solid Units	5,314	\$ 11,840,706	\$ -	\$ 3,946,902
New Small Solid Units	148	\$ 657,260	\$ -	\$ 219,087
Existing Large Liquid Units	4,615	\$ 37,226,090	\$ -	\$ 12,408,697
New Large Liquid Units	244	\$ 21,622,400	\$ 20,154,600	\$ 7,207,467
Existing Small Liquid Units	79,387	\$ 353,748,472	\$ -	\$ 117,916,157
New Small Liquid Units	2,968	\$ 13,227,636	\$ -	\$ 4,409,212
TOTAL	94,726	\$ 459,366,522	\$ 22,668,700	\$ 153,122,174

ICRAS SUMMARY	Reporting			Recordkeeping		Total Recordkeeping and Reporting Costs		
	Annual Burden Hours	Number of Respondents (Facilities)	Number of Responses	Annualized Capital/Start-up and O&M	Annual Burden Hours	Number of Responses	Annual Burden Hours	Annualized Capital/Start-up and O&M
Year 1	4,505,011	92,465	94,204	8,288,756	15,630	94,204	4,520,641	\$ 8,288,756
Year 2	899,661	92,466	3,478	222,157,049	31,260	3,478	930,921	\$ 222,157,049
Year 3	2,036,526	94,726	142,397	228,920,717	557,391	142,397	2,593,917	\$ 228,920,717
Overall Average Annual Estimates	2,480,399	93,219	80,026	153,122,174	201,427	80,026	2,681,826	\$ 153,122,174
Avg. Cost per Response				\$ 1,913				
Avg. Burden Hours per Response	30.99			3			34	

Paperwork Preamble SUMMARY- Industry	ALL SECTORS		Private Sector	Public Sector
	3-year total	annual average	annual average	annual average
Total HOURS	8,045,479	2,681,826	1,314,095	1,367,731
TOTAL COSTS (non-labor)	\$ 459,366,522	\$ 153,122,174	\$ 75,029,865	\$ 78,092,309
Total LABOR COSTS	\$ 761,014,868	\$ 253,671,623	\$ 124,299,095	\$ 129,372,528
TOTAL LABOR AND NON-Labor COSTS	\$ 1,220,381,390	\$ 406,793,797	\$ 199,328,960	\$ 207,464,836
	Small Entity Respondents per year		44,307	46,115
	Total Respondents per year		45,677	47,542

AGENCY Burden	Hours	Costs (labor + travel)
Year 1	439,226	\$ 19,848,842
Year 2	49,445	\$ 2,473,334
Year 3	368,891	\$ 16,869,092
Total	857,563	\$ 39,191,268
Annual Average	285,854	\$ 13,063,756

total costs \$ 1,220,381,390 \$ 406,793,797

labor	nonlabor
\$ 427,603,509.47	\$ 8,288,756.00
\$ 88,055,005.53	\$ 222,157,048.50
\$ 245,356,353.45	\$ 228,920,717.00
\$ 761,014,868.45	\$ 459,366,521.50

Labor Rates

Category	Rate
Technical	\$98.20
Clerical	\$48.53
Managerial	\$114.49
General Contractor	\$80.00
Certified Energy Audit Contractor	\$56.78

Units per Facility	2
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Existing Boiler Data

169403

Sum of Number of Boilers Represented by Model

Fuel Category	Size Category	Total
Biomass	< 10	7492
	>= 10 to 100	3418
	>100	48
Coal	< 10	3137
	>= 10 to 100	573
Liquid	< 10	158774
	>= 10 to 100	9090
	>100	139
Grand Total		182671

Sum of Number of Facilities Represented

Fuel Category	Size Category	Total
Biomass	< 10	10629
	>= 10 to 100	
	>100	
Coal	< 10	4039
	>= 10 to 100	
Liquid	< 10	9229
	>= 10 to 100	
	>100	
Grand Total		13268

Assume units with bag leak detection will have a bag leak detection monitor

Otherwise, all units will have an opacity monitor

BLD Monitors

Size Category	Total
Coal >10	80

Opacity monitors

Size Category	Total
< 10	0
>= 10 to 100	0
>100	0
Grand Total	0

New Boiler Data

Sum of Number of Boilers Represented by Model

Sum of Number of Facility Represented

Fuel Category	Size Category	Total
Biomass	< 10	140
	>10 to 100	110
	> 100	4949
Coal	< 10	155
Liquid	< 10	5937
	>10 to 100	487
Grand Total		6779

Number Greater than 30 that will have PM costs covered by NSPS

Fuel Category	Size Category	Total
Biomass	< 10	
	>10 to 100	
	> 100	
Coal	< 10	
Liquid	< 10	
	>10 to 100	
Grand Total		

BLD Monitors

Size Category	Total
new oil >10	45

Opacity monitors

Size Category	Total
new biomass >10	60
new oil >10	442

- *All new coal and residual liquid units will have Fabric filter installed and will be assumed to use bag leak det
- *All new units >100 will install a CO monitor
- *All biomass and distillate liquid units will install an opacity monitor since they are not expected to install a FF

Agency Labor Rates

Managerial	\$62.27
Clerical	\$25.01
Technical	\$46.21

Per Diem Info

Hotel	\$110
Meals	\$58
Airfare	\$600
Trip Length	3

Other Data

Percent of Stack Tests Observed	20%
Estimated Percent Retesting	10%
Estimated Percent Emission Exceedences	10%

sorted by Model 2020

Total			
3746	5314 total large		
1709	4039		
24	1733	1734	
1568			
287			287
79387			
4545			
70	4615		
91336	91335.5	573	

acidity monitor

94726

sorted by Model Number of boilers >30

Total		
70		
5		
25		
78		
2968		
244		
3390	3389.5	

487

ection monitors.

= to meet PM limits.

Table 1.A. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers - Year 1, Existing Large Solid Fuel Units

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Certified Energy Audit Cost per Occurrence	(C) Stack Testing and Fuel Analysis Cost Per Occurrence	(D) Other Non-Labor Costs Per Occurrence	(E) Number of Occurrences Per Respondent Per Year	(F) Technical Hours per Respondent Per Year (A X E)	(G) Number of Respondents Per Year	(H) Technical Hours per Year @ \$98.20 (F X G)	(I) Clerical Hours per Year @ \$48.53 (H X 0.1)	(J) Management Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non-Labor Annual Costs	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	2,020	80,800	8,080	4,040	\$8,789,222	\$0	0	a
B. Required Activities														
1. Conduct Energy Audit														
a) Industrial	20	\$18,292	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	b, c, d, f
b) Commercial	20	\$854	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	b, c, d, f
2. Initial Stack Test and Report (for Hg)	12	\$0	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	0	c, h
3. Initial Stack Test and Report (for CO)	12	\$0	\$6,000	\$0	1	12	0	0	0	0	\$0	\$0	0	c, h
4. Annual Stack Test and Report (for Hg)	12	\$0	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	0	c, h
5. Annual Stack Test and Report (for CO)	12	\$0	\$6,000	\$0	1	12	0	0	0	0	\$0	\$0	0	c, h
6. Initial Fuel Analysis for Mercury Content	5	\$0	\$200	\$0	1	5	0	0	0	0	\$0	\$0	0	c,g
7. Monthly Fuel Analysis for Mercury Content	5	\$0	\$200	\$0	12	60	0	0	0	0	\$0	\$0	0	c,g
8. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	\$0	\$0	\$0	1	40	0	0	0	0	\$0	\$0	0	c, h
Bag Leak Detection System Operation (all sources that have fabric filters)														
a) initial	10	\$0	\$0	\$25,500	1	10	0	0	0	0	\$0	\$0	0	c
b) annual	10	\$0	\$0	\$9,700	1	10	0	0	0	0	\$0	\$0	0	c
9. Biennial Tune-Up	12	\$0	\$2,875	\$0	0.5	6	0	0	0	0	\$0	\$0	0	c, j
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
1) Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	2,020	4,040	404	202	\$439,461	\$0	2,020	a
2) Notification of Compliance Status	8	\$0	\$0	\$0	1	8	0	0	0	0	\$0	\$0	0	c
3) Initial Report on results of Energy Audit	5	\$0	\$0	\$0	1	5	0	0	0	0	\$0	\$0	0	b, c, d, f
4) Annual Compliance Report	30	\$0	\$0	\$0	1	30	0	0	0	0	\$0	\$0	0	c, h
5) Bi-annual Compliance Report	5	\$0	\$0	\$0	0.5	2.5	0	0	0	0	\$0	\$0	0	c, j
<i>Reporting Subtotal</i>								84,840	8,484	4,242	9,228,683	0	2,020	
4. Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													e
D. Record Information														
1) Records of Operating Parameter Values	20	\$0	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	c, h
2) Records of Deviations	15	\$0	\$0	\$0	1	15	0	0	0	0	\$0	\$0	0	c, h
3) Records of Stack Tests	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	c, h
4) Records of Monitoring Device Calibrations	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	c, h
5) Records of All Compliance Reports Submitted	2	\$0	\$0	\$0	2	4	0	0	0	0	\$0	\$0	0	c
6) Records of Monthly Fuel Use	0.5	\$0	\$0	\$0	12	6	0	0	0	0	\$0	\$0	0	c, h
E. Personnel Training	na													
F. Time for Audits	na													
<i>Recordkeeping Subtotal</i>								0	0	0	\$0	\$0	0	
Totals								84,840	8,484	4,242	\$9,228,683	\$0	2,020	

a Number of respondents based on number of existing large solid fuel boilers which includes biomass and coal units greater than 10 mmBtu/hr (assumption of 2 units per facility).

b Cost includes taking an inventory of facility equipment including age, operating schedules, square feet of the facility and other details necessary for preparing for the audit pre-screening, attending the energy audit, and reviewing audit report from the audit professional.

c Since existing units have three years after the publication date of the final rule to submit initial notification of compliance status, conduct compliance activities, or meet recordkeeping or reporting requirements, it is assumed that half the affected units will conduct an audit, testing and monitoring plan development in year 2 and half will conduct them in year 3 in order to be in compliance by the third year after promulgation. Initial Notification of Compliance Reports and recordkeeping requirements will not begin until year 3 of this ICR.

d Cost per occurrence for energy audit professionals including an phone screening to discuss the facility prior to a visit, a 2 to 4 hour site visit, and an additional 2-4 hours to prepare a follow-up report on recommendations and findings. Cost depends on whether the source is industrial or commercial. It is assumed that 10% will be industrial and 90% will be commercial sources. These site visits are assumed to be conducted by certified energy professionals.

e Assumes facility must already maintain records on boiler insurance and/or maintenance schedule. No new record system would be required.

f All existing large solid units must conduct energy audits.

g Existing large coal units are expected to determine compliance through stack testing and not fuel analysis

h Only existing large coal units have mercury and CO limits.

i Existing large biomass units are subject to the biennial tune-up

Table 1.B. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers - Year 2, Existing Large Solid Fuel Units

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Certified Energy Audit Cost per Occurrence	(C) Stack Testing and Fuel Analysis Cost Per Occurrence	(D) Other Non-Labor Costs Per Occurrence	(E) Number of Occurrences Per Respondent Per Year	(F) Technical Hours per Respondent Per Year (A X E)	(G) Number of Respondents Per Year	(H) Technical Hours per Year @ \$98.20 (F X G)	(I) Clerical Hours per Year @ \$48.53 (H X 0.1)	(J) Management Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non-Labor Annual Costs	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	0	0	0	0	\$0	\$0	0	a
B. Required Activities														
1. Conduct Energy Audit														
a) Industrial	20	\$18,292	\$0	\$0	1	20	202	4,040	404	202	\$439,461	\$3,694,984	0	b, c, d, f
b) Commercial	20	\$854	\$0	\$0	1	20	1,818	36,360	3,636	1,818	\$3,955,150	\$1,552,572	0	b, c, d, f
2. Initial Stack Test and Report (for Hg)	12	\$0	\$5,000	\$0	1	12	287	3,444	344	172	\$374,630	\$1,435,000	0	c, h
3. Initial Stack Test and Report (for CO)	12	\$0	\$6,000	\$0	1	12	287	3,444	344	172	\$374,630	\$1,722,000	0	c, h
4. Annual Stack Test and Report (for Hg)	12	\$0	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	0	c, h
5. Annual Stack Test and Report (for CO)	12	\$0	\$6,000	\$0	1	12	0	0	0	0	\$0	\$0	0	c, h
6. Initial Fuel Analysis for Mercury Content	5	\$0	\$200	\$0	1	5	0	0	0	0	\$0	\$0	0	c, g
7. Monthly Fuel Analysis for Mercury Content	5	\$0	\$200	\$0	12	60	0	0	0	0	\$0	\$0	0	c, g
8. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	\$0	\$0	\$0	1	40	145	5,800	580	290	\$630,910	\$0	0	c, h
Bag Leak Detection System Operation (all sources that have fabric filters)														
a) initial	10	\$0	\$0	\$25,500	1	10	40	400	40	20	\$43,511	\$1,020,000	0	c
b) annual	10	\$0	\$0	\$9,700	1	10	40	400	40	20	\$43,511	\$388,000	0	c
9. Biennial Tune-Up	12	\$0	\$2,875	\$0	0.5	6	1,733	10,398	1,040	520	\$1,131,068	\$0	0	c, j
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
1) Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	a
2) Notification of Compliance Status	8	\$0	\$0	\$0	1	8	0	0	0	0	\$0	\$0	0	c
3) Initial Report on results of Energy Audit	5	\$0	\$0	\$0	1	5	0	0	0	0	\$0	\$0	0	b, c, d, f
4) Annual Compliance Report	30	\$0	\$0	\$0	1	30	0	0	0	0	\$0	\$0	0	c, h
5) Bi-annual Compliance Report	5	\$0	\$0	\$0	0.5	2.5	0	0	0	0	\$0	\$0	0	c, j
<i>Reporting Subtotal</i>								63,886	6,389	3,194	\$6,949,359	\$8,792,556	0	
4. Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													e
D. Record Information														
1) Records of Operating Parameter Values	20	\$0	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	c, h
2) Records of Deviations	15	\$0	\$0	\$0	1	15	0	0	0	0	\$0	\$0	0	c, h
3) Records of Stack Tests	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	c, h
4) Records of Monitoring Device Calibrations	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	c, h
5) Records of All Compliance Reports Submitted	2	\$0	\$0	\$0	2	4	0	0	0	0	\$0	\$0	0	c
6) Records of Monthly Fuel Use	0.5	\$0	\$0	\$0	12	6	0	0	0	0	\$0	\$0	0	c, h
E. Personnel Training	na													
F. Time for Audits	na													
<i>Recordkeeping Subtotal</i>								0	0	0	0	0	0	
Totals								63,886	6,389	3,194	\$6,949,359	\$8,792,556	0	

a The burden on existing sources to read and understand rule requirements, and submit an initial notification were assumed to all occur in year 1.

b Cost includes taking an inventory of facility equipment including age, operating schedules, square feet of the facility and other details necessary for preparing for the audit pre-screening, attending the energy audit, and reviewing audit report from the audit professional.

c Since existing units have three years after the publication date of the final rule to submit initial notification of compliance status, conduct compliance activities, or meet recordkeeping or reporting requirements, it is assumed that half the affected units will conduct an audit, testing and monitoring plan development in year 2 and half will conduct them in year 3 in order to be in compliance by the third year after promulgation. Initial Notification of Compliance Reports and recordkeeping requirements will not begin until year 3 of this ICR.

d Cost per occurrence for energy audit professionals including an phone screening to discuss the facility prior to a visit, a 2 to 4 hour site visit, and an additional 2-4 hours to prepare a follow-up report on recommendations and findings. Cost depends on whether the source is industrial or commercial. It is assumed that 10% will be industrial and 90% will be commercial sources. These site visits are assumed to be conducted by certified energy professionals.

e Assumes facility must already maintain records on boiler insurance and/or maintenance schedule. No new record system would be required.

f All existing large solid units must conduct energy audits.

g Existing large coal units are expected to determine compliance through stack testing and not fuel analysis

h Only existing large coal units have mercury and CO limits.

i Existing large biomass units are subject to the biennial tune-up

Table 1.C. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers - Year 3, Existing Large Solid Fuel Units

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Certified Energy Audit Cost per Occurrence	(C) Stack Testing and Fuel Analysis Cost Per Occurrence	(D) Other Non-Labor Costs Per Occurrence	(E) Number of Occurrences Per Respondent Per Year	(F) Technical Hours per Respondent Per Year (A X E)	(G) Number of Respondents Per Year	(H) Technical Hours per Year @ \$98.20 (F X G)	(I) Clerical Hours per Year @ \$48.53 (H X 0.1)	(J) Management Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non-Labor Annual Costs	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	0	0	0	0	\$0	\$0	0	a
B. Required Activities														
1. Conduct Energy Audit														
a) Industrial	20	\$18,292	\$0	\$0	1	20	202	4,040	404	202	\$439,461	\$3,694,984	0	b, c, d, f
b) Commercial	20	\$854	\$0	\$0	1	20	1,817	36,340	3,634	1,817	\$3,952,974	\$1,551,718	0	b, c, d, f
2. Initial Stack Test and Report (for Hg)	12	\$0	\$5,000	\$0	1	12	286	3,432	343	172	\$373,324	\$1,430,000	0	c, h
3. Initial Stack Test and Report (for CO)	12	\$0	\$6,000	\$0	1	12	286	3,432	343	172	\$373,324	\$1,716,000	0	c, h
4. Annual Stack Test and Report (for Hg)	12	\$0	\$5,000	\$0	1	12	287	3,444	344	172	\$374,630	\$1,435,000	0	c, h
5. Annual Stack Test and Report (for CO)	12	\$0	\$6,000	\$0	1	12	287	3,444	344	172	\$374,630	\$1,722,000	0	c, h
6. Initial Fuel Analysis for Mercury Content	5	\$0	\$200	\$0	1	5	0	0	0	0	\$0	\$0	0	c, g
7. Monthly Fuel Analysis for Mercury Content	5	\$0	\$200	\$0	12	60	0	0	0	0	\$0	\$0	0	c, g
8. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	\$0		\$0	1	40	144	5,760	576	288	\$626,558	\$0	0	c, h
Bag Leak Detection System Operation (all sources that have fabric filters)														
a) initial	10	\$0	\$0	\$25,500	1	10	40	400	40	20	\$43,511	\$1,020,000	0	c
b) annual	10	\$0	\$0	\$9,700	1	10	40	400	40	20	\$43,511	\$388,000	0	c
9. Biennial Tune-Up	12	\$0	\$2,875	\$0	0.5	6	1,733	10,398	1,040	520	\$1,131,068	\$0	0	c, j
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
1) Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	a
2) Notification of Compliance Status	8	\$0	\$0	\$0	1	8	2,020	16,160	1,616	808	\$1,757,844	\$0	2,020	c
3) Initial Report on results of Energy Audit	5	\$0	\$0	\$0	1	5	2,020	10,100	1,010	505	\$1,098,653	\$0	2,020	b, c, d, f
4) Annual Compliance Report	30	\$0	\$0	\$0	1	30	287	8,610	861	431	\$936,574	\$0	287	c, h
5) Bi-annual Compliance Report	5	\$0	\$0	\$0	0.5	2.5	1,733	4,333	433	217	\$471,279	\$0	867	c, j
<i>Reporting Subtotal</i>								105,560	10,556	5,278	\$11,482,553	\$11,937,702	4,327	
4. Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													e
D. Record Information														
1) Records of Operating Parameter Values	20	\$0	\$0	\$0	1	20	573	11,460	1,146	573	\$1,246,590	\$0	0	c, h
2) Records of Deviations	15	\$0	\$0	\$0	1	15	573	8,595	860	430	\$934,943	\$0	0	c, h
3) Records of Stack Tests	2	\$0	\$0	\$0	1	2	573	1,146	115	57	\$124,659	\$0	0	c, h
4) Records of Monitoring Device Calibrations	2	\$0	\$0	\$0	1	2	573	1,146	115	57	\$124,659	\$0	0	c, h
5) Records of All Compliance Reports Submitted	2	\$0	\$0	\$0	2	4	4,039	16,156	1,616	808	\$1,757,409	\$0	0	c
6) Records of Monthly Fuel Use	0.5	\$0	\$0	\$0	12	6	573	3,438	344	172	\$373,977	\$0	0	c, h
E. Personnel Training	na													
F. Time for Audits	na													
<i>Recordkeeping Subtotal</i>								41,941	4,194	2,097	4,562,237	0	0	
Totals								147,501	14,750	7,375	\$16,044,790	\$11,937,702	4,327	

a The burden on existing sources to read and understand rule requirements, and submit an initial notification were assumed to all occur in year 1.

b Cost includes taking an inventory of facility equipment including age, operating schedules, square feet of the facility and other details necessary for preparing for the audit pre-screening, attending the energy audit, and reviewing audit report from the audit professional.

c Since existing units have three years after the publication date of the final rule to submit initial notification of compliance status, conduct compliance activities, or meet recordkeeping or reporting requirements, it is assumed that half the affected units will conduct an audit, testing and monitoring plan development in year 2 and half will conduct them in year 3 in order to be in compliance by the third year after promulgation. Initial Notification of Compliance Reports and recordkeeping requirements will not begin until year 3 of this ICR.

d Cost per occurrence for energy audit professionals including an phone screening to discuss the facility prior to a visit, a 2 to 4 hour site visit, and an additional 2-4 hours to prepare a follow-up report on recommendations and findings. Cost depends on whether the source is industrial or commercial. It is assumed that 10% will be industrial and 90% will be commercial sources. These site visits are assumed to be conducted by certified energy professionals.

e Assumes facility must already maintain records on boiler insurance and/or maintenance schedule. No new record system would be required.

f All existing large solid units must conduct energy audits.

g Existing large coal units are expected to determine compliance through stack testing and not fuel analysis

h Only existing large coal units have mercury and CO limits.

i Existing large biomass units are subject to the biennial tune-up

Table 2.A. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers - Year 1, Existing Large Liquid Fuel Units

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Certified Energy Audit Cost per Occurrence	(C) Tune-Up Cost per Occurrence	(D) Other Non-Labor Costs Per Occurrence	(E) Number of Occurrences Per Respondent Per Year	(F) Technical Hours per Respondent Per Year (A X E)	(G) Number of Respondents Per Year	(H) Technical Hours per Year @ \$98.20 (F X G)	(I) Clerical Hours per Year @ \$48.53 (H X 0.1)	(J) Management Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non-Labor Annual Costs	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	4,615	184,600	18,460	9,230	\$20,080,327	\$0	0	a
B. Required Activities														
1. Conduct Energy Audit														
a) Industrial	20	\$18,292	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	b, c, d
b) Commercial	20	\$854	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	b, c, d
2. Biennial Tune-Up	12	\$0	\$2,875	\$0	0.5	6	0	0	0	0	\$0	\$0	0	c
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
1) Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	4,615	9,230	923	462	\$1,004,016	\$0	4,615	a
2) Notification of Compliance Status	8	\$0	\$0	\$0	1	8	0	0	0	0	\$0	\$0	0	c
3) Biennial Compliance Report	5	\$0	\$0	\$0	0.5	2.5	0	0	0	0	\$0	\$0	0	c
<i>Reporting Subtotal</i>								193,830	19,383	9,692	\$21,084,343	\$0	4,615	
4. Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													e
D. Record Information														
1) Records of All Compliance Reports Submitted	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	c
2) Records of Biennial Tune-Up	0.5	\$0	\$0	\$0	0.5	0.25	0	0	0	0	\$0	\$0	0	c
E. Personnel Training	na													
F. Time for Audits	na													
<i>Recordkeeping Subtotal</i>								0	0	0	\$0	\$0	0	
Totals								193,830	19,383	9,692	\$21,084,343	\$0	4,615	

a Number of respondents based on number of existing large solid fuel boilers which includes biomass and coal units greater than 10 mmBtu/hr (assumption of 2 units per facility).

b Cost includes taking an inventory of facility equipment including age, operating schedules, square feet of the facility and other details necessary for preparing for the audit pre-screening, attending the energy audit, and reviewing audit report from the audit professional.

c Since existing units have three years after the publication date of the final rule to submit initial notification of compliance status, conduct compliance activities, or meet recordkeeping or reporting requirements, it is assumed that half the affected units will conduct an audit, testing and monitoring plan development in year 2 and half will conduct them in year 3 in order to be in compliance by the third year after promulgation. Initial Notification of Compliance Reports and recordkeeping requirements will not begin until year 3 of this ICR.

d Cost per occurrence for energy audit professionals including a phone screening to discuss the facility prior to a visit, a 2 to 4 hour site visit, and an additional 2-4 hours to prepare a follow-up report on recommendations and findings. Cost depends on whether the source is industrial or commercial. It is assumed that 10% will be industrial and 90% will be commercial sources. These site visits are assumed to be conducted by certified energy professionals.

e Assumes facility must already maintain records on boiler insurance and/or maintenance schedule. No new record system would be required.

Table 2.B. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers - Year 2, Existing Large Liquid Fuel Units

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Certified Energy Audit Cost per Occurrence	(C) Tune-Up Cost per Occurrence	(D) Other Non-Labor Costs Per Occurrence	(E) Number of Occurrences Per Respondent Per Year	(F) Technical Hours per Respondent Per Year (A X E)	(G) Number of Respondents Per Year	(H) Technical Hours per Year @ \$98.20 (F X G)	(I) Clerical Hours per Year @ \$48.53 (H X 0.1)	(J) Management Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non-Labor Annual Costs	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	0	0	0	0	\$0	\$0	0	a
B. Required Activities														
1. Conduct Energy Audit														
a) Industrial	20	\$18,292	\$0	\$0	1	20	461	9,220	922	461	\$1,002,929	\$8,432,612	0	b, c, d
b) Commercial	20	\$854	\$0	\$0	1	20	4,154	83,080	8,308	4,154	\$9,037,235	\$3,547,516	0	b, c, d
2. Biennial Tune-Up	12	\$0	\$2,875	\$0	0.5	6	4,615	27,690	2,769	1,385	\$3,012,049	\$6,634,063	0	c
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
1) Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	a
2) Notification of Compliance Status	8	\$0	\$0	\$0	1	8	0	0	0	0	\$0	\$0	0	c
3) Biennial Compliance Report	5	\$0	\$0	\$0	0.5	2.5	0	0	0	0	\$0	\$0	0	c
<i>Reporting Subtotal</i>								119,990	11,999	6,000	\$13,052,212	\$18,614,191	0	
4. Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													e
D. Record Information														
1) Records of All Compliance Reports Submitted	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	c
2) Records of Biennial Tune-Up	0.5	\$0	\$0	\$0	0.5	0.25	0	0	0	0	\$0	\$0	0	c
E. Personnel Training	na													
F. Time for Audits	na													
<i>Recordkeeping Subtotal</i>								0	0	0	\$0	\$0	0	
Totals								119,990	11,999	6,000	\$13,052,212	\$18,614,191	0	

a The burden on existing sources to read and understand rule requirements, and submit an initial notification were assumed to all occur in year 1.

b Cost includes taking an inventory of facility equipment including age, operating schedules, square feet of the facility and other details necessary for preparing for the audit pre-screening, attending the energy audit, and reviewing audit report from the audit professional.

c Since existing units have three years after the publication date of the final rule to submit initial notification of compliance status, conduct compliance activities, or meet recordkeeping or reporting requirements, it is assumed that half the affected units will conduct an audit, testing and monitoring plan development in year 2 and half will conduct them in year 3 in order to be in compliance by the third year after promulgation. Initial Notification of Compliance Reports and recordkeeping requirements will not begin until year 3 of this ICR.

d Cost per occurrence for energy audit professionals including a phone screening to discuss the facility prior to a visit, a 2 to 4 hour site visit, and an additional 2-4 hours to prepare a follow-up report on recommendations and findings. Cost depends on whether the source is industrial or commercial. It is assumed that 10% will be industrial and 90% will be commercial sources. These site visits are assumed to be conducted by certified energy professionals.

e Assumes facility must already maintain records on boiler insurance and/or maintenance schedule. No new record system would be required.

**Table 2.C. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards
for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers - Year 3, Existing Large Liquid Fuel Units**

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Certified Energy Audit Cost per Occurrence	(C) Tune-Up Cost per Occurrence	(D) Other Non-Labor Costs Per Occurrence	(E) Number of Occurrences Per Respondent Per Year	(F) Technical Hours per Respondent Per Year (A X E)	(G) Number of Respondents Per Year	(H) Technical Hours per Year @ \$98.20 (F X G)	(I) Clerical Hours per Year @ \$48.53 (H X 0.1)	(J) Management Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non-Labor Annual Costs	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	0	0	0	0	\$0	\$0	0	a
B. Required Activities														
1. Conduct Energy Audit														
a) Industrial	20	\$18,292	\$0	\$0	1	20	461	9,220	922	461	\$1,002,929	\$8,432,612	0	b, c, d
b) Commercial	20	\$854	\$0	\$0	1	20	4,153	83,060	8,306	4,153	\$9,035,059	\$3,546,662	0	b, c, d
2. Biennial Tune-Up	12	\$0	\$2,875	\$0	0.5	6	4,614	27,684	2,768	1,384	\$3,011,396	\$6,632,625	0	c
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
1) Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	a
2) Notification of Compliance Status	8	\$0	\$0	\$0	1	8	4,615	36,920	3,692	1,846	\$4,016,065	\$0	4,615	c
3) Biennial Compliance Report	5	\$0	\$0	\$0	0.5	2.5	4,615	11,538	1,154	577	\$1,255,020	\$0	2,308	c
<i>Reporting Subtotal</i>								168,422	16,842	8,421	\$18,320,470	\$18,611,899	6,923	
4. Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													e
D. Record Information														
1) Records of All Compliance Reports Submitted	2	\$0	\$0	\$0	1	2	9,229	18,458	1,846	923	\$2,007,815	\$0	0	c
2) Records of Biennial Tune-Up	0.5	\$0	\$0	\$0	0.5	0.25	9,229	2,307	231	115	\$250,977	\$0	0	c
E. Personnel Training	na													
F. Time for Audits	na													
<i>Recordkeeping Subtotal</i>								20,765	2,077	1,038	\$2,258,792	\$0	0	
Totals								189,187	18,919	9,459	\$20,579,262	\$18,611,899	6,923	

a The burden on existing sources to read and understand rule requirements, and submit an initial notification were assumed to all occur in year 1.

b Cost includes taking an inventory of facility equipment including age, operating schedules, square feet of the facility and other details necessary for preparing for the audit pre-screening, attending the energy audit, and reviewing audit report from the audit professional.

c Since existing units have three years after the publication date of the final rule to submit initial notification of compliance status, conduct compliance activities, or meet recordkeeping or reporting requirements, it is assumed that half the affected units will conduct an audit, testing and monitoring plan development in year 2 and half will conduct them in year 3 in order to be in compliance by the third year after promulgation. Initial Notification of Compliance Reports and recordkeeping requirements will not begin until year 3 of this ICR.

d Cost per occurrence for energy audit professionals including an phone screening to discuss the facility prior to a visit, a 2 to 4 hour site visit, and an additional 2-4 hours to prepare a follow-up report on recommendations and findings. Cost depends on whether the source is industrial or commercial. It is assumed that 10% will be industrial and 90% will be commercial sources. These site visits are assumed to be conducted by certified energy professionals.

e Assumes facility must already maintain records on boiler insurance and/or maintenance schedule. No new record system would be required.

Table 3.A. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters - Year 1, New Large Solid Fuel Units

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Stack Testing and Fuel Analysis Cost Per Occurrence	(C) Non-Labor Costs Per Occurrence	(D) Number of Occurrences Per Respondent Per Year	(E) Technical Hours per Respondent Per Year (A X D)	(F) Number of Respondents Per Year	(G) Technical Hours per Year @ \$98.20 (F X G)	(H) Clerical Hours per Year @ \$48.53 (H X 0.1)	(I) Managem ent Hours per Year @ \$114.49 (H X .05)	(J) Total Labor Costs Per Year	(K) Total Non- Labor Annual Cost	(L) Total Number of Responses per Year (D X F)	Footnotes
1. Applications	na												
2. Surveys and Studies	na												
3. Reporting Requirements													
A. Read and Understand Rule Requirements	40	\$0	\$0	1	40	10	400	40	20	\$43,511	\$0	0	a, b
B. Required Activities													
1. Initial Stack Test and Report (for PM)	12	\$8,000	\$0	1	12	4	48	5	2	\$5,221	\$0	0	b, c
2. Initial Stack Test and Report (for Hg)	12	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	0	b, c, g
3. Initial Stack Test and Report (for CO)	12	\$6,000	\$0	1	12	0	0	0	0	\$0	\$0	0	b, g
4. Annual Stack Test and Report (for PM)	12	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	d
5. Annual Stack Test and Report (for Hg)	12	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	0	b, c, g
6. Annual Stack Test and Report (for CO)	12	\$6,000	\$0	1	12	0	0	0	0	\$0	\$0	0	d, g
7. Initial Fuel Analysis for Mercury Content	5	\$200	\$0	1	5	0	0	0	0	\$0	\$0	0	b, c
8. Monthly Fuel Analysis for Mercury Content	5	\$200	\$0	12	60	0	0	0	0	\$0	\$0	0	c, d
9. Continuous Parameter Monitoring													
Establish Site-specific monitoring plan (all Opacity	40	\$0	\$0	1	40	4	160	16	8	\$17,404	\$0	0	e
a) initial	10	\$0	\$43,100	1	10	4	40	4	2	\$4,351	\$172,400	0	f
b) annual	10	\$0	\$14,700	1	10	4	40	4	2	\$4,351	\$58,800	0	f
Bag Leak Detection System Operation (all sources that have fabric filters)													
a) initial	10	\$0	\$25,500	1	10	0	0	0	0	\$0	\$0	0	f
b) annual	10	\$0	\$9,700	1	10	0	0	0	0	\$0	\$0	0	f
C. Create Information	na												
D. Gather Information	na												
E. Report Preparation													
1) Initial Notification that Source is Subject	2	\$0	\$0	1	2	10	20	2	1	\$2,176	\$0	10	a, b
2) Notification of Compliance Status	8	\$0	\$0	1	8	10	80	8	4	\$8,702	\$0	10	a, b
3) Annual Compliance Report	30	\$0	\$0	1	30	10	300	30	15	\$32,633	\$0	10	a
<i>Reporting Subtotal</i>							1,048	105	52	\$113,999	\$58,800	30	
4. Recordkeeping Requirements													
A. Read Instructions	see 3.A												
B. Implement Activities	na												
C. Develop Record System	na												
D. Record Information													
1) Records of Operating Parameter Values	20	\$0	\$0	1	20	20	400	40	20	\$43,511	\$0	0	a, c
2) Records of Deviations	15	\$0	\$0	1	15	20	300	30	15	\$32,633	\$0	0	a, c
3) Records of Stack Tests	2	\$0	\$0	1	2	20	40	4	2	\$4,351	\$0	0	a, c
4) Records of Monitoring Device Calibrations	2	\$0	\$0	1	2	20	40	4	2	\$4,351	\$0	0	a, c
5) Records of All Compliance Reports Submitted	2	\$0	\$0	2	4	20	80	8	4	\$8,702	\$0	0	a, c
6) Records of Monthly Fuel Use	0.5	\$0	\$0	12	6	20	120	12	6	\$13,053	\$0	0	a, c
E. Personnel Training	na												
F. Time for Audits	na												
<i>Subtotal Recordkeeping</i>							980	98	49	\$106,602	\$0	0	
Totals							2,028	203	101	\$220,601	\$58,800	30	

a The total number of new large solid fuel boilers estimated in the first 3 years of this rule is 60. In order to calculate a per year estimate of the number of boilers required to meet these rule requirements, the number of projected boilers is divided by 3, or 20 boilers per year. Assuming 2 unit per facility, 10 new facilities will be subject per year.

b A one-time requirement.

c All projected large solid fuel units expected to comply through stack testing instead of the fuel testing compliance option. Only units less than 30 mmBtu/hr that are not subject to PM limits under the NSPS (40 CFR part 60 subparts Db, Dc) will incur additional testing, monitoring, recordkeeping and reporting costs under this rule.

d No annual test and reporting burden is shown in year 1 as this is the same year as the initial test and report.

e If you demonstrate compliance with any applicable emission limit through stack testing, you must develop a site-specific monitoring plan. All new large solid fuel units are expected to develop this plan.

f All new coal units greater than 10 mmBtu/hr are expected to install fabric filters and equipped with bag leak detection (BLD) systems instead of opacity monitors. Since biomass units are expected to meet PM limits with an ESP, an opacity monitor is required instead of a BLD. There are no new large coal units projected to be installed.

g Only coal boilers are subject to numerical mercury and CO limits and are required to test. No new large coal units are projected.

Table 3.B. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters - Year 2, New Large Solid Fuel Units

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Stack Testing and Fuel Analysis Cost Per Occurrence	(C) Non-Labor Costs Per Occurrence	(D) Number of Occurrences Per Respondent Per Year	(E) Technical Hours per Respondent Per Year (A X D)	(F) Number of Respondents Per Year	(G) Technical Hours per Year @ \$98.20 (F X G)	(H) Clerical Hours per Year @ \$48.53 (H X 0.1)	(I) Managem ent Hours per Year @ \$114.49 (H X .05)	(J) Total Labor Costs Per Year	(K) Total Non- Labor Annual Cost	(L) Total Number of Responses per Year (D X F)	Footnotes
1. Applications	na												
2. Surveys and Studies	na												
3. Reporting Requirements													
A. Read and Understand Rule Requirements	40	\$0	\$0	1	40	10	400	40	20	\$43,511	\$0	0	a, b
B. Required Activities													
1. Initial Stack Test and Report (for PM)	12	\$8,000	\$0	1	12	4	48	5	2	\$5,221	\$32,000	0	b, c
2. Initial Stack Test and Report (for Hg)	12	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	0	b, c, g
3. Initial Stack Test and Report (for CO)	12	\$6,000	\$0	1	12	0	0	0	0	\$0	\$0	0	b, g
4. Annual Stack Test and Report (for PM)	12	\$8,000	\$0	1	12	4	48	5	2	\$5,221	\$32,000	0	d
5. Annual Stack Test and Report (for Hg)	12	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	0	b, c, g
6. Annual Stack Test and Report (for CO)	12	\$6,000	\$0	1	12	0	0	0	0	\$0	\$0	0	d, g
7. Initial Fuel Analysis for Mercury Content	5	\$200	\$0	1	5	0	0	0	0	\$0	\$0	0	b, c
8. Monthly Fuel Analysis for Mercury Content	5	\$200	\$0	12	60	0	0	0	0	\$0	\$0	0	c, d
9. Continuous Parameter Monitoring													
Establish Site-specific monitoring plan (all Opacity	40	\$0	\$0	1	40	4	160	16	8	\$17,404	\$0	0	e
a) initial	10	\$0	\$43,100	1	10	4	40	4	2	\$4,351	\$172,400	0	f
b) annual	10	\$0	\$14,700	1	10	4	40	4	2	\$4,351	\$58,800	0	f
Bag Leak Detection System Operation (all sources that have fabric filters)													
a) initial	10	\$0	\$25,500	1	10	0	0	0	0	\$0	\$0	0	f
b) annual	10	\$0	\$9,700	1	10	0	0	0	0	\$0	\$0	0	f
C. Create Information	na												
D. Gather Information	na												
E. Report Preparation													
1) Initial Notification that Source is Subject	2	\$0	\$0	1	2	10	20	2	1	\$2,176	\$0	10	a, b
2) Notification of Compliance Status	8	\$0	\$0	1	8	10	80	8	4	\$8,702	\$0	10	a, b
3) Annual Compliance Report	30	\$0	\$0	1	30	20	600	60	30	\$65,267	\$0	20	a
<i>Reporting Subtotal</i>							1,396	140	70	\$151,853	\$122,800	40	
4. Recordkeeping Requirements													
A. Read Instructions	see 3.A												
B. Implement Activities	na												
C. Develop Record System	na												
D. Record Information													
1) Records of Operating Parameter Values	20	\$0	\$0	1	20	40	800	80	40	\$87,022	\$0	0	a, c
2) Records of Deviations	15	\$0	\$0	1	15	40	600	60	30	\$65,267	\$0	0	a, c
3) Records of Stack Tests	2	\$0	\$0	1	2	40	80	8	4	\$8,702	\$0	0	a, c
4) Records of Monitoring Device Calibrations	2	\$0	\$0	1	2	40	80	8	4	\$8,702	\$0	0	a, c
5) Records of All Compliance Reports Submitted	2	\$0	\$0	2	4	40	160	16	8	\$17,404	\$0	0	a, c
6) Records of Monthly Fuel Use	0.5	\$0	\$0	12	6	40	240	24	12	\$26,107	\$0	0	a, c
E. Personnel Training	na												
F. Time for Audits	na												
<i>Subtotal Recordkeeping</i>							1,960	196	98	\$213,204	\$0	0	
Totals							3,356	336	168	\$365,057	\$122,800	40	

a The total number of new large solid fuel boilers estimated in the first 3 years of this rule is 60. In order to calculate a per year estimate of the number of boilers required to meet these rule requirements, the number of projected boilers is divided by 3, or 20 boilers per year. Assuming 2 unit per facility, 10 new facilities will be subject per year.

b A one-time requirement.

c All projected large solid fuel units expected to comply through stack testing instead of the fuel testing compliance option. Only units less than 30 mmBtu/hr that are not subject to PM limits under the NSPS (40 CFR part 60 subparts Db, Dc) will incur additional testing, monitoring, recordkeeping and reporting costs under this rule.

d Subsequent annual testing in year 2 are based on the number of sources that had an initial test in year 1 of this ICR. Subsequent semi-annual compliance reporting and recordkeeping requirements are based on the number of new sources in years 1 and 2 of this ICR.

e If you demonstrate compliance with any applicable emission limit through stack testing, you must develop a site-specific monitoring plan. All new large solid fuel units are expected to develop this plan.

f All new coal units greater than 10 mmBtu/hr are expected to install fabric filters and equipped with bag leak detection (BLD) systems instead of opacity monitors. Since biomass units are expected to meet PM limits with an ESP, an opacity monitor is required instead of a BLD. There are no new large coal units projected to be installed.

g Only coal boilers are subject to numerical mercury and CO limits and are required to test. No new large coal units are projected.

Table 3.C. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters - Year 3, New Large Solid Fuel Units

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Stack Testing and Fuel Analysis Cost Per Occurrence	(C) Non-Labor Costs Per Occurrence	(D) Number of Occurrences Per Respondent Per Year	(E) Technical Hours per Respondent Per Year (A X D)	(F) Number of Respondents Per Year	(G) Technical Hours per Year @ \$98.20 (F X G)	(H) Clerical Hours per Year @ \$48.53 (H X 0.1)	(I) Managem ent Hours per Year @ \$114.49 (H X .05)	(J) Total Labor Costs Per Year	(K) Total Non- Labor Annual Cost	(L) Total Number of Responses per Year (D X F)	Footnotes
1. Applications	na												
2. Surveys and Studies	na												
3. Reporting Requirements													
A. Read and Understand Rule Requirements	40	\$0	\$0	1	40	10	400	40	20	\$43,511	\$0	0	a, b
B. Required Activities													
1. Initial Stack Test and Report (for PM)	12	\$8,000	\$0	1	12	3	36	4	2	\$3,916	\$24,000	0	b, c
2. Initial Stack Test and Report (for Hg)	12	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	0	b, c, g
3. Initial Stack Test and Report (for CO)	12	\$6,000	\$0	1	12	0	0	0	0	\$0	\$0	0	b, g
4. Annual Stack Test and Report (for PM)	12	\$8,000	\$0	1	12	8	96	10	5	\$10,443	\$64,000	0	d
5. Annual Stack Test and Report (for Hg)	12	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	0	b, c, g
6. Annual Stack Test and Report (for CO)	12	\$6,000	\$0	1	12	0	0	0	0	\$0	\$0	0	d, g
7. Initial Fuel Analysis for Mercury Content	5	\$200	\$0	1	5	0	0	0	0	\$0	\$0	0	b, c
8. Monthly Fuel Analysis for Mercury Content	5	\$200	\$0	12	60	0	0	0	0	\$0	\$0	0	c, d
9. Continuous Parameter Monitoring													
Establish Site-specific monitoring plan (all Opacity	40	\$0	\$0	1	40	3	120	12	6	\$13,053	\$0	0	e
a) initial	10	\$0	\$43,100	1	10	3	30	3	2	\$3,263	\$129,300	0	f
b) annual	10	\$0	\$14,700	1	10	3	30	3	2	\$3,263	\$44,100	0	f
Bag Leak Detection System Operation (all sources that have fabric filters)													
a) initial	10	\$0	\$25,500	1	10	0	0	0	0	\$0	\$0	0	f
b) annual	10	\$0	\$9,700	1	10	0	0	0	0	\$0	\$0	0	f
C. Create Information	na												
D. Gather Information	na												
E. Report Preparation													
1) Initial Notification that Source is Subject	2	\$0	\$0	1	2	10	20	2	1	\$2,176	\$0	10	a, b
2) Notification of Compliance Status	8	\$0	\$0	1	8	10	80	8	4	\$8,702	\$0	10	a, b
3) Annual Compliance Report	30	\$0	\$0	1	30	30	900	90	45	\$97,900	\$0	30	a
<i>Reporting Subtotal</i>							1,682	168	84	\$182,964	\$132,100	50	
4. Recordkeeping Requirements													
A. Read Instructions	see 3.A												
B. Implement Activities	na												
C. Develop Record System	na												
D. Record Information													
1) Records of Operating Parameter Values	20	\$0	\$0	1	20	60	1,200	120	60	\$130,533	\$0	0	a, c
2) Records of Deviations	15	\$0	\$0	1	15	60	900	90	45	\$97,900	\$0	0	a, c
3) Records of Stack Tests	2	\$0	\$0	1	2	60	120	12	6	\$13,053	\$0	0	a, c
4) Records of Monitoring Device Calibrations	2	\$0	\$0	1	2	60	120	12	6	\$13,053	\$0	0	a, c
5) Records of All Compliance Reports Submitted	2	\$0	\$0	2	4	60	240	24	12	\$26,107	\$0	0	a, c
6) Records of Monthly Fuel Use	0.5	\$0	\$0	12	6	60	360	36	18	\$39,160	\$0	0	a, c
E. Personnel Training	na												
F. Time for Audits	na												
<i>Subtotal Recordkeeping</i>							2,940	294	147	\$319,806	\$0	0	
Totals							4,622	462	231	\$502,770	\$132,100	50	

a The total number of new large solid fuel boilers estimated in the first 3 years of this rule is 60. In order to calculate a per year estimate of the number of boilers required to meet these rule requirements, the number of projected boilers is divided by 3, or 20 boilers per year. Assuming 2 unit per facility, 10 new facilities will be subject per year.

b A one-time requirement.

c All projected large solid fuel units expected to comply through stack testing instead of the fuel testing compliance option. Only units less than 30 mmBtu/hr that are not subject to PM limits under the NSPS (40 CFR part 60 subparts Db, Dc) will incur additional testing, monitoring, recordkeeping and reporting costs under this rule.

d Subsequent annual testing in year 2 are based on the number of sources that had an initial test in year 1 of this ICR. Subsequent semi-annual compliance reporting and recordkeeping requirements are based on the number of new sources in years 1 and 2 of

e If you demonstrate compliance with any applicable emission limit through stack testing, you must develop a site-specific monitoring plan. All new large solid fuel units are expected to develop this plan.

f All new coal units greater than 10 mmBtu/hr are expected to install fabric filters and equipped with bag leak detection (BLD) systems instead of opacity monitors. Since biomass units are expected to meet PM limits with an ESP, an opacity monitor is required instead of a BLD. There are no new large coal units projected to be installed.

g Only coal boilers are subject to numerical mercury and CO limits and are required to test. No new large coal units are projected.

Table 4.A. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters - Year 1, New Large Liquid Fuel Units

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Stack Testing and Fuel Analysis Cost Per Occurrence	(C) Non-Labor Costs Per Occurrence	(D) Number of Occurrences Per Respondent Per Year	(E) Technical Hours per Respondent Per Year (A X D)	(F) Number of Respondents Per Year	(G) Technical Hours per Year @ \$98.20 (F X G)	(H) Clerical Hours per Year @ \$48.53 (H X 0.1)	(I) Management Hours per Year @ \$114.49 (H X .05)	(J) Total Labor Costs Per Year	(K) Total Non-Labor Annual Cost	(L) Total Number of Responses per Year (D X F)	Footnotes
1. Applications	na												
2. Surveys and Studies	na												
3. Reporting Requirements													
A. Read and Understand Rule Requirements	40	\$0	\$0	1	40	81	3,240	324	162	\$352,439	\$0	0	a, b
B. Required Activities													
1. Initial Stack Test and Report (for PM)	12	\$8,000	\$0	1	12	162	1,944	194	97	\$211,463	\$1,296,000	0	b, c
2. Annual Stack Test and Report (for PM)	12	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	d
3. Continuous Parameter Monitoring													
Establish Site-specific monitoring plan (all Opacity	40	\$0	\$0	1	40	81	3,240	324	162	\$352,439	\$0	0	e
a) initial	10	\$0	\$43,100	1	10	147	1,470	147	74	\$159,903	\$6,335,700	0	
b) annual	10	\$0	\$14,700	1	10	147	1,470	147	74	\$159,903	\$2,160,900	0	
Bag Leak Detection System Operation (all sources that have fabric filters)													
a) initial	10	\$0	\$25,500	1	10	15	150	15	8	\$16,317	\$382,500	0	
b) annual	10	\$0	\$9,700	1	10	15	150	15	8	\$16,317	\$145,500	0	
C. Create Information	na												
D. Gather Information	na												
E. Report Preparation													
1) Initial Notification that Source is Subject	2	\$0	\$0	1	2	81	162	16	8	\$17,622	\$0	81	a, b
2) Notification of Compliance Status	8	\$0	\$0	1	8	81	648	65	32	\$70,488	\$0	81	a, b
3) Annual Compliance Report	30	\$0	\$0	1	30	81	2,430	243	122	\$264,329	\$0	81	a
<i>Reporting Subtotal</i>							13,284	1,328	664	\$1,445,000	\$3,602,400	243	
4. Recordkeeping Requirements													
A. Read Instructions	see 3.A												
B. Implement Activities	na												
C. Develop Record System	na												
D. Record Information													
1) Records of Operating Parameter Values	20	\$0	\$0	1	20	162	3,240	324	162	\$352,439	\$0	0	a
2) Records of Deviations	15	\$0	\$0	1	15	162	2,430	243	122	\$264,329	\$0	0	a
3) Records of Stack Tests	2	\$0	\$0	1	2	162	324	32	16	\$35,244	\$0	0	a
4) Records of Monitoring Device Calibrations	2	\$0	\$0	1	2	162	324	32	16	\$35,244	\$0	0	a
5) Records of All Compliance Reports Submitted	2	\$0	\$0	2	4	162	648	65	32	\$70,488	\$0	0	a
6) Records of Monthly Fuel Use	0.5	\$0	\$0	12	6	162	972	97	49	\$105,732	\$0	0	a
E. Personnel Training	na												
F. Time for Audits	na												
<i>Subtotal Recordkeeping</i>							7,938	794	397	\$863,476	\$0	0	
Totals							21,222	2,122	1,061	\$2,308,476	\$3,602,400	243	

a The total number of new large liquid fuel boilers estimated in the first 3 years of this rule is 487. In order to calculate a per year estimate of the number of boilers required to meet these rule requirements, the number of projected boilers is divided by 3, or 162.3 rounded to 162 boilers per year. 162 boilers will be accounted for in year 1 and 2 and 163 in year 3. Assuming 2 unit per facility, 81 new facilities will be subject in year 1 and 2 and 82 facilities in year 3.

b A one-time requirement.

c All projected large liquid fuel units are expected to comply with mercury limits through the fuel testing compliance option instead of stack testing, see note a for the derivation of the number of units per year.

d No annual test and reporting burden is shown in year 1 as this is the same year as the initial test and report.

e If you demonstrate compliance with any applicable emission limit through stack testing, you must develop a site-specific monitoring plan. All new large liquid fuel units are expected to develop this plan.

Table 4.B. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters - Year 2, New Large Liquid Fuel Units

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Stack Testing and Fuel Analysis Cost Per Occurrence	(C) Non-Labor Costs Per Occurrence	(D) Number of Occurrences Per Respondent Per Year	(E) Technical Hours per Respondent Per Year (A X D)	(F) Number of Respondents Per Year	(G) Technical Hours per Year @ \$98.20 (F X G)	(H) Clerical Hours per Year @ \$48.53 (H X 0.1)	(I) Managemen t Hours per Year @ \$114.49 (H X .05)	(J) Total Labor Costs Per Year	(K) Total Non- Labor Annual Cost	(L) Total Number of Responses per Year (D X F)	Footnotes
1. Applications	na												
2. Surveys and Studies	na												
3. Reporting Requirements													
A. Read and Understand Rule Requirements	40	\$0	\$0	1	40	81	3,240	324	162	\$352,439	\$0	0	a, b
B. Required Activities													
1. Initial Stack Test and Report (for PM)	12	\$8,000	\$0	1	12	162	1,944	194	97	\$211,463	\$1,296,000	0	b, c
2. Annual Stack Test and Report (for PM)	12	\$8,000	\$0	1	12	162	1,944	194	97	\$211,463	\$1,296,000	0	d
3. Continuous Parameter Monitoring													
Establish Site-specific monitoring plan (all Opacity	40	\$0	\$0	1	40	81	3,240	324	162	\$352,439	\$0	0	e
a) initial	10	\$0	\$43,100	1	10	147	1,470	147	74	\$159,903	\$6,335,700	0	
b) annual	10	\$0	\$14,700	1	10	294	2,940	294	147	\$319,806	\$4,321,800	0	
Bag Leak Detection System Operation (all sources that have fabric filters)													
a) initial	10	\$0	\$25,500	1	10	15	150	15	8	\$16,317	\$382,500	0	
b) annual	10	\$0	\$9,700	1	10	30	300	30	15	\$32,633	\$291,000	0	
C. Create Information	na												
D. Gather Information	na												
E. Report Preparation													
1) Initial Notification that Source is Subject	2	\$0	\$0	1	2	81	162	16	8	\$17,622	\$0	81	a, b
2) Notification of Compliance Status	8	\$0	\$0	1	8	81	648	65	32	\$70,488	\$0	81	a, b
3) Annual Compliance Report	30	\$0	\$0	1	30	162	4,860	486	243	\$528,659	\$0	162	a
<i>Reporting Subtotal</i>							19,278	1,928	964	\$2,097,013	\$7,204,800	324	
4. Recordkeeping Requirements													
A. Read Instructions	see 3.A												
B. Implement Activities	na												
C. Develop Record System	na												
D. Record Information													
1) Records of Operating Parameter Values	20	\$0	\$0	1	20	324	6,480	648	324	\$704,878	\$0	0	a
2) Records of Deviations	15	\$0	\$0	1	15	324	4,860	486	243	\$528,659	\$0	0	a
3) Records of Stack Tests	2	\$0	\$0	1	2	324	648	65	32	\$70,488	\$0	0	a
4) Records of Monitoring Device Calibrations	2	\$0	\$0	1	2	324	648	65	32	\$70,488	\$0	0	a
5) Records of All Compliance Reports Submitted	2	\$0	\$0	2	4	324	1,296	130	65	\$140,976	\$0	0	a
6) Records of Monthly Fuel Use	0.5	\$0	\$0	12	6	324	1,944	194	97	\$211,463	\$0	0	a
E. Personnel Training	na												
F. Time for Audits	na												
<i>Subtotal Recordkeeping</i>							15,876	1,588	794	\$1,726,952	\$0	0	
Totals							35,154	3,515	1,758	\$3,823,964	\$7,204,800	324	

a The total number of new large liquid fuel boilers estimated in the first 3 years of this rule is 487. In order to calculate a per year estimate of the number of boilers required to meet these rule requirements, the number of projected boilers is divided by 3, or 162.3 rounded to 162 boilers per year. 162 boilers will be accounted for in year 1 and 2 and 163 in year 3. Assuming 2 unit per facility, 81 new facilities will be subject in year 1 and 2 and 82 facilities in year 3.

b A one-time requirement.

c All projected large liquid fuel units are expected to comply with mercury limits through the fuel testing compliance option instead of stack testing, see note a for the derivation of the number of units per year.

d Subsequent annual testing in year 2 are based on the number of sources that had an initial test in year 1 of this ICR. Subsequent semi-annual compliance reporting and recordkeeping requirements are based on the number of new sources in years 1 and 2 of this ICR.

e If you demonstrate compliance with any applicable emission limit through stack testing, you must develop a site-specific monitoring plan. All new large liquid fuel units are expected to develop this plan.

Table 4.C. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters - Year 3, New Large Liquid Fuel Units

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Stack Testing and Fuel Analysis Cost Per Occurrence	(C) Non-Labor Costs Per Occurrence	(D) Number of Occurrences Per Respondent Per Year	(E) Technical Hours per Respondent Per Year (A X D)	(F) Number of Respondents Per Year	(G) Technical Hours per Year @ \$98.20 (F X G)	(H) Clerical Hours per Year @ \$48.53 (H X 0.1)	(I) Management Hours per Year @ \$114.49 (H X .05)	(J) Total Labor Costs Per Year	(K) Total Non-Labor Annual Cost	(L) Total Number of Responses per Year (D X F)	Footnotes
1. Applications	na												
2. Surveys and Studies	na												
3. Reporting Requirements													
A. Read and Understand Rule Requirements	40	\$0	\$0	1	40	82	3,280	328	164	\$356,790	\$0	0	a, b
B. Required Activities													
1. Initial Stack Test and Report (for PM)	12	\$8,000	\$0	1	12	163	1,956	196	98	\$212,769	\$1,304,000	0	b, c
2. Annual Stack Test and Report (for PM)	12	\$8,000	\$0	1	12	324	3,888	389	194	\$422,927	\$2,592,000	0	d
3. Continuous Parameter Monitoring													
Establish Site-specific monitoring plan (all Opacity	40	\$0	\$0	1	40	82	3,280	328	164	\$356,790	\$0	0	e
a) initial	10	\$0	\$43,100	1	10	147	1,470	147	74	\$159,903	\$6,335,700	0	
b) annual	10	\$0	\$14,700	1	10	441	4,410	441	221	\$479,709	\$6,482,700	0	
Bag Leak Detection System Operation (all sources that have fabric filters)													
a) initial	10	\$0	\$25,500	1	10	15	150	15	8	\$16,317	\$382,500	0	
b) annual	10	\$0	\$9,700	1	10	45	450	45	23	\$48,950	\$436,500	0	
C. Create Information	na												
D. Gather Information	na												
E. Report Preparation													
1) Initial Notification that Source is Subject	2	\$0	\$0	1	2	82	164	16	8	\$17,840	\$0	82	a, b
2) Notification of Compliance Status	8	\$0	\$0	1	8	82	656	66	33	\$71,358	\$0	82	a, b
3) Annual Compliance Report	30	\$0	\$0	1	30	244	7,320	732	366	\$796,251	\$0	244	a
<i>Reporting Subtotal</i>							25,404	2,540	1,270	\$2,763,384	\$10,815,200	408	
4. Recordkeeping Requirements													
A. Read Instructions	see 3.A												
B. Implement Activities	na												
C. Develop Record System	na												
D. Record Information													
1) Records of Operating Parameter Values	20	\$0	\$0	1	20	487	9,740	974	487	\$1,059,493	\$0	0	a
2) Records of Deviations	15	\$0	\$0	1	15	487	7,305	731	365	\$794,620	\$0	0	a
3) Records of Stack Tests	2	\$0	\$0	1	2	487	974	97	49	\$105,949	\$0	0	a
4) Records of Monitoring Device Calibrations	2	\$0	\$0	1	2	487	974	97	49	\$105,949	\$0	0	a
5) Records of All Compliance Reports Submitted	2	\$0	\$0	2	4	487	1,948	195	97	\$211,899	\$0	0	a
6) Records of Monthly Fuel Use	0.5	\$0	\$0	12	6	487	2,922	292	146	\$317,848	\$0	0	a
E. Personnel Training	na												
F. Time for Audits	na												
<i>Subtotal Recordkeeping</i>							23,863	2,386	1,193	\$2,595,757	\$0	0	
Totals							49,267	4,927	2,463	\$5,359,141	\$10,815,200	408	

a The total number of new large liquid fuel boilers estimated in the first 3 years of this rule is 487. In order to calculate a per year estimate of the number of boilers required to meet these rule requirements, the number of projected boilers is divided by 3, or 162.3 rounded to 162 boilers per year. 162 boilers will be accounted for in year 1 and 2 and 163 in year 3. Assuming 2 unit per facility, 81 new facilities will be subject in year 1 and 2 and 82 facilities in year 3.

b A one-time requirement.

c All projected large liquid fuel units are expected to comply with mercury limits through the fuel testing compliance option instead of stack testing, see note a for the derivation of the number of units per year.

d Subsequent annual testing in year 2 are based on the number of sources that had an initial test in year 1 of this ICR. Subsequent semi-annual compliance reporting and recordkeeping requirements are based on the number of new sources in years 1 and 2 of this ICR.

e If you demonstrate compliance with any applicable emission limit through stack testing, you must develop a site-specific monitoring plan. All new large liquid fuel units are expected to develop this plan.

**Table 5.A. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards
for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers - Year 1, Existing Small Solid Fuel Units**

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Tune-Up Cost per Occurrence	(C) Other Non- Labor Costs Per Occurrence	(D) Number of Occurrences Per Respondent Per Year	(E) Technical Hours per Respondent Per Year (A X D)	(F) Number of Respondents Per Year	(G) Technical Hours per Year @ \$98.20 (E X F)	(H) Clerical Hours per Year @ \$48.53 (G X 0.1)	(I) Managem ent Hours per Year @ \$114.49 (G X .05)	(J) Total Labor Costs Per Year	(K) Total Non- Labor Annual Costs	(L) Total Number of Responses per Year (D X F)	Footnotes
1. Applications	na												
2. Surveys and Studies	na												
3. Reporting Requirements													
A. Read and Understand Rule Requirements	40	\$0	\$0	1	40	5,314	212560	21256	10628	\$23,121,745	\$0	0	a
B. Required Activities													
1. Biennial Tune-Up	12	\$2,228	\$0	0.5	6	0	0	0	0	\$0	\$0	0	b
C. Create Information	na												
D. Gather Information	na												
E. Report Preparation													
1) Initial Notification that Source is Subject	2	\$0	\$0	1	2	5,314	10628	1063	531	\$1,156,087	\$0	5,314	a
2) Notification of Compliance Status	8	\$0	\$0	1	8	0	0	0	0	\$0	\$0	0	b
3) Biennial Compliance Report	5	\$0	\$0	0.5	2.5	0	0	0	0	\$0	\$0	0	b
<i>Reporting Subtotal</i>							223188	22319	11159	\$24,277,833	\$0	5,314	
4. Recordkeeping Requirements													
A. Read Instructions	Included in 3a												
B. Implement Activities	na												
C. Develop Record System	na												c
D. Record Information													
Submitted	2	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	b
2) Records of Biennial Tune-Up	0.5	\$0	\$0	0.5	0.25	0	0	0	0	\$0	\$0	0	b
E. Personnel Training	na												
F. Time for Audits	na												
<i>Recordkeeping Subtotal</i>							0	0	0	0	0	0	
Totals							223188	22319	11159	\$24,277,833	\$0	5,314	

a Number of respondents based on number of existing large solid fuel boilers which includes biomass and coal units greater than 10 mmBtu/hr (assumption of 2 units per facility).

b Since existing units have three years after the publication date of the final rule to submit initial notification of compliance status, conduct compliance activities, or meet recordkeeping or reporting requirements, no burden is assumed in year 1.

c Assumes facility must already maintain records on boiler insurance and/or maintenance schedule. No new record system would be required.

Table 5.B. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers - Year 2, Existing Small Solid Fuel Units

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Tune-Up Cost per Occurrence	(C) Other Non-Labor Costs Per Occurrence	(D) Number of Occurrences Per Respondent Per Year	(E) Technical Hours per Respondent Per Year (A X D)	(F) Number of Respondents Per Year	(G) Technical Hours per Year @ \$98.20 (E X F)	(H) Clerical Hours per Year @ \$48.53 (G X 0.1)	(I) Management Hours per Year @ \$114.49 (G X .05)	(J) Total Labor Costs Per Year	(K) Total Non-Labor Annual Costs	(L) Total Number of Responses per Year (D X F)	Footnotes
1. Applications	na												
2. Surveys and Studies	na												
3. Reporting Requirements													
A. Read and Understand Rule Requirements	40	\$0	\$0	1	40	0	0	0	0	\$0	\$0	0	a
B. Required Activities													
1. Biennial Tune-Up	12	\$2,228	\$0	0.5	6	5,315	31,890	3,189	1,595	\$3,468,914	\$5,920,910	0	b
C. Create Information	na												
D. Gather Information	na												
E. Report Preparation													
1) Initial Notification that Source is Subject	2	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	a
2) Notification of Compliance Status	8	\$0	\$0	1	8	0	0	0	0	\$0	\$0	0	b
3) Biennial Compliance Report	5	\$0	\$0	0.5	2.5	0	0	0	0	\$0	\$0	0	b
<i>Reporting Subtotal</i>							31,890	3,189	1,595	\$3,468,914	\$5,920,910	0	
4. Recordkeeping Requirements													
A. Read Instructions	Included in 3a												
B. Implement Activities	na												
C. Develop Record System	na												c
D. Record Information													
1) Records of All Compliance Reports Submitted	2	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	b
2) Records of Biennial Tune-Up	0.5	\$0	\$0	0.5	0.25	0	0	0	0	\$0	\$0	0	b
E. Personnel Training	na												
F. Time for Audits	na												
<i>Recordkeeping Subtotal</i>							0	0	0	0	0	0	
Totals							31,890	3,189	1,595	\$3,468,914	\$5,920,910	0	

a The burden on existing sources to read and understand rule requirements, and submit an initial notification were assumed to all occur in year 1.

b Since existing units have three years after the publication date of the final rule to submit initial notification of compliance status, conduct compliance activities, or meet recordkeeping or reporting requirements, it is assumed that half the affected units will conduct a tune-up in year 2 and half will conduct them in year 3 in order to be in compliance by the third year after promulgation. Initial Notification of Compliance Reports and recordkeeping requirements will not begin until year 3 of this ICR.

c Assumes facility must already maintain records on boiler insurance and/or maintenance schedule. No new record system would be required.

Table 5.C. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers - Year 3, Existing Small Solid Fuel Units

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Tune-Up Cost per Occurrence	(C) Other Non-Labor Costs Per Occurrence	(D) Number of Occurrences Per Respondent Per Year	(E) Technical Hours per Respondent Per Year (A X D)	(F) Number of Respondents Per Year	(G) Technical Hours per Year @ \$98.20 (E X F)	(H) Clerical Hours per Year @ \$48.53 (G X 0.1)	(I) Management Hours per Year @ \$114.49 (G X .05)	(J) Total Labor Costs Per Year	(K) Total Non-Labor Annual Costs	(L) Total Number of Responses per Year (D X F)	Footnotes
1. Applications	na												
2. Surveys and Studies	na												
3. Reporting Requirements													
A. Read and Understand Rule Requirements	40	\$0	\$0	1	40	0	0	0	0	\$0	\$0	0	a
B. Required Activities													
1. Biennial Tune-Up	12	\$2,228	\$0	0.5	6	5,314	31,884	3,188	1,594	\$3,468,262	\$5,919,796	0	b
C. Create Information	na												
D. Gather Information	na												
E. Report Preparation													
1) Initial Notification that Source is Subject	2	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	a
2) Notification of Compliance Status	8	\$0	\$0	1	8	5,314	42,512	4,251	2,126	\$4,624,349	\$0	5,314	b
3) Biennial Compliance Report	5	\$0	\$0	0.5	2.5	5,314	13,285	1,329	664	\$1,445,109	\$0	2,657	b
<i>Reporting Subtotal</i>							87,681	8,768	4,384	\$9,537,720	\$5,919,796	7,971	
4. Recordkeeping Requirements													
A. Read Instructions	Included in 3a												
B. Implement Activities	na												
C. Develop Record System	na												c
D. Record Information													
1) Records of All Compliance Reports Submitted	2	\$0	\$0	1	2	10,629	21,258	2,126	1,063	\$2,312,392	\$0	0	b
2) Records of Biennial Tune-Up	0.5	\$0	\$0	0.5	0.25	10,629	2,657	266	133	\$289,049	\$0	0	b
E. Personnel Training	na												
F. Time for Audits	na												
<i>Recordkeeping Subtotal</i>							23,915	2,392	1,196	2,601,441	0	0	
Totals							111,596	11,160	5,580	\$12,139,161	\$5,919,796	7,971	

a The burden on existing sources to read and understand rule requirements, and submit an initial notification were assumed to all occur in year 1.

b Since existing units have three years after the publication date of the final rule to submit initial notification of compliance status, conduct compliance activities, or meet recordkeeping or reporting requirements, it is assumed that half the affected units will conduct a tune-up in year 2 and half will conduct them in year 3 in order to be in compliance by the third year after promulgation. Initial Notification of Compliance Reports and recordkeeping requirements will not begin until year 3 of this ICR.

c Assumes facility must already maintain records on boiler insurance and/or maintenance schedule. No new record system would be required.

Table 6.A. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers - Year 1, Existing Small Liquid Fuel Units

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Tune-Up Cost per Occurrence	(C) Other Non-Labor Costs Per Occurrence	(D) Number of Occurrences Per Respondent Per Year	(E) Technical Hours per Respondent Per Year (A X D)	(F) Number of Respondents Per Year	(G) Technical Hours per Year @ \$98.20 (E X F)	(H) Clerical Hours per Year @ \$48.53 (G X 0.1)	(I) Management Hours per Year @ \$114.49 (G X .05)	(J) Total Labor Costs Per Year	(K) Total Non-Labor Annual Costs	(L) Total Number of Responses per Year (D X F)	Footnotes
1. Applications	na												
2. Surveys and Studies	na												
3. Reporting Requirements													
A. Read and Understand Rule Requirements	40	\$0	\$0	1	40	79,387	3,175,480	317,548	158,774	\$345,420,776	\$0	0	a
B. Required Activities													
1. Biennial Tune-Up	12	\$2,228	\$0	0.5	6	0	0	0	0	\$0	\$0	0	b
C. Create Information	na												
D. Gather Information	na												
E. Report Preparation													
1) Initial Notification that Source is Subject	2	\$0	\$0	1	2	79,387	158,774	15,877	7,939	\$17,271,039	\$0	79,387	a
2) Notification of Compliance Status	8	\$0	\$0	1	8	0	0	0	0	\$0	\$0	0	b
3) Biennial Compliance Report	5	\$0	\$0	0.5	2.5	0	0	0	0	\$0	\$0	0	b
<i>Reporting Subtotal</i>							3,334,254	333,425	166,713	\$362,691,814	\$0	79,387	
4. Recordkeeping Requirements													
A. Read Instructions	Included in 3a												
B. Implement Activities	na												
C. Develop Record System	na												c
D. Record Information													
1) Records of All Compliance Reports Submitted	2	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	b
2) Records of Biennial Tune-Up	0.5	\$0	\$0	0.5	0.25	0	0	0	0	\$0	\$0	0	b
E. Personnel Training	na												
F. Time for Audits	na												
<i>Recordkeeping Subtotal</i>							0	0	0	\$0	\$0	0	
Totals							3,334,254	333,425	166,713	\$362,691,814	\$0	79,387	

a Number of respondents based on number of existing small liquid fuel boilers which includes biomass and coal units less than 10 mmBtu/hr (assumption of 2 units per facility).

b Since existing units have three years after the publication date of the final rule to submit initial notification of compliance status, conduct compliance activities, or meet recordkeeping or reporting requirements, no burden is assumed in year 1.

c Assumes facility must already maintain records on boiler insurance and/or maintenance schedule. No new record system would be required.

Table 6.B. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers - Year 2, Existing Small Liquid Fuel Units

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Tune-Up Cost per Occurrence	(C) Other Non-Labor Costs Per Occurrence	(D) Number of Occurrences Per Respondent Per Year	(E) Technical Hours per Respondent Per Year (A X D)	(F) Number of Respondents Per Year	(G) Technical Hours per Year @ \$98.20 (E X F)	(H) Clerical Hours per Year @ \$48.53 (G X 0.1)	(I) Management Hours per Year @ \$114.49 (G X .05)	(J) Total Labor Costs Per Year	(K) Total Non-Labor Annual Costs	(L) Total Number of Responses per Year (D X F)	Footnotes
1. Applications	na												
2. Surveys and Studies	na												
3. Reporting Requirements													
A. Read and Understand Rule Requirements	40	\$0	\$0	1	40	0	0	0	0	\$0	\$0	0	a
B. Required Activities													
1. Biennial Tune-Up	12	\$2,228	\$0	0.5	6	79,387	476,322	47,632	23,816	\$51,813,116	\$176,874,236	0	b
C. Create Information	na												
D. Gather Information	na												
E. Report Preparation													
1) Initial Notification that Source is Subject	2	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	a
2) Notification of Compliance Status	8	\$0	\$0	1	8	0	0	0	0	\$0	\$0	0	b
3) Biennial Compliance Report	5	\$0	\$0	0.5	2.5	0	0	0	0	\$0	\$0	0	b
<i>Reporting Subtotal</i>							476,322	47,632	23,816	\$51,813,116	\$176,874,236	0	
4. Recordkeeping Requirements													
A. Read Instructions	Included in 3a												
B. Implement Activities	na												
C. Develop Record System	na												c
D. Record Information													
1) Records of All Compliance Reports Submitted	2	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	b
2) Records of Biennial Tune-Up	0.5	\$0	\$0	0.5	0.25	0	0	0	0	\$0	\$0	0	b
E. Personnel Training	na												
F. Time for Audits	na												
<i>Recordkeeping Subtotal</i>							0	0	0	\$0	\$0	0	
Totals							476,322	47,632	23,816	\$51,813,116	\$176,874,236	0	

a The burden on existing sources to read and understand rule requirements, and submit an initial notification were assumed to all occur in year 1.

b Since existing units have three years after the publication date of the final rule to submit initial notification of compliance status, conduct compliance activities, or meet recordkeeping or reporting requirements, it is assumed that half the affected units will conduct a tune-up in year 2 and half will conduct them in year 3 in order to be in compliance by the third year after promulgation. Initial Notification of Compliance Reports and recordkeeping requirements will not begin until year 3 of this ICR.

c Assumes facility must already maintain records on boiler insurance and/or maintenance schedule. No new record system would be required.

Table 6.C. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers - Year 3, Existing Small Liquid Fuel Units

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Tune-Up Cost per Occurrence	(C) Other Non-Labor Costs Per Occurrence	(D) Number of Occurrences Per Respondent Per Year	(E) Technical Hours per Respondent Per Year (A X D)	(F) Number of Respondents Per Year	(G) Technical Hours per Year @ \$98.20 (E X F)	(H) Clerical Hours per Year @ \$48.53 (G X 0.1)	(I) Management Hours per Year @ \$114.49 (G X .05)	(J) Total Labor Costs Per Year	(K) Total Non-Labor Annual Costs	(L) Total Number of Responses per Year (D X F)	Footnotes
1. Applications	na												
2. Surveys and Studies	na												
3. Reporting Requirements													
A. Read and Understand Rule Requirements	40	\$0	\$0	1	40	0	0	0	\$0	\$0	0	a	
B. Required Activities													
1. Biennial Tune-Up	12	\$2,228	\$0	0.5	6	79,387	476,322	47,632	\$51,813,116	\$176,874,236	0	b	
C. Create Information	na												
D. Gather Information	na												
E. Report Preparation													
1) Initial Notification that Source is Subject	2	\$0	\$0	1	2	0	0	0	\$0	\$0	0	a	
2) Notification of Compliance Status	8	\$0	\$0	1	8	79,387	635,096	63,510	\$69,084,155	\$0	79,387	b	
3) Biennial Compliance Report	5	\$0	\$0	0.5	2.5	79,387	198,468	19,847	\$21,588,798	\$0	39,694	b	
<i>Reporting Subtotal</i>							1,309,886	130,989	65,494	\$142,486,070	\$176,874,236	119,081	
4. Recordkeeping Requirements													
A. Read Instructions	Included in 3a												
B. Implement Activities	na												
C. Develop Record System	na												c
D. Record Information													
Submitted	2	\$0	\$0	1	2	158,774	317,548	31,755	\$34,542,078	\$0	0	b	
2) Records of Biennial Tune-Up	0.5	\$0	\$0	0.5	0.25	158,774	39,694	3,969	\$4,317,760	\$0	0	b	
E. Personnel Training	na												
F. Time for Audits	na												
<i>Recordkeeping Subtotal</i>							357,242	35,724	17,862	\$38,859,837	\$0	0	
Totals							1,667,127	166,713	83,356	\$181,345,907	\$176,874,236	119,081	

a The burden on existing sources to read and understand rule requirements, and submit an initial notification were assumed to all occur in year 1.

b Since existing units have three years after the publication date of the final rule to submit initial notification of compliance status, conduct compliance activities, or meet recordkeeping or reporting requirements, it is assumed that half the affected units will conduct a tune-up in year 2 and half will conduct them in year 3 in order to be in compliance by the third year after promulgation. Initial Notification of Compliance Reports and recordkeeping requirements will not begin until year 3 of this ICR.

c Assumes facility must already maintain records on boiler insurance and/or maintenance schedule. No new record system would be required.

Table 7.A. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters - Year 1, New Small Solid Fuel Units

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Tune-Up Cost per Occurrence	(C) Other Non-Labor Costs Per Occurrence	(D) Number of Occurrences Per Respondent Per Year	(E) Technical Hours per Respondent Per Year (A X D)	(F) Number of Respondents Per Year	(G) Technical Hours per Year @ \$98.20 (E X F)	(H) Clerical Hours per Year @ \$48.53 (G X 0.1)	(I) Management Hours per Year @ \$114.49 (G X .05)	(J) Total Labor Costs Per Year	(K) Total Non-Labor Annual Costs	(L) Total Number of Responses per Year (D X F)	Footnotes
1. Applications	na												
2. Surveys and Studies	na												
3. Reporting Requirements													
A. Read and Understand Rule Requirements	40	\$0	\$0	1	40	49	1,960	196	98	\$213,204	\$0	0	a
B. Required Activities													
1. Biennial Tune-Up	12	\$2,228	\$0	0.5	6	98	588	59	29	\$63,961	\$218,344	0	b
C. Create Information	na												
D. Gather Information	na												
E. Report Preparation													
1) Initial Notification that Source is Subject	2	\$0	\$0	1	2	49	98	10	5	\$10,660	\$0	49	b
2) Notification of Compliance Status	8	\$0	\$0	1	8	49	392	39	20	\$42,641	\$0	49	b
3) Biennial Compliance Report	5	\$0	\$0	0.5	2.5	49	123	12	6	\$13,325	\$0	25	b
<i>Reporting Subtotal</i>							3,161	316	158	\$343,791	\$218,344	123	
4. Recordkeeping Requirements													
A. Read Instructions	Included in 3a												
B. Implement Activities	na												
C. Develop Record System	na												c
D. Record Information													
1) Records of All Compliance Reports Submitted	2	\$0	\$0	1	2	98	196	20	10	\$21,320	\$0	0	b
2) Records of Biennial Tune-Up	0.5	\$0	\$0	0.5	0.25	98	25	2	1	\$2,665	\$0	0	b
E. Personnel Training	na												
F. Time for Audits	na												
<i>Recordkeeping Subtotal</i>							220.5	22.05	11.025	\$23,985	\$0	0	
Totals							3,381	338	169	\$367,777	\$218,344	123	

a Number of respondents based on number of new small solid fuel boilers which includes biomass and coal units less than 10 mmBtu/hr (assumption of 2 units per facility). One-third of the units will comply each year.

b Compliance activities will start the year the boiler complies.

c Assumes facility must already maintain records on boiler insurance and/or maintenance schedule. No new record system would be required.

Table 7.B. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters - Year 2, New Small Solid Fuel Units

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Tune-Up Cost per Occurrence	(C) Other Non-Labor Costs Per Occurrence	(D) Number of Occurrences Per Respondent Per Year	(E) Technical Hours per Respondent Per Year (A X D)	(F) Number of Respondents Per Year	(G) Technical Hours per Year @ \$98.20 (E X F)	(H) Clerical Hours per Year @ \$48.53 (G X 0.1)	(I) Management Hours per Year @ \$114.49 (G X .05)	(J) Total Labor Costs Per Year	(K) Total Non-Labor Annual Costs	(L) Total Number of Responses per Year (D X F)	Footnotes
1. Applications	na												
2. Surveys and Studies	na												
3. Reporting Requirements													
A. Read and Understand Rule Requirements	40	\$0	\$0	1	40	49	1,960	196	98	\$213,204	\$0	0	a
B. Required Activities													
1. Biennial Tune-Up	12	\$2,228	\$0	0.5	6	98	588	59	29	\$63,961	\$218,344	0	b
C. Create Information	na												
D. Gather Information	na												
E. Report Preparation													
1) Initial Notification that Source is Subject	2	\$0	\$0	1	2	49	98	10	5	\$10,660	\$0	49	b
2) Notification of Compliance Status	8	\$0	\$0	1	8	49	392	39	20	\$42,641	\$0	49	b
3) Biennial Compliance Report	5	\$0	\$0	0.5	2.5	98	245	25	12	\$26,650	\$0	49	b
<i>Reporting Subtotal</i>							3,283	328	164	\$357,117	\$218,344	147	
4. Recordkeeping Requirements													
A. Read Instructions	Included in 3a												
B. Implement Activities	na												
C. Develop Record System	na												c
D. Record Information													
1) Records of All Compliance Reports Submitted	2	\$0	\$0	1	2	196	392	39	20	\$42,641	\$0	0	b
2) Records of Biennial Tune-Up	0.5	\$0	\$0	0.5	0.25	196	49	5	2	\$5,330	\$0	0	b
E. Personnel Training	na												
F. Time for Audits	na												
<i>Recordkeeping Subtotal</i>							441	44.1	22.05	\$47,971	\$0	0	
Totals							3,724	372	186	\$405,087	\$218,344	147	

a Number of respondents based on number of new small solid fuel boilers which includes biomass and coal units less than 10 mmBtu/hr (assumption of 2 units per facility). One-third of the units will comply each year.

b Compliance activities will start the year the boiler complies.

c Assumes facility must already maintain records on boiler insurance and/or maintenance schedule. No new record system would be required.

Table 7.C. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters - Year 3, New Small Solid Fuel Units

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Tune-Up Cost per Occurrence	(C) Other Non-Labor Costs Per Occurrence	(D) Number of Occurrences Per Respondent Per Year	(E) Technical Hours per Respondent Per Year (A X D)	(F) Number of Respondents Per Year	(G) Technical Hours per Year @ \$98.20 (E X F)	(H) Clerical Hours per Year @ \$48.53 (G X 0.1)	(I) Management Hours per Year @ \$114.49 (G X .05)	(J) Total Labor Costs Per Year	(K) Total Non-Labor Annual Costs	(L) Total Number of Responses per Year (D X F)	Footnotes
1. Applications	na												
2. Surveys and Studies	na												
3. Reporting Requirements													
A. Read and Understand Rule Requirements	40	\$0	\$0	1	40	50	2,000	200	100	\$217,555	\$0	0	a
B. Required Activities													
1. Biennial Tune-Up	12	\$2,228	\$0	0.5	6	99	594	59	30	\$64,614	\$220,572	0	b
C. Create Information	na												
D. Gather Information	na												
E. Report Preparation													
1) Initial Notification that Source is Subject	2	\$0	\$0	1	2	50	100	10	5	\$10,878	\$0	50	b
2) Notification of Compliance Status	8	\$0	\$0	1	8	50	400	40	20	\$43,511	\$0	50	b
3) Biennial Compliance Report	5	\$0	\$0	0.5	2.5	148	370	37	19	\$40,248	\$0	74	b
<i>Reporting Subtotal</i>							3,464	346	173	\$376,805	\$220,572	174	
4. Recordkeeping Requirements													
A. Read Instructions	Included in 3a												
B. Implement Activities	na												
C. Develop Record System	na												c
D. Record Information													
1) Records of All Compliance Reports Submitted	2	\$0	\$0	1	2	295	590	59	30	\$64,179	\$0	0	b
2) Records of Biennial Tune-Up	0.5	\$0	\$0	0.5	0.25	295	74	7	4	\$8,022	\$0	0	b
E. Personnel Training	na												
F. Time for Audits	na												
<i>Recordkeeping Subtotal</i>							664	66	33	\$72,201	\$0	0	
Totals							4,128	413	206	\$449,006	\$220,572	174	

a Number of respondents based on number of new small solid fuel boilers which includes biomass and coal units less than 10 mmBtu/hr (assumption of 2 units per facility). One-third of the units will comply each year.

b Compliance activities will start the year the boiler complies.

c Assumes facility must already maintain records on boiler insurance and/or maintenance schedule. No new record system would be required.

**Table 8.A. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards
for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters - Year 1, New Small Liquid Fuel Units**

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Tune-Up Cost per Occurrence	(C) Other Non-Labor Costs Per Occurrence	(D) Number of Occurrences Per Respondent Per Year	(E) Technical Hours per Respondent Per Year (A X D)	(F) Number of Respondents Per Year	(G) Technical Hours per Year @ \$98.20 (E X F)	(H) Clerical Hours per Year @ \$48.53 (G X 0.1)	(I) Management Hours per Year @ \$114.49 (G X .05)	(J) Total Labor Costs Per Year	(K) Total Non- Labor Annual Costs	(L) Total Number of Responses per Year (D X F)	Footnotes
1. Applications	na												
2. Surveys and Studies	na												
3. Reporting Requirements													
A. Read and Understand Rule Requirements	40	\$0	\$0	1	40	989	39,560	3,956	1,978	\$4,303,238	\$0	0	a
B. Required Activities													
1. Biennial Tune-Up	12	\$2,228	\$0	0.5	6	1,979	11,874	1,187	594	\$1,291,624	\$4,409,212	0	b
C. Create Information	na												
D. Gather Information	na												
E. Report Preparation													
1) Initial Notification that Source is Subject	2	\$0	\$0	1	2	989	1,978	198	99	\$215,162	\$0	989	b
2) Notification of Compliance Status	8	\$0	\$0	1	8	989	7,912	791	396	\$860,648	\$0	989	b
3) Biennial Compliance Report	5	\$0	\$0	0.5	2.5	989	2,473	247	124	\$268,952	\$0	495	b
<i>Reporting Subtotal</i>							63,797	6,380	3,190	\$6,939,624	\$4,409,212	2,473	
4. Recordkeeping Requirements													
A. Read Instructions	Included in 3a												
B. Implement Activities	na												
C. Develop Record System	na												c
D. Record Information													
1) Records of All Compliance Reports Submitted	2	\$0	\$0	1	2	1,979	3,958	396	198	\$430,541	\$0	0	b
2) Records of Biennial Tune-Up	0.5	\$0	\$0	0.5	0.25	1,979	495	49	25	\$53,818	\$0	0	b
E. Personnel Training	na												
F. Time for Audits	na												
<i>Recordkeeping Subtotal</i>							4452.75	445.275	222.6375	\$484,359	\$0	0	
Totals							68,249	6,825	3,412	\$7,423,983	\$4,409,212	2,473	

a Number of respondents based on number of new small liquid fuel boilers less than 10 mmBtu/hr (assumption of 2 units per facility). One-third of the units will comply each year.

b Compliance activities will start the year the boiler complies.

c Assumes facility must already maintain records on boiler insurance and/or maintenance schedule. No new record system would be required.

**Table 8.B. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards
for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters - Year 2, New Small Liquid Fuel Units**

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Tune-Up Cost per Occurrence	(C) Other Non-Labor Costs Per Occurrence	(D) Number of Occurrences Per Respondent Per Year	(E) Technical Hours per Respondent Per Year (A X D)	(F) Number of Respondents Per Year	(G) Technical Hours per Year @ \$98.20 (E X F)	(H) Clerical Hours per Year @ \$48.53 (G X 0.1)	(I) Management Hours per Year @ \$114.49 (G X .05)	(J) Total Labor Costs Per Year	(K) Total Non- Labor Annual Costs	(L) Total Number of Responses per Year (D X F)	Footnotes
1. Applications	na												
2. Surveys and Studies	na												
3. Reporting Requirements													
A. Read and Understand Rule Requirements	40	\$0	\$0	1	40	989	39,560	3,956	1,978	\$4,303,238	\$0	0	a
B. Required Activities													
1. Biennial Tune-Up	12	\$2,228	\$0	0.5	6	1,979	11,874	1,187	594	\$1,291,624	\$4,409,212	0	b
C. Create Information	na												
D. Gather Information	na												
E. Report Preparation													
1) Initial Notification that Source is Subject	2	\$0	\$0	1	2	989	1,978	198	99	\$215,162	\$0	989	b
2) Notification of Compliance Status	8	\$0	\$0	1	8	989	7,912	791	396	\$860,648	\$0	989	b
3) Biennial Compliance Report	5	\$0	\$0	0.5	2.5	1,978	4,945	495	247	\$537,905	\$0	989	b
<i>Reporting Subtotal</i>							66,269	6,627	3,313	\$7,208,576	\$4,409,212	2,967	
4. Recordkeeping Requirements													
A. Read Instructions	Included in 3a												
B. Implement Activities	na												
C. Develop Record System	na												c
D. Record Information													
1) Records of All Compliance Reports Submitted	2	\$0	\$0	1	2	3,958	7,916	792	396	\$861,083	\$0	0	b
2) Records of Biennial Tune-Up	0.5	\$0	\$0	0.5	0.25	3,958	990	99	49	\$107,635	\$0	0	b
E. Personnel Training	na												
F. Time for Audits	na												
<i>Recordkeeping Subtotal</i>							8905.5	890.55	445.275	\$968,718	\$0	0	
Totals							75,175	7,517	3,759	\$8,177,294	\$4,409,212	2,967	

a Number of respondents based on number of new small liquid fuel boilers less than 10 mmBtu/hr (assumption of 2 units per facility). One-third of the units will comply each year.

b Compliance activities will start the year the boiler complies.

c Assumes facility must already maintain records on boiler insurance and/or maintenance schedule. No new record system would be required.

Table 8.C. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters - Year 3, New Small Liquid Fuel Units

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Tune-Up Cost per Occurrence	(C) Other Non-Labor Costs Per Occurrence	(D) Number of Occurrences Per Respondent Per Year	(E) Technical Hours per Respondent Per Year (A X D)	(F) Number of Respondents Per Year	(G) Technical Hours per Year @ \$98.20 (E X F)	(H) Clerical Hours per Year @ \$48.53 (G X 0.1)	(I) Management Hours per Year @ \$114.49 (G X .05)	(J) Total Labor Costs Per Year	(K) Total Non-Labor Annual Costs	(L) Total Number of Responses per Year (D X F)	Footnotes
1. Applications	na												
2. Surveys and Studies	na												
3. Reporting Requirements													
A. Read and Understand Rule Requirements	40	\$0	\$0	1	40	990	39,600	3,960	1,980	\$4,307,589	\$0	0	a
B. Required Activities													
1. Biennial Tune-Up	12	\$2,228	\$0	0.5	6	1,979	11,874	1,187	594	\$1,291,624	\$4,409,212	0	b
C. Create Information	na												
D. Gather Information	na												
E. Report Preparation													
1) Initial Notification that Source is Subject	2	\$0	\$0	1	2	990	1,980	198	99	\$215,379	\$0	990	b
2) Notification of Compliance Status	8	\$0	\$0	1	8	990	7,920	792	396	\$861,518	\$0	990	b
3) Biennial Compliance Report	5	\$0	\$0	0.5	2.5	2,968	7,420	742	371	\$807,129	\$0	1,484	b
<i>Reporting Subtotal</i>							68,794	6,879	3,440	\$7,483,239	\$4,409,212	3,464	
4. Recordkeeping Requirements													
A. Read Instructions	Included in 3a												
B. Implement Activities	na												
C. Develop Record System	na												c
D. Record Information													
1) Records of All Compliance Reports Submitted	2	\$0	\$0	1	2	5,937	11,874	1,187	594	\$1,291,624	\$0	0	b
2) Records of Biennial Tune-Up	0.5	\$0	\$0	0.5	0.25	5,937	1,484	148	74	\$161,453	\$0	0	b
E. Personnel Training	na												
F. Time for Audits	na												
<i>Recordkeeping Subtotal</i>							13,358	1,336	668	\$1,453,077	\$0	0	
Totals							82,152	8,215	4,108	\$8,936,316	\$4,409,212	3,464	

a Number of respondents based on number of new small liquid fuel boilers less than 10 mmBtu/hr (assumption of 2 units per facility). One-third of the units will comply each year.

b Compliance activities will start the year the boiler complies.

c Assumes facility must already maintain records on boiler insurance and/or maintenance schedule. No new record system would be required.

**Table 9.A. Annual Federal Government Burden and Cost of Recordkeeping and Reporting
for the Industrial, Commercial, and Institutional Boilers Area Source NESHA Subpart JJJJJJ- Year 1 - First Year After Promulgation**

Burden Item	EPA hours per occurrence (A)	Number of occurrences per year (B)	EPA hours per occurrence per year (C=AxB)	Technical hours per year (D=C)	Management hours per year (E=Dx0.05)	Clerical hours per year (F=Dx0.1)	Costs, \$ ^L (H)	Footnotes
1. Read and understand rule requirements	40	60	2,400	2,400	120	240	\$124,379	a
2. Enter and update information into agency recordkeeping system	2	92,465	184,930	184,930	9,247	18,493	\$9,583,905	b
3. Required activities								
A. Observe initial stack/performance test	40	33	1,320	1,320	66	132	\$68,408	c
B. Observe repeat performance test	40	17	680	680	34	68	\$35,241	d
C. Review operating parameters	2	166	332	332	17	33	\$17,206	e
D. Review continuous parameter monitoring	2	182	364	364	18	36	\$18,864	f
4. Excess Emissions Enforcement Activities and Inspections	24	17	0	0	0	0	\$0	g
5. Notification requirements								
A. Review initial notification that sources are subject to the standard	2	92,465	184,930	184,930	9,247	18,493	\$9,583,905	b
B. Review notification of initial performance tests and review test plan	20	166	3,320	3,320	166	332	\$172,057	e
C. Review notification of compliance status	2	1,129	2,258	2,258	113	226	\$117,020	b
6. Reporting requirements								
A. Review annual compliance report	4	91	364	364	18	36	\$18,864	h
B. Review biennial compliance report	2	519	1,038	1,038	52	104	\$53,794	i
C. Review initial report on results of energy audit	2	0	0	0	0	0	\$0	j
7. Travel Expenses for Tests Attended	3 days * (\$110 hotel + \$58 meals/incidentals) + (\$600 round trip) = \$1104 per trip						\$55,200	k
TOTAL BURDEN AND COST (SALARY)				381,936	19,097	38,194	\$19,848,842	
TOTAL ANNUAL HOURS						439,226		

a Number of occurrences is the number of states where affected sources will exist and each EPA Region (50 states + 10 EPA regions = 60 respondents).

b Number of occurrences is based on the total number of affected facilities in year 1 that are required to submit initial notifications stated they are subject to the standard (all new boilers in the large and small solid and liquid subcategories, plus all existing large and small solid and liquid subcategories). For initial notifications of compliance status, the number of occurrences is based on all new boilers in the large and small solid and liquid subcategories, existing large and small solid and liquid units have until year 3 to submit this notification.

c Number of occurrences is based on the assumption that EPA personnel will observe 20% of the initial performance tests that occur in year 1 (in year 1 only boilers in new large and small solid and liquid subcategories test).

d Number of occurrences is based on the assumption that of the units that test in year 1, 10% will have to retest and EPA personnel will observe all these retests.

e Number of occurrences is based on the number of units that will test and set/submit operating limits in year 1 (in year 1 only new boilers in new large and small solid and liquid subcategories).

f Number of occurrences begins in year 3 for existing units and in year 1 for new units and is based on the number of units maintaining records of control device parameters.

g Number of occurrences is based on the assumption that of the new units in year 1 that test, 10% of them will have exceedances and need enforcement.

h Number of occurrences is the number of projected new units in years 1, 2, and 3 that will submit these semi-annual compliance reports (new units in the large and small solid and liquid subcategories) as well as existing large solid and liquid units that will begin to submit compliance reports in year 3.

i Number of occurrences is the number of units in year 1 that will submit these biennial compliance reports (existing small solid and liquid subcategories).

j Energy audits only occur at existing facilities with large units.

k Total cost is based on the number of trips taken by EPA to observe performance tests in year 1 (4.A. & 4.B.) multiplied by \$1104 per trip. The source for hotel and meals/incidental costs is based on FY' 10 per diem rates, averaged across all locations in the United States. Airfares are estimated based on experience from other rulemakings. See: http://www.gsa.gov/Portal/gsa/ep/contentView.do?contentId=17943&contentType=GSA_BASIC

L These rates are from the Office of Personnel Management (OPM), 2010 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. These rates can be obtained from the OPM web site, <http://www.opm.gov/oca/payrates/index/htm>.

**Table 9.B. Annual Federal Government Burden and Cost of Recordkeeping and Reporting
for the Industrial, Commercial, and Institutional Boilers Area Source NESHAP Subpart JJJJJJ- Year 2 - Second Year After Promulgation**

Burden Item	EPA hours per occurrence (A)	Number of occurrences per year (B)	EPA hours per occurrence per year (C=AxB)	Technical hours per year (D=C)	Management hours per year (E=Dx0.05)	Clerical hours per year (F=Dx0.1)	Costs, \$ ¹ (H)	Footnotes
1. Read and understand rule requirements	40	0	0	0	0	0	\$0	a
2. Enter and update information into agency recordkeeping	2	1,129	2,258	2,258	113	226	\$117,020	b
3. Required activities								
A. Observe initial stack/performance test	40	148	5,920	5,920	296	592	\$306,801	c
B. Observe repeat performance test	40	74	2,960	2,960	148	296	\$153,401	d
C. Review operating parameters	2	740	1,480	1,480	74	148	\$76,700	e
D. Review continuous parameter monitoring	2	364	728	728	36	73	\$37,728	f
4 Excess Emissions Enforcement Activities and Inspections	24	45	0	0	0	0	\$0	g
5 Notification requirements								
A. Review initial notification that sources are subject to the standard	2	1,129	2,258	2,258	113	226	\$117,020	b
B. Review notification of initial performance tests and review test plan	20	453	9,060	9,060	453	906	\$469,530	e
C. Review notification of compliance status	2	1,129	2,258	2,258	113	226	\$117,020	b
6. Reporting requirements			0	0	0	0	\$0	
A. Review annual compliance report	4	182	728	728	36	73	\$37,728	h
B. Review biennial compliance report	2	1,038	2,076	2,076	104	208	\$107,588	i
C. Review initial report on results of energy audit	2	6,635	13,270	13,270	664	1,327	\$687,711	j
7. Travel Expenses for Tests Attended	3 days * (\$110 hotel + \$58 meals/incidentals) + (\$600 round trip) = \$1104 per trip						\$245,088	k
TOTAL BURDEN AND COST (SALARY)				42,996	2,150	4,300	\$2,473,334	
TOTAL ANNUAL HOURS						49,445		

a Number of occurrences is the number of states where affected sources will exist and each EPA Region (50 states + 10 EPA regions = 60 respondents).

b Number of occurrences is based on the total number of affected facilities in year 1 that are required to submit initial notifications stated they are subject to the standard (all new boilers in the large and small solid and liquid subcategories, plus all existing large and small solid and liquid subcategories). For initial notifications of compliance status, the number of occurrences is based on all new boilers in the large and small solid and liquid subcategories, existing large and small solid and liquid units have until year 3 to submit this notification.

c Number of occurrences is based on the assumption that EPA personnel will observe 20% of the initial performance tests that occur in year 1 (in year 1 only boilers in new large and small solid and liquid subcategories test).

d Number of occurrences is based on the assumption that of the units that test in year 1, 10% will have to retest and EPA personnel will observe all these retests.

e Number of occurrences is based on the number of units that will test and set/submit operating limits in year 1 (in year 1 only new boilers in new large and small solid and liquid subcategories).

f Number of occurrences begins in year 3 for existing units and in year 1 for new units and is based on the number of units maintaining records of control device parameters.

g Number of occurrences is based on the assumption that of the new units in year 1 that test, 10% of them will have exceedances and need enforcement. A number of occurrences is the number of projected new units in years 1, 2, and 3 that will submit these semi-annual compliance reports (new units in the large and small solid and liquid subcategories) as well as existing large solid and liquid units that will begin to submit compliance reports in year 3.

i Number of occurrences is the number of units in year 2 that will submit these biennial compliance reports (existing small solid and liquid subcategories).

j Energy audits only occur at existing facilities with large units.

**Table 9.C. Annual Federal Government Burden and Cost of Recordkeeping and Reporting
for the Industrial, Commercial, and Institutional Boilers Area Source NESHAP Subpart JJJJJJ- Year 3 - Third Year After Promulgation**

Burden Item	EPA hours per occurrence (A)	Number of occurrences per year (B)	EPA hours per occurrence per year (C=AxB)	Technical hours per year (D=C)	Management hours per year (E=Dx0.05)	Clerical hours per year (F=Dx0.1)	Costs, \$ ¹ (H)	Footnotes
1. Read and understand rule requirements	40	0	0	0	0	0	\$0	a
2. Enter and update information into agency recordkeeping system	2	1,132	2,264	2,264	113	226	\$117,331	b
3. Required activities								
A. Observe initial stack/performance test	40	148	5,920	5,920	296	592	\$306,801	c
B. Observe repeat performance test	40	74	2,960	2,960	148	296	\$153,401	d
C. Review operating parameters	2	738	1,476	1,476	74	148	\$76,493	e
D. Review continuous parameter monitoring	2	1,120	2,240	2,240	112	224	\$116,087	f
4 Excess Emissions Enforcement Activities and Inspections	24	45	0	0	0	0	\$0	g
5 Notification requirements								
A. Review initial notification that sources are subject to the standard	2	1,132	2,264	2,264	113	226	\$117,331	b
B. Review notification of initial performance tests and review test plan	20	452	9,040	9,040	452	904	\$468,493	e
C. Review notification of compliance status	2	92,468	184,936	184,936	9,247	18,494	\$9,584,216	b
6. Reporting requirements			0	0	0	0	\$0	
A. Review annual compliance report	4	561	2,244	2,244	112	224	\$116,294	h
B. Review biennial compliance report	2	47,083	94,165	94,165	4,708	9,417	\$4,880,054	i
C. Review initial report on results of energy audit	2	6,633	13,266	13,266	663	1,327	\$687,504	j
7. Travel Expenses for Tests Attended	3 days * (\$110 hotel + \$58 meals/incidentals) + (\$600 round trip) = \$1104 per trip						\$245,088	k
TOTAL BURDEN AND COST (SALARY)				320,775	16,039	32,078	\$16,869,092	
TOTAL ANNUAL HOURS						368,891		

a Number of occurrences is zero, as this burden was a one time requirement and it was assigned to year 1.

b Number of occurrences is based on the total number of affected facilities in year 3 that are required to submit initial notifications (all new boilers in the large and small solid and liquid subcategories).

c Number of occurrences is based on the assumption that EPA personnel will observe 20% of the initial performance tests that occur in year 3 (in year 3 only boilers in new large and small solid and liquid subcategories test).

d Number of occurrences is based on the assumption that of the units that test in year 3, 10% will have to retest and EPA personnel will observe all these retests.

e Number of occurrences is based on the number of units that will test and set/submit operating limits in year 3 (in year 3 only boilers in new large and small solid and liquid and half of existing large solid and liquid subcategory).

f Number of occurrences begins in year 3 for existing units and in year 1 for new units and is based on the number of units maintaining records of control device parameters.

g Number of occurrences is based on the assumption that of the new units in year 3 that test, 10% of them will have exceedances and need enforcement.

h Number of occurrences is the number of projected new units in years 1, 2, and 3 that will submit these semi-annual compliance reports (new units in the large and small solid and liquid subcategories) as well as existing large solid and liquid units that will begin to submit compliance reports in year 3.

i Number of occurrences is the number of units in year 3 that will submit these biennial compliance reports (existing small solid and liquid subcategories).

j Energy audits only occur at existing facilities with large units.

k Total cost is based on the number of trips taken by EPA to observe performance tests in year 1 (4.A. & 4.B.) multiplied by \$1104 per trip. The source for hotel and meals/incidental costs is based on FY' 10 per diem rates, averaged across all locations in the United States. Airfares are estimated based on experience from other rulemakings. See: http://www.gsa.gov/Portal/gsa/ep/contentView.do?contentId=17943&contentType=GSA_BASIC

L These rates are from the Office of Personnel Management (OPM), 2010 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. These rates can be obtained from the OPM web site, <http://www.opm.gov/oca/payrates/index/htm>.