ICRAS SUMMARY	REPORTING			RECORDKEEPING	
	Annual Burden Hours	Number of Respondents (Facilities)	Number of Responses	Annualized Capital/Start-up and O&M	Annual Burden Hours
Year 1	80,459	1,646	1,663	$ 278,933	601
Year 2	189,708	835	32	$ 84,601,482	38,493
Year 3	351,974	1,655	5,444	$ 123,090,411	180,141
Overall Average Annual Estimates	207,380	1,379	2,380	$ 69,323,609	73,079
Cost per Response				$ 29,134	
Burden Hours per Response				118	

87.1527979267353

INDUSTRY	3- year period	Average per year	Public Sector	Private Sector
Total HOURS	841,376	280,459	17,691	262,767
TOTAL COSTS (non-labor)	$ 207,970,826	$ 69,323,609	$ 4,372,918	$ 64,950,691
Total LABOR COSTS	$ 79,585,020	$ 26,528,340	$ 1,673,402	$ 24,854,938
TOTAL LABOR AND NON-Labor COSTS	$ 287,555,847	$ 95,851,949	$ 6,046,320	$ 89,805,629
		Small Entity Respondents per year	12	113
		Total Respondents per year	87	1,292

AGENCY	3- year period	Average per year
Hours	292,690	97,563
Costs (labor + travel)	$ 15,626,537	$ 5,208,846

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

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Certified Energy Audit Cost per Occurrence	(C) Stack Testing and Fuel Analysis Cost Per Occurrence	(D) Other Non-Labor Costs Per Occurrence	(E) Number of Occurrences Per Respondent Per Year	(F) Technical Hours per Respondent Per Year (A X E)	(G) Number of Respondents Per Year	(H) Technical Hours per Year @ $98.20 (F X G)	(I) Clerical Hours per Year @ $48.53 (H X 0.1)	(J) Management Hours per Year @ $114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non-Labor Capital Costs Per Year [(B+C+D)xExG]	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	119	4,760	476	238	$517,781	$0	0	a
B. Required Activities														
1. Conduct Energy Audit														
a) Commerical	20	$854	$0	$0	1	20	0	0	0	0	$0	$0	0	b, c, d
b) Industrial	20	$18,292	$0	$0	1	20	0	0	0	0	$0	$0	0	b, c, d
2. Initial Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	0	0	0	0	$0	$0	0	c,h
3. Initial Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	c
4. Initial Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	c
5. Initial Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	0	0	0	0	$0	$0	0	c
6. Initial Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	0	0	0	0	$0	$0	0	c
7. Annual Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	0	0	0	0	$0	$0	0	c,i
8. Annual Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	c,i
9. Annual Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	c,i
10. Annual Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	0	0	0	0	$0	$0	0	c,i
11. Annual Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	0	0	0	0	$0	$0	0	c,i
12. Repeat Stack Test and Report if Switch Fuels (for Hg and HCl)	24	$0	$16,000	$0	1	24	0	0	0	0	$0	$0	0	c,j
13. Initial Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	1	5	0	0	0	0	$0	$0	0	c,g
14. Monthly Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	12	60	0	0	0	0	$0	$0	0	c,g
15. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	$0		$0	1	40	0	0	0	0	$0	$0	0	c
Opacity														
a) initial	10	$0	$0	$43,100	1	10	0	0	0	0	$0	$0	0	c
b) annual	10	$0	$0	$14,700	1	10	0	0	0	0	$0	$0	0	c
PM (only sources greater than 250 mmBtu/hr)														
a) initial	10	$0	$0	$158,000	1	10	0	0	0	0	$0	$0	0	c
b) annual	10	$0	$0	$56,100	1	10	0	0	0	0	$0	$0	0	c
O2														
a) initial	10	$0	$0	$8,523	1	10	0	0	0	0	$0	$0	0	c
b) annual	10	$0	$0	$1,436	1	10	0	0	0	0	$0	$0	0	c
Scrubber System Monitoring and Operation (for units with wet scrubbers)														
a) initial	10	$0	$0	$24,300	1	10	0	0	0	0	$0	$0	0	c
b) annual	10	$0	$0	$5,600	1	10	0	0	0	0	$0	$0	0	c
Bag Leak Detection System Operation (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
Carbon Injection Monitoring System (all sources that use ACI to control Hg)														
a) initial	10	$0	$0	$115,000	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	119	238	24	12	$25,889	$0	119	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	0	0	0	0	$0	$0	0	c
3) Initial Report on results of Energy Audit	5	$0	$0	$0	1	5	0	0	0	0	$0	$0	0	c
4) Semi-annual Compliance Report	20	$0	$0	$0	2	40	0	0	0	0	$0	$0	0	a
Reporting Subtotal								4,998	500	250	$543,670	$0	119	
4. Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													e
D. Record Information														
1) Records of Operating Parameter Values	20	$0	$0	$0	1	20	0	0	0	0	$0	$0	0	c
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	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	c
4) Records of Monitoring Device Calibrations	2	$0	$0	$0	1	2	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	c
6) Records of Monthly Fuel Use	0.5	$0	$0	$0	12	6	0	0	0	0	$0	$0	0	c
E. Personnel Training	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	f
F. Time for Audits	na													
Recordkeeping Subtotal								0	0	0	$0	$0		
Totals								**4,998**	**500**	**250**	**$543,670**	**$0**	**119**	

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 8 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. Based on the distribution of facilities with affected boilers or process heaters, 87.4% of facilities are in the industrial sector while the remaining 12.6% of facilities are in the commercial sector.

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. 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 For on-going training activities to keep personnel updated in order to implement compliance activities.

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

h Only units less than 250 mmBtu/hr are expected to perform stack testing for PM. Units greater than 250 mmBtu/hr will be equipped with a PM CEMS

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

j Only applies to large solid fuel boilers, because solid fuel boilers may fire a mix of non-homogeneous fuels. Assumed all solid fuel units would perform a repeat stack test.

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 Per Year [(B+C+D)xExG]	(M) Total Number of Responses per Year (E X G)	Footnotes	Annualized Capital/start-up O&M	Total Capital (Monitor Purchase)
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) Commerical	20	$854	$0	$0	1	20	7	140	14	7	$15,229	$5,978	0	b, c, d		
b) Industrial	20	$18,292	$0	$0	1	20	52	1,040	104	52	$113,129	$951,184	0	b, c, d		
2. Initial Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	336	4,032	403	202	$438,591	$1,680,000	0	c,h		
3. Initial Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	499	5,988	599	299	$651,360	$3,992,000	0	c		
4. Initial Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	499	5,988	599	299	$651,360	$3,992,000	0	c		
5. Initial Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	499	5,988	599	299	$651,360	$3,493,000	0	c		
6. Initial Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	499	5,988	599	299	$651,360	$7,984,000	0	c		
7. Annual Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	0	0	0	0	$0	$0	0	c,h,i		
8. Annual Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	c, i		
9. Annual Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	c, i		
10. Annual Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	0	0	0	0	$0	$0	0	c, i		
11. Annual Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	0	0	0	0	$0	$0	0	c, i		
12. Repeat Stack Test and Report if Switch Fuels (for Hg and HCl)	24	$0	$16,000	$0	1	24	499	11,976	1,198	599	$1,302,719	$7,984,000	0	c,j		
13. Initial Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	1	5	0	0	0	0	$0	$0	0	c,g		
14. Monthly Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	12	60	0	0	0	0	$0	$0	0	c,g		
15. Continuous Parameter Monitoring																
Establish Site-specific monitoring plan (all)	40	$0		$0	1	40	60	2,400	240	120	$261,066	$0	0	c		
Opacity																
a) initial	10	$0	$0	$43,100	1	10	188	1,880	188	94	$204,502	$8,102,800	0	c		
b) annual	10	$0	$0	$14,700	1	10	188	1,880	188	94	$204,502	$2,763,600	0	c		
PM (only sources greater than 250 mmBtu/hr)																
a) initial	10	$0	$0	$158,000	1	10	163	1,630	163	82	$177,307	$25,754,000	0	c,f		
b) annual	10	$0	$0	$56,100	1	10	163	1,630	163	82	$177,307	$9,144,300	0	c		
O2																
a) initial	10	$0	$0	$8,523	1	10	499	4,990	499	250	$542,800	$4,252,977	0	c		
b) annual	10	$0	$0	$1,436	1	10	499	4,990	499	250	$542,800	$716,564	0	c		
Scrubber System Monitoring and Operation (for units with wet scrubbers)																
a) initial	10	$0	$0	$24,300	1	10	167	1,670	167	84	$181,658	$4,058,100	0	c		
b) annual	10	$0	$0	$5,600	1	10	167	1,670	167	84	$181,658	$935,200	0	c		
Bag Leak Detection System Operation (sources that have fabric filters)																
a) initial	10	$0	$0	$25,500	1	10	52	520	52	26	$56,564	$1,326,000	0	c		
b) annual	10	$0	$0	$9,700	1	10	52	520	52	26	$56,564	$504,400	0	c		
Carbon Injection Monitoring System (all sources that use ACI to control Hg)																
a) initial	10	$0	$0	$115,000	1	10	54	540	54	27	$58,740	$6,210,000	0	c		
b) annual	10	$0	$0	$9,700	1	10	54	540	54	27	$58,740	$523,800	0	c		
C. Create Information	na															
D. Gather Information	na															
E. Report Preparation																
1) Initial Notification that Source is Subject	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	0	a		
2) Notification of Compliance Status	8	$0	$0	$0	1	8	0	0	0	0	$0	$0	0	c		
3) Initial Report on results of Energy Audit	5	$0	$0	$0	1	5	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	c		
Reporting Subtotal								66,000	6,600	3,300	$7,179,315	$94,373,903	0		$44,670,026	$49,703,877
4. Recordkeeping Requirements																
A. Read Instructions	Included in 3a															
B. Implement Activities	na															
C. Develop Record System	na													e		
D. Record Information																
1) Records of Operating Parameter Values	20	$0	$0	$0	1	20	0	0	0	0	$0	$0	0	c		
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	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	c		
4) Records of Monitoring Device Calibrations	2	$0	$0	$0	1	2	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	c		
6) Records of Monthly Fuel Use	0.5	$0	$0	$0	12	6	0	0	0	0	$0	$0	0	c		
E. Personnel Training	40	$0	$0	$0	1	40	60	2,400	240	120	$261,066	$0	$0	f		
F. Time for Audits	na															
Recordkeeping Subtotal								2,400	240	120	$261,066	$0	0		$0	
Totals								**68,400**	**6,840**	**3,420**	**$7,440,381**	**$94,373,903**	**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. Based on the distribution of facilities with affected boilers or process heaters, 87.4% of facilities are in the industrial sector while the remaining 12.6% of facilities are in the commercial sector.

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. energy professionals.

f For on-going training activities to keep personnel updated in order to implement compliance activities.

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

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

h Only units less than 250 mmBtu/hr are expected to perform stack testing for PM. Units greater than 250 mmBtu/hr will be equipped with a PM CEMS

i 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.

j Only applies to large solid fuel boilers, because solid fuel boilers may fire a mix of non-homogeneous fuels. Assumed all solid fuel units would perform a repeat stack test.

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 Per Year [(B+C+D)xExG]	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	a
B. Required Activities														
1. Conduct Energy Audit														
a) Commerical	20	$854	$0	$0	1	20	8	160	16	8	$17,404	$6,832	0	b, c, d
b) Industrial	20	$18,292	$0	$0	1	20	52	1,040	104	52	$113,129	$951,184	0	b, c, d
2. Initial Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	336	4,032	403	202	$438,591	$1,680,000	0	c,h
3. Initial Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	498	5,976	598	299	$650,054	$3,984,000	0	c
4. Initial Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	498	5,976	598	299	$650,054	$3,984,000	0	c
5. Initial Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	498	5,976	598	299	$650,054	$3,486,000	0	c
6. Initial Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	498	5,976	598	299	$650,054	$7,968,000	0	c
7. Annual Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	336	4,032	403	202	$438,591	$1,680,000	0	c,h,i
8. Annual Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	499	5,988	599	299	$651,360	$3,992,000	0	c, i
9. Annual Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	499	5,988	599	299	$651,360	$3,992,000	0	c, i
10. Annual Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	499	5,988	599	299	$651,360	$3,493,000	0	c, i
11. Annual Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	499	5,988	599	299	$651,360	$7,984,000	0	c, i
12. Repeat Stack Test and Report if Switch Fuels (for Hg and HCl)	24	$0	$16,000	$0	1	24	498	11,952	1,195	598	$1,300,109	$7,968,000	0	c,j
13. Initial Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	1	5	0	0	0	0	$0	$0	0	c,g
14. Monthly Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	12	60	0	0	0	0	$0	$0	0	c,g
15. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	$0		$0	1	40	59	2,360	236	118	$256,715	$0	0	c
Opacity														
a) initial	10	$0	$0	$43,100	1	10	187	1,870	187	94	$203,414	$8,059,700	0	c
b) annual	10	$0	$0	$14,700	1	10	187	1,870	187	94	$203,414	$2,748,900	0	c
PM (only sources greater than 250 mmBtu/hr)														
a) initial	10	$0	$0	$158,000	1	10	162	1,620	162	81	$176,220	$25,596,000	0	c,f
b) annual	10	$0	$0	$56,100	1	10	162	1,620	162	81	$176,220	$9,088,200	0	c
O2														
a) initial	10	$0	$0	$8,523	1	10	498	4,980	498	249	$541,712	$4,244,454	0	c
b) annual	10	$0	$0	$1,436	1	10	498	4,980	498	249	$541,712	$715,128	0	c
Scrubber System Monitoring and Operation (for units with wet scrubbers)														
a) initial	10	$0	$0	$24,300	1	10	166	1,660	166	83	$180,571	$4,033,800	0	c
b) annual	10	$0	$0	$5,600	1	10	166	1,660	166	83	$180,571	$929,600	0	c
Bag Leak Detection System Operation (sources that have fabric filters)														
a) initial	10	$0	$0	$25,500	1	10	52	520	52	26	$56,564	$1,326,000	0	c
b) annual	10	$0	$0	$9,700	1	10	52	520	52	26	$56,564	$504,400	0	c
Carbon Injection Monitoring System (all sources that use ACI to control Hg)														
a) initial	10	$0	$0	$115,000	1	10	54	540	54	27	$58,740	$6,210,000	0	c
b) annual	10	$0	$0	$9,700	1	10	54	540	54	27	$58,740	$523,800	0	c
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
1) Initial Notification that Source is Subject	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	0	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	119	952	95	48	$103,556	$0	119	c
3) Initial Report on results of Energy Audit	5	$0	$0	$0	1	5	119	595	60	30	$64,723	$0	119	c
4) Semi-annual Compliance Report	20	$0	$0	$0	2	40	119	4,760	476	238	$517,781	$0	238	a
Reporting Subtotal								100,119	10,012	5,006	$10,890,695	$115,148,998	476	
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	997	19,940	1,994	997	$2,169,023	$0	0	c
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	997	14,955	1,496	748	$1,626,768	$0	0	c
3) Records of Stack Tests	2	$0	$0	$0	1	2	997	1,994	199	100	$216,902	$0	0	c
4) Records of Monitoring Device Calibrations	2	$0	$0	$0	1	2	997	1,994	199	100	$216,902	$0	0	c
5) Records of All Compliance Reports Submitted	2	$0	$0	$0	2	4	997	3,988	399	199	$433,805	$0	0	c
6) Records of Monthly Fuel Use	0.5	$0	$0	$0	12	6	997	5,982	598	299	$650,707	$0	0	c
E. Personnel Training	40	$0	$0	$0	1	40	59	2,360	236	118	$256,715	$0	0	f
F. Time for Audits	na													
Recordkeeping Subtotal								51,213	5,121	2,561	$5,570,822	$0	0	
Totals								**151,332**	**15,133**	**7,567**	**$16,461,517**	**$115,148,998**	**476**	

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. Based on the distribution of facilities with affected boilers or process heaters, 87.4% of facilities are in the industrial sector while the remaining 12.6% of facilities are in the commercial sector.

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. 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 For on-going training activities to keep personnel updated in order to implement compliance activities.

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

h Only units less than 250 mmBtu/hr are expected to perform stack testing for PM. Units greater than 250 mmBtu/hr will be equipped with a PM CEMS

i 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.

j Only applies to large solid fuel boilers, because solid fuel boilers may fire a mix of non-homogeneous fuels. Assumed all solid fuel units would perform a repeat stack test.

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 Per Year [(B+C+D)xExG]	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	58	2,320	232	116	$252,364	$0	58	a
B. Required Activities														
1. Conduct Energy Audit														
a) Commerical	20	$854	$0	$0	1	20	0	0	0	0	$0	$0	0	b, c, d
b) Industrial	20	$18,292	$0	$0	1	20	0	0	0	0	$0	$0	0	b, c, d
2. Initial Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	0	0	0	0	$0	$0	0	c,h
3. Initial Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	c
4. Initial Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	c
5. Initial Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	0	0	0	0	$0	$0	0	c
6. Initial Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	0	0	0	0	$0	$0	0	c
7. Annual Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	0	0	0	0	$0	$0	0	c,h,i
8. Annual Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	c,i
9. Annual Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	c,i
10. Annual Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	0	0	0	0	$0	$0	0	c,i
11. Annual Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	0	0	0	0	$0	$0	0	c,i
12. Repeat Stack Test and Report if Switch Fuels (for Hg and HCl)	24	$0	$16,000	$0	1	24	0	0	0	0	$0	$0	0	c,f
13. Initial Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	1	5	0	0	0	0	$0	$0	0	c,g
14. Monthly Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	12	60	0	0	0	0	$0	$0	0	c,g
15. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	$0		$0	1	40	0	0	0	0	$0	$0	0	c
Opacity														
a) initial	10	$0	$0	$43,100	1	10	0	0	0	0	$0	$0	0	c
b) annual	10	$0	$0	$14,700	1	10	0	0	0	0	$0	$0	0	c
PM (only sources greater than 250 mmBtu/hr)														
a) initial	10	$0	$0	$158,000	1	10	0	0	0	0	$0	$0	0	c
b) annual	10	$0	$0	$56,100	1	10	0	0	0	0	$0	$0	0	c
O2														
a) initial	10	$0	$0	$8,523	1	10	0	0	0	0	$0	$0	0	c
b) annual	10	$0	$0	$1,436	1	10	0	0	0	0	$0	$0	0	c
Scrubber System Monitoring and Operation (for units with wet scrubbers)														
a) initial	10	$0	$0	$24,300	1	10	0	0	0	0	$0	$0	0	c
b) annual	10	$0	$0	$5,600	1	10	0	0	0	0	$0	$0	0	c
Bag Leak Detection System Operation (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
Carbon Injection Monitoring System (all sources that use ACI to control Hg)														
a) initial	10	$0	$0	$115,000	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	58	116	12	6	$12,618	$0	58	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	0	0	0	0	$0	$0	0	c
3) Initial Report on results of Energy Audit	5	$0	$0	$0	1	5	0	0	0	0	$0	$0	0	c
4) Semi-annual Compliance Report	20	$0	$0	$0	2	40	0	0	0	0	$0	$0	0	a
Reporting Subtotal								2,436	244	122	$264,982	$0	58	
4. Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													e
D. Record Information														
1) Records of Operating Parameter Values	20	$0	$0	$0	1	20	0	0	0	0	$0	$0	0	c
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	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	c
4) Records of Monitoring Device Calibrations	2	$0	$0	$0	1	2	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	c
6) Records of Monthly Fuel Use	0.5	$0	$0	$0	12	6	0	0	0	0	$0	$0	0	c
E. Personnel Training	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	j
F. Time for Audits	na													
Recordkeeping Subtotal								0	0	0	$0	$0	0	
Totals								**2,436**	**244**	**122**	**$264,982**	**$0**	**58**	

a Number of respondents based on number of existing large liquid fuel boilers which includes units greater than 10 mmBtu/hr (assumption of 8 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. Based on the distribution of facilities with affected boilers or process heaters, 87.4% of facilities are in the industrial sector while the remaining 12.6% of facilities are in the commercial sector.

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. 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 applies to large solid fuel boilers, because solid fuel boilers may fire a mix of non-homogeneous fuels. Assumed zero respondents for liquid and gas units.

g Existing large liquid units are expected to determine compliance for Hg and HCl through fuel analysis not stack testing.

h Only units less than 250 mmBtu/hr are expected to perform stack testing for PM. Units greater than 250 mmBtu/hr will be equipped with a PM CEMS

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

j For on-going training activities to keep personnel updated in order to implement compliance activities.

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 Per Year [(B+C+D)xExG]	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	a
B. Required Activities														
1. Conduct Energy Audit														
a) Commerical	20	$854	$0	$0	1	20	4	80	8	4	$8,702	$3,416	0	b, c, d
b) Industrial	20	$18,292	$0	$0	1	20	25	500	50	25	$54,389	$457,300	0	b, c, d
2. Initial Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	253	3,036	304	152	$330,248	$1,265,000	0	c,h
3. Initial Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	c
4. Initial Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	c
5. Initial Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	253	3,036	304	152	$330,248	$1,771,000	0	c,i
6. Initial Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	253	3,036	304	152	$330,248	$4,048,000	0	c
7. Annual Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	0	0	0	0	$0	$0	0	c,h,j
8. Annual Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	c,j
9. Annual Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	c,j
10. Annual Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	0	0	0	0	$0	$0	0	c,j
11. Annual Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	0	0	0	0	$0	$0	0	c,j
12. Repeat Stack Test and Report if Switch Fuels (for Hg and HCl)	24	$0	$16,000	$0	1	24	0	0	0	0	$0	$0	0	c,f
13. Initial Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	1	5	253	1,265	127	63	$137,604	$101,200	0	c,g
14. Monthly Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	12	60	0	0	0	0	$0	$0	0	c,g
15. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	$0		$0	1	40	29	1,160	116	58	$126,182	$0	0	c
Opacity														
a) initial	10	$0	$0	$43,100	1	10	18	180	18	9	$19,580	$775,800	0	c
b) annual	10	$0	$0	$14,700	1	10	18	180	18	9	$19,580	$264,600	0	c
PM (only sources greater than 250 mmBtu/hr)														
a) initial	10	$0	$0	$158,000	1	10	29	290	29	15	$31,545	$4,582,000	0	c
b) annual	10	$0	$0	$56,100	1	10	29	290	29	15	$31,545	$1,626,900	0	c
O2														
a) initial	10	$0	$0	$8,523	1	10	253	2,530	253	127	$275,207	$2,156,319	0	c
b) annual	10	$0	$0	$1,436	1	10	253	2,530	253	127	$275,207	$363,308	0	c
Scrubber System Monitoring and Operation (for units with wet scrubbers)														
a) initial	10	$0	$0	$24,300	1	10	220	2,200	220	110	$239,311	$5,346,000	0	c
b) annual	10	$0	$0	$5,600	1	10	220	2,200	220	110	$239,311	$1,232,000	0	c
Bag Leak Detection System Operation (sources that have fabric filters)														
a) initial	10	$0	$0	$25,500	1	10	219	2,190	219	110	$238,223	$5,584,500	0	c
b) annual	10	$0	$0	$9,700	1	10	219	2,190	219	110	$238,223	$2,124,300	0	c
Carbon Injection Monitoring System (all sources that use ACI to control Hg)														
a) initial	10	$0	$0	$115,000	1	10	0	0	0	0	$0	$0	0	c,i
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	0	0	0	0	$0	$0	0	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	0	0	0	0	$0	$0	0	c
3) Initial Report on results of Energy Audit	5	$0	$0	$0	1	5	0	0	0	0	$0	$0	0	c
4) Semi-annual Compliance Report	20	$0	$0	$0	2	40	0	0	0	0	$0	$0	0	c
Reporting Subtotal								26,893	2,689	1,345	$2,925,353	$31,701,643	0	
4. Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													e
D. Record Information														
1) Records of Operating Parameter Values	20	$0	$0	$0	1	20	0	0	0	0	$0	$0	0	c
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	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	c
4) Records of Monitoring Device Calibrations	2	$0	$0	$0	1	2	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	c
6) Records of Monthly Fuel Use	0.5	$0	$0	$0	12	6	0	0	0	0	$0	$0	0	c
E. Personnel Training	40	$0	$0	$0	1	40	29	1,160	116	58	$126,182	$0	0	k
F. Time for Audits	na													
Recordkeeping Subtotal								1,160	116	58	$126,182	$0	0	
Totals								**28,053**	**2,805**	**1,403**	**$3,051,535**	**$31,701,643**	**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. Based on the distribution of facilities with affected boilers or process heaters, 87.4% of facilities are in the industrial sector while the remaining 12.6% of facilities are in the commercial sector.

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. 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 applies to large solid fuel boilers, because solid fuel boilers may fire a mix of non-homogeneous fuels. Assumed zero respondents for liquid and gas units.

g Existing large liquid units are expected to determine compliance for Hg and HCl through fuel analysis not stack testing.

h Only units less than 250 mmBtu/hr are expected to perform stack testing for PM. Units greater than 250 mmBtu/hr will be equipped with a PM CEMS

i Only 1 existing large liquid fuel unit is equipped with an ACI system. It is assumed that this unit will meet compliance in year 2. No burden from ACI system operation is expected in year 3

j 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.

k For on-going training activities to keep personnel updated in order to implement compliance activities.

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 Per Year [(B+C+D)xExG]	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	a
B. Required Activities														
1. Conduct Energy Audit														
a) Commerical	20	$854	$0	$0	1	20	4	80	8	4	$8,702	$3,416	0	b, c, d
b) Industrial	20	$18,292	$0	$0	1	20	25	500	50	25	$54,389	$457,300	0	b, c, d
2. Initial Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	253	3,036	304	152	$330,248	$1,265,000	0	c,h
3. Initial Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	c
4. Initial Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	c
5. Initial Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	253	3,036	304	152	$330,248	$1,771,000	0	c,i
6. Initial Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	253	3,036	304	152	$330,248	$4,048,000	0	c
7. Annual Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	253	3,036	304	152	$330,248	$1,265,000	0	c,h,j
8. Annual Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	c,j
9. Annual Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	c,j
10. Annual Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	253	3,036	304	152	$330,248	$1,771,000	0	c,j
11. Annual Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	253	3,036	304	152	$330,248	$4,048,000	0	c,j
12. Repeat Stack Test and Report if Switch Fuels (for Hg and HCl)	24	$0	$16,000	$0	1	24	0	0	0	0	$0	$0	0	c,f
13. Initial Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	1	5	253	1,265	127	63	$137,604	$101,200	0	c,g
14. Monthly Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	12	60	506	30,360	3,036	1,518	$3,302,485	$2,428,800	0	c,g
15. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	$0		$0	1	40	29	1,160	116	58	$126,182	$0	0	c
Opacity														
a) initial	10	$0	$0	$43,100	1	10	18	180	18	9	$19,580	$775,800	0	c
b) annual	10	$0	$0	$14,700	1	10	18	180	18	9	$19,580	$264,600	0	c
PM (only sources greater than 250 mmBtu/hr)														
a) initial	10	$0	$0	$158,000	1	10	29	290	29	15	$31,545	$4,582,000	0	c
b) annual	10	$0	$0	$56,100	1	10	29	290	29	15	$31,545	$1,626,900	0	c
O2														
a) initial	10	$0	$0	$8,523	1	10	253	2,530	253	127	$275,207	$2,156,319	0	c
b) annual	10	$0	$0	$1,436	1	10	253	2,530	253	127	$275,207	$363,308	0	c
Scrubber System Monitoring and Operation (for units with wet scrubbers)														
a) initial	10	$0	$0	$24,300	1	10	220	2,200	220	110	$239,311	$5,346,000	0	c
b) annual	10	$0	$0	$5,600	1	10	220	2,200	220	110	$239,311	$1,232,000	0	c
Bag Leak Detection System Operation (sources that have fabric filters)														
a) initial	10	$0	$0	$25,500	1	10	219	2,190	219	110	$238,223	$5,584,500	0	c
b) annual	10	$0	$0	$9,700	1	10	219	2,190	219	110	$238,223	$2,124,300	0	c
Carbon Injection Monitoring System (all sources that use ACI to control Hg)														
a) initial	10	$0	$0	$115,000	1	10	0	0	0	0	$0	$0	0	c,i
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	0	0	0	0	$0	$0	0	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	58	464	46	23	$50,473	$0	58	c
3) Initial Report on results of Energy Audit	5	$0	$0	$0	1	5	58	290	29	15	$31,545	$0	58	c
4) Semi-annual Compliance Report	20	$0	$0	$0	2	40	58	2,320	232	116	$252,364	$0	116	c
Reporting Subtotal								69,435	6,944	3,472	$7,552,966	$41,214,443	232	
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	506	10,120	1,012	506	$1,100,828	$0	0	c
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	506	7,590	759	380	$825,621	$0	0	c
3) Records of Stack Tests	2	$0	$0	$0	1	2	506	1,012	101	51	$110,083	$0	0	c
4) Records of Monitoring Device Calibrations	2	$0	$0	$0	1	2	506	1,012	101	51	$110,083	$0	0	c
5) Records of All Compliance Reports Submitted	2	$0	$0	$0	2	4	506	2,024	202	101	$220,166	$0	0	c
6) Records of Monthly Fuel Use	0.5	$0	$0	$0	12	6	506	3,036	304	152	$330,248	$0	0	c
E. Personnel Training	40	$0	$0	$0	1	40	29	1,160	116	58	$126,182	$0	0	k
F. Time for Audits	na													
Recordkeeping Subtotal								25,954	2,595	1,298	$2,823,211	$0	0	
Totals								**95,389**	**9,539**	**4,769**	**$10,376,177**	**$41,214,443**	**232**	

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. Based on the distribution of facilities with affected boilers or process heaters, 87.4% of facilities are in the industrial sector while the remaining 12.6% of facilities are in the commercial sector.

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. 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 applies to large solid fuel boilers, because solid fuel boilers may fire a mix of non-homogeneous fuels. Assumed zero respondents for liquid and gas units.

g Existing large liquid units are expected to determine compliance for Hg and HCl through fuel analysis not stack testing.

h Only units less than 250 mmBtu/hr are expected to perform stack testing for PM. Units greater than 250 mmBtu/hr will be equipped with a PM CEMS

i Only 1 existing large liquid fuel unit is equipped with an ACI system. It is assumed that this unit will meet compliance in year 2. No burden from ACI system operation is expected in year 3

j 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.

k For on-going training activities to keep personnel updated in order to implement compliance activities.

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 - Year 1, Existing Large Gas 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 Per Year [(B+C+D)xExG]	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	529	21,160	2,116	1,058	$2,301,732	$0	0	a
B. Required Activities														
1. Conduct Energy Audit														
a) Commerical	20	$854	$0	$0	1	20	0	0	0	0	$0	$0	0	b, c, d
b) Industrial	20	$18,292	$0	$0	1	20	0	0	0	0	$0	$0	0	b, c, d
2. Initial Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	0	0	0	0	$0	$0	0	c,j,k
3. Initial Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	c,j,k
4. Initial Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	c,j,k
5. Initial Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	0	0	0	0	$0	$0	0	c,j,k
6. Initial Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	0	0	0	0	$0	$0	0	c,j,k
7. Annual Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	0	0	0	0	$0	$0	0	c,j,k
8. Annual Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	c,j,k
9. Annual Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	c,j,k
10. Annual Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	0	0	0	0	$0	$0	0	c,j,k
11. Annual Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	0	0	0	0	$0	$0	0	c,j,k
12. Repeat Stack Test and Report if Switch Fuels (for Hg and HCl)	24	$0	$16,000	$0	1	24	0	0	0	0	$0	$0	0	c,f
13. Initial Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	1	5	0	0	0	0	$0	$0	0	c,g
14. Monthly Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	12	60	0	0	0	0	$0	$0	0	c,g
15. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	$0		$0	1	40	0	0	0	0	$0	$0	0	c
Opacity														
a) initial	10	$0	$0	$43,100	1	10	0	0	0	0	$0	$0	0	c,h
b) annual	10	$0	$0	$14,700	1	10	0	0	0	0	$0	$0	0	c,h
PM (only sources greater than 250 mmBtu/hr)														
a) initial	10	$0	$0	$158,000	1	10	0	0	0	0	$0	$0	0	c,h
b) annual	10	$0	$0	$56,100	1	10	0	0	0	0	$0	$0	0	c,h
O2														
a) initial	10	$0	$0	$8,523	1	10	0	0	0	0	$0	$0	0	c
b) annual	10	$0	$0	$1,436	1	10	0	0	0	0	$0	$0	0	c
Scrubber System Monitoring and Operation (for units with wet scrubbers)														
a) initial	10	$0	$0	$24,300	1	10	0	0	0	0	$0	$0	0	c
b) annual	10	$0	$0	$5,600	1	10	0	0	0	0	$0	$0	0	c
Bag Leak Detection System Operation (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
16. Annual Tune-up	12	$0	$2,875	$0	1	12	0	0	0	0	$0	$0	0	c
17. Mercury and H2S Fuel Spec Analysis	10	$0	$600	$0	12	120	0	0	0	0	$0	$0	0	c,i
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
1) Initial Notification that Source is Subject	2	$0	$0	$0	1	2	529	1,058	106	53	$115,087	$0	529	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	0	0	0	0	$0	$0	0	c
3) Initial Report on results of Energy Audit	5	$0	$0	$0	1	5	0	0	0	0	$0	$0	0	c
4) Annual Compliance Report	20	$0	$0	$0	1	20	0	0	0	0	$0	$0	0	c,L
5) Semi-annual Compliance Report	20	$0	$0	$0	2	40	0	0	0	0	$0	$0	0	c,L
6) Notification of Alternative Fuel Use	5	$0	$0	$0	1	5	0	0	0	0	$0	$0	0	c,m
Reporting Subtotal								22,218	2,222	1,111	$2,416,818	$0	529	
4. Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													e
D. Record Information														
1) Records of Operating Parameter Values	20	$0	$0	$0	1	20	0	0	0	0	$0	$0	0	c
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	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	c
4) Records of Monitoring Device Calibrations	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	0	c
5) Records of All Annual Compliance Reports Submitted	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	0	c, L
6) Records of All Semi-Annual Compliance Reports Submitted	2	$0	$0	$0	2	4	0	0	0	0	$0	$0	0	c, L
7) Records of Monthly Fuel Use	0.5	$0	$0	$0	12	6	0	0	0	0	$0	$0	0	c,g
8) Records of Annual Tune-up	0.25	$0	$0	$0	1	0.25	0	0	0	0	$0	$0	0	c
E. Personnel Training	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	n
F. Time for Audits	na													
Recordkeeping Subtotal								0	0	0	$0	$0	0	
Totals								**22,218**	**2,222**	**1,111**	**$2,416,818**	**$0**	**529**	

a Number of respondents based on number of existing large gas fuel boilers which includes natural, petroleum, and other gas fuel units greater than 10 mmBtu/hr (assumption of 8 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. Based on the distribution of facilities with affected boilers or process heaters, 87.4% of facilities are in the industrial sector while the remaining 12.6% of facilities are in the commercial sector.

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. 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 applies to large solid fuel boilers, because solid fuel boilers may fire a mix of non-homogeneous fuels. Assumed zero respondents for liquid and gas units.

g Existing large gas 2 units are expected to determine compliance through stack testing not fuel analysis

h Only gas 2 units less than 250 mmBtu/hr are expected to perform stack testing for PM. Gas 2 units greater than 250 mmBtu/hr will be equipped with a PM CEMS

i Number based on units which reported firing fuels other than natural or refinery gas.

j The units firing other process gases other than natural gas, refinery gases or other on-spec gas 1 fuels have limits for PM, HCl, Hg, D/F, and CO and are subject to testing and monitoring requirements for each pollutant.

k The recordkeeping and reporting requirements for natural gas fired units is to conduct an annual tune-up and document that the tune-up was completed. The documentation does not need to be submitted as a report unless requested by the Administrator.

L Only facilities with process gas (gas 2 units) subject to numerical emission limits are expected to be required to submit semi-annual compliance reports. Natural gas and refinery gas units are required to submit reports annually.

m Number based on 17.8% of the large gas 1 units using liquid instead of gas at some point.

n For on-going training activities to keep personnel updated in order to implement compliance activities.

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 - Year 2, Existing Large Gas 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 Per Year [(B+C+D)xExG]	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	a
B. Required Activities														
1. Conduct Energy Audit														
a) Commerical	20	$854	$0	$0	1	20	33	660	66	33	$71,793	$28,182	0	b, c, d
b) Industrial	20	$18,292	$0	$0	1	20	231	4,620	462	231	$502,552	$4,225,452	0	b, c, d
2. Initial Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	36	432	43	22	$46,992	$180,000	0	c,j,k
3. Initial Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	36	432	43	22	$46,992	$288,000	0	c,j,k
4. Initial Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	36	432	43	22	$46,992	$288,000	0	c,j,k
5. Initial Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	36	432	43	22	$46,992	$252,000	0	c,j,k
6. Initial Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	36	432	43	22	$46,992	$576,000	0	c,j,k
7. Annual Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	0	0	0	0	$0	$0	0	c,j,k
8. Annual Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	c,j,k
9. Annual Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	c,j,k
10. Annual Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	0	0	0	0	$0	$0	0	c,j,k
11. Annual Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	0	0	0	0	$0	$0	0	c,j,k
12. Repeat Stack Test and Report if Switch Fuels (for Hg and HCl)	24	$0	$16,000	$0	1	24	0	0	0	0	$0	$0	0	c,f
13. Initial Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	1	5	0	0	0	0	$0	$0	0	c,g
14. Monthly Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	12	60	0	0	0	0	$0	$0	0	c,g
15. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	$0		$0	1	40	4	160	16	8	$17,404	$0	0	c
Opacity														
a) initial	10	$0	$0	$43,100	1	10	0	0	0	0	$0	$0	0	c,h
b) annual	10	$0	$0	$14,700	1	10	0	0	0	0	$0	$0	0	c,h
PM (only sources greater than 250 mmBtu/hr)														
a) initial	10	$0	$0	$158,000	1	10	0	0	0	0	$0	$0	0	c,h
b) annual	10	$0	$0	$56,100	1	10	0	0	0	0	$0	$0	0	c,h
O2														
a) initial	10	$0	$0	$8,523	1	10	36	360	36	18	$39,160	$306,828	0	c
b) annual	10	$0	$0	$1,436	1	10	36	360	36	18	$39,160	$51,696	0	c
Scrubber System Monitoring and Operation (for units with wet scrubbers)														
a) initial	10	$0	$0	$24,300	1	10	1	10	1	1	$1,088	$24,300	0	c
b) annual	10	$0	$0	$5,600	1	10	1	10	1	1	$1,088	$5,600	0	c
Bag Leak Detection System Operation (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
16. Annual Tune-up	12	$0	$2,875	$0	1	12	2,194	26,328	2,633	1,316	$2,863,894	$6,307,750	0	c,k
17. Mercury and H2S Fuel Spec Analysis	10	$0	$600	$0	12	120	23	2,760	276	138	$300,226	$165,600	0	c,i
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
1) Initial Notification that Source is Subject	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	0	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	0	0	0	0	$0	$0	0	c
3) Initial Report on results of Energy Audit	5	$0	$0	$0	1	5	0	0	0	0	$0	$0	0	c
4) Annual Compliance Report	20	$0	$0	$0	1	20	0	0	0	0	$0	$0	0	c, L
5) Semi-annual Compliance Report	20	$0	$0	$0	2	40	0	0	0	0	$0	$0	0	c, L
6) Notification of Alternative Fuel Use	5	$0	$0	$0	1	5	0	0	0	0	$0	$0	0	c,m
Reporting Subtotal								37,428	3,743	1,871	$4,071,324	$12,699,408	0	
4. Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													e
D. Record Information														
1) Records of Operating Parameter Values	20	$0	$0	$0	1	20	0	0	0	0	$0	$0	0	c
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	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	c
4) Records of Monitoring Device Calibrations	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	0	c
5) Records of All Annual Compliance Reports Submitted	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	0	c, L
6) Records of All Semi-Annual Compliance Reports Submitted	2	$0	$0	$0	2	4	0	0	0	0	$0	$0	0	c, L
7) Records of Monthly Fuel Use	0.5	$0	$0	$0	12	6	0	0	0	0	$0	$0	0	c,g
8) Records of Annual Tune-up	0.25	$0	$0	$0	1	0.25	0	0	0	0	$0	$0	0	c
E. Personnel Training	40	$0	$0	$0	1	40	265	10,600	1,060	530	$1,153,042	$0	0	n
F. Time for Audits	na													
Recordkeeping Subtotal								10,600	1,060	530	$1,153,042	$0		
Totals								**48,028**	**4,803**	**2,401**	**$5,224,366**	**$12,699,408**	**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. Based on the distribution of facilities with affected boilers or process heaters, 87.4% of facilities are in the industrial sector while the remaining 12.6% of facilities are in the commercial sector.

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. 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 applies to large solid fuel boilers, because solid fuel boilers may fire a mix of non-homogeneous fuels. Assumed zero respondents for liquid and gas units.

g Existing large gas 2 units are expected to determine compliance through stack testing.

h Gas units are exempt from PM CEMS and opacity monitoring.

i Number based on units which reported firing fuels other than natural or refinery gas.

j The units firing other process gases other than natural gas, refinery gases or other on-spec gas 1 fuels have limits for PM, HCl, Hg, D/F, and CO and are subject to testing and monitoring requirements for each pollutant.

k The recordkeeping and reporting requirements for natural gas fired units is to conduct an annual tune-up and document that the tune-up was completed. The documentation does not need to be submitted as a report unless requested by the Administrator.

L Only facilities with process gas (gas 2 units) subject to numerical emission limits are expected to be required to submit semi-annual compliance reports. Natural gas and refinery gas units are required to submit reports annually.

m Number based on 17.8% of the large gas 1 units using liquid instead of gas at some point.

n For on-going training activities to keep personnel updated in order to implement compliance activities.

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 - Year 3, Existing Large Gas 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 Per Year [(B+C+D)xExG]	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	a
B. Required Activities														
1. Conduct Energy Audit														
a) Commerical	20	$854	$0	$0	1	20	33	660	66	33	$71,793	$28,182	0	b, c, d
b) Industrial	20	$18,292	$0	$0	1	20	231	4,620	462	231	$502,552	$4,225,452	0	b, c, d
2. Initial Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	35	420	42	21	$45,687	$175,000	0	c,j,k
3. Initial Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	35	420	42	21	$45,687	$280,000	0	c,j,k
4. Initial Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	35	420	42	21	$45,687	$280,000	0	c,j,k
5. Initial Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	35	420	42	21	$45,687	$245,000	0	c,j,k
6. Initial Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	35	420	42	21	$45,687	$560,000	0	c,j,k
7. Annual Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	36	432	43	22	$46,992	$180,000	0	c,j,k
8. Annual Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	36	432	43	22	$46,992	$288,000	0	c,j,k
9. Annual Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	36	432	43	22	$46,992	$288,000	0	c,j,k
10. Annual Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	36	432	43	22	$46,992	$252,000	0	c,j,k
11. Annual Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	36	432	43	22	$46,992	$576,000	0	c,j,k
12. Repeat Stack Test and Report if Switch Fuels (for Hg and HCl)	24	$0	$16,000	$0	1	24	0	0	0	0	$0	$0	0	c,f
13. Initial Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	1	5	0	0	0	0	$0	$0	0	c,g
14. Monthly Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	12	60	0	0	0	0	$0	$0	0	c,g
15. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	$0		$0	1	40	4	160	16	8	$17,404	$0	0	c
Opacity														
a) initial	10	$0	$0	$43,100	1	10	0	0	0	0	$0	$0	0	c,h
b) annual	10	$0	$0	$14,700	1	10	0	0	0	0	$0	$0	0	c,h
PM (only sources greater than 250 mmBtu/hr)														
a) initial	10	$0	$0	$158,000	1	10	0	0	0	0	$0	$0	0	c,h
b) annual	10	$0	$0	$56,100	1	10	0	0	0	0	$0	$0	0	c,h
O2														
a) initial	10	$0	$0	$8,523	1	10	35	350	35	18	$38,072	$298,305	0	c
b) annual	10	$0	$0	$1,436	1	10	35	350	35	18	$38,072	$50,260	0	c
Scrubber System Monitoring and Operation (for units with wet scrubbers)														
a) initial	10	$0	$0	$24,300	1	10	0	0	0	0	$0	$0	0	c
b) annual	10	$0	$0	$5,600	1	10	0	0	0	0	$0	$0	0	c
Bag Leak Detection System Operation (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
16. Annual Tune-up	12	$0	$2,875	$0	1	12	4,388	52,656	5,266	2,633	$5,727,788	$12,615,500	0	c,k
17. Mercury and H2S Fuel Spec Analysis	10	$0	$600	$0	12	120	22	2,640	264	132	$287,173	$158,400	0	c,i
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
1) Initial Notification that Source is Subject	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	0	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	529	4,232	423	212	$460,346	$0	529	c
3) Initial Report on results of Energy Audit	5	$0	$0	$0	1	5	529	2,645	265	132	$287,716	$0	529	c
4) Annual Compliance Report	20	$0	$0	$0	1	20	521	10,420	1,042	521	$1,133,462	$0	521	c, L
5) Semi-annual Compliance Report	20	$0	$0	$0	2	40	8	320	32	16	$34,809	$0	16	c, L
6) Notification of Alternative Fuel Use	5	$0	$0	$0	1	5	781	3,905	391	195	$424,776	$0	781	c,m
Reporting Subtotal								87,218	8,722	4,361	$9,487,356	$20,500,099	2,376	
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	71	1,420	142	71	$154,464	$0	0	c
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	71	1,065	107	53	$115,848	$0	0	c
3) Records of Stack Tests	2	$0	$0	$0	1	2	71	142	14	7	$15,446	$0	0	c
4) Records of Monitoring Device Calibrations	2	$0	$0	$0	1	2	71	142	14	7	$15,446	$0	0	c
5) Records of All Annual Compliance Reports Submitted	2	$0	$0	$0	1	2	4,388	8,776	878	439	$954,631	$0	0	c, L
6) Records of All Semi-Annual Compliance Reports Submitted	2	$0	$0	$0	2	4	71	284	28	14	$30,893	$0	0	c, L
7) Records of Monthly Fuel Use	0.5	$0	$0	$0	12	6	4,459	26,754	2,675	1,338	$2,910,233	$0	0	c,g
8) Records of Annual Tune-up	0.25	$0	$0	$0	1	0.25	4,388	1,097	110	55	$119,329	$0	0	c
E. Personnel Training	40	$0	$0	$0	1	40	264	10,560	1,056	528	$1,148,690	$0	0	n
F. Time for Audits	na													
Recordkeeping Subtotal								50,240	5,024	2,512	$5,464,982	$0		
Totals								**137,458**	**13,746**	**6,873**	**$14,952,338**	**$20,500,099**	**2,376**	

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. Based on the distribution of facilities with affected boilers or process heaters, 87.4% of facilities are in the industrial sector while the remaining 12.6% of facilities are in the commercial sector.

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. 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 applies to large solid fuel boilers, because solid fuel boilers may fire a mix of non-homogeneous fuels. Assumed zero respondents for liquid and gas units.

g Existing large gas 2 units are expected to determine compliance through stack testing.

h Gas units are exempt from PM CEMS and opacity monitoring.

i Number based on units which reported firing fuels other than natural or refinery gas.

j The units firing other process gases other than natural gas, refinery gases or other on-spec gas 1 fuels have limits for PM, HCl, Hg, D/F, and CO and are subject to testing and monitoring requirements for each pollutant.

k The recordkeeping and reporting requirements for natural gas fired units is to conduct an annual tune-up and document that the tune-up was completed. The documentation does not need to be submitted as a report unless requested by the Administrator.

L Only facilities with process gas (gas 2 units) subject to numerical emission limits are expected to be required to submit semi-annual compliance reports. Natural gas and refinery gas units are required to submit reports annually.

m Number based on 17.8% of the large gas 1 units using liquid instead of gas at some point.

n For on-going training activities to keep personnel updated in order to implement compliance activities.

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 - Year 1, New 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 Per Year [(B+C+D)xExG]	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	a
B. Required Activities														
1. Initial Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	0	0	0	0	$0	$0	0	
2. Initial Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	
3. Initial Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	
4. Initial Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	0	0	0	0	$0	$0	0	
5. Initial Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	0	0	0	0	$0	$0	0	
6. Annual Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	0	0	0	0	$0	$0	0	
7. Annual Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	
8. Annual Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	
9. Annual Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	0	0	0	0	$0	$0	0	
10. Annual Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	0	0	0	0	$0	$0	0	
11. Repeat Stack Test and Report if Switch Fuels (for Hg and HCl)	24	$0	$16,000	$0	1	24	0	0	0	0	$0	$0	0	
12. Initial Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	1	5	0	0	0	0	$0	$0	0	
13. Monthly Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	12	60	0	0	0	0	$0	$0	0	
14. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	$0		$0	1	40	0	0	0	0	$0	$0	0	
Opacity														
a) initial	10	$0	$0	$43,100	1	10	0	0	0	0	$0	$0	0	
b) annual	10	$0	$0	$14,700	1	10	0	0	0	0	$0	$0	0	
PM (only sources greater than 250 mmBtu/hr)														
a) initial	10	$0	$0	$158,000	1	10	0	0	0	0	$0	$0	0	
b) annual	10	$0	$0	$56,100	1	10	0	0	0	0	$0	$0	0	
O2														
a) initial	10	$0	$0	$8,523	1	10	0	0	0	0	$0	$0	0	
b) annual	10	$0	$0	$1,436	1	10	0	0	0	0	$0	$0	0	
Scrubber System Monitoring and Operation (for units with wet scrubbers)														
a) initial	10	$0	$0	$24,300	1	10	0	0	0	0	$0	$0	0	
b) annual	10	$0	$0	$5,600	1	10	0	0	0	0	$0	$0	0	
Bag Leak Detection System Operation (sources that have fabric filters)														
a) initial	10	$0	$0	$25,500	1	10	0	0	0	0	$0	$0	0	
b) annual	10	$0	$0	$9,700	1	10	0	0	0	0	$0	$0	0	
Carbon Injection Monitoring System (all sources that use ACI to control Hg)														
a) initial	10	$0	$0	$115,000	1	10	0	0	0	0	$0	$0	0	
b) annual	10	$0	$0	$9,700	1	10	0	0	0	0	$0	$0	0	
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	
2) Notification of Compliance Status	8	$0	$0	$0	1	8	0	0	0	0	$0	$0	0	
3) Semi-annual Compliance Report	20	$0	$0	$0	2	40	0	0	0	0	$0	$0	0	
Reporting Subtotal								0	0	0	$0	$0	0	
4. Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													
D. Record Information														
1) Records of Operating Parameter Values	20	$0	$0	$0	1	20	0	0	0	0	$0	$0	0	
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	0	0	0	0	$0	$0	0	
3) Records of Stack Tests	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	0	
4) Records of Monitoring Device Calibrations	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	0	
5) Records of All Compliance Reports Submitted	2	$0	$0	$0	2	4	0	0	0	0	$0	$0	0	
6) Records of Monthly Fuel Use	0.5	$0	$0	$0	12	6	0	0	0	0	$0	$0	0	
E. Personnel Training	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	
F. Time for Audits	na													
Recordkeeping Subtotal								0	0	0	$0	$0		
Totals								**0**	**0**	**0**	**$0**	**$0**	**0**	

a There are no new large solid units expected to be constructed/reconstructed over the next 5 years

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 - Year 2, New 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 Per Year [(B+C+D)xExG]	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	a
B. Required Activities														
1. Initial Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	0	0	0	0	$0	$0	0	
2. Initial Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	
3. Initial Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	
4. Initial Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	0	0	0	0	$0	$0	0	
5. Initial Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	0	0	0	0	$0	$0	0	
6. Annual Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	0	0	0	0	$0	$0	0	
7. Annual Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	
8. Annual Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	
9. Annual Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	0	0	0	0	$0	$0	0	
10. Annual Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	0	0	0	0	$0	$0	0	
11. Repeat Stack Test and Report if Switch Fuels (for Hg and HCl)	24	$0	$16,000	$0	1	24	0	0	0	0	$0	$0	0	
12. Initial Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	1	5	0	0	0	0	$0	$0	0	
13. Monthly Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	12	60	0	0	0	0	$0	$0	0	
14. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	$0		$0	1	40	0	0	0	0	$0	$0	0	
Opacity														
a) initial	10	$0	$0	$43,100	1	10	0	0	0	0	$0	$0	0	
b) annual	10	$0	$0	$14,700	1	10	0	0	0	0	$0	$0	0	
PM (only sources greater than 250 mmBtu/hr)														
a) initial	10	$0	$0	$158,000	1	10	0	0	0	0	$0	$0	0	
b) annual	10	$0	$0	$56,100	1	10	0	0	0	0	$0	$0	0	
O2														
a) initial	10	$0	$0	$8,523	1	10	0	0	0	0	$0	$0	0	
b) annual	10	$0	$0	$1,436	1	10	0	0	0	0	$0	$0	0	
Scrubber System Monitoring and Operation (for units with wet scrubbers)														
a) initial	10	$0	$0	$24,300	1	10	0	0	0	0	$0	$0	0	
b) annual	10	$0	$0	$5,600	1	10	0	0	0	0	$0	$0	0	
Bag Leak Detection System Operation (sources that have fabric filters)														
a) initial	10	$0	$0	$25,500	1	10	0	0	0	0	$0	$0	0	
b) annual	10	$0	$0	$9,700	1	10	0	0	0	0	$0	$0	0	
Carbon Injection Monitoring System (all sources that use ACI to control Hg)														
a) initial	10	$0	$0	$115,000	1	10	0	0	0	0	$0	$0	0	
b) annual	10	$0	$0	$9,700	1	10	0	0	0	0	$0	$0	0	
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	
2) Notification of Compliance Status	8	$0	$0	$0	1	8	0	0	0	0	$0	$0	0	
3) Semi-annual Compliance Report	20	$0	$0	$0	2	40	0	0	0	0	$0	$0	0	
Reporting Subtotal								0	0	0	$0	$0	0	
4. Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													
D. Record Information														
1) Records of Operating Parameter Values	20	$0	$0	$0	1	20	0	0	0	0	$0	$0	0	
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	0	0	0	0	$0	$0	0	
3) Records of Stack Tests	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	0	
4) Records of Monitoring Device Calibrations	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	0	
5) Records of All Compliance Reports Submitted	2	$0	$0	$0	2	4	0	0	0	0	$0	$0	0	
6) Records of Monthly Fuel Use	0.5	$0	$0	$0	12	6	0	0	0	0	$0	$0	0	
E. Personnel Training	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	
F. Time for Audits	na													
Recordkeeping Subtotal								0	0	0	$0	$0		
Totals								**0**	**0**	**0**	**$0**	**$0**	**0**	

a There are no new large solid units expected to be constructed/reconstructed over the next 5 years

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 - Year 3, New 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 Per Year [(B+C+D)xExG]	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements													0	
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	a
B. Required Activities														
1. Initial Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	0	0	0	0	$0	$0	0	
2. Initial Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	
3. Initial Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	
4. Initial Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	0	0	0	0	$0	$0	0	
5. Initial Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	0	0	0	0	$0	$0	0	
6. Annual Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	0	0	0	0	$0	$0	0	
7. Annual Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	
8. Annual Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	
9. Annual Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	0	0	0	0	$0	$0	0	
10. Annual Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	0	0	0	0	$0	$0	0	
11. Repeat Stack Test and Report if Switch Fuels (for Hg and HCl)	24	$0	$16,000	$0	1	24	0	0	0	0	$0	$0	0	
12. Initial Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	1	5	0	0	0	0	$0	$0	0	
13. Monthly Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	12	60	0	0	0	0	$0	$0	0	
14. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	$0		$0	1	40	0	0	0	0	$0	$0	0	
Opacity														
a) initial	10	$0	$0	$43,100	1	10	0	0	0	0	$0	$0	0	
b) annual	10	$0	$0	$14,700	1	10	0	0	0	0	$0	$0	0	
PM (only sources greater than 250 mmBtu/hr)														
a) initial	10	$0	$0	$158,000	1	10	0	0	0	0	$0	$0	0	
b) annual	10	$0	$0	$56,100	1	10	0	0	0	0	$0	$0	0	
O2														
a) initial	10	$0	$0	$8,523	1	10	0	0	0	0	$0	$0	0	
b) annual	10	$0	$0	$1,436	1	10	0	0	0	0	$0	$0	0	
Scrubber System Monitoring and Operation (for units with wet scrubbers)														
a) initial	10	$0	$0	$24,300	1	10	0	0	0	0	$0	$0	0	
b) annual	10	$0	$0	$5,600	1	10	0	0	0	0	$0	$0	0	
Bag Leak Detection System Operation (sources that have fabric filters)														
a) initial	10	$0	$0	$25,500	1	10	0	0	0	0	$0	$0	0	
b) annual	10	$0	$0	$9,700	1	10	0	0	0	0	$0	$0	0	
Carbon Injection Monitoring System (all sources that use ACI to control Hg)														
a) initial	10	$0	$0	$115,000	1	10	0	0	0	0	$0	$0	0	
b) annual	10	$0	$0	$9,700	1	10	0	0	0	0	$0	$0	0	
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	
2) Notification of Compliance Status	8	$0	$0	$0	1	8	0	0	0	0	$0	$0	0	
3) Semi-annual Compliance Report	20	$0	$0	$0	2	40	0	0	0	0	$0	$0	0	
Reporting Subtotal								0	0	0	$0	$0	0	
4. Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													
D. Record Information														
1) Records of Operating Parameter Values	20	$0	$0	$0	1	20	0	0	0	0	$0	$0	0	
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	0	0	0	0	$0	$0	0	
3) Records of Stack Tests	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	0	
4) Records of Monitoring Device Calibrations	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	0	
5) Records of All Compliance Reports Submitted	2	$0	$0	$0	2	4	0	0	0	0	$0	$0	0	
6) Records of Monthly Fuel Use	0.5	$0	$0	$0	12	6	0	0	0	0	$0	$0	0	
E. Personnel Training	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	
F. Time for Audits	na													
Recordkeeping Subtotal								0	0	0	$0	$0	0	
Totals								**0**	**0**	**0**	**$0**	**$0**	**0**	

a There are no new large solid units expected to be constructed/reconstructed over the next 5 years

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, New 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 Per Year [(B+C+D)xExG]	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	2	80	8	4	$8,702	$0	0	a
B. Required Activities														
1. Initial Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	3	36	4	2	$3,916	$15,000	0	a,h
2. Initial Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	a
3. Initial Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	a
4. Initial Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	4	48	5	2	$5,221	$28,000	0	a
5. Initial Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	4	48	5	2	$5,221	$64,000	0	a
6. Annual Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	0	0	0	0	$0	$0	0	a,j
7. Annual Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	a,j
8. Annual Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	a,j
9. Annual Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	0	0	0	0	$0	$0	0	a,j
10. Annual Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	0	0	0	0	$0	$0	0	a,j
11. Repeat Stack Test and Report if Switch Fuels (for Hg and HCl)	24	$0	$16,000	$0	1	24	0	0	0	0	$0	$0	0	c,k
12. Initial Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	1	5	4	20	2	1	$2,176	$1,600	0	a,g
13. Monthly Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	12	60	0	0	0	0	$0	$0	0	a,g
14. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	$0		$0	1	40	2	80	8	4	$8,702	$0	0	a
Opacity													0	
a) initial	10	$0	$0	$43,100	1	10	0	0	0	0	$0	$0	0	a
b) annual	10	$0	$0	$14,700	1	10	0	0	0	0	$0	$0	0	a
PM (only sources greater than 250 mmBtu/hr)														
a) initial	10	$0	$0	$158,000	1	10	1	10	1	1	$1,088	$158,000	0	a,c
b) annual	10	$0	$0	$56,100	1	10	1	10	1	1	$1,088	$56,100	0	a,c
O2														
a) initial	10	$0	$0	$8,523	1	10	4	40	4	2	$4,351	$34,092	0	a
b) annual	10	$0	$0	$1,436	1	10	4	40	4	2	$4,351	$5,744	0	a
Scrubber System Monitoring and Operation (for units with wet scrubbers)														
a) initial	10	$0	$0	$24,300	1	10	4	40	4	2	$4,351	$97,200	0	a
b) annual	10	$0	$0	$5,600	1	10	4	40	4	2	$4,351	$22,400	0	a
Bag Leak Detection System Operation (sources that have fabric filters)														
a) initial	10	$0	$0	$25,500	1	10	2	20	2	1	$2,176	$51,000	0	a
b) annual	10	$0	$0	$9,700	1	10	2	20	2	1	$2,176	$19,400	0	a
Carbon Injection Monitoring System (all sources that use ACI to control Hg)														
a) initial	10	$0	$0	$115,000	1	10	3	30	3	2	$3,263	$345,000	0	a
b) annual	10	$0	$0	$9,700	1	10	3	30	3	2	$3,263	$29,100	0	a
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	4	0	0	$435	$0	2	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	2	16	2	1	$1,740	$0	2	a
3) Semi-annual Compliance Report	20	$0	$0	$0	2	40	2	80	8	4	$8,702	$0	4	a
Reporting Subtotal								692	69	35	$75,274	$926,636	8	
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	80	8	4	$8,702	$0	0	a
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	4	60	6	3	$6,527	$0	0	a
3) Records of Stack Tests	2	$0	$0	$0	1	2	4	8	1	0	$870	$0	0	a
4) Records of Monitoring Device Calibrations	2	$0	$0	$0	1	2	4	8	1	0	$870	$0	0	a
5) Records of All Compliance Reports Submitted	2	$0	$0	$0	2	4	4	16	2	1	$1,740	$0	0	a
6) Records of Monthly Fuel Use	0.5	$0	$0	$0	12	6	4	24	2	1	$2,611	$0	0	a,g
E. Personnel Training	40	$0	$0	$0	1	40	2	80	8	4	$8,702	$0	0	i
F. Time for Audits	na													
Recordkeeping Subtotal								276	28	14	$30,023	$0		
Totals								**968**	**97**	**48**	**$105,297**	**$926,636**	**8**	

a The total number of new large liquid fuel boilers estimated in the first 3 years of this rule is 10. 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 3 boilers per year, in the first year 4 new boilers are projected. 4 new facilities will be subject in the first 3 years. It is assumed that 2 facilities will report in in year 1, and 1 facility per year in years 2 and 3.

b A one-time requirement.

c Only one unit is greater than 250 mmBtu/hr. This unit is counted during the first year

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. These site visits are assumed to be conducted by certified energy professionals. Based on the distribution projected new fuel consumption, 75% of facilities are in the commercial sector while the remaining 25% of facilities are in the industrial sector. It is assumed that one of the five facilities will be at an industrial facility.

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

g New large liquid units are expected to determine compliance through fuel analysis not stack testing

h Only units less than 250 mmBtu/hr are expected to perform stack testing for PM. Units greater than 250 mmBtu/hr will be equipped with a PM CEMS

i For on-going training activities to keep personnel updated in order to implement compliance activities.

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

k Only applies to large solid fuel boilers, because solid fuel boilers may fire a mix of non-homogeneous fuels. Assumed zero respondents for liquid and gas units.

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, New 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 Per Year [(B+C+D)xExG]	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	1	40	4	2	$4,351	$0	0	a
B. Required Activities														
1. Initial Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	3	36	4	2	$3,916	$15,000	0	a,h
2. Initial Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	a
3. Initial Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	a
4. Initial Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	3	36	4	2	$3,916	$21,000	0	a
5. Initial Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	3	36	4	2	$3,916	$48,000	0	a
6. Annual Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	3	36	4	2	$3,916	$15,000	0	a,j
7. Annual Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	a,j
8. Annual Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	a,j
9. Annual Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	4	48	5	2	$5,221	$28,000	0	a,j
10. Annual Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	4	48	5	2	$5,221	$64,000	0	a,j
11. Repeat Stack Test and Report if Switch Fuels (for Hg and HCl)	24	$0	$16,000	$0	1	24	0	0	0	0	$0	$0	0	c,k
12. Initial Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	1	5	3	15	2	1	$1,632	$1,200	0	a,g
13. Monthly Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	12	60	4	240	24	12	$26,107	$19,200	0	a,g
14. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	$0		$0	1	40	1	40	4	2	$4,351	$0	0	a
Opacity													0	
a) initial	10	$0	$0	$43,100	1	10	0	0	0	0	$0	$0	0	a
b) annual	10	$0	$0	$14,700	1	10	0	0	0	0	$0	$0	0	a
PM (only sources greater than 250 mmBtu/hr)														
a) initial	10	$0	$0	$158,000	1	10	0	0	0	0	$0	$0	0	a,c
b) annual	10	$0	$0	$56,100	1	10	1	10	1	1	$1,088	$56,100	0	a,c
O2														
a) initial	10	$0	$0	$8,523	1	10	3	30	3	2	$3,263	$25,569	0	a
b) annual	10	$0	$0	$1,436	1	10	7	70	7	4	$7,614	$10,052	0	a
Scrubber System Monitoring and Operation (for units with wet scrubbers)														
a) initial	10	$0	$0	$24,300	1	10	3	30	3	2	$3,263	$72,900	0	a
b) annual	10	$0	$0	$5,600	1	10	7	70	7	4	$7,614	$39,200	0	a
Bag Leak Detection System Operation (sources that have fabric filters)														
a) initial	10	$0	$0	$25,500	1	10	1	10	1	1	$1,088	$25,500	0	a
b) annual	10	$0	$0	$9,700	1	10	3	30	3	2	$3,263	$29,100	0	a
Carbon Injection Monitoring System (all sources that use ACI to control Hg)														
a) initial	10	$0	$0	$115,000	1	10	3	30	3	2	$3,263	$345,000	0	a
b) annual	10	$0	$0	$9,700	1	10	6	60	6	3	$6,527	$58,200	0	a
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
1) Initial Notification that Source is Subject	2	$0	$0	$0	1	2	1	2	0	0	$218	$0	1	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	1	8	1	0	$870	$0	1	a
3) Semi-annual Compliance Report	20	$0	$0	$0	2	40	3	120	12	6	$13,053	$0	6	a
Reporting Subtotal								1,045	105	52	$113,672	$873,021	8	
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	7	140	14	7	$15,229	$0	0	a
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	7	105	11	5	$11,422	$0	0	a
3) Records of Stack Tests	2	$0	$0	$0	1	2	7	14	1	1	$1,523	$0	0	a
4) Records of Monitoring Device Calibrations	2	$0	$0	$0	1	2	7	14	1	1	$1,523	$0	0	a
5) Records of All Compliance Reports Submitted	2	$0	$0	$0	2	4	7	28	3	1	$3,046	$0	0	a
6) Records of Monthly Fuel Use	0.5	$0	$0	$0	12	6	7	42	4	2	$4,569	$0	0	a,g
E. Personnel Training	40	$0	$0	$0	1	40	1	40	4	2	$4,351	$0	0	i
F. Time for Audits	na													
Recordkeeping Subtotal								383	38	19	$41,662	$0	0	
Totals								**1,428**	**143**	**71**	**$155,334**	**$873,021**	**8**	

a The total number of new large liquid fuel boilers estimated in the first 3 years of this rule is 10. 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 3 boilers per year, in the first year 4 new boilers are projected. 4 new facilities will be subject in the first 3 years. It is assumed that 2 facilities will report in in year 1, and 1 facility per year in years 2 and 3.

b Energy audits are not required for new sources.

c Only one unit is greater than 250 mmBtu/hr. This unit is counted during the first year

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

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

g New large liquid units are expected to determine compliance through fuel analysis not stack testing

h Only units less than 250 mmBtu/hr are expected to perform stack testing for PM. Units greater than 250 mmBtu/hr will be equipped with a PM CEMS

i For on-going training activities to keep personnel updated in order to implement compliance activities.

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

k Only applies to large solid fuel boilers, because solid fuel boilers may fire a mix of non-homogeneous fuels. Assumed zero respondents for liquid and gas units.

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, New 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 Per Year [(B+C+D)xExG]	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	1	40	4	2	$4,351	$0	0	a
B. Required Activities														
1. Initial Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	3	36	4	2	$3,916	$15,000	0	a,h
2. Initial Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	a
3. Initial Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	a
4. Initial Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	3	36	4	2	$3,916	$21,000	0	a
5. Initial Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	3	36	4	2	$3,916	$48,000	0	a
6. Annual Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	6	72	7	4	$7,832	$30,000	0	a,j
7. Annual Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	a,j
8. Annual Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	a,j
9. Annual Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	7	84	8	4	$9,137	$49,000	0	a,j
10. Annual Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	7	84	8	4	$9,137	$112,000	0	a,j
11. Repeat Stack Test and Report if Switch Fuels (for Hg and HCl)	24	$0	$16,000	$0	1	24	0	0	0	0	$0	$0	0	c,k
12. Initial Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	1	5	3	15	2	1	$1,632	$1,200	0	a,g
13. Monthly Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	12	60	7	420	42	21	$45,687	$33,600	0	a,g
14. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	$0		$0	1	40	1	40	4	2	$4,351	$0	0	a
Opacity													0	
a) initial	10	$0	$0	$43,100	1	10	0	0	0	0	$0	$0	0	a
b) annual	10	$0	$0	$14,700	1	10	0	0	0	0	$0	$0	0	a
PM (only sources greater than 250 mmBtu/hr)														
a) initial	10	$0	$0	$158,000	1	10	0	0	0	0	$0	$0	0	a,c
b) annual	10	$0	$0	$56,100	1	10	1	10	1	1	$1,088	$56,100	0	a,c
O2														
a) initial	10	$0	$0	$8,523	1	10	3	30	3	2	$3,263	$25,569	0	a
b) annual	10	$0	$0	$1,436	1	10	10	100	10	5	$10,878	$14,360	0	a
Scrubber System Monitoring and Operation (for units with wet scrubbers)														
a) initial	10	$0	$0	$24,300	1	10	3	30	3	2	$3,263	$72,900	0	a
b) annual	10	$0	$0	$5,600	1	10	10	100	10	5	$10,878	$56,000	0	a
Bag Leak Detection System Operation (sources that have fabric filters)														
a) initial	10	$0	$0	$25,500	1	10	1	10	1	1	$1,088	$25,500	0	a
b) annual	10	$0	$0	$9,700	1	10	4	40	4	2	$4,351	$38,800	0	a
Carbon Injection Monitoring System (all sources that use ACI to control Hg)														
a) initial	10	$0	$0	$115,000	1	10	2	20	2	1	$2,176	$230,000	0	a
b) annual	10	$0	$0	$9,700	1	10	8	80	8	4	$8,702	$77,600	0	a
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
1) Initial Notification that Source is Subject	2	$0	$0	$0	1	2	1	2	0	0	$218	$0	1	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	1	8	1	0	$870	$0	1	a
3) Semi-annual Compliance Report	20	$0	$0	$0	2	40	4	160	16	8	$17,404	$0	8	a
Reporting Subtotal								1,453	145	73	$158,054	$906,629	10	
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	10	200	20	10	$21,756	$0	0	a
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	10	150	15	8	$16,317	$0	0	a
3) Records of Stack Tests	2	$0	$0	$0	1	2	10	20	2	1	$2,176	$0	0	a
4) Records of Monitoring Device Calibrations	2	$0	$0	$0	1	2	10	20	2	1	$2,176	$0	0	a
5) Records of All Compliance Reports Submitted	2	$0	$0	$0	2	4	10	40	4	2	$4,351	$0	0	a
6) Records of Monthly Fuel Use	0.5	$0	$0	$0	12	6	10	60	6	3	$6,527	$0	0	a,g
E. Personnel Training	40	$0	$0	$0	1	40	1	40	4	2	$4,351	$0	0	i
F. Time for Audits	na													
Recordkeeping Subtotal								530	53	27	$57,652	$0	0	
Totals								**1,983**	**198**	**99**	**$215,706**	**$906,629**	**10**	

a The total number of new large liquid fuel boilers estimated in the first 3 years of this rule is 10. 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 3 boilers per year, in the first year 4 new boilers are projected. 4 new facilities will be subject in the first 3 years. It is assumed that 2 facilities will report in in year 1, and 1 facility per year in years 2 and 3.

b Energy audits are not required for new sources.

c Only one unit is greater than 250 mmBtu/hr. This unit is counted during the first year

d 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.

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

g New large liquid units are expected to determine compliance through fuel analysis not stack testing

h Only units less than 250 mmBtu/hr are expected to perform stack testing for PM. Units greater than 250 mmBtu/hr will be equipped with a PM CEMS

i For on-going training activities to keep personnel updated in order to implement compliance activities.

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

k Only applies to large solid fuel boilers, because solid fuel boilers may fire a mix of non-homogeneous fuels. Assumed zero respondents for liquid and gas units.

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, New Large Gas 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 Per Year [(B+C+D)xExG]	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	1	40	4	2	$4,351	$0	0	a
B. Required Activities														
1. Initial Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	0	0	0	0	$0	$0	0	e
2. Initial Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	e
3. Initial Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	e
4. Initial Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	0	0	0	0	$0	$0	0	e
5. Initial Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	0	0	0	0	$0	$0	0	e
6. Annual Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	0	0	0	0	$0	$0	0	a
7. Annual Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	a
8. Annual Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	a
9. Annual Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	0	0	0	0	$0	$0	0	a
10. Annual Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	0	0	0	0	$0	$0	0	a
11. Repeat Stack Test and Report if Switch Fuels (for Hg and HCl)	24	$0	$21,000	$0	1	24	0	0	0	0	$0	$0	0	a,e
12. Initial Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	1	5	0	0	0	0	$0	$0	0	a,f
Content	5	$0	$400	$0	12	60	0	0	0	0	$0	$0	0	a,f
14. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	$0		$0	1	40	0	0	0	0	$0	$0	0	a
Opacity														
a) initial	10	$0	$0	$43,100	1	10	0	0	0	0	$0	$0	0	a
b) annual	10	$0	$0	$14,700	1	10	0	0	0	0	$0	$0	0	a
PM (only sources greater than 250 mmBtu/hr)														
a) initial	10	$0	$0	$158,000	1	10	0	0	0	0	$0	$0	0	a
b) annual	10	$0	$0	$56,100	1	10	0	0	0	0	$0	$0	0	a
O2														
a) initial	10	$0	$0	$8,523	1	10	0	0	0	0	$0	$0	0	a
b) annual	10	$0	$0	$1,436	1	10	0	0	0	0	$0	$0	0	a
Scrubber System Monitoring and Operation (for units with wet scrubbers)														
a) initial	10	$0	$0	$24,300	1	10	0	0	0	0	$0	$0	0	a
b) annual	10	$0	$0	$5,600	1	10	0	0	0	0	$0	$0	0	a
Bag Leak Detection System Operation (sources that have fabric filters)														
a) initial	10	$0	$0	$25,500	1	10	0	0	0	0	$0	$0	0	a
b) annual	10	$0	$0	$9,700	1	10	0	0	0	0	$0	$0	0	a
15. Annual Tune-up	12	$0	$2,875	$0	1	12	3	36	4	2	$3,916	$8,625	0	c
16. Mercury and H2S Fuel Spec Analysis	10	$0	$400	$0	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	$0	1	2	1	2	0	0	$218	$0	1	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	1	8	1	0	$870	$0	1	a
3) Annual Compliance Report	20	$0	$0	$0	1	20	3	60	6	3	$6,527	$0	3	a, e
4) Semi-annual Compliance Report	20	$0	$0	$0	2	40	0	0	0	0	$0	$0	0	a, e
5) Notification of Alternative Fuel Use	5	$0	$0	$0	1	5	1	5	1	0	$544	$0	1	i
Reporting Subtotal								146	15	7	$15,882	$8,625	5	
4. Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													d
D. Record Information														
1) Records of Operating Parameter Values	20	$0	$0	$0	1	20	0	0	0	0	$0	$0	0	a
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	0	0	0	0	$0	$0	0	a
3) Records of Stack Tests	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	0	a
4) Records of Monitoring Device Calibrations	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	0	a
Submitted	2	$0	$0	$0	2	4	3	12	1	1	$1,305	$0	0	a, e
6) Records of All Semi-Annual Compliance Reports Submitted	2	$0	$0	$0	2	4	0	0	0	0	$0	$0	0	a, e
7) Records of Monthly Fuel Use	0.5	$0	$0	$0	12	6	3	18	2	1	$1,958	$0	0	a
8) Records of Annual Tune-up	0.25	$0	$0	$0	1	0.25	3	1	0	0	$82	$0	3	c
E. Personnel Training	40	$0	$0	$0	1	40	1	40	4	2	$4,351	$0	0	g
F. Time for Audits	na													
Recordkeeping Subtotal								71	7	4	$7,696	$0		
Totals								**217**	**22**	**11**	**$23,578**	**$8,625**	**5**	

a In order to calculate a per year estimate of the number of new boilers required to meet these rule requirements, the number of new projected boilers online by 2013 is divided by 3. There are two new facilities with six new gas boilers. A facility with 3 new large gas boilers per year is anticipated to come online in years 1 and 2.

b A one-time requirement.

c Energy Audits are a requirement for existing units only.

d Assumes facility must already maintain records on boiler insurance and/or maintenance schedule as part of their operations. No new record system would be required.

e Only facilities with process gas (gas 2 units) subject to numerical emission limits are expected to be required to submit semi-annual compliance reports and conduct testing and monitoring (There will not be any new process gas units). Natural gas and refinery gas units are required to submit reports annually and conduct a tune-up.

f Process gas units are expected to demonstrate compliance with a stack test instead of a fuel analysis.

g For on-going training activities to keep personnel updated in order to implement compliance activities.

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, New Large Gas 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 Per Year [(B+C+D)xExG]	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	1	40	4	2	$4,351	$0	0	a
B. Required Activities														
1. Initial Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	0	0	0	0	$0	$0	0	e
2. Initial Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	e
3. Initial Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	e
4. Initial Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	0	0	0	0	$0	$0	0	e
5. Initial Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	0	0	0	0	$0	$0	0	e
6. Annual Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	0	0	0	0	$0	$0	0	a
7. Annual Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	a
8. Annual Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	a
9. Annual Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	0	0	0	0	$0	$0	0	a
10. Annual Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	0	0	0	0	$0	$0	0	a
11. Repeat Stack Test and Report if Switch Fuels (for Hg and HCl)	24	$0	$21,000	$0	1	24	0	0	0	0	$0	$0	0	a,e
12. Initial Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	1	5	0	0	0	0	$0	$0	0	a,f
Content	5	$0	$400	$0	12	60	0	0	0	0	$0	$0	0	a,f
14. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	$0		$0	1	40	1	40	4	2	$4,351	$0	0	a
Opacity														
a) initial	10	$0	$0	$43,100	1	10	0	0	0	0	$0	$0	0	a
b) annual	10	$0	$0	$14,700	1	10	0	0	0	0	$0	$0	0	a
PM (only sources greater than 250 mmBtu/hr)														
a) initial	10	$0	$0	$158,000	1	10	0	0	0	0	$0	$0	0	a
b) annual	10	$0	$0	$56,100	1	10	0	0	0	0	$0	$0	0	a
O2														
a) initial	10	$0	$0	$8,523	1	10	0	0	0	0	$0	$0	0	a
b) annual	10	$0	$0	$1,436	1	10	0	0	0	0	$0	$0	0	a
Scrubber System Monitoring and Operation (for units with wet scrubbers)														
a) initial	10	$0	$0	$24,300	1	10	0	0	0	0	$0	$0	0	a
b) annual	10	$0	$0	$5,600	1	10	0	0	0	0	$0	$0	0	a
Bag Leak Detection System Operation (sources that have fabric filters)														
a) initial	10	$0	$0	$25,500	1	10	0	0	0	0	$0	$0	0	a
b) annual	10	$0	$0	$9,700	1	10	0	0	0	0	$0	$0	0	a
15. Annual Tune-up	12	$0	$2,875	$0	1	12	6	72	7	4	$7,832	$17,250	0	c
16. Mercury and H2S Fuel Spec Analysis	10	$0	$400	$0	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	$0	1	2	1	2	0	0	$218	$0	1	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	1	8	1	0	$870	$0	1	a
3) Annual Compliance Report	20	$0	$0	$0	2	40	6	240	24	12	$26,107	$0	12	a, e
4) Semi-annual Compliance Report	20	$0	$0	$0	2	40	0	0	0	0	$0	$0	0	a, e
5) Notification of Alternative Fuel Use	5	$0	$0	$0	1	5	0	0	0	0	$0	$0	0	i
Reporting Subtotal								402	40	20	$43,729	$17,250	14	
4. Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													d
D. Record Information														
1) Records of Operating Parameter Values	20	$0	$0	$0	1	20	0	0	0	0	$0	$0	0	a
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	0	0	0	0	$0	$0	0	a
3) Records of Stack Tests	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	0	a
4) Records of Monitoring Device Calibrations	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	0	a
Submitted	2	$0	$0	$0	2	4	6	24	2	1	$2,611	$0	0	a, e
6) Records of All Semi-Annual Compliance Reports Submitted	2	$0	$0	$0	2	4	0	0	0	0	$0	$0	0	a, e
7) Records of Monthly Fuel Use	0.5	$0	$0	$0	12	6	6	36	4	2	$3,916	$0	0	a
8) Records of Annual Tune-up	0.25	$0	$0	$0	1	0.25	6	2	0	0	$163	$0	6	c
E. Personnel Training	40	$0	$0	$0	1	40	1	40	4	2	$4,351	$0	0	g
F. Time for Audits	na													
Recordkeeping Subtotal								102	10	5	$11,041	$0		
Totals								**504**	**50**	**25**	**$54,769**	**$17,250**	**14**	

a In order to calculate a per year estimate of the number of new boilers required to meet these rule requirements, the number of new projected boilers online by 2013 is divided by 3. There are two new facilities with six new gas boilers. A facility with 3 new large gas boilers per year is anticipated to come online in years 1 and 2.

b A one-time requirement.

c Energy Audits are a requirement for existing units only.

d Assumes facility must already maintain records on boiler insurance and/or maintenance schedule as part of their operations. No new record system would be required.

e Only facilities with process gas (gas 2 units) subject to numerical emission limits are expected to be required to submit semi-annual compliance reports and conduct testing and monitoring (There will not be any new process gas units). Natural gas and refinery gas units are required to submit reports annually and conduct a tune-up.

f Process gas units are expected to demonstrate compliance with a stack test instead of a fuel analysis.

g For on-going training activities to keep personnel updated in order to implement compliance activities.

h Assume all units will fire natural gas, so fuel spec analysis not necessary.

i Assumed no units would fire an alternative fuel.

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, New Large Gas 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 Per Year [(B+C+D)xExG]	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	a
B. Required Activities														
1. Initial Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	0	0	0	0	$0	$0	0	e
2. Initial Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	e
3. Initial Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	e
4. Initial Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	0	0	0	0	$0	$0	0	e
5. Initial Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	0	0	0	0	$0	$0	0	e
6. Annual Stack Test and Report (for PM)	12	$0	$5,000	$0	1	12	0	0	0	0	$0	$0	0	a
7. Annual Stack Test and Report (for Hg)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	a
8. Annual Stack Test and Report (for HCl)	12	$0	$8,000	$0	1	12	0	0	0	0	$0	$0	0	a
9. Annual Stack Test and Report (for CO)	12	$0	$7,000	$0	1	12	0	0	0	0	$0	$0	0	a
10. Annual Stack Test and Report (for D/F)	12	$0	$16,000	$0	1	12	0	0	0	0	$0	$0	0	a
11. Repeat Stack Test and Report if Switch Fuels (for Hg and HCl)	24	$0	$21,000	$0	1	24	0	0	0	0	$0	$0	0	a,e
12. Initial Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	1	5	0	0	0	0	$0	$0	0	a,f
13. Monthly Fuel Analysis for Mercury and HCL Content	5	$0	$400	$0	12	60	0	0	0	0	$0	$0	0	a,f
14. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	$0		$0	1	40	0	0	0	0	$0	$0	0	a
Opacity														
a) initial	10	$0	$0	$43,100	1	10	0	0	0	0	$0	$0	0	a
b) annual	10	$0	$0	$14,700	1	10	0	0	0	0	$0	$0	0	a
PM (only sources greater than 250 mmBtu/hr)														
a) initial	10	$0	$0	$158,000	1	10	0	0	0	0	$0	$0	0	a
b) annual	10	$0	$0	$56,100	1	10	0	0	0	0	$0	$0	0	a
O2														
a) initial	10	$0	$0	$8,523	1	10	0	0	0	0	$0	$0	0	a
b) annual	10	$0	$0	$1,436	1	10	0	0	0	0	$0	$0	0	a
Scrubber System Monitoring and Operation (for units with wet scrubbers)														
a) initial	10	$0	$0	$24,300	1	10	0	0	0	0	$0	$0	0	a
b) annual	10	$0	$0	$5,600	1	10	0	0	0	0	$0	$0	0	a
Bag Leak Detection System Operation (sources that have fabric filters)														
a) initial	10	$0	$0	$25,500	1	10	0	0	0	0	$0	$0	0	a
b) annual	10	$0	$0	$9,700	1	10	0	0	0	0	$0	$0	0	a
15. Annual Tune-up	12	$0	$2,875	$0	1	12	6	72	7	4	$7,832	$17,250	0	c
16. Mercury and H2S Fuel Spec Analysis	10	$0	$400	$0	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	$0	1	2	0	0	0	0	$0	$0	0	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	0	0	0	0	$0	$0	0	a
3) Annual Compliance Report	20	$0	$0	$0	1	20	6	120	12	6	$13,053	$0	6	a, e
4) Semi-annual Compliance Report	20	$0	$0	$0	2	40	0	0	0	0	$0	$0	0	a, e
5) Notification of Alternative Fuel Use	5	$0	$0	$0	1	5	0	0	0	0	$0	$0	0	i
Reporting Subtotal								192	19	10	$20,885	$17,250	6	
4. Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													d
D. Record Information														
1) Records of Operating Parameter Values	20	$0	$0	$0	1	20	0	0	0	0	$0	$0	0	a
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	0	0	0	0	$0	$0	0	a
3) Records of Stack Tests	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	0	a
4) Records of Monitoring Device Calibrations	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	0	a
5) Records of All Annual Compliance Reports Submitted	2	$0	$0	$0	2	4	6	24	2	1	$2,611	$0	0	a, e
6) Records of All Semi-Annual Compliance Reports Submitted	2	$0	$0	$0	2	4	0	0	0	0	$0	$0	0	a, e
7) Records of Monthly Fuel Use	0.5	$0	$0	$0	12	6	6	36	4	2	$3,916	$0	0	a
8) Records of Annual Tune-up	0.25	$0	$0	$0	1	0.25	6	2	0	0	$163	$0	6	c
E. Personnel Training	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	g
F. Time for Audits	na													
Recordkeeping Subtotal								62	6	3	$6,690	$0		
Totals								**254**	**25**	**13**	**$27,575**	**$17,250**	**6**	

a In order to calculate a per year estimate of the number of new boilers required to meet these rule requirements, the number of new projected boilers online by 2013 is divided by 3. There are two new facilities with six new gas boilers. A facility with 3 new large gas boilers per year is anticipated to come online in years 1 and 2.

b A one-time requirement.

c Energy Audits are a requirement for existing units only.

d Assumes facility must already maintain records on boiler insurance and/or maintenance schedule as part of their operations. No new record system would be required.

e Only facilities with process gas (gas 2 units) subject to numerical emission limits are expected to be required to submit semi-annual compliance reports and conduct testing and monitoring (There will not be any new process gas units). Natural gas and refinery gas units are required to submit reports annually and conduct a tune-up.

f Process gas units are expected to demonstrate compliance with a stack test instead of a fuel analysis.

g For on-going training activities to keep personnel updated in order to implement compliance activities.

h Assume all units will fire natural gas, so fuel spec analysis not necessary.

i Assumed no units would fire an alternative fuel.

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 - Year 1, Existing Small and Limited Use 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 Per Year ((B+C+D)x ExG)	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	4	160	16	8	$17,404	$0	0	a
B. Required Activities														
1. Conduct Energy Audit														
a) Commerical	20	$854	$0	$0	1	20	0	0	0	0	$0	$0	0	b,c, d
b) Industrial	20	$18,292	$0	$0	1	20	0	0	0	0	$0	$0	0	b,c, d
2. Biennual 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	4	8	1	0	$870	$0	4	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	0	0	0	0	$0	$0	0	c
3) Biennial Compliance Report	5	$0	$0	$0	0.5	2.5	0	0	0	0	$0	$0	0	f
4) Initial Report on results of Energy Audit	5	$0	$0	$0	1	5	0	0	0	0	$0	$0	0	c
Reporting Subtotal								168	17	8	$18,275	$0	4	
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	0.5	1	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	g
3) Biennial Tune-Up Records	0.5	$0	$0	$0	0.5	0.25	0	0	0	0	$0	$0	0	c
E. Personnel Training	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	h
F. Time for Audits	na													
Recordkeeping Subtotal								0	0	0	$0	$0	0	
Totals								**168**	**17**	**8**	**$18,275**	**$0**	**4**	

a Number of respondents based on number of existing small and limited use solid fuel boilers which includes biomass and coal units less than 10 mmBtu/hr or operating less than 876 hours.

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. Based on the distribution facility NAICS codes in the 2008 combustion unit survey database, 12.6% of facilities are in the commercial sector while the remaining 87.4% of facilities are in the industrial sector.

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. These site visits are assumed to be conducted by certified energy professionals. There are 4 existing facilities under this category and it is assumed that all will be industrial facility since industrial is the vast majority of projected units.

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

f Since a tune-up is required biennially, every two years, the compliance reports for small units are also due every two years. Records of the tune-ups will be submitted to the Administrator upon request.

g Small units are not required to maintain records on startup, shutdown and malfunction.

h For on-going training activities to keep personnel updated in order to implement compliance activities.

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 - Year 2, Existing Small and Limited Use 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 Per Year ((B+C+D)x ExG)	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	a
B. Required Activities														
1. Conduct Energy Audit														
a) Commerical	20	$854	$0	$0	1	20	0	0	0	0	$0	$0	0	b,c, d
b) Industrial	20	$18,292	$0	$0	1	20	2	40	4	2	$4,351	$36,584	0	b,c, d
2. Biennual Tune-Up	12	$0	$2,228	$0	0.5	6	18	108	11	5	$11,748	$40,104	0	c
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
1) Initial Notification that Source is Subject	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	0	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	0	0	0	0	$0	$0	0	c
3) Biennial Compliance Report	5	$0	$0	$0	0.5	2.5	0	0	0	0	$0	$0	0	f
4) Initial Report on results of Energy Audit	5	$0	$0	$0	1	5	0	0	0	0	$0	$0	0	c
Reporting Subtotal								148	15	7	$16,099	$76,688	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	0.5	1	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	g
3) Biennial Tune-Up Records	0.5	$0	$0	$0	0.5	0.25	0	0	0	0	$0	$0	0	c
E. Personnel Training	40	$0	$0	$0	1	40	2	80	8	4	$8,702	$0	0	h
F. Time for Audits	na													
Recordkeeping Subtotal								80	8	4	$8,702	$0	0	
Totals								**228**	**23**	**11**	**$24,801**	**$76,688**	**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. Energy audit burdens for this unit will be accounted for in year 2.

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. Based on the distribution facility NAICS codes in the 2008 combustion unit survey database, 12.6% of facilities are in the commercial sector while the remaining 87.4% of facilities are in the industrial sector. The one facility with biomass boilers is expected to be at industrial facility and it will conduct the audit in year 2.

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. Annualized cost of $2228 for a tune-up is calculated considering a biennual schedule.

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. These site visits are assumed to be conducted by certified energy professionals. There are 4 existing facilities under this category and it is assumed that all will be industrial facility since industrial is the vast majority of projected units.

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

f Since a tune-up is required biennially, every two years, the compliance reports for small units are also due every two years. Records of the tune-ups will be submitted to the Administrator upon request.

g Small units are not required to maintain records on startup, shutdown and malfunction.

h For on-going training activities to keep personnel updated in order to implement compliance activities.

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 - Year 3, Existing Small and Limited Use 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 Per Year ((B+C+D)x ExG)	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	a
B. Required Activities														
1. Conduct Energy Audit														
a) Commerical	20	$854	$0	$0	1	20	0	0	0	0	$0	$0	0	b,c, d
b) Industrial	20	$18,292	$0	$0	1	20	2	40	4	2	$4,351	$36,584	0	b,c, d
2. Biennual Tune-Up	12	$0	$2,228	$0	0.5	6	18	108	11	5	$11,748	$40,104	0	c
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
1) Initial Notification that Source is Subject	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	0	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	4	32	3	2	$3,481	$0	4	c
3) Biennial Compliance Report	5	$0	$0	$0	0.5	2.5	4	10	1	1	$1,088	$0	2	f
4) Initial Report on results of Energy Audit	5	$0	$0	$0	1	5	4	20	2	1	$2,176	$0	4	c
Reporting Subtotal								210	21	11	$22,843	$76,688	10	
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	0.5	1	36	36	4	2	$3,916	$0	0	c
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	0	0	0	0	$0	$0	0	g
3) Biennial Tune-Up Records	0.5	$0	$0	$0	0.5	0.25	36	9	1	0	$979	$0	0	c
E. Personnel Training	40	$0	$0	$0	1	40	2	80	8	4	$8,702	$0	0	h
F. Time for Audits	na													
Recordkeeping Subtotal								125	12.5	6.25	$13,597	$0	0	
Totals								**335**	**34**	**17**	**$36,440**	**$76,688**	**10**	

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. Based on the distribution facility NAICS codes in the 2008 combustion unit survey database, 12.6% of facilities are in the commercial sector while the remaining 87.4% of facilities are in the industrial sector.

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. These site visits are assumed to be conducted by certified energy professionals. There are 4 existing facilities under this category and it is assumed that all will be industrial facility since industrial is the vast majority of projected units.

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

f Since a tune-up is required biennially, every two years, the compliance reports for small units are also due every two years. Records of the tune-ups will be submitted to the Administrator upon request.

g Small units are not required to maintain records on startup, shutdown and malfunction.

h For on-going training activities to keep personnel updated in order to implement compliance activities.

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 - Year 1, Existing Small and Limited Use 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 Per Year ((B+C+D)xEx G)	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	42	1,680	168	84	$182,746	$0	0	a
B. Required Activities														
1. Conduct Energy Audit														
a) Commerical	20	$854	$0	$0	1	20	0	0	0	0	$0	$0	0	b, c, d
b) Industrial	20	$18,292	$0	$0	1	20	0	0	0	0	$0	$0	0	b, c, d
2. Biennual Tune-Up	12	$0	$2,228	$0	0.5	6	0	0	0	0	$0	$0	0	c, f
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
1) Initial Notification that Source is Subject	2	$0	$0	$0	1	2	42	84	8	4	$9,137	$0	42	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	0	0	0	0	$0	$0	0	c
3) Biennial Compliance Report	5	$0	$0	$0	0.5	2.5	0	0	0	0	$0	$0	0	c, f
4) Initial Report on results of Energy Audit	5	$0	$0	$0	1	5	0	0	0	0	$0	$0	0	c
Reporting Subtotal								1,764	176	88	$191,884	$0	42	
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	0.5	1	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	c, g
3) Biennial Tune-Up Records	0.5	$0	$0	$0	0.5	0.25	0	0	0	0	$0	$0	0	c, f
E. Personnel Training	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	h
F. Time for Audits	na													
Recordkeeping Subtotal								0	0	0	$0	$0	0	
Totals								**1,764**	**176**	**88**	**$191,884**	**$0**	**42**	

a Number of respondents based on number of existing small and limited use liquid fuel boilers which includes units less than 10 mmBtu/hr or operating less than 876 hours.

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. Based on the distribution of facilities with affected boilers or process heaters, 87.4% of facilities are in the industrial sector while the remaining 12.6% of facilities are in the commercial sector.

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. 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 Since a tune-up is required biennially, every two years, the compliance reports for small units are also due every two years. Records of the tune-ups will be submitted to the Administrator upon request.

g Small units are not required to maintain records on startup, shutdown and malfunction.

h For on-going training activities to keep personnel updated in order to implement compliance activities.

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 - Year 2, Existing Small and Limited Use 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 Per Year ((B+C+D)xExG)	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	a
B. Required Activities														
1. Conduct Energy Audit														
a) Commerical	20	$854	$0	$0	1	20	3	60	6	3	$6,527	$2,562	0	b, c, d
b) Industrial	20	$18,292	$0	$0	1	20	18	360	36	18	$39,160	$329,256	0	b, c, d
2. Biennual Tune-Up	12	$0	$2,228	$0	0.5	6	179	1,074	107	54	$116,827	$398,812	0	c, f
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
1) Initial Notification that Source is Subject	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	0	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	0	0	0	0	$0	$0	0	c
3) Biennial Compliance Report	5	$0	$0	$0	0.5	2.5	0	0	0	0	$0	$0	0	c, f
4) Initial Report on results of Energy Audit	5	$0	$0	$0	1	5	0	0	0	0	$0	$0	0	c
Reporting Subtotal								1,494	149	75	$162,514	$730,630	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	0.5	1	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	c, g
3) Biennial Tune-Up Records	0.5	$0	$0	$0	0.5	0.25	0	0	0	0	$0	$0	0	c, f
E. Personnel Training	40	$0	$0	$0	1	40	21	840	84	42	$91,373	$0	0	h
F. Time for Audits	na													
Recordkeeping Subtotal								840	84	42	$91,373	$0	0	
Totals								**2,334**	**233**	**117**	**$253,887**	**$730,630**	**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. Based on the distribution of facilities with affected boilers or process heaters, 87.4% of facilities are in the industrial sector while the remaining 12.6% of facilities are in the commercial sector.

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. 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 Since a tune-up is required biennially, every two years, the compliance reports for small units are also due every two years. Records of the tune-ups will be submitted to the Administrator upon request.

g Small units are not required to maintain records on startup, shutdown and malfunction.

h For on-going training activities to keep personnel updated in order to implement compliance activities.

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 - Year 3, Existing Small and Limited Use 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 Per Year ((B+C+D)xExG)	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	a
B. Required Activities														
1. Conduct Energy Audit														
a) Commerical	20	$854	$0	$0	1	20	3	60	6	3	$6,527	$2,562	0	b, c, d
b) Industrial	20	$18,292	$0	$0	1	20	18	360	36	18	$39,160	$329,256	0	b, c, d
2. Biennual Tune-Up	12	$0	$2,228	$0	0.5	6	179	1,074	107	54	$116,827	$398,812	0	c, f
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
1) Initial Notification that Source is Subject	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	0	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	42	336	34	17	$36,549	$0	42	c
3) Biennial Compliance Report	5	$0	$0	$0	0.5	2.5	42	105	11	5	$11,422	$0	21	c, f
4) Initial Report on results of Energy Audit	5	$0	$0	$0	1	5	42	210	21	11	$22,843	$0	42	c
Reporting Subtotal								2,145	215	107	$233,328	$730,630	105	
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	0.5	1	358	358	36	18	$38,942	$0	0	c
2) Records of Startup, Shutdown, Malfunction	15	$0	$0	$0	1	15	0	0	0	0	$0	$0	0	c, g
3) Biennial Tune-Up Records	0.5	$0	$0	$0	0.5	0.25	358	90	9	4	$9,736	$0	0	c, f
E. Personnel Training	40	$0	$0	$0	1	40	21	840	84	42	$91,373	$0	0	h
F. Time for Audits	na													
Recordkeeping Subtotal								1287.5	128.75	64.375	$140,051	$0	0	
Totals								**3,433**	**343**	**172**	**$373,379**	**$730,630**	**105**	

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. Based on the distribution of facilities with affected boilers or process heaters, 87.4% of facilities are in the industrial sector while the remaining 12.6% of facilities are in the commercial sector.

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. 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 Since a tune-up is required biennially, every two years, the compliance reports for small units are also due every two years. Records of the tune-ups will be submitted to the Administrator upon request.

g Small units are not required to maintain records on startup, shutdown and malfunction.

h For on-going training activities to keep personnel updated in order to implement compliance activities.

Table 9.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 and Limited Use Gas 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 Per Year ((B+C+D)xExG)	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	887	35,480	3,548	1,774	$3,859,426	$0	0	a
B. Required Activities														
1. Conduct Energy Audit														
a) Commerical	20	$854	$0	$0	1	20	0	0	0	0	$0	$0	0	b, c, d
b) Industrial	20	$18,292	$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, f
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
1) Initial Notification that Source is Subject	2	$0	$0	$0	1	2	887	1,774	177	89	$192,971	$0	887	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	0	0	0	0	$0	$0	0	c
3) Biennial Compliance Report	5	$0	$0	$0	0.5	2.5	0	0	0	0	$0	$0	0	c, f
4) Initial Report on results of Energy Audit	5	$0	$0	$0	1	5	0	0	0	0	$0	$0	0	c
Reporting Subtotal								37,254	3,725	1,863	$4,052,397	$0	887	
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	0.5	1	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	c, g
3) Biennial Tune-Up Records	0.5	$0	$0	$0	0.5	0.25	0	0	0	0	$0	$0	0	c, f
E. Personnel Training	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	h
F. Time for Audits	na													
Recordkeeping Subtotal								0	0	0	$0	$0	0	
Totals								**37,254**	**3,725**	**1,863**	**$4,052,397**	**$0**	**887**	

a Number of respondents based on number of existing small and limited use gas fuel boilers which includes units less than 10 mmBtu/hr or operating less than 876 hours.

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. Based on the distribution of facilities with affected boilers or process heaters, 87.4% of facilities are in the industrial sector while the remaining 12.6% of facilities are in the commercial sector.

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. 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 Since a tune-up is required biennially, every two years, the compliance reports for small units are also due every two years. Records of the tune-ups will be submitted to the Administrator upon request.

g Small units are not required to maintain records on startup, shutdown and malfunction.

h For on-going training activities to keep personnel updated in order to implement compliance activities.

Table 9.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 and Limited Use Gas 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 Per Year ((B+C+D)xExG)	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	a
B. Required Activities														
1. Conduct Energy Audit														
a) Commerical	20	$854	$0	$0	1	20	56	1,120	112	56	$121,831	$47,824	0	b, c, d
b) Industrial	20	$18,292	$0	$0	1	20	388	7,760	776	388	$844,113	$7,097,296	0	b, c, d
2. Biennial Tune-Up	12	$0	$1,580	$0	0.5	6	3,742	22,452	2,245	1,123	$2,442,272	$5,912,360	0	c, f
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
1) Initial Notification that Source is Subject	2	$0	$0	$0	1	2	0	0	0	0	$0	$0	0	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	0	0	0	0	$0	$0	0	c
3) Biennial Compliance Report	5	$0	$0	$0	0.5	2.5	0	0	0	0	$0	$0	0	c, f
4) Initial Report on results of Energy Audit	5	$0	$0	$0	1	5	0	0	0	0	$0	$0	0	c
Reporting Subtotal								31,332	3,133	1,567	$3,408,217	$13,057,480	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	0.5	1	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	c, g
3) Biennial Tune-Up Records	0.5	$0	$0	$0	0.5	0.25	0	0	0	0	$0	$0	0	c, f
E. Personnel Training	40	$0	$0	$0	1	40	444	17,760	1,776	888	$1,931,888	$0	$0	h
F. Time for Audits	na													
Recordkeeping Subtotal								17760	1776	888	$1,931,888	$0	0	
Totals								**49,092**	**4,909**	**2,455**	**$5,340,105**	**$13,057,480**	**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. Based on the distribution of facilities with affected boilers or process heaters, 87.4% of facilities are in the industrial sector while the remaining 12.6% of facilities are in the commercial sector.

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. 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 Since a tune-up is required biennially, every two years, the compliance reports for small units are also due every two years. Records of the tune-ups will be submitted to the Administrator upon request.

g Small units are not required to maintain records on startup, shutdown and malfunction.

h For on-going training activities to keep personnel updated in order to implement compliance activities.

Table 9.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 and Limited Use Gas Fuel Units

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Emission Test Contractor Hours Per Occurrence	(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 Per Year ((B+C+D)xExG)	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na														
2. Surveys and Studies	na														
3. Reporting Requirements															
A. Read and Understand Rule Requirements	40		$0	$0	$0	1	40	0	0	0	0	$0	$0	0	a
B. Required Activities															
1. Conduct Energy Audit															
a) Commerical	20		$854	$0	$0	1	20	56	1,119	112	56	$121,709	$47,776	0	b, c, d
b) Industrial	20		$18,292	$0	$0	1	20	387	7,744	774	387	$842,334	$7,082,333	0	b, c, d
2. Biennial Tune-Up	12		$0	$1,580	$0	0.5	6	3,742	22,452	2,245	1,123	$2,442,272	$5,912,360	0	c, f
C. Create Information	na														
D. Gather Information	na														
E. Report Preparation															
1) Initial Notification that Source is Subject	2		$0	$0	$0	1	2	0	0	0	0	$0	$0	0	a
2) Notification of Compliance Status	8		$0	$0	$0	1	8	887	7,096	710	355	$771,885	$0	887	c
3) Biennial Compliance Report	5		$0	$0	$0	0.5	2.5	887	2,218	222	111	$241,214	$0	444	c, f
4) Initial Report on results of Energy Audit	5		$0	$0	$0	1	5	887	4,435	444	222	$482,428	$0	887	c
Reporting Subtotal									45,063	4,506	2,253	$4,901,843	$13,042,469	2,218	
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	$0	0.5	1	7,484	7,484	748	374	$814,091	$0	0	c
2) Records of Startup, Shutdown, Malfunction	15	0	$0	$0	$0	1	15	0	0	0	0	$0	$0	0	c, g
3) Biennial Tune-Up Records	0.5		$0	$0	$0	0.5	0.25	7,484	1,871	187	94	$203,523	$0	0	c, f
E. Personnel Training	40		$0	$0	$0	1	40	443	17,720	1,772	886	$1,927,537	$0	0	h
F. Time for Audits	na														
Recordkeeping Subtotal									27075	2707.5	1353.75	$2,945,151	$0	0	
Totals									**72,138**	**7,214**	**3,607**	**$7,846,993**	**$13,042,469**	**2,218**	

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. Based on the distribution of facilities with affected boilers or process heaters, 87.4% of facilities are in the industrial sector while the remaining 12.6% of facilities are in the commercial sector.

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. 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 Since a tune-up is required biennially, every two years, the compliance reports for small units are also due every two years. Records of the tune-ups will be submitted to the Administrator upon request.

g Small units are not required to maintain records on startup, shutdown and malfunction.

h For on-going training activities to keep personnel updated in order to implement compliance activities.

Table 10.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, New 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 Per Year ((B+C+D)xExG)	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	a
B. Required Activities														
1. Biennial Tune-Up	12	$0	$2,228	$0	0.5	6	0	0	0	0	$0	$0	0	
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	
2) Notification of Compliance Status	8	$0	$0	$0	1	8	0	0	0	0	$0	$0	0	
3) Biennial Compliance Report	5	$0	$0	$0	0.5	2.5	0	0	0	0	$0	$0	0	
Reporting Subtotal								0	0	0	0	0	0	
4. Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													
D. Record Information														
1) Records of All Notifications and Compliance Reports Submitted	2	$0	$0	$0	0.5	1	0	0	0	0	$0	$0	0	
3) Biennial Tune-Up Records	0.5	$0	$0	$0	0.5	0.25	0	0	0	0	$0	$0	0	
E. Personnel Training	40	$0	$0	$0	1	40	0	0	0	0	$0	$0		
F. Time for Audits	na													
Recordkeeping Subtotal								0	0	0	$0	$0	0	
Totals								**0**	**0**	**0**	**$0**	**$0**	**0**	

a There are no new small solid units expected to be constructed/reconstructed over the next 3 years.

Table 10.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, New 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 Per Year ((B+C+D)xExG)	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	a
B. Required Activities														
1. Biennial Tune-Up	12	$0	$2,228	$0	0.5	6	0	0	0	0	$0	$0	0	
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	
2) Notification of Compliance Status	8	$0	$0	$0	1	8	0	0	0	0	$0	$0	0	
3) Biennial Compliance Report	5	$0	$0	$0	0.5	2.5	0	0	0	0	$0	$0	0	
Reporting Subtotal								0	0	0	0	0	0	
4. Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													
D. Record Information														
1) Records of All Notifications and Compliance Reports Submitted	2	$0	$0	$0	0.5	1	0	0	0	0	$0	$0	0	
3) Biennial Tune-Up Records	0.5	$0	$0	$0	0.5	0.25	0	0	0	0	$0	$0	0	
E. Personnel Training	40	$0	$0	$0	1	40	0	0	0	0	$0	$0		
F. Time for Audits	na													
Recordkeeping Subtotal								0	0	0	$0	$0	0	
Totals								**0**	**0**	**0**	**$0**	**$0**	**0**	

a There are no new small solid units expected to be constructed/reconstructed over the next 3 years.

Table 10.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, New 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 Per Year ((B+C+D)xExG)	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	a
B. Required Activities														
1. Biennial Tune-Up	12	$0	$2,228	$0	0.5	6	0	0	0	0	$0	$0	0	
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	
2) Notification of Compliance Status	8	$0	$0	$0	1	8	0	0	0	0	$0	$0	0	
3) Biennial Compliance Report	5	$0	$0	$0	0.5	2.5	0	0	0	0	$0	$0	0	
Reporting Subtotal								0	0	0	0	0	0	
4. Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													
D. Record Information														
1) Records of All Notifications and Compliance Reports Submitted	2	$0	$0	$0	0.5	1	0	0	0	0	$0	$0	0	
3) Biennial Tune-Up Records	0.5	$0	$0	$0	0.5	0.25	0	0	0	0	$0	$0	0	
E. Personnel Training	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	$0	
F. Time for Audits	na													
Recordkeeping Subtotal								0	0	0	$0	$0	0	
Totals								**0**	**0**	**0**	**$0**	**$0**	**0**	

a There are no new small solid units expected to be constructed/reconstructed over the next 3 years.

Table 11.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, New 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 Per Year ((B+C+D)xExG)	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	1	40	4	2	$4,351	$0	0	a
B. Required Activities														
1. Biennial Tune-Up	12	$0	$2,228	$0	0.5	6	3	18	2	1	$1,958	$6,684	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	1	2	0	0	$218	$0	1	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	1	8	1	0	$870	$0	1	c
3) Biennial Compliance Report	5	$0	$0	$0	0.5	2.5	1	3	0	0	$272	$0	1	
Reporting Subtotal								71	7	4	7,669	6,684	3	
4. Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													b
D. Record Information														
1) Records of All Notifications and Compliance Reports Submitted	2	$0	$0	$0	0.5	1	3	3	0	0	$326	$0	0	
2) Biennial Tune-Up Records	0.5	$0	$0	$0	0.5	0.25	3	1	0	0	$82	$0	0	
E. Personnel Training	40	$0	$0	$0	1	40	1	40	4	2	$4,351	$0	0	d
F. Time for Audits	na													
Recordkeeping Subtotal								43.75	4.375	2.1875	$4,759	$0	0	
Totals								**114**	**11**	**6**	**$12,428**	**$6,684**	**3**	

a The total number of facilities with new small liquid fuel boilers estimated in the first 3 years of this rule is 1.

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

c Assumes all boilers will comply during first year.

d For on-going training activities to keep personnel updated in order to implement compliance activities.

Table 11.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, New 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 Per Year ((B+C+D)xExG)	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	a
B. Required Activities														
1. 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	0	0	0	0	$0	$0	0	
2) Notification of Compliance Status	8	$0	$0	$0	1	8	0	0	0	0	$0	$0	0	
3) Biennial Compliance Report	5	$0	$0	$0	0.5	2.5	1	3	0	0	$272	$0	1	
Reporting Subtotal								3	0	0	272	0	1	
4. Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													b
D. Record Information														
1) Records of All Notifications and Compliance Reports Submitted	2	$0	$0	$0	0.5	1	3	3	0	0	$326	$0	0	
2) Biennial Tune-Up Records	0.5	$0	$0	$0	0.5	0.25	3	1	0	0	$82	$0	0	
E. Personnel Training	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	d
F. Time for Audits	na													
Recordkeeping Subtotal								3.75	0.375	0.1875	$408	$0	0	
Totals								**6**	**1**	**0**	**$680**	**$0**	**1**	

a The total number of new small liquid fuel boilers estimated in the first 5 years of this rule is 2. The burden for these units was accounted for in year 1. Year 2 and 3 will not have additional burden, but annual burden for these two units will occur in years 2 and 3.
b Assumes facility must already maintain records on boiler insurance and/or maintenance schedule. No new record system would be required.
c Assumes all boilers will comply during first year.
d For on-going training activities to keep personnel updated in order to implement compliance activities.

Table 11.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, New 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 Per Year ((B+C+D)xExG)	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	a
B. Required Activities														
1. 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	0	0	0	0	$0	$0	0	
2) Notification of Compliance Status	8	$0	$0	$0	1	8	0	0	0	0	$0	$0	0	
3) Biennial Compliance Report	5	$0	$0	$0	0.5	2.5	1	3	0	0	$272	$0	1	
Reporting Subtotal								3	0	0	272	0	1	
4. Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													b
D. Record Information														
1) Records of All Notifications and Compliance Reports Submitted	2	$0	$0	$0	0.5	1	3	3	0	0	$326	$0	0	
2) Biennial Tune-Up Records	0.5	$0	$0	$0	0.5	0.25	3	1	0	0	$82	$0	0	
E. Personnel Training	40	$0	$0	$0	1	40	0	0	0	0	$0	$0	0	d
F. Time for Audits	na													
Recordkeeping Subtotal								3.75	0.375	0.1875	$408	$0	0	
Totals								**6**	**1**	**0**	**$680**	**$0**	**1**	

a The total number of new small liquid fuel boilers estimated in the first 5 years of this rule is 2. The burden for these units was accounted for in year 1. Year 2 and 3 will not have additional burden, but annual burden for these two units will occur in years 2 and 3.

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

c Assumes all boilers will comply during first year.

d For on-going training activities to keep personnel updated in order to implement compliance activities.

Table 12.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, New Small Gas 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 Per Year ((B+C+D)xExG)	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	3	120	12	6	$13,053	$0	0	a
B. Required Activities														
1. Biennial Tune-Up	12	$0	$2,228	$0	0.5	6	10	60	6	3	$6,527	$22,280	0	a
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
1) Initial Notification that Source is Subject	2	$0	$0	$0	1	2	3	6	1	0	$653	$0	3	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	3	24	2	1	$2,611	$0	3	a
3) Biennial Compliance Report	5	$0	$0	$0	0.5	2.5	3	8	1	0	$816	$0	2	a
Reporting Subtotal								218	22	11	23,659	22,280	8	
4. Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													b
D. Record Information														
1) Records of All Notifications and Compliance Reports Submitted	2	$0	$0	$0	0.5	1	10	10	1	1	$1,088	$0	0	a
2) Biennial Tune-Up Records	0.5	$0	$0	$0	0.5	0.25	10	3	0	0	$272	$0	0	a
E. Personnel Training	40	$0	$0	$0	1	40	3	120	12	6	$13,053	$0	0	c
F. Time for Audits	na													
Recordkeeping Subtotal								132.5	13.25	6.625	$14,413	$0	0	
Totals								**350**	**35**	**18**	**$38,072**	**$22,280**	**8**	

a In order to calculate a per year estimate of the number of new boilers required to meet these rule requirements, the number of new projected boilers online by 2013 is divided by 3. 28 boilers and 9 facilities mean that 1 facility per year comes on line. It is estimated that the facility in year 1 has 10 boilers and the other two facilities have 9 boilers each.

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

c For on-going training activities to keep personnel updated in order to implement compliance activities.

Table 12.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, New Small Gas 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 Per Year ((B+C+D)xExG)	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	3	120	12	6	$13,053	$0	0	a
B. Required Activities														
1. Biennial Tune-Up	12	$0	$2,228	$0	0.5	6	9	54	5	3	$5,874	$20,052	0	a
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
1) Initial Notification that Source is Subject	2	$0	$0	$0	1	2	3	6	1	0	$653	$0	3	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	3	24	2	1	$2,611	$0	3	a
3) Biennial Compliance Report	5	$0	$0	$0	0.5	2.5	6	15	2	1	$1,632	$0	3	a
Reporting Subtotal								219	22	11	23,822	20,052	9	
4. Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													b
D. Record Information														
1) Records of All Notifications and Compliance Reports Submitted	2	$0	$0	$0	0.5	1	19	19	2	1	$2,067	$0	0	a
2) Biennial Tune-Up Records	0.5	$0	$0	$0	0.5	0.25	19	5	0	0	$517	$0	0	a
E. Personnel Training	40	$0	$0	$0	1	40	3	120	12	6	$13,053	$0	0	a
F. Time for Audits	na													
Recordkeeping Subtotal								143.75	14.375	7.1875	$15,637	$0	0	
Totals								**363**	**36**	**18**	**$39,459**	**$20,052**	**9**	

a In order to calculate a per year estimate of the number of new boilers required to meet these rule requirements, the number of new projected boilers online by 2013 is divided by 3.

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

c For on-going training activities to keep personnel updated in order to implement compliance activities.

Table 12.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, New Small Gas 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 Per Year ((B+C+D)xExG)	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	$0	$0	$0	1	40	3	120	12	6	$13,053	$0	0	a
B. Required Activities														
1. Biennial Tune-Up	12	$0	$2,228	$0	0.5	6	9	54	5	3	$5,874	$20,052	0	a
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
1) Initial Notification that Source is Subject	2	$0	$0	$0	1	2	3	6	1	0	$653	$0	3	a
2) Notification of Compliance Status	8	$0	$0	$0	1	8	3	24	2	1	$2,611	$0	3	a
3) Biennial Compliance Report	5	$0	$0	$0	0.5	2.5	9	23	2	1	$2,447	$0	5	a
Reporting Subtotal								227	23	11	24,638	20,052	11	
4. Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													b
D. Record Information														
1) Records of All Notifications and Compliance Reports Submitted	2	$0	$0	$0	0.5	1	28	28	3	1	$3,046	$0	0	a
2) Biennial Tune-Up Records	0.5	$0	$0	$0	0.5	0.25	28	7	1	0	$761	$0	0	a
E. Personnel Training	40	$0	$0	$0	1	40	3	120	12	6	$13,053	$0	0	c
F. Time for Audits	na													
Recordkeeping Subtotal								155	15.5	7.75	$16,861	$0	0	
Totals								**382**	**38**	**19**	**$41,499**	**$20,052**	**11**	

a In order to calculate a per year estimate of the number of new boilers required to meet these rule requirements, the number of new projected boilers online by 2013 is divided by 3.

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

c

Agency Labor Rates

Managerial	$62.27
Clerical	$25.01
Technical	$46.21

Per Diem Info

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

Other Data

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

Table 13.A. Annual Federal Government Burden and Cost of Recordkeeping and Reporting for the Industrial, Commercial, and Institutional Boiler and Process Heater Major Source NESHAP Subpart DDDDD- 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, $ k	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	1,646	3,292	3,292	165	329	$170,606	b
3. Required activities								
A. Observe initial stack/performance test	40	2	80	80	4	8	$4,146	c
B. Observe repeat performance test	40	2	80	80	4	8	$4,146	d
C. Review operating parameters	2	11	22	22	1	2	$1,140	e
D. Review continuous parameter monitoring	2	4	8	8	0	1	$415	f
4 Excess Emissions Enforcement Activities and Inspections	24	1	0	0	0	0	$0	g
5 Notification requirements								
A. Review initial notification that sources are subject to the standard	2	1,646	3,292	3,292	165	329	$170,606	b
B. Review notification of initial performance tests and review test plan	20	11	220	220	11	22	$11,401	e
C. Review notification of compliance status	2	7	14	14	1	1	$726	b
6. Reporting requirements			0	0	0	0	$0	
A. Review semiannual compliance report	4	4	16	16	1	2	$829	h
B. Review annual compliance report	2	0	0	0	0	0	$0	i
C. Review biennial compliance report	1	2	2	2	0	0	$104	j
D. Review initial report on results of energy audit	2	0	0	0	0	0	$0	L
7. Travel Expenses for Tests Attended	3 days * ($110 hotel + $58 meals/incidentals) + ($600 round trip) = $1104 per trip						$4,416	m
TOTAL BURDEN AND COST (SALARY)				9,426	471	943	**$492,914**	
TOTAL ANNUAL HOURS						**10,840**		

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

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

c Number of occurences is based on the assumption that EPA personnel will observe 20% of the initial performance tests that occur.

d Number of occurences is based on the assumption that of the units that test, 10% will have to retest and EPA personnel will observe all these retests. In addition solid fuel units are expected to re-test to obtain worst-case con

e Number of occurences is based on the number of units that will test and set/submit operating limits.

f Number of occurences 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 occurences is based on the assumption that of the units that test, 10% of them will have exceedances and need enforcement.

h Number of occurences is the number of units that will submit these semi-annual compliance reports, 2 reports per year per respondent.

i. Number of occurences is the number of units that will submit these annual compliance reports.

j. Number of occurences is the number units that will submit these biennial compliance reports.

k 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.

L Energy audits only occur at existing facilities.

m 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

Table 13.B. Annual Federal Government Burden and Cost of Recordkeeping and Reporting for the Industrial, Commercial, and Institutional Boiler and Process Heater Major Source NESHAP Subpart DDDDD- 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, $ [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	10	20	20	1	2	$1,036	b
3. Required activities								
A. Observe initial stack/performance test	40	702	28,080	28,080	1,404	2,808	$1,455,232	c
B. Observe repeat performance test	40	401	16,040	16,040	802	1,604	$831,265	d
C. Review operating parameters	2	3,511	7,022	7,022	351	702	$363,912	e
D. Review continuous parameter monitoring	2	7	14	14	1	1	$726	f
4 Excess Emissions Enforcement Activities and Inspections	24	351	0	0	0	0	$0	g
5 Notification requirements								
A. Review initial notification that sources are subject to the standard	2	5	10	10	1	1	$518	b
B. Review notification of initial performance tests and review test plan	20	3,100	62,000	62,000	3,100	6,200	$3,213,119	e
C. Review notification of compliance status	2	5	10	10	1	1	$518	b
6. Reporting requirements			0	0	0	0	$0	
A. Review semiannual compliance report	4	6	24	24	1	2	$1,244	h
B. Review annual compliance report	2	0	0	0	0	0	$0	i
C. Review biennial compliance report	1	4	4	4	0	0	$181	j
D. Review initial report on results of energy audit	2	0	0	0	0	0	$0	L
7. Travel Expenses for Tests Attended	3 days * ($110 hotel + $58 meals/incidentals) + ($600 round trip) = $1104 per trip						$1,217,712	m
TOTAL BURDEN AND COST (SALARY)				113,224	5,661	11,322	**$7,085,463**	
TOTAL ANNUAL HOURS						**130,207**		

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

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

c Number of occurences is based on the assumption that EPA personnel will observe 20% of the initial performance tests that occur.

d Number of occurences is based on the assumption that of the units that test, 10% will have to retest and EPA personnel will observe all these retests. In addition solid fuel units are expected to re-test to obtain worst-case con

e Number of occurences is based on the number of units that will test and set/submit operating limits.

f Number of occurences 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 occurences is based on the assumption that of the units that test, 10% of them will have exceedances and need enforcement.

h Number of occurences is the number of units that will submit these semi-annual compliance reports, 2 reports per year per respondent.

i. Number of occurences is the number of units that will submit these annual compliance reports.

j. Number of occurences is the number units that will submit these biennial compliance reports.

k 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.

L Energy audits only occur at existing facilities.

m 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

Table 13.C. Annual Federal Government Burden and Cost of Recordkeeping and Reporting for the Industrial, Commercial, and Institutional Boiler and Process Heater Major Source NESHAP Subpart DDDDD- 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, $ [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	1,647	3,294	3,294	165	329	$170,710	b
3. Required activities								
A. Observe initial stack/performance test	40	700	28,000	28,000	1,400	2,800	$1,451,086	c
B. Observe repeat performance test	40	400	16,000	16,000	800	1,600	$829,192	d
C. Review operating parameters	2	3,502	7,004	7,004	350	700	$362,979	e
D. Review continuous parameter monitoring	2	1,584	3,168	3,168	158	317	$164,180	f
4 Excess Emissions Enforcement Activities and Inspections	24	350	0	0	0	0	$0	g
5 Notification requirements								
A. Review initial notification that sources are subject to the standard	2	4	8	8	0	1	$415	b
B. Review notification of initial performance tests and review test plan	20	3,240	64,800	64,800	3,240	6,480	$3,358,228	e
C. Review notification of compliance status	2	1,643	3,286	3,286	164	329	$170,295	b
6. Reporting requirements			0	0	0	0	$0	
A. Review semiannual compliance report	4	378	1,512	1,512	76	151	$78,359	h
B. Review annual compliance report	2	521	1,042	1,042	52	104	$54,001	i
C. Review biennial compliance report	1	472	472	472	24	47	$24,435	j
B. Review initial report on results of energy audit	2	1,639	3,278	3,278	164	328	$169,881	L
7. Travel Expenses for Tests Attended	3 days * ($110 hotel + $58 meals/incidentals) + ($600 round trip) = $1104 per trip						$1,214,400	m
TOTAL BURDEN AND COST (SALARY)				131,864	6,593	13,186	**$8,048,160**	
TOTAL ANNUAL HOURS						**151,643**		

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

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

c Number of occurences is based on the assumption that EPA personnel will observe 20% of the initial performance tests that occur.

d Number of occurences is based on the assumption that of the units that test, 10% will have to retest and EPA personnel will observe all these retests. In addition solid fuel units are expected to re-test to obtain worst-case con

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f Number of occurences 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 occurences is based on the assumption that of the units that test, 10% of them will have exceedances and need enforcement.

h Number of occurences is the number of units that will submit these semi-annual compliance reports, 2 reports per year per respondent.

i. Number of occurences is the number of units that will submit these annual compliance reports.

j. Number of occurences is the number units that will submit these biennial compliance reports.

k 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.

L Energy audits only occur at existing facilities.

m 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