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	4,671,830	92,467	98,117	34,089,400	227,473	Year 1	98,117	4,899,304	$ 34,089,400
Year 2	932,910	2,260	9,040	264,809,555	534,725	Year 2	9,040	1,467,635	$ 264,809,555
Year 3	2,507,141	94,729	164,901	345,703,741	1,842,297	Year 3	164,901	4,349,439	$ 345,703,741
Overall Average Annual Estimates	2,703,961	63,152	90,686	214,867,565	868,165	Overall Average Annual Estimates	90,686	3,572,126	$ 214,867,565
Avg. Cost per Response				$ 2,369					
Avg. Burden Hours per Response	29.82			9.5733					

Paperwork Preamble SUMMARY- Industry	3-year total	ALL SECTORS annual average	Private Sector annual average	Public Sector annual average
Total HOURS	10,716,377	3,572,126	1,750,342	1,821,784
TOTAL COSTS (non-labor)	$ 644,602,696	$ 214,867,565	$ 105,285,107	$ 109,582,458
Total LABOR COSTS	$ 1,009,448,122	$ 336,482,707	$ 164,876,527	$ 171,606,181
TOTAL LABOR AND NON-Labor COSTS	$ 1,654,050,818	$ 551,350,273	$ 270,161,634	$ 281,188,639
		Small Entity Respondents per year	30,016	31,241
		Total Respondents per year	30,944	32,207

AGENCY Burden	Hours	Costs (labor + travel)
Year 1	707,354	$ 33,394,953
Year 2	479,994	$ 25,410,475
Year 3	1,114,861	$ 54,022,261
Total	2,302,208	$ 112,827,689
Annual Average	767,403	$ 37,609,230

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 Occurrenc e	(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) Manageme nt Hours per Year @ $114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non-Labor Capital Costs	(M) Total Non-Labor Annual Costs	(N) 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	80,780	8,078	4,039	$8,787,046	$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. Initial Stack Test and Report (for Hg)	12	$0	$5,000	$0	1	12	0	0	0	0	$0	$0	$0		c
3. Initial Performance 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
5. Annual Performance 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		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
CO (only sources greater than 100 mmBtu/hr)															
a) initial	10	$0	$0	$160,900	1	10	0	0	0	0	$0	$0	$0		c,f
b) annual	10	$0	$0	$53,600	1	10	0	0	0	0	$0	$0	$0		c
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
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	4,039	404	202	$439,352	$0	$0	2,020	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	0	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	0	b, c, d
4) Semi-annual Compliance Report	20	$0	$0	$0	2	40	0	0	0	0	$0	$0	$0	0	a
Reporting Subtotal								84,819	8,482	4,241	9,226,399	0	0	2,020	i
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	0	c
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	0	0	0	0	$0	$0	$0	0	c
3) Records of Stack Tests	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	$0	0	c
4) Records of Monitoring Device Calibrations	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	$0	0	c
5) Records of All Compliance Reports Submitted	2	$0	$0	$0	2	4	0	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	0	c,g
E. Personnel Training	na														
F. Time for Audits	na														
Recordkeeping Subtotal								0	0	0	$0	$0	$0	0	i
Totals								**84,819**	**8,482**	**4,241**	**$9,226,399**	**$0**	**$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, no burden is assumed in year 1.

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 Only the number of new large solid fuel units with a rated heat input capacity of 100 mmBtu/hr or greater are subject to continuous monitoring requirements and records of monitoring device calibrations.

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

h Only units between 10 and 100 mmBtu/hr are expected to perform stack testing for CO. Units greater than 100 mmBtu/hr will be equipped with a continuous CO monitor

i The burdens for monitoring are included in the recordkeeping subtotal

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 Capital Costs	(M) Total Non-Labor Annual Costs	(N) 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	$0	$3,694,984		b, c, d
b) Commercial	20	$854	$0	$0	1	20	1,818	36,360	3,636	1,818	$3,955,150	$0	$1,552,572		b, c, d
2. Initial Stack Test and Report (for Hg)	12	$0	$5,000	$0	1	12	287	3,444	344	172	$374,630	$0	$1,435,000		c
3. Initial Performance Test and Report (for CO)	12	$0	$6,000	$0	1	12	1,996	23,952	2,395	1,198	$2,605,439	$0	$11,976,000		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
5. Annual Performance 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	$1	$0		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	1,010	40,400	4,040	2,020	$4,394,611	$0	$0		c
CO (only sources greater than 100 mmBtu/hr)															
a) initial	10	$0	$0	$160,900	1	10	24	240	24	12	$26,107	$3,861,600	$3,861,600		c,f
b) annual	10	$0	$0	$53,600	1	10	24	240	24	12	$26,107	$0	$1,286,400		c
Bag Leak Detection System Operation (all sources that have fabric filters)															
a) initial	10	$0	$0	$25,500	1	10	161	1,610	161	81	$175,132	$4,105,500	$4,105,500		c
b) annual	10	$0	$0	$9,700	1	10	161	1,610	161	81	$175,132	$0	$1,561,700		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	0	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	0	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	0	b, c, d
4) Semi-annual Compliance Report	20	$0	$0	$0	2	40	0	0	0	0	$0	$0	$0	0	c
Reporting Subtotal								67,796	6,780	3,390	7,374,679	1	18,658,556	0	i
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	0	c
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	0	0	0	0	$0	$0	$0	0	c
3) Records of Stack Tests	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	$0	0	c
4) Records of Monitoring Device Calibrations	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	$0	0	c
5) Records of All Compliance Reports Submitted	2	$0	$0	$0	2	4	0	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	0	c,g
E. Personnel Training	na														
F. Time for Audits	na														
Recordkeeping Subtotal								44,100	4,410	2,205	$4,797,088	$7,967,100	$10,815,200	0	i
Totals								**111,896**	**11,190**	**5,595**	**$12,171,767**	**$7,967,101**	**$29,473,756**	**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 Only the number of new large solid fuel units with a rated heat input capacity of 100 mmBtu/hr or greater are subject to continuous monitoring requirements and records of monitoring device calibrations.

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

h Only units between 10 and 100 mmBtu/hr are expected to perform stack testing for CO. Units greater than 100 mmBtu/hr will be equipped with a continuous CO monitor

i The burdens for monitoring are included in the recordkeeping subtotal

j Only coal boilers are subject to numerical mercury limits and are required to test for mercury.

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 Capital Costs	(M) Total Non-Labor Annual Costs	(N) 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	$0	$3,694,984		b, c, d
b) Commercial	20	$854	$0	$0	1	20	1,818	36,360	3,636	1,818	$3,955,150	$0	$1,552,572		b, c, d
2. Initial Stack Test and Report (for Hg)	12	$0	$5,000	$0	1	12	287	3,444	344	172	$374,630	$0	$1,435,000		c, j
3. Initial Performance Test and Report (for CO)	12	$0	$6,000	$0	1	12	1,996	23,952	2,395	1,198	$2,605,439	$0	$11,976,000		c,h
4. Annual Stack Test and Report (for Hg)	12	$0	$5,000	$0	1	12	287	3,444	344	172	$374,630	$0	$1,435,000		c, j
5. Annual Performance Test and Report (for CO)	12	$0	$6,000	$0	1	12	1,996	23,952	2,395	1,198	$2,605,439	$0	$11,976,000		c,h
6. Initial Fuel Analysis for Mercury Content	5	$0	$200	$0	1	5	0	0	0	0	$0	$1	$0		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	1,010	40,400	4,040	2,020	$4,394,611	$0	$0		c
CO (only sources greater than 100 mmBtu/hr)															
a) initial	10	$0	$0	$160,900	1	10	24	240	24	12	$26,107	$3,861,600	$3,861,600		c,f
b) annual	10	$0	$0	$53,600	1	10	24	240	24	12	$26,107	$0	$1,286,400		c
Bag Leak Detection System Operation (all sources that have fabric filters)															
a) initial	10	$0	$0	$25,500	1	10	161	1,610	161	81	$175,132	$4,105,500	$4,105,500		c
b) annual	10	$0	$0	$9,700	1	10	322	3,220	322	161	$350,264	$0	$3,123,400		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	0	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	2,020	16,160	1,616	808	$1,757,844	$0	$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	$0	2,020	b,c,d
4) Semi-annual Compliance Report	20	$0	$0	$0	2	40	2,020	80,800	8,080	4,040	$8,789,222	$0	$0	4,040	c
Reporting Subtotal								202,252	20,225	10,113	22,000,467	1	32,069,556	8,080	i
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	4,039	80,780	8,078	4,039	$8,787,046	$0	$0	4,039	c
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	4,039	60,585	6,059	3,029	$6,590,285	$0	$0	4,039	c
3) Records of Stack Tests	2	$0	$0	$0	1	2	4,039	8,078	808	404	$878,705	$0	$0	4,039	c
4) Records of Monitoring Device Calibrations	2	$0	$0	$0	1	2	4,039	8,078	808	404	$878,705	$0	$0	4,039	c
5) Records of All Compliance Reports Submitted	2	$0	$0	$0	2	4	2,020	8,080	808	404	$878,922	$0	$0	4,040	c
6) Records of Monthly Fuel Use	0.5	$0	$0	$0	12	6	4,039	24,234	2,423	1,212	$2,636,114	$0	$0	48,468	c,g
E. Personnel Training	na														
F. Time for Audits	na														
Recordkeeping Subtotal								235,545	23,555	11,777	$25,621,996	$7,967,100	$12,376,900	68,664	i
Totals								**437,797**	**43,780**	**21,890**	**$47,622,463**	**$7,967,101**	**$44,446,456**	**76,744**	

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 Only the number of new large solid fuel units with a rated heat input capacity of 100 mmBtu/hr or greater are subject to continuous monitoring requirements and records of monitoring device calibrations.

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

h Only units between 10 and 100 mmBtu/hr are expected to perform stack testing for CO. Units greater than 100 mmBtu/hr will be equipped with a continuous CO monitor

i The burdens for monitoring are included in the recordkeeping subtotal

j Only coal boilers are subject to numerical mercury limits and are required to test for mercury.

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) 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 Capital Costs	(M) Total Non-Labor Annual Costs	(N) 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. Initial Performance Test and Report (for CO)	12	$0	$6,000	$0	1	12	0	0	0	0	$0	$0	$0		c,h
3. Annual Performance Test and Report (for CO)	12	$0	$6,000	$0	1	12	0	0	0	0	$0	$0	$0		c,h
4. Continuous Parameter Monitoring															
Establish Site-specific monitoring plan (all)	40	$0		$0	1	40	0	0	0	0	$0	$0	$0		c
CO (only sources greater than 100 mmBtu/hr)															
a) initial	10	$0	$0	$160,900	1	10	0	0	0	0	$0	$0	$0		c,f
b) annual	10	$0	$0	$53,600	1	10	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	$0	4,615	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	0	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	0	c
4) Semi-annual Compliance Report	20	$0	$0	$0	2	40	0	0	0	0	$0	$0	$0	0	a
Reporting Subtotal								193,830	19,383	9,692	21,084,343	0	0	4,615	i
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	0	c
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	0	0	0	0	$0	$0	$0	0	c
3) Records of Stack Tests	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	$0	0	c,g
4) Records of Monitoring Device Calibrations	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	$0	0	c
5) Records of All Compliance Reports Submitted	2	$0	$0	$0	2	4	0	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	0	c
E. Personnel Training	na														
F. Time for Audits	na														
Recordkeeping Subtotal								0	0	0	$0	$0	$0	0	i
Totals								**193,830**	**19,383**	**9,692**	**$21,084,343**	**$0**	**$0**	**4,615**	

a Number of respondents based on number of existing large liquid 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, no burden is assumed in year 1.

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 Only the number of existing large liquid fuel units with a rated heat input capacity of 100 mmBtu/hr or greater are subject to continuous monitoring requirements and records of monitoring device calibrations.

g Existing large liquid units are expected to determine compliance through fuel analysis instead of stack testing

h Only units greater than 100 mmBtu/hr will be equipped with a continuous CO monitor

i The burdens for monitoring are included in the recordkeeping subtotal

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) 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 Capital Costs	(M) Total Non-Labor Annual Costs	(N) 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	462	9,230	923	462	$1,004,016	$0	$8,441,758		b, c, d
b) Commercial	20	$854	$0	$0	1	20	4,154	83,070	8,307	4,154	$9,036,147	$0	$3,547,089		b, c, d
2. Initial Performance Test and Report (for CO)	12	$0	$6,000	$0	1	12	4,545	54,540	5,454	2,727	$5,932,725	$0	$27,270,000		c,h
3. Annual Performance Test and Report (for CO)	12	$0	$6,000	$0	1	12	0	0	0	0	$0	$0	$0		c,h
4. Continuous Parameter Monitoring															
Establish Site-specific monitoring plan (all)	40	$0		$0	1	40	2,307	92,280	9,228	4,614	$10,037,988	$0	$0		c
CO (only sources greater than 100 mmBtu/hr)															
a) initial	10	$0	$0	$160,900	1	10	70	700	70	35	$76,144	$11,263,000	$11,263,000		c,f
b) annual	10	$0	$0	$53,600	1	10	70	700	70	35	$76,144	$0	$3,752,000		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	0	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	0	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	0	c
4) Semi-annual Compliance Report	20	$0	$0	$0	2	40	0	0	0	0	$0	$0	$0	0	a
Reporting Subtotal								146,840	14,684	7,342	15,972,888	0	39,258,847	0	i
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	0	c
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	0	0	0	0	$0	$0	$0	0	c
3) Records of Stack Tests	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	$0	0	c,g
4) Records of Monitoring Device Calibrations	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	$0	0	c
5) Records of All Compliance Reports Submitted	2	$0	$0	$0	2	4	0	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	0	c
E. Personnel Training	na														
F. Time for Audits	na														
Recordkeeping Subtotal								93,680	9,368	4,684	$10,190,276	$11,263,000	$15,015,000	0	i
Totals								**240,520**	**24,052**	**12,026**	**$26,163,164**	**$11,263,000**	**$54,273,847**	**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 Only the number of new large liquid fuel units with a rated heat input capacity of 100 mmBtu/hr or greater are subject to continuous monitoring requirements and records of monitoring device calibrations.

g Existing large liquid units are expected to determine compliance with the mercury limit through fuel analysis not stack testing

h Only units between 10 and 100 mmBtu/hr are expected to perform stack testing for CO. Units greater than 100 mmBtu/hr will be equipped with a continuous CO monitor

i The burdens for monitoring are included in the recordkeeping subtotal

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) 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 Capital Costs	(M) Total Non-Labor Annual Costs	(N) 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	462	9,230	923	462	$1,004,016	$0	$8,441,758		b, c, d
b) Commerical	20	$854	$0	$0	1	20	4,154	83,070	8,307	4,154	$9,036,147	$0	$3,547,089		b, c, d
2. Initial Performance Test and Report (for CO)	12	$0	$6,000	$0	1	12	4,545	54,540	5,454	2,727	$5,932,725	$0	$27,270,000		c,h
3. Annual Performance Test and Report (for CO)	12	$0	$6,000	$0	1	12	0	0	0	0	$0	$0	$0		c,h
4. Continuous Parameter Monitoring															
Establish Site-specific monitoring plan (all)	40	$0		$0	1	40	2,307	92,280	9,228	4,614	$10,037,988	$0	$0		c
CO (only sources greater than 100 mmBtu/hr)															
a) initial	10	$0	$0	$160,900	1	10	70	700	70	35	$76,144	$11,263,000	$11,263,000		c,f
b) annual	10	$0	$0	$53,600	1	10	70	700	70	35	$76,144	$0	$3,752,000		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	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	$0	4,615	c
3) Initial Report on results of Energy Audit	5	$0	$0	$0	1	5	4,615	23,075	2,308	1,154	$2,510,041	$0	$0	4,615	c
4) Semi-annual Compliance Report	20	$0	$0	$0	2	40	4,615	184,600	18,460	9,230	$20,080,327	$0	$0	9,230	a
Reporting Subtotal								391,435	39,144	19,572	42,579,321	0	39,258,847	18,460	i
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	9,229	184,580	18,458	9,229	$20,078,151	$0	$0	9,229	c
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	9,229	138,435	13,844	6,922	$15,058,613	$0	$0	9,229	c
3) Records of Stack Tests	2	$0	$0	$0	1	2	9,229	18,458	1,846	923	$2,007,815	$0	$0	9,229	c,g
4) Records of Monitoring Device Calibrations	2	$0	$0	$0	1	2	9,229	18,458	1,846	923	$2,007,815	$0	$0	9,229	c
5) Records of All Compliance Reports Submitted	2	$0	$0	$0	2	4	4,615	18,460	1,846	923	$2,008,033	$0	$0	9,230	c
6) Records of Monthly Fuel Use	0.5	$0	$0	$0	12	6	9,229	55,374	5,537	2,769	$6,023,445	$0	$0	110,748	c
E. Personnel Training	na														
F. Time for Audits	na														
Recordkeeping Subtotal								527,445	52,745	26,372	$57,374,148	$11,263,000	$15,015,000	156,894	i
Totals								**918,880**	**91,888**	**45,944**	**$99,953,469**	**$11,263,000**	**$54,273,847**	**175,354**	

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 commerical. It is assumed that 10% will be industrial and 90% will be commerical 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 Only the number of new large liquid fuel units with a rated heat input capacity of 100 mmBtu/hr or greater are subject to continuous monitoring requirements and records of monitoring device calibrations.

g Existing large liquid units are expected to determine compliance with the mercury limit through fuel analysis not stack testing

h Only units between 10 and 100 mmBtu/hr are expected to perform stack testing for CO. Units greater than 100 mmBtu/hr will be equipped with a continous CO monitor

i The burdens for monitoring are included in the recordkeeping subtotal

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) Management Hours per Year @ $114.49 (H X .05)	(J) Total Labor Costs Per Year	(K) Total Non-Labor Capital Cost	(L) Total Non-Labor Annual Cost	(M) 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, j
3. Initial Performance Test and Report (for CO)	12	$6,000	$0	1	12	4	48	5	2	$5,221	$24,000	$0		b, d
4. Annual Stack Test and Report (for PM)	12	$8,000	$0	1	12	0	0	0	0	$0	$0	$0		e
5. Annual Stack Test and Report (for Hg)	12	$5,000	$0	1	12	0	0	0	0	$0	$0	$0		b, c, j
6. Annual Performance Test and Report (for CO)	12	$6,000	$0	1	12	0	0	0	0	$0	$0	$0		d, e
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, e
9. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	$0	$0	1	40	10	400	40	20	$43,511	$0	$0		f
Opacity														
a) initial	10	$0	$43,100	1	10	4	40	4	2	$4,351	$172,400	$172,400		h
b) annual	10	$0	$14,700	1	10	4	40	4	2	$4,351	$0	$58,800		h
CO (only sources greater than 100 mmBtu/hr)														
a) initial	10	$0	$160,900	1	10	16	160	16	8	$17,404	$2,574,400	$2,574,400		g
b) annual	10	$0	$53,600	1	10	16	160	16	8	$17,404	$0	$857,600		g
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		h
b) annual	10	$0	$9,700	1	10	0	0	0	0	$0	$0	$0		h
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	$0	10	a, b
2) Notification of Initial Stack Test	8	$0	$0	1	8	10	80	8	4	$8,702	$0	$0	10	a, b
3) Report Established Values for Site-specific Operating Parameters (all)	see 3.E.6													
4) Notification of Compliance Status	40	$0	$0	1	40	10	400	40	20	$43,511	$0	$0	10	a, b
5) Startup, Shutdown, Malfunction Plan	40	$0	$0	1	40	10	400	40	20	$43,511	$0	$0	10	a, b
6) Semi-annual Compliance Report	20	$0	$0	2	40	10	400	40	20	$43,511	$0	$0	20	a
Reporting Subtotal							1,796	180	90	$195,364	$56,000	$0	60	i
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	20	a
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	1	15	20	300	30	15	$32,633	$0	$0	20	a
3) Records of Stack Tests	2	$0	$0	1	2	20	40	4	2	$4,351	$0	$0	20	a
4) Records of Monitoring Device Calibrations	2	$0	$0	1	2	16	32	3	2	$3,481	$0	$0	16	g
5) Records of All Compliance Reports Submitted	2	$0	$0	2	4	20	80	8	4	$8,702	$0	$0	40	a
6) Records of Monthly Fuel Use	0.5	$0	$0	12	6	20	120	12	6	$13,053	$0	$0	240	a
E. Personnel Training	na													
F. Time for Audits	na													
Subtotal Recordkeeping							1,772	177	89	$192,754	$2,746,800	$3,663,200	356	i
Totals							**3,568**	**357**	**178**	**$388,118**	**$2,802,800**	**$3,663,200**	**416**	

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 This NESHAP provides a compliance option to conduct a fuel analysis once every five years, if a unit burns the same kind of fuel, or re-conduct a fuel analysis if a unit changes fuel type. All projected large solid fuel units expected to comply through stack testing instead of the fuel testing compliance option, see note a for the derivation of the number of units per year. 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 All new large solid fuel units must conduct an initial test for CO, see note a for the derivation of the number of units per year.

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

f 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.

g Only the number of new large solid fuel units with a rated heat input capacity of 100 mmBtu/hr or greater are subject to continuous monitoring requirements and records of monitoring device calibrations.

h 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.

i The burdens for monitoring are included in the recordkeeping subtotal

j Only coal boilers are subject to numerical mercury limits and are required to test for mercury. 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) Management Hours per Year @ $114.49 (H X .05)	(J) Total Labor Costs Per Year	(K) Total Non-Labor Capital Cost	(L) Total Non-Labor Annual Cost	(M) 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, j
3. Initial Performance Test and Report (for CO)	12	$6,000	$0	1	12	4	48	5	2	$5,221	$24,000	$0		b, d
4. Annual Stack Test and Report (for PM)	12	$8,000	$0	1	12	4	48	5	2	$5,221	$32,000	$32,000		e
5. Annual Stack Test and Report (for Hg)	12	$5,000	$0	1	12	0	0	0	0	$0	$0	$0		b, c, j
6. Annual Performance Test and Report (for CO)	12	$6,000	$0	1	12	4	48	5	2	$5,221	$24,000	$24,000		d, e
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, e
9. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	$0	$0	1	40	10	400	40	20	$43,511	$0	$0		f
Opacity														
a) initial	10	$0	$43,100	1	10	4	40	4	2	$4,351	$172,400	$172,400		h
b) annual	10	$0	$14,700	1	10	4	40	4	2	$4,351	$0	$58,800		h
CO (only sources greater than 100 mmBtu/hr)														
a) initial	10	$0	$160,900	1	10	16	160	16	8	$17,404	$2,574,400	$2,574,400		g
b) annual	10	$0	$53,600	1	10	32	320	32	16	$34,809	$0	$1,715,200		g
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		h
b) annual	10	$0	$9,700	1	10	0	0	0	0	$0	$0	$0		h
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	$0	10	a, b
2) Notification of Initial Stack Test	8	$0	$0	1	8	10	80	8	4	$8,702	$0	$0	10	a, b
3) Report Established Values for Site-specific Operating Parameters (all)	see 3.E.6													
4) Notification of Compliance Status	40	$0	$0	1	40	10	400	40	20	$43,511	$0	$0	10	a, b
5) Startup, Shutdown, Malfunction Plan	40	$0	$0	1	40	10	400	40	20	$43,511	$0	$0	10	a, b
6) Semi-annual Compliance Report	20	$0	$0	2	40	20	800	80	40	$87,022	$0	$0	40	a
Reporting Subtotal							2,292	229	115	$249,318	$112,000	$56,000	80	i
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	40	a
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	1	15	40	600	60	30	$65,267	$0	$0	40	a
3) Records of Stack Tests	2	$0	$0	1	2	40	80	8	4	$8,702	$0	$0	40	a
4) Records of Monitoring Device Calibrations	2	$0	$0	1	2	32	64	6	3	$6,962	$0	$0	32	g
5) Records of All Compliance Reports Submitted	2	$0	$0	2	4	40	160	16	8	$17,404	$0	$0	80	a
6) Records of Monthly Fuel Use	0.5	$0	$0	12	6	40	240	24	12	$26,107	$0	$0	480	a
E. Personnel Training	na													
F. Time for Audits	na													
Subtotal Recordkeeping							2,904	290	145	$315,890	$2,746,800	$4,520,800	712	i
Totals							**5,196**	**520**	**260**	**$565,208**	**$2,858,800**	**$4,576,800**	**792**	

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 This NESHAP provides a compliance option to conduct a fuel analysis once every five years, if a unit burns the same kind of fuel, or re-conduct a fuel analysis if a unit changes fuel type. All projected large solid fuel units expected to comply through stack testing instead of the fuel testing compliance option, see note a for the derivation of the number of units per year. 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 All new large solid fuel units must conduct an initial test for CO, see note a for the derivation of the number of units per year.

e 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.

f 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.

g Only the number of new large solid fuel units with a rated heat input capacity of 100 mmBtu/hr or greater are subject to continuous monitoring requirements and records of monitoring device calibrations

h 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.

i The burdens for monitoring are included in the recordkeeping subtotal

j Only coal boilers are subject to numerical mercury limits and are required to test for mercury. 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) Management Hours per Year @ $114.49 (H X .05)	(J) Total Labor Costs Per Year	(K) Total Non-Labor Capital Cost	(L) Total Non-Labor Annual Cost	(M) 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, j
3. Initial Performance Test and Report (for CO)	12	$6,000	$0	1	12	4	48	5	2	$5,221	$24,000	$0		b, d
4. Annual Stack Test and Report (for PM)	12	$8,000	$0	1	12	8	96	10	5	$10,443	$64,000	$64,000		e
5. Annual Stack Test and Report (for Hg)	12	$5,000	$0	1	12	0	0	0	0	$0	$0	$0		b, c, j
6. Annual Performance Test and Report (for CO)	12	$6,000	$0	1	12	8	96	10	5	$10,443	$48,000	$48,000		d, e
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, e
9. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	$0	$0	1	40	10	400	40	20	$43,511	$0	$0		f
Opacity														
a) initial	10	$0	$43,100	1	10	4	40	4	2	$4,351	$172,400	$172,400		h
b) annual	10	$0	$14,700	1	10	4	40	4	2	$4,351	$0	$58,800		h
CO (only sources greater than 100 mmBtu/hr)														
a) initial	10	$0	$160,900	1	10	16	160	16	8	$17,404	$2,574,400	$2,574,400		g
b) annual	10	$0	$53,600	1	10	48	480	48	24	$52,213	$0	$2,572,800		g
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		h
b) annual	10	$0	$9,700	1	10	0	0	0	0	$0	$0	$0		h
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	$0	10	a, b
2) Notification of Initial Stack Test	8	$0	$0	1	8	10	80	8	4	$8,702	$0	$0	10	a, b
3) Report Established Values for Site-specific Operating Parameters (all)	see 3.E.6													
4) Notification of Compliance Status	40	$0	$0	1	40	10	400	40	20	$43,511	$0	$0	10	a, b
5) Startup, Shutdown, Malfunction Plan	40	$0	$0	1	40	10	400	40	20	$43,511	$0	$0	10	a, b
6) Semi-annual Compliance Report	20	$0	$0	2	40	30	1,200	120	60	$130,533	$0	$0	60	a
Reporting Subtotal							2,788	279	139	$303,272	$168,000	$112,000	100	i
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	60	a
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	1	15	60	900	90	45	$97,900	$0	$0	60	a
3) Records of Stack Tests	2	$0	$0	1	2	60	120	12	6	$13,053	$0	$0	60	a
4) Records of Monitoring Device Calibrations	2	$0	$0	1	2	49	98	10	5	$10,660	$0	$0	49	g
5) Records of All Compliance Reports Submitted	2	$0	$0	2	4	60	240	24	12	$26,107	$0	$0	120	a
6) Records of Monthly Fuel Use	0.5	$0	$0	12	6	60	360	36	18	$39,160	$0	$0	720	a
E. Personnel Training	na													
F. Time for Audits	na													
Subtotal Recordkeeping							4,038	404	202	$439,244	$2,746,800	$5,378,400	1,069	i
Totals							**6,826**	**683**	**341**	**$742,515**	**$2,914,800**	**$5,490,400**	**1,169**	

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 This NESHAP provides a compliance option to conduct a fuel analysis once every five years, if a unit burns the same kind of fuel, or re-conduct a fuel analysis if a unit changes fuel type. All projected large solid fuel units expected to comply through stack testing instead of the fuel testing compliance option, see note a for the derivation of the number of units per year. 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 All new large solid fuel units must conduct an initial test for CO, see note a for the derivation of the number of units per year.

e Subsequent annual testing in year 3 are based on the number of sources that had an initial test in year 1 and 2 of this ICR. Subsequent semi-annual compliance reporting and recordkeeping requirements are based on the number of new sources in years 1-3 of this ICR.

f 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.

g Only the number of new large solid fuel units with a rated heat input capacity of 100 mmBtu/hr or greater are subject to continuous monitoring requirements and records of monitoring device calibrations

h 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.

i The burdens for monitoring are included in the recordkeeping subtotal

j Only coal boilers are subject to numerical mercury limits and are required to test for mercury. 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 Capital Cost	(L) Total Non-Labor Annual Cost	(M) 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. Initial Performance Test and Report (for CO)	12	$6,000	$0	1	12	162	1,944	194	97	$211,463	$972,000	$0		b, d
3. Annual Stack Test and Report (for PM)	12	$8,000	$0	1	12	0	0	0	0	$0	$0	$0		e
4. Annual Performance Test and Report (for CO)	12	$6,000	$0	1	12	0	0	0	0	$0	$0	$0		d, e
5. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	$0	$0	1	40	81	3,240	324	162	$352,439	$0	$0		f
Opacity														
a) initial	10	$0	$43,100	1	10	147	1,470	147	74	$159,903	$6,335,700	$6,335,700		h
b) annual	10	$0	$14,700	1	10	147	1,470	147	74	$159,903	$0	$2,160,900		h
CO (only sources greater than 100 mmBtu/hr)														
a) initial	10	$0	$160,900	1	10	0	0	0	0	$0	$0	$0		g
b) annual	10	$0	$53,600	1	10	0	0	0	0	$0	$0	$0		g
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	$382,500		h
b) annual	10	$0	$9,700	1	10	15	150	15	8	$16,317	$0	$145,500		h
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	$0	81	a, b
2) Notification of Initial Stack Test	8	$0	$0	1	8	81	648	65	32	$70,488	$0	$0	81	a, b
3) Report Established Values for Site-specific Operating Parameters (all)	see 3.E.6													
4) Notification of Compliance Status	40	$0	$0	1	40	81	3,240	324	162	$352,439	$0	$0	81	a, b
5) Startup, Shutdown, Malfunction Plan	40	$0	$0	1	40	81	3,240	324	162	$352,439	$0	$0	81	a, b
6) Semi-annual Compliance Report	20	$0	$0	2	40	81	3,240	324	162	$352,439	$0	$0	162	a
Reporting Subtotal							17,658	1,766	883	$1,920,793	$2,268,000	$0	486	i
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	162	a
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	1	15	162	2,430	243	122	$264,329	$0	$0	162	a
3) Records of Stack Tests	2	$0	$0	1	2	162	324	32	16	$35,244	$0	$0	162	a
4) Records of Monitoring Device Calibrations	2	$0	$0	1	2	162	324	32	16	$35,244	$0	$0	162	g
5) Records of All Compliance Reports Submitted	2	$0	$0	2	4	81	324	32	16	$35,244	$0	$0	162	a
6) Records of Monthly Fuel Use	0.5	$0	$0	12	6	162	972	97	49	$105,732	$0	$0	1,944	a
E. Personnel Training	na													
F. Time for Audits	na						.							
Subtotal Recordkeeping							14,094	1,409	705	$1,533,110	$6,718,200	$9,024,600	2,754	i
Totals							**31,752**	**3,175**	**1,588**	**$3,453,903**	**$8,986,200**	**$9,024,600**	**3,240**	

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 This NESHAP provides a compliance option to conduct a fuel analysis once every five years, if a unit burns the same kind of fuel, or re-conduct a fuel analysis if a unit changes fuel type. 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 All new large liquid fuel units must conduct an initial test for CO, see note a for the derivation of the number of units per year.

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

f 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.

g Only the number of new large liquid fuel units with a rated heat input capacity of 100 mmBtu/hr or greater are subject to continuous monitoring requirements and records of monitoring device calibrations. The is expected to be 0 new boilers under the category.

h All new units greater than 10 mmBtu/hr are expected to install fabric filters and equipped with bag leak detection systems instead of opacity monitors

i The burdens for monitoring are included in the recordkeeping subtotal

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) Management Hours per Year @ $114.49 (H X .05)	(J) Total Labor Costs Per Year	(K) Total Non-Labor Capital Cost	(L) Total Non-Labor Annual Cost	(M) 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. Initial Performance Test and Report (for CO)	12	$6,000	$0	1	12	162	1,944	194	97	$211,463	$972,000	$0		b, d
3. Annual Stack Test and Report (for PM)	12	$8,000	$0	1	12	162	1,944	194	97	$211,463	$1,296,000	$1,296,000		e
4. Annual Performance Test and Report (for CO)	12	$6,000	$0	1	12	162	1,944	194	97	$211,463	$972,000	$972,000		d, e
5. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	$0	$0	1	40	81	3,240	324	162	$352,439	$0	$0		f
Opacity														
a) initial	10	$0	$43,100	1	10	147	1,470	147	74	$159,903	$6,335,700	$6,335,700		h
b) annual	10	$0	$14,700	1	10	294	2,940	294	147	$319,806	$0	$4,321,800		h
CO (only sources greater than 100 mmBtu/hr)														
a) initial	10	$0	$160,900	1	10	0	0	0	0	$0	$0	$0		g
b) annual	10	$0	$53,600	1	10	0	0	0	0	$0	$0	$0		g
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	$382,500		h
b) annual	10	$0	$9,700	1	10	30	300	30	15	$32,633	$0	$291,000		h
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	$0	81	a, b
2) Notification of Initial Stack Test	8	$0	$0	1	8	81	648	65	32	$70,488	$0	$0	81	a, b
3) Report Established Values for Site-specific Operating Parameters (all)	see 3.E.6													
4) Notification of Compliance Status	40	$0	$0	1	40	81	3,240	324	162	$352,439	$0	$0	81	a, b
5) Startup, Shutdown, Malfunction Plan	40	$0	$0	1	40	81	3,240	324	162	$352,439	$0	$0	81	a, b
6) Semi-annual Compliance Report	20	$0	$0	2	40	162	6,480	648	324	$704,878	$0	$0	324	a
Reporting Subtotal							24,786	2,479	1,239	$2,696,159	$4,536,000	$2,268,000	648	i
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	324	a
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	1	15	324	4,860	486	243	$528,659	$0	$0	324	a
3) Records of Stack Tests	2	$0	$0	1	2	324	648	65	32	$70,488	$0	$0	324	a
4) Records of Monitoring Device Calibrations	2	$0	$0	1	2	324	648	65	32	$70,488	$0	$0	324	g
5) Records of All Compliance Reports Submitted	2	$0	$0	2	4	243	972	97	49	$105,732	$0	$0	486	a
6) Records of Monthly Fuel Use	0.5	$0	$0	12	6	324	1,944	194	97	$211,463	$0	$0	3,888	a
E. Personnel Training	na					.								
F. Time for Audits	na													
Subtotal Recordkeeping							23,652	2,365	1,183	$2,572,805	$6,718,200	$11,331,000	5,670	i
Totals							**48,438**	**4,844**	**2,422**	**$5,268,965**	**$11,254,200**	**$13,599,000**	**6,318**	

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 This NESHAP provides a compliance option to conduct a fuel analysis once every five years, if a unit burns the same kind of fuel, or re-conduct a fuel analysis if a unit changes fuel type. All projected large solid fuel units expected to comply through stack testing instead of the fuel testing compliance option, see note a for the derivation of the number of units per year.

d All new large solid fuel units must conduct an initial test for CO, see note a for the derivation of the number of units per year.

e 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. Since fuel analysis is only required once every five years, no burden is assigned in year 2.

f 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.

g Only the number of new large solid fuel units with a rated heat input capacity of 100 mmBtu/hr or greater are subject to continuous monitoring requirements and records of monitoring device calibrations

h All new units greater than 10 mmBtu/hr are expected to install fabric filters and equipped with bag leak detection systems instead of opacity monitors

i The burdens for monitoring are included in the recordkeeping subtotal

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 Capital Cost	(L) Total Non-Labor Annual Cost	(M) 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. Initial Performance Test and Report (for CO)	12	$6,000	$0	1	12	163	1,956	196	98	$212,769	$978,000	$0		b, d
3. Annual Stack Test and Report (for PM)	12	$8,000	$0	1	12	324	3,888	389	194	$422,927	$2,592,000	$2,592,000		e
4. Annual Performance Test and Report (for CO)	12	$6,000	$0	1	12	324	3,888	389	194	$422,927	$1,944,000	$1,944,000		d, e
5. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	$0	$0	1	40	82	3,280	328	164	$356,790	$0	$0		f
Opacity														
a) initial	10	$0	$43,100	1	10	147	1,470	147	74	$159,903	$6,335,700	$6,335,700		h
b) annual	10	$0	$14,700	1	10	441	4,410	441	221	$479,709	$0	$6,482,700		h
CO (only sources greater than 100 mmBtu/hr)														
a) initial	10	$0	$160,900	1	10	0	0	0	0	$0	$0	$0		g
b) annual	10	$0	$53,600	1	10	0	0	0	0	$0	$0	$0		g
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	$382,500		h
b) annual	10	$0	$9,700	1	10	45	450	45	23	$48,950	$0	$436,500		h
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	$0	82	a, b
2) Notification of Initial Stack Test	8	$0	$0	1	8	82	656	66	33	$71,358	$0	$0	82	a, b
3) Report Established Values for Site-specific Operating Parameters (all)	see 3.E.6													
4) Notification of Compliance Status	40	$0	$0	1	40	82	3,280	328	164	$356,790	$0	$0	82	a, b
5) Startup, Shutdown, Malfunction Plan	40	$0	$0	1	40	82	3,280	328	164	$356,790	$0	$0	82	a, b
6) Semi-annual Compliance Report	20	$0	$0	2	40	244	9,760	976	488	$1,061,668	$0	$0	488	a
Reporting Subtotal							32,108	3,211	1,605	$3,492,628	$6,818,000	$4,536,000	816	i
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	487	a
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	1	15	487	7,305	731	365	$794,620	$0	$0	487	a
3) Records of Stack Tests	2	$0	$0	1	2	487	974	97	49	$105,949	$0	$0	487	a
4) Records of Monitoring Device Calibrations	2	$0	$0	1	2	487	974	97	49	$105,949	$0	$0	487	g
5) Records of All Compliance Reports Submitted	2	$0	$0	2	4	487	1,948	195	97	$211,899	$0	$0	974	a
6) Records of Monthly Fuel Use	0.5	$0	$0	12	6	487	2,922	292	146	$317,848	$0	$0	5,844	a
E. Personnel Training	na					.								
F. Time for Audits	na													
Subtotal Recordkeeping							33,623	3,362	1,681	$3,657,426	$6,718,200	$13,637,400	8,766	i
Totals							**65,731**	**6,573**	**3,287**	**$7,150,054**	**$13,536,200**	**$18,173,400**	**9,582**	

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 This NESHAP provides a compliance option to conduct a fuel analysis once every five years, if a unit burns the same kind of fuel, or re-conduct a fuel analysis if a unit changes fuel type. All projected large solid fuel units expected to comply through stack testing instead of the fuel testing compliance option, see note a for the derivation of the number of units per year.

d All new large solid fuel units must conduct an initial test for CO, see note a for the derivation of the number of units per year.

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

e Subsequent annual testing in year 3 are based on the number of sources that had an initial test in year 1 and 2 of this ICR. Subsequent semi-annual compliance reporting and recordkeeping requirements are based on the number of new sources in years 1-3 of this ICR. Since fuel analysis is only required once every five years, no burden is assigned in year 2.

f 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.

g Only the number of new large solid fuel units with a rated heat input capacity of 100 mmBtu/hr or greater are subject to continuous monitoring requirements and records of monitoring device calibrations

h All new units greater than 10 mmBtu/hr are expected to install fabric filters and equipped with bag leak detection systems instead of opacity monitors

i The burdens for monitoring are included in the recordkeeping subtotal

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) Certified Energy Audit Cost per Occurrence	(C) Annual 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 Capital Costs	(M) Total Non-Labor Annual Costs	(N) 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	5,315	212,600	21,260	10,630	$23,126,097	$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	$2,228	$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	5,315	10,630	1,063	532	$1,156,305	$0	$0	5,315	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	0	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	0	c
Reporting Subtotal								223,230	22,323	11,162	24,282,401	0	0	5,315	
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 Notifications and Compliance Reports Submitted	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	$0	0	c
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	0	0	0	0	$0	$0	$0	0	c
3) Records of Biennial Tune-Up	0.5	$0	$0	$0	0.5	0.25	0	0	0	0	$0	$0	$0	0	c
E. Personnel Training	na														
F. Time for Audits	na														
Recordkeeping Subtotal								0	0	0	$0	$0	$0	0	
Totals								**223,230**	**22,323**	**11,162**	**$24,282,401**	**$0**	**$0**	**5,315**	

a Number of respondents based on number of existing small solid fuel boilers which includes biomass and coal units less 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. Audits are required for facilities with large units only.

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, no burden is assumed in year 1.

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. Audits are required for facilities with large units only.

e 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) Certified Energy Audit Cost per Occurrence	(C) Annual 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 Capital Costs	(M) Total Non-Labor Annual Costs	(N) 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	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	$2,228	$0	0.5	6	5,315	31,890	3,189	1,595	$3,468,914	$0	$11,841,820		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	0	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	0	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	0	c
Reporting Subtotal								31,890	3,189	1,595	3,468,914	0	11,841,820	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 Notifications and Compliance Reports Submitted	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	$0	0	c
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	0	0	0	0	$0	$0	$0	0	c
3) Records of Biennial Tune-Up	0.5	$0	$0	$0	0.5	0.25	0	0	0	0	$0	$0	$0	0	c
E. Personnel Training	na														
F. Time for Audits	na														
Recordkeeping Subtotal								0	0	0	$0	$0	$0	0	
Totals								**31,890**	**3,189**	**1,595**	**$3,468,914**	**$0**	**$11,841,820**	**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. Audits are required for facilities with large units only.

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. Audits are required for facilities with large units only.

e 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) Certified Energy Audit Cost per Occurrence	(C) Annual 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 Capital Costs	(M) Total Non-Labor Annual Costs	(N) 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	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	$2,228	$0	0.5	6	5,315	31,890	3,189	1,595	$3,468,914	$0	$11,841,820		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	0	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	5,315	42,520	4,252	2,126	$4,625,219	$0	$0	5,315	c
3) Biennial Compliance Report	5	$0	$0	$0	0.5	2.5	5,315	13,288	1,329	664	$1,445,381	$0	$0	2,658	c
Reporting Subtotal								87,698	8,770	4,385	9,539,515	0	11,841,820	7,973	
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 Notifications and Compliance Reports Submitted	2	$0	$0	$0	1	2	10,629	21,258	2,126	1,063	$2,312,392	$0	$0	10,629	c
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	0	0	0	0	$0	$0	$0	0	c,f
3) Records of Biennial Tune-Up	0.5	$0	$0	$0	0.5	0.25	10,629	2,657	266	133	$289,049	$0	$0	5,315	c
E. Personnel Training	na														
F. Time for Audits	na														
Recordkeeping Subtotal								23,915	2,392	1,196	$2,601,441	$0	$0	15,944	
Totals								**111,613**	**11,161**	**5,581**	**$12,140,956**	**$0**	**$11,841,820**	**23,916**	

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. Audits are required for facilities with large units only.

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. Audits are required for facilities with large units only.

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

f Small units are not required to keep records on start-up shutdown and malfunction.

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) Certified Energy Audit Cost per Occurrence	(C) Annual 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 Capital Costs	(M) Total Non-Labor Annual Costs	(N) 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	79,387	3,175,480	317,548	158,774	$345,420,776	$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	$2,228	$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	79,387	158,774	15,877	7,939	$17,271,039	$0	$0	79,387	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	0	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	0	c
Reporting Subtotal								3,334,254	333,425	166,713	362,691,814	0	0	79,387	
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 Notifications and Compliance Reports Submitted	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	$0	0	c
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	0	0	0	0	$0	$0	$0	0	c
3) Records of Biennial Tune-Up	0.5	$0	$0	$0	0.5	0.25	0	0	0	0	$0	$0	$0	0	c
E. Personnel Training	na														
F. Time for Audits	na														
Recordkeeping Subtotal								0	0	0	$0	$0	$0	0	
Totals								**3,334,254**	**333,425**	**166,713**	**$362,691,814**	**$0**	**$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 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. Audits are required for facilities with large units only.

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, no burden is assumed in year 1.

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. Audits are required for facilities with large units only.

e 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) Certified Energy Audit Cost per Occurrence	(C) Annual 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 Capital Costs	(M) Total Non-Labor Annual Costs	(N) 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	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	$2,228	$0	0.5	6	39,694	238,164	23,816	11,908	$25,906,885	$0	$88,438,232		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	0	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	0	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	0	c
Reporting Subtotal								238,164	23,816	11,908	25,906,885	0	88,438,232	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 Notifications and Compliance Reports Submitted	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	$0	0	c
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	0	0	0	0	$0	$0	$0	0	c
3) Records of Biennial Tune-Up	0.5	$0	$0	$0	0.5	0.25	0	0	0	0	$0	$0	$0	0	c
E. Personnel Training	na														
F. Time for Audits	na														
Recordkeeping Subtotal								0	0	0	$0	$0	$0	0	
Totals								**238,164**	**23,816**	**11,908**	**$25,906,885**	**$0**	**$88,438,232**	**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. Audits are required for facilities with large units only.

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. Audits are required for facilities with large units only.

e 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) Certified Energy Audit Cost per Occurrence	(C) Annual 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 Capital Costs	(M) Total Non-Labor Annual Costs	(N) 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	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	$2,228	$0	0.5	6	39,694	238,161	23,816	11,908	$25,906,558	$0	$88,437,118		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	0	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	79,387	635,096	63,510	31,755	$69,084,155	$0	$0	79,387	c
3) Biennial Compliance Report	5	$0	$0	$0	0.5	2.5	79,387	198,468	19,847	9,923	$21,588,798	$0	$0	39,694	c
Reporting Subtotal								1,071,725	107,172	53,586	116,579,512	0	88,437,118	119,081	
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 Notifications and Compliance Reports Submitted	2	$0	$0	$0	1	2	158,774	317,548	31,755	15,877	$34,542,078	$0	$0	158,774	c
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	0	0	0	0	$0	$0	$0	0	c, f
3) Records of Biennial Tune-Up	0.5	$0	$0	$0	0.5	0.25	158,774	39,694	3,969	1,985	$4,317,760	$0	$0	79,387	c
E. Personnel Training	na														
F. Time for Audits	na														
Recordkeeping Subtotal								357,242	35,724	17,862	$38,859,837	$0	$0	238,161	
Totals								**1,428,966**	**142,897**	**71,448**	**$155,439,349**	**$0**	**$88,437,118**	**357,242**	

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. Audits are required for facilities with large units only.

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. Audits are required for facilities with large units only.

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

f Small units are not required to keep records on start-up shutdown and malfunction.

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) Stack Test 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)	(K) Total Labor Costs Per Year	(L) Total Non-Labor Capital Costs	(M) Total Non-Labor Annual Cost	(N) 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
B. Required Activities														
1. Initial Stack Test and Report (for PM)	12	$8,000	$0	1	12	98	1,176	118	59	$127,922	$784,000	$0		d
2. Initial Stack Test and Report (for Hg)	12	$5,000	$0	1	12	98	1,176	118	59	$127,922	$490,000	$0		d
3. Initial Performance Test and Report (for CO)	12	$6,000	$0	1	12	98	1,176	118	59	$127,922	$588,000	$0		d
4. Annual Stack Test and Report (for PM)	12	$8,000	$0	1	12	0	0	0	0	$0	$0	$0		c,d
5. Annual Stack Test and Report (for Hg)	12	$5,000	$0	1	12	0	0	0	0	$0	$0	$0		c,d
6. Annual Performance Test and Report (for CO)	12	$6,000	$0	1	12	0	0	0	0	$0	$0	$0		c,d
7. Initial Fuel Analysis for Mercury Content	5	$200	$0	1	5	0	0	0	0	$0	$0	$0		d
8. Annual Fuel Analysis for Mercury Content	5	$200	$0	1	5	0	0	0	0	$0	$0	$0		c,d
9. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	$0	$0	1	40	49	1,960	196	98	$213,204	$0	$0		c
Opacity														
a) initial	10	$0	$43,100	1	10	98	980	98	49	$106,602	$4,223,800	$4,223,800		c,f
b) annual	10	$0	$14,700	1	10	98	980	98	49	$106,602	$0	$1,440,600		c,f
CO (only sources greater than 100 mmBtu/hr)														
a) initial	10	$0	$160,900	1	10	0	0	0	0	$0	$0	$0		e
b) annual	10	$0	$53,600	1	10	0	0	0	0	$0	$0	$0		e
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
D. Gather Information	na													
E. Report Preparation	na													
1) Initial Notification that Source is Subject	2	$0	$0	1	2	49	98	10	5	$10,660	$0	$0	49	a, b
2) Notification of Initial Stack Test	8	$0	$0	1	8	49	392	39	20	$42,641	$0	$0	49	e
3) Report Established Values for Site-specific Operating Parameters (all)	see 3.E.6													
4) Notification of Initial Compliance Status	40	$0	$0	1	40	49	1,960	196	98	$213,204	$0	$0	49	a, b
5) Startup, Shutdown, Malfunction Plan	20	$0	$0	1	20	49	980	98	49	$106,602	$0	$0	49	a, d
6) Semi-Annual Compliance Report	20	$0	$0	2	40	49	1,960	196	98	$213,204	$0	$0	98	
Reporting Subtotal							10,878	1,088	544	$1,183,282	$1,862,000	$0	294	i
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	98	1,960	196	98	$213,204	$0	$0	98	a
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	1	15	98	1,470	147	74	$159,903	$0	$0	98	a
3) Records of Stack Tests	2	$0	$0	1	2	98	196	20	10	$21,320	$0	$0	98	a
4) Records of Monitoring Device Calibrations	2	$0	$0	1	2	98	196	20	10	$21,320	$0	$0	98	e,a
5) Records of All Compliance Reports Submitted	2	$0	$0	2	4	98	392	39	20	$42,641	$0	$0	196	a
6) Records of Monthly Fuel Use	0.5	$0	$0	12	6	98	588	59	29	$63,961	$0	$0	1,176	d
E. Personnel Training	na													
F. Time for Audits	na													
Recordkeeping Subtotal							8,722	872	436	$948,757	$4,223,800	$5,664,400	1,764	i
Totals							**19,600**	**1,960**	**980**	**$2,132,039**	**$6,085,800**	**$5,664,400**	**2,058**	

a The total number of new small solid fuel boilers estimated in the first 3 years of this rule is 295. 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 98.3 rounded to 98 boilers per year. 98 boilers will be accounted for in year 1 and 2 and 94 in year 3. Assuming 2 unit per facility, 49 new facilities will be subject in year 1 and 2 and 50 facilities in year 3.

b A one-time requirement.

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

d This NESHAP provides a compliance option for mercury from coal to conduct a fuel analysis once every five years, if a unit burns the same kind of fuel, or re-conduct a fuel analysis if a unit changes fuel type. All projected large solid fuel units expected to comply through stack testing instead of the fuel testing compliance option, see note a for the derivation of the number of units per year.

e Only the new large solid fuel units with a rated heat input capacity of 100 mmBtu/hr or greater are subject to continuous monitoring requirements and records of monitoring device calibrations.

f It assumed that only new large solid fuel units will install fabric filters and utilize bag leak detection monitoring systems. New small units will use opacity monitoring

g The burdens for monitoring are included in the recordkeeping subtotal

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) Stack Test 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)	(K) Total Labor Costs Per Year	(L) Total Non-Labor Capital Costs	(M) Total Non-Labor Annual Cost	(N) 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
B. Required Activities														
1. Initial Stack Test and Report (for PM)	12	$8,000	$0	1	12	98	1,176	118	59	$127,922	$784,000	$0		d
2. Initial Stack Test and Report (for Hg)	12	$5,000	$0	1	12	98	1,176	118	59	$127,922	$490,000	$0		d
3. Initial Performance Test and Report (for CO)	12	$6,000	$0	1	12	98	1,176	118	59	$127,922	$588,000	$0		d
4. Annual Stack Test and Report (for PM)	12	$8,000	$0	1	12	98	1,176	118	59	$127,922	$0	$784,000		c,d
5. Annual Stack Test and Report (for Hg)	12	$5,000	$0	1	12	98	1,176	118	59	$127,922	$0	$490,000		c,d
6. Annual Performance Test and Report (for CO)	12	$6,000	$0	1	12	98	1,176	118	59	$127,922	$0	$588,000		c,d
7. Initial Fuel Analysis for Mercury Content	5	$200	$0	1	5	0	0	0	0	$0	$0	$0		d
8. Annual Fuel Analysis for Mercury Content	5	$200	$0	1	5	0	0	0	0	$0	$0	$0		c,d
9. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	$0	$0	1	40	49	1,960	196	98	$213,204	$0	$0		c
Opacity														
a) initial	10	$0	$43,100	1	10	98	980	98	49	$106,602	$4,223,800	$4,223,800		c,f
b) annual	10	$0	$14,700	1	10	196	1,960	196	98	$213,204	$0	$2,881,200		c,f
CO (only sources greater than 100 mmBtu/hr)														
a) initial	10	$0	$160,900	1	10	0	0	0	0	$0	$0	$0		e
b) annual	10	$0	$53,600	1	10	0	0	0	0	$0	$0	$0		e
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
D. Gather Information	na													
E. Report Preparation	na													
1) Initial Notification that Source is Subject	2	$0	$0	1	2	49	98	10	5	$10,660	$0	$0	49	a, b
2) Notification of Initial Stack Test	8	$0	$0	1	8	49	392	39	20	$42,641	$0	$0	49	e
3) Report Established Values for Site-specific Operating Parameters (all)	see 3.E.6													
4) Notification of Initial Compliance Status	40	$0	$0	1	40	49	1,960	196	98	$213,204	$0	$0	49	a, b
5) Startup, Shutdown, Malfunction Plan	20	$0	$0	1	20	49	980	98	49	$106,602	$0	$0	49	a, d
6) Semi-Annual Compliance Report	20	$0	$0	2	40	98	3,920	392	196	$426,408	$0	$0	196	
Reporting Subtotal							16,366	1,637	818	$1,780,253	$1,862,000	$1,862,000	392	g
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	196	3,920	392	196	$426,408	$0	$0	196	a
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	1	15	196	2,940	294	147	$319,806	$0	$0	196	a
3) Records of Stack Tests	2	$0	$0	1	2	196	392	39	20	$42,641	$0	$0	196	a
4) Records of Monitoring Device Calibrations	2	$0	$0	1	2	196	392	39	20	$42,641	$0	$0	196	e,a
5) Records of All Compliance Reports Submitted	2	$0	$0	2	4	98	392	39	20	$42,641	$0	$0	196	a
6) Records of Monthly Fuel Use	0.5	$0	$0	12	6	196	1,176	118	59	$127,922	$0	$0	2,352	d
E. Personnel Training	na													
F. Time for Audits	na													
Recordkeeping Subtotal							14,112	1,411	706	$1,535,068	$4,223,800	$7,105,000	3,332	g
Totals							**30,478**	**3,048**	**1,524**	**$3,315,321**	**$6,085,800**	**$8,967,000**	**3,724**	

a The total number of new small solid fuel boilers estimated in the first 3 years of this rule is 295. 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 98.3 rounded to 98 boilers per year. 98 boilers will be accounted for in year 1 and 2 and 94 in year 3. Assuming 2 unit per facility, 49 new facilities will be subject in year 1 and 2 and 50 facilities in year 3.

b A one-time requirement.

c 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.

d This NESHAP provides a compliance option for mercury from coal to conduct a fuel analysis once every five years, if a unit burns the same kind of fuel, or re-conduct a fuel analysis if a unit changes fuel type. All projected large solid fuel units expected to comply through stack testing instead of the fuel testing compliance option, see note a for the derivation of the number of units per year.

e Only the new large solid fuel units with a rated heat input capacity of 100 mmBtu/hr or greater are subject to continuous monitoring requirements and records of monitoring device calibrations.

f It assumed that only new large solid fuel units will install fabric filters and utilize bag leak detection monitoring systems. New small units will use opacity monitoring

g The burdens for monitoring are included in the recordkeeping subtotal

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) Stack Test 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)	(K) Total Labor Costs Per Year	(L) Total Non-Labor Capital Costs	(M) Total Non-Labor Annual Cost	(N) 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
B. Required Activities														
1. Initial Stack Test and Report (for PM)	12	$8,000	$0	1	12	99	1,188	119	59	$129,228	$792,000	$0		d
2. Initial Stack Test and Report (for Hg)	12	$5,000	$0	1	12	99	1,188	119	59	$129,228	$495,000	$0		d
3. Initial Performance Test and Report (for CO)	12	$6,000	$0	1	12	99	1,188	119	59	$129,228	$594,000	$0		d
4. Annual Stack Test and Report (for PM)	12	$8,000	$0	1	12	196	2,352	235	118	$255,845	$0	$1,568,000		c,d
5. Annual Stack Test and Report (for Hg)	12	$5,000	$0	1	12	196	2,352	235	118	$255,845	$0	$980,000		c,d
6. Annual Performance Test and Report (for CO)	12	$6,000	$0	1	12	196	2,352	235	118	$255,845	$0	$1,176,000		c,d
7. Initial Fuel Analysis for Mercury Content	5	$200	$0	1	5	0	0	0	0	$0	$0	$0		d
8. Annual Fuel Analysis for Mercury Content	5	$200	$0	1	5	0	0	0	0	$0	$0	$0		c,d
9. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	$0	$0	1	40	50	2,000	200	100	$217,555	$0	$0		c
Opacity														
a) initial	10	$0	$43,100	1	10	99	990	99	50	$107,690	$4,266,900	$4,266,900		c,f
b) annual	10	$0	$14,700	1	10	294	2,940	294	147	$319,806	$0	$4,321,800		c,f
CO (only sources greater than 100 mmBtu/hr)														
a) initial	10	$0	$160,900	1	10	0	0	0	0	$0	$0	$0		e
b) annual	10	$0	$53,600	1	10	0	0	0	0	$0	$0	$0		e
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
D. Gather Information	na													
E. Report Preparation	na													
1) Initial Notification that Source is Subject	2	$0	$0	1	2	50	100	10	5	$10,878	$0	$0	50	a, b
2) Notification of Initial Stack Test	8	$0	$0	1	8	50	400	40	20	$43,511	$0	$0	50	e
3) Report Established Values for Site-specific Operating Parameters (all)	see 3.E.6													
4) Notification of Initial Compliance Status	40	$0	$0	1	40	50	2,000	200	100	$217,555	$0	$0	50	a, b
5) Startup, Shutdown, Malfunction Plan	20	$0	$0	1	20	50	1,000	100	50	$108,778	$0	$0	50	a, d
6) Semi-Annual Compliance Report	20	$0	$0	2	40	148	5,920	592	296	$643,963	$0	$0	296	
Reporting Subtotal							22,040	2,204	1,102	$2,397,456	$1,881,000	$3,724,000	496	g
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	295	5,900	590	295	$641,787	$0	$0	295	a
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	1	15	295	4,425	443	221	$481,340	$0	$0	295	a
3) Records of Stack Tests	2	$0	$0	1	2	295	590	59	30	$64,179	$0	$0	295	a
4) Records of Monitoring Device Calibrations	2	$0	$0	1	2	295	590	59	30	$64,179	$0	$0	295	e,a
5) Records of All Compliance Reports Submitted	2	$0	$0	2	4	295	1,180	118	59	$128,357	$0	$0	590	a
6) Records of Monthly Fuel Use	0.5	$0	$0	12	6	295	1,770	177	89	$192,536	$0	$0	3,540	d
E. Personnel Training	na													
F. Time for Audits	na													
Recordkeeping Subtotal							20,385	2,039	1,019	$2,217,429	$4,266,900	$8,588,700	5,310	g
Totals							**42,425**	**4,243**	**2,121**	**$4,614,885**	**$6,147,900**	**$12,312,700**	**5,806**	

a The total number of new small solid fuel boilers estimated in the first 3 years of this rule is 295. 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 98.3 rounded to 98 boilers per year. 98 boilers will be accounted for in year 1 and 2 and 94 in year 3. Assuming 2 unit per facility, 49 new facilities will be subject in year 1 and 2 and 50 facilities in year 3.

b A one-time requirement.

c Subsequent annual testing in year 3 are based on the number of sources that had an initial test in year 1 and 2 of this ICR. Subsequent semi-annual compliance reporting and recordkeeping requirements are based on the number of new sources in years 1-3 of this ICR.

d This NESHAP provides a compliance option for mercury from coal to conduct a fuel analysis once every five years, if a unit burns the same kind of fuel, or re-conduct a fuel analysis if a unit changes fuel type. All projected large solid fuel units expected to comply through stack testing instead of the fuel testing compliance option, see note a for the derivation of the number of units per year.

e Only the new large solid fuel units with a rated heat input capacity of 100 mmBtu/hr or greater are subject to continuous monitoring requirements and records of monitoring device calibrations.

f It assumed that only new large solid fuel units will install fabric filters and utilize bag leak detection monitoring systems. New small units will use opacity monitoring

g The burdens for monitoring are included in the recordkeeping subtotal

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) Stack Test 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)	(K) Total Labor Costs Per Year	(L) Total Non-Labor Capital Costs	(M) Total Non-Labor Annual Cost	(N) 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
B. Required Activities														
1. Initial Stack Test and Report (for PM)	12	$8,000	$0	1	12	1,979	23,748	2,375	1,187	$2,583,248	$15,832,000	$0		d
2. Initial Performance Test and Report (for CO)	12	$6,000	$0	1	12	1,979	23,748	2,375	1,187	$2,583,248	$11,874,000	$0		d
3. Annual Stack Test and Report (for PM)	12	$8,000	$0	1	12	0	0	0	0	$0	$0	$0		c,d
4. Annual Performance Test and Report (for CO)	12	$6,000	$0	1	12	0	0	0	0	$0	$0	$0		c,d
5. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	$0	$0	1	40	990	39,600	3,960	1,980	$4,307,589	$0	$0		c
Opacity														
a) initial	10	$0	$43,100	1	10	1,947	19,470	1,947	974	$2,117,898	$83,915,700	$83,915,700		c,f
b) annual	10	$0	$14,700	1	10	1,947	19,470	1,947	974	$2,117,898	$0	$28,620,900		c,f
CO (only sources greater than 100 mmBtu/hr)														
a) initial	10	$0	$160,900	1	10	0	0	0	0	$0	$0	$0		e
b) annual	10	$0	$53,600	1	10	0	0	0	0	$0	$0	$0		e
Bag Leak Detection System Operation (all sources that have fabric filters)														
a) initial	10	$0	$25,500	1	10	83	830	83	42	$90,285	$2,116,500	$2,116,500		f
b) annual	10	$0	$9,700	1	10	83	830	83	42	$90,285	$0	$805,100		f
D. Gather Information	na													
E. Report Preparation	na													
1) Initial Notification that Source is Subject	2	$0	$0	1	2	990	1,980	198	99	$215,379	$0	$0	990	a, b
2) Notification of Initial Stack Test	8	$0	$0	1	8	990	7,920	792	396	$861,518	$0	$0	990	e
3) Report Established Values for Site-specific Operating Parameters (all)	see 3.E.6													
4) Notification of Initial Compliance Status	40	$0	$0	1	40	990	39,600	3,960	1,980	$4,307,589	$0	$0	990	a, b
5) Startup, Shutdown, Malfunction Plan	20	$0	$0	1	20	990	19,800	1,980	990	$2,153,795	$0	$0	990	a, d
6) Semi-Annual Compliance Report	20	$0	$0	2	40	990	39,600	3,960	1,980	$4,307,589	$0	$0	1,980	
Reporting Subtotal							195,996	19,600	9,800	$21,319,955	$27,706,000	$0	5,940	g
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	1,979	39,580	3,958	1,979	$4,305,413	$0	$0	1,979	a
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	1	15	1,979	29,685	2,969	1,484	$3,229,060	$0	$0	1,979	a
3) Records of Stack Tests	2	$0	$0	1	2	1,979	3,958	396	198	$430,541	$0	$0	1,979	a
4) Records of Monitoring Device Calibrations	2	$0	$0	1	2	1,979	3,958	396	198	$430,541	$0	$0	1,979	e,a
5) Records of All Compliance Reports Submitted	2	$0	$0	2	4	990	3,960	396	198	$430,759	$0	$0	1,980	a
6) Records of Monthly Fuel Use	0.5	$0	$0	12	6	1,979	11,874	1,187	594	$1,291,624	$0	$0	23,748	d
E. Personnel Training	na													
F. Time for Audits	na													
Recordkeeping Subtotal							173,215	17,322	8,661	$18,841,895	$86,032,200	$115,458,200	33,644	g
Totals							**369,211**	**36,921**	**18,461**	**$40,161,850**	**$113,738,200**	**$115,458,200**	**39,584**	

a The total number of new small solid fuel boilers estimated in the first 3 years of this rule is 5,937. 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 1,979 boilers per year. Assuming 2 unit per facility, 990 new facilities will be subject in year 1 and 2 and 989 facilities in year 3.

b A one-time requirement.

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

d Liquid units are not subject to a numerical limit for mercury and do not need to conduct mercury testing.

e Only the new large liquid fuel units with a rated heat input capacity of 100 mmBtu/hr or greater are subject to continuous monitoring requirements and records of monitoring device calibrations.

f It assumed that only new large solid fuel units will install fabric filters and utilize bag leak detection monitoring systems. New small units will use opacity monitoring

g The burdens for monitoring are included in the recordkeeping subtotal

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) Stack Test 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)	(K) Total Labor Costs Per Year	(L) Total Non-Labor Capital Costs	(M) Total Non-Labor Annual Cost	(N) 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
B. Required Activities														
1. Initial Stack Test and Report (for PM)	12	$8,000	$0	1	12	1,979	23,748	2,375	1,187	$2,583,248	$15,832,000	$0		d
2. Initial Performance Test and Report (for CO)	12	$6,000	$0	1	12	1,979	23,748	2,375	1,187	$2,583,248	$11,874,000	$0		d
3. Annual Stack Test and Report (for PM)	12	$8,000	$0	1	12	1,979	23,748	2,375	1,187	$2,583,248	$0	$15,832,000		c,d
4. Annual Performance Test and Report (for CO)	12	$6,000	$0	1	12	1,979	23,748	2,375	1,187	$2,583,248	$0	$11,874,000		c,d
5. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	$0	$0	1	40	990	39,600	3,960	1,980	$4,307,589	$0	$0		c
Opacity														
a) initial	10	$0	$43,100	1	10	1,947	19,470	1,947	974	$2,117,898	$83,915,700	$83,915,700		c,f
b) annual	10	$0	$14,700	1	10	3,894	38,940	3,894	1,947	$4,235,796	$0	$57,241,800		c,f
CO (only sources greater than 100 mmBtu/hr)														
a) initial	10	$0	$160,900	1	10	0	0	0	0	$0	$0	$0		e
b) annual	10	$0	$53,600	1	10	0	0	0	0	$0	$0	$0		e
Bag Leak Detection System Operation (all sources that have fabric filters)														
a) initial	10	$0	$25,500	1	10	83	830	83	42	$90,285	$2,116,500	$2,116,500		f
b) annual	10	$0	$9,700	1	10	166	1,660	166	83	$180,571	$0	$1,610,200		f
D. Gather Information	na													
E. Report Preparation	na													
1) Initial Notification that Source is Subject	2	$0	$0	1	2	990	1,980	198	99	$215,379	$0	$0	990	a, b
2) Notification of Initial Stack Test	8	$0	$0	1	8	990	7,920	792	396	$861,518	$0	$0	990	e
3) Report Established Values for Site-specific Operating Parameters (all)	see 3.E.6													
4) Notification of Initial Compliance Status	40	$0	$0	1	40	990	39,600	3,960	1,980	$4,307,589	$0	$0	990	a, b
5) Startup, Shutdown, Malfunction Plan	20	$0	$0	1	20	990	19,800	1,980	990	$2,153,795	$0	$0	990	a, d
6) Semi-Annual Compliance Report	20	$0	$0	2	40	1,980	79,200	7,920	3,960	$8,615,178	$0	$0	3,960	
Reporting Subtotal							283,092	28,309	14,155	$30,794,040	$27,706,000	$27,706,000	7,920	g
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	3,958	79,160	7,916	3,958	$8,610,827	$0	$0	3,958	a
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	1	15	3,958	59,370	5,937	2,969	$6,458,120	$0	$0	3,958	a
3) Records of Stack Tests	2	$0	$0	1	2	3,958	7,916	792	396	$861,083	$0	$0	3,958	a
4) Records of Monitoring Device Calibrations	2	$0	$0	1	2	3,958	7,916	792	396	$861,083	$0	$0	3,958	e,a
5) Records of All Compliance Reports Submitted	2	$0	$0	2	4	1,980	7,920	792	396	$861,518	$0	$0	3,960	a
6) Records of Monthly Fuel Use	0.5	$0	$0	12	6	3,958	23,748	2,375	1,187	$2,583,248	$0	$0	47,496	d
E. Personnel Training	na													
F. Time for Audits	na													
Recordkeeping Subtotal							286,530	28,653	14,327	$31,168,017	$86,032,200	$144,884,200	67,288	g
Totals							**569,622**	**56,962**	**28,481**	**$61,962,057**	**$113,738,200**	**$172,590,200**	**75,208**	

a The total number of new small solid fuel boilers estimated in the first 3 years of this rule is 5,937. 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 1,979 boilers per year. Assuming 2 unit per facility, 990 new facilities will be subject in year 1 and 2 and 989 facilities in year 3.

b A one-time requirement.

c 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.

d Liquid units are not subject to a numerical limit for mercury and do not need to conduct mercury testing.

e Only the new large liquid fuel units with a rated heat input capacity of 100 mmBtu/hr or greater are subject to continuous monitoring requirements and records of monitoring device calibrations.

f It assumed that only new large solid fuel units will install fabric filters and utilize bag leak detection monitoring systems. New small units will use opacity monitoring

g The burdens for monitoring are included in the recordkeeping subtotal

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) Stack Test 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)	(K) Total Labor Costs Per Year	(L) Total Non-Labor Capital Costs	(M) Total Non-Labor Annual Cost	(N) 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
B. Required Activities														
1. Initial Stack Test and Report (for PM)	12	$8,000	$0	1	12	1,979	23,748	2,375	1,187	$2,583,248	$15,832,000	$0		d
2. Initial Performance Test and Report (for CO)	12	$6,000	$0	1	12	1,979	23,748	2,375	1,187	$2,583,248	$11,874,000	$0		d
3. Annual Stack Test and Report (for PM)	12	$8,000	$0	1	12	3,958	47,496	4,750	2,375	$5,166,496	$0	$31,664,000		c,d
4. Annual Performance Test and Report (for CO)	12	$6,000	$0	1	12	3,958	47,496	4,750	2,375	$5,166,496	$0	$23,748,000		c,d
5. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	$0	$0	1	40	989	39,560	3,956	1,978	$4,303,238	$0	$0		c
Opacity														
a) initial	10	$0	$43,100	1	10	1,947	19,470	1,947	974	$2,117,898	$83,915,700	$83,915,700		c,f
b) annual	10	$0	$14,700	1	10	5,841	58,410	5,841	2,921	$6,353,694	$0	$85,862,700		c,f
CO (only sources greater than 100 mmBtu/hr)														
a) initial	10	$0	$160,900	1	10	0	0	0	0	$0	$0	$0		e
b) annual	10	$0	$53,600	1	10	0	0	0	0	$0	$0	$0		e
Bag Leak Detection System Operation (all sources that have fabric filters)														
a) initial	10	$0	$25,500	1	10	83	830	83	42	$90,285	$2,116,500	$2,116,500		f
b) annual	10	$0	$9,700	1	10	249	2,490	249	125	$270,856	$0	$2,415,300		f
D. Gather Information	na													
E. Report Preparation	na													
1) Initial Notification that Source is Subject	2	$0	$0	1	2	989	1,978	198	99	$215,162	$0	$0	989	a, b
2) Notification of Initial Stack Test	8	$0	$0	1	8	989	7,912	791	396	$860,648	$0	$0	989	e
3) Report Established Values for Site-specific Operating Parameters (all)	see 3.E.6													
4) Notification of Initial Compliance Status	40	$0	$0	1	40	989	39,560	3,956	1,978	$4,303,238	$0	$0	989	a, b
5) Startup, Shutdown, Malfunction Plan	20	$0	$0	1	20	989	19,780	1,978	989	$2,151,619	$0	$0	989	a, d
6) Semi-Annual Compliance Report	20	$0	$0	2	40	2,970	118,800	11,880	5,940	$12,922,767	$0	$0	5,940	
Reporting Subtotal							370,078	37,008	18,504	$40,256,160	$27,706,000	$55,412,000	9,896	g
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	5,937	118,740	11,874	5,937	$12,916,240	$0	$0	5,937	a
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	1	15	5,937	89,055	8,906	4,453	$9,687,180	$0	$0	5,937	a
3) Records of Stack Tests	2	$0	$0	1	2	5,937	11,874	1,187	594	$1,291,624	$0	$0	5,937	a
4) Records of Monitoring Device Calibrations	2	$0	$0	1	2	5,937	11,874	1,187	594	$1,291,624	$0	$0	5,937	e,a
5) Records of All Compliance Reports Submitted	2	$0	$0	2	4	2,970	11,880	1,188	594	$1,292,277	$0	$0	5,940	a
6) Records of Monthly Fuel Use	0.5	$0	$0	12	6	5,937	35,622	3,562	1,781	$3,874,872	$0	$0	71,244	d
E. Personnel Training	na													
F. Time for Audits	na													
Recordkeeping Subtotal							399,805	39,981	19,990	$43,489,788	$86,032,200	$174,310,200	100,932	g
Totals							**769,883**	**76,988**	**38,494**	**$83,745,948**	**$113,738,200**	**$229,722,200**	**110,828**	

a The total number of new small solid fuel boilers estimated in the first 3 years of this rule is 5,937. 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 1,979 boilers per year. Assuming 2 unit per facility, 990 new facilities will be subject in year 1 and 2 and 989 facilities in year 3.

b A one-time requirement.

c Subsequent annual testing in year 3 are based on the number of sources that had an initial test in year 1 and 2 of this ICR. Subsequent semi-annual compliance reporting and recordkeeping requirements are based on the number of new sources in years 1-3 of this ICR.

d Liquid units are not subject to a numerical limit for mercury and do not need to conduct mercury testing.

e Only the new large liquid fuel units with a rated heat input capacity of 100 mmBtu/hr or greater are subject to continuous monitoring requirements and records of monitoring device calibrations.

f It assumed that only new large solid fuel units will install fabric filters and utilize bag leak detection monitoring systems. New small units will use opacity monitoring

g The burdens for monitoring are included in the recordkeeping subtotal

Table 9.A. Annual Federal Government Burden and Cost of Recordkeeping and Reporting for the Industrial, Commercial, and Institutional Boilers Area Source NESHAP 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)	Mangmt hours per year (E=Dx0.05)	Clerical hours per year (F=Dx0.1)	(H) Costs, $ [L]	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	92,467	184,933	184,933	9,247	18,493	$9,584,060	b
3. Required activities								
A. Observe initial stack/performance test	40	917	36,672	36,672	1,834	3,667	$1,900,508	c
B. Observe repeat performance test	40	458	18,336	18,336	917	1,834	$950,254	d
C. Review operating parameters	2	7,818	15,636	15,636	782	1,564	$810,328	e
D. Review continuous parameter monitoring	2	2,260	4,520	4,520	226	452	$234,247	f
4 Excess Emissions Enforcement Activities and Inspections	24	458	0	0	0	0	$0	g
5 Notification requirements								
A. Review initial notification that sources are subject to the standard	2	92,467	184,933	184,933	9,247	18,493	$9,584,060	b
B. Review notification of initial performance tests and review test plan	20	7,818	156,360	156,360	7,818	15,636	$8,103,279	e
C. Review notification of compliance status	2	1,130	2,260	2,260	113	226	$117,123	b
6. Reporting requirements			0	0	0	0	$0	
A. Review semiannual compliance report	4	2,260	9,040	9,040	452	904	$468,493	h
B. Review biennial compliance report	4	0	0	0	0	0	$0	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						$1,518,221	k
TOTAL BURDEN AND COST (SALARY)				615,090	30,755	61,509	**$33,394,953**	
TOTAL ANNUAL HOURS						**707,354**		

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)	Mangmt hours per year (E=Dx0.05)	Clerical hours per year (F=Dx0.1)	(H) Costs, $[L]	Footnotes
1. Read and understand rule requirements	40	0	0	0	0	0	$0	a
2. Enter and update information into agency recordkeeping	2	2,260	4,520	4,520	226	452	$234,247	b
3. Required activities								
A. Observe initial stack/performance test	40	2,282	91,296	91,296	4,565	9,130	$4,731,370	c
B. Observe repeat performance test	40	1,141	45,648	45,648	2,282	4,565	$2,365,685	d
C. Review operating parameters	2	11,412	22,824	22,824	1,141	2,282	$1,182,842	e
D. Review continuous parameter monitoring	2	4,519	9,038	9,038	452	904	$468,390	f
4 Excess Emissions Enforcement Activities and Inspections	24	1,141	0	0	0	0	$0	g
5 Notification requirements								
A. Review initial notification that sources are subject to the standard	2	2,260	4,520	4,520	226	452	$234,247	b
B. Review notification of initial performance tests and review test plan	20	11,412	228,240	228,240	11,412	22,824	$11,828,424	e
C. Review notification of compliance status	2	1,130	2,260	2,260	113	226	$117,123	b
6. Reporting requirements			0	0	0	0	$0	
A. Review semiannual compliance report	4	2,260	9,040	9,040	452	904	$468,493	h
B. Review biennial compliance report	4	0	0	0	0	0	$0	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						$3,779,654	k
TOTAL BURDEN AND COST (SALARY)				417,386	20,869	41,739	**$25,410,475**	
TOTAL ANNUAL HOURS						**479,994**		

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 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)	Mangmt hours per year (E=Dx0.05)	Clerical hours per year (F=Dx0.1)	(H) Costs, $[k]	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	2,262	4,524	4,524	226	452	$234,454	b
3. Required activities								
A. Observe initial stack/performance test	40	2,283	91,336	91,336	4,567	9,134	$4,733,443	c
B. Observe repeat performance test	40	1,142	45,668	45,668	2,283	4,567	$2,366,721	d
C. Review operating parameters	2	11,417	22,834	22,834	1,142	2,283	$1,183,361	e
D. Review continuous parameter monitoring	2	10,819	21,638	21,638	1,082	2,164	$1,121,379	f
4 Excess Emissions Enforcement Activities and Inspections	24	1,142	0	0	0	0	$0	g
5 Notification requirements								
A. Review initial notification that sources are subject to the standard	2	2,262	4,524	4,524	226	452	$234,454	b
B. Review notification of initial performance tests and review test plan	20	11,417	228,340	228,340	11,417	22,834	$11,833,606	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 semiannual compliance report	4	3,392	13,568	13,568	678	1,357	$703,155	h
B. Review biennial compliance report	4	84,702	338,806	338,806	16,940	33,881	$17,558,452	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						$3,781,310	k
TOTAL BURDEN AND COST (SALARY)				969,444	48,472	96,944	**$54,022,261**	
TOTAL ANNUAL HOURS						**1,114,861**		

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 subca

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.