ICRAS SUMMARY		Reporting		Record	keeping		Total F	Recordkeeping an	d Reporting Costs
		Number of Respondents (Facilities)		Annualized Capital/Start-up and O&M	Annual Burden Hours			Annual Burden Hours	Annualized Capital/Start- up and O&M
Year 1	4,671,830	92,467	98,117	34,089,400	227,473	Year 1	98,117	4,899,304	\$ 34,089,400
Year 2	932,910	2,260	9,040	264,809,555	534,725	Year 2	9,040	1,467,635	\$ 264,809,555
Year 3	2,507,141	94,729	164,901	345,703,741	1,842,297	Year 3	164,901	4,349,439	\$ 345,703,741
Overall Average Annual Estimates	2,703,961	63,152	90,686	214,867,565	868,165	Overall Average Annual Estimates	90,686	3,572,126	\$ 214,867,565
Avg. Cost per Response				\$ 2,369					-
Avg. Burden Hours per Response	29.82			9.5733					

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

AGENCY Burden	Hours	Cost	s (labor + travel)
Year 1	707,3!	4 \$	33,394,953
Year 2	479,99	94 \$	25,410,475
Year 3	1,114,80	51 \$	54,022,261
Total	2,302,20	8 \$	112,827,689
Annual Average	767,40	3 \$	37,609,230

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

		Hazardous A		, ,	,					, · · · · · ·					
Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Certified Energy Audit Cost per Occurrence	(C) Stack Testing and Fuel Analysis Cost Per Occurrence	(D) Other Non-Labor Costs Per Occurrenc e	(E) Number of Occurrences Respondent Per Year\	(F) Technical Hours per Respondent Per Year (A X E)	(G) Number of Respondents Per Year	(H) Technical Hours per Year @ \$98.20 (F X G)	(I) Clerical Hours per Year @ \$48.53 (H X 0.1)	(J) Manageme nt Hours per Year @ \$114.49 (H X.05)	(K) Total Labor Costs Per Year	(L) Total Non- Labor Capital Costs	(M) Total Non- Labor Annual Costs	(N) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na														
2. Surveys and Studies	na														T
Reporting Requirements															
A. Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	2.020	80,780	8,078	4.039	\$8.787.046	\$0	\$0		a
B. Required Activities				+	_		_,,		-,	.,	**, **, **, **				+
Conduct Energy Audit															+
a) Industrial	20	\$18.292	\$0	\$0	1	20	0	0	0	0	\$0	\$0	\$0		b, c, d
b) Commercial	20	\$854	\$0	\$0	1	20	0	0	0	0	\$0	\$0	\$0		b, c, d
Initial Stack Test and Report (for Hg)	12	\$0	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	\$0		C C
Initial Performance Test and Report (for CO)	12	\$0	\$6,000	\$0	1	12	0	0	0	0	\$0	\$0	\$0		c,h
Annual Stack Test and Report (for Hg)	12	\$0	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	\$0		C
5. Annual Performance Test and Report (for CO)	12	\$0	\$6,000	\$0	1	12	0	0	0	0	\$0	\$0	\$0		c,h
6. Initial Fuel Analysis for Mercury Content	5	\$0 \$0	\$200	\$0	1	5	0	0	0	0	\$0	\$0	\$0		
7. Monthly Fuel Analysis for Mercury Content	5	\$0	\$200	\$0	12	60	0	0	0	0	\$0	\$0	\$0		g c,g
Continuous Parameter Monitoring	3	Ψυ	Ψ200	Φ0	12	00	U	0	U	0	ΨΟ	Ψυ	Φ0		c,y
	40	\$0	\$0	60	1	40	0	0	0		\$0	\$0	\$0		
Establish Site-specific monitoring plan (all)	40	\$ U	\$0	\$0	1	40	U	U	U	0	\$0	\$ U	\$0		С
CO (only sources greater than 100 mmBtu/hr)		4.0								_					ļ.,
a) initial	10	\$0	\$0	\$160,900	1	10	0	0	0	0	\$0	\$0	\$0		c,f
b) annual	10	\$0	\$0	\$53,600	1	10	0	0	0	0	\$0	\$0	\$0		С
Bag Leak Detection System Operation (all sources that have fabric filters)															
a) initial	10	\$0	\$0	\$25,500	1	10	0	0	0	0	\$0	\$0	\$0		С
b) annual	10	\$0	\$0	\$9,700	1	10	0	0	0	0	\$0	\$0	\$0		С
C. Create Information	na														
D. Gather Information	na														
E. Report Preparation															
Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	2,020	4,039	404	202	\$439,352	\$0	\$0	2,020	а
Notification of Compliance Status	8	\$0	\$0	\$0	1	8	0	0	0	0	\$0	\$0	\$0	0	С
Initial Report on results of Energy Audit	5	\$0	\$0	\$0	1	5	0	0	0	0	\$0	\$0	\$0	0	b, c, d
Semi-annual Compliance Report	20	\$0	\$0	\$0	2	40	0	0	0	0	\$0	\$0	\$0	0	а
Reporting Subtotal			1					84,819	8,482	4,241	9,226,399	0	0	2,020	i
Recordkeeping Requirements															-
A. Read Instructions	Included in 3a														
B. Implement Activities	na														
C. Develop Record System	na														е
D. Record Information															
Records of Operating Parameter Values	20	\$0	\$0	\$0	1	20	0	0	0	0	\$0	\$0	\$0	0	С
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	\$0	1	15	0	0	0	0	\$0	\$0	\$0	0	С
3) Records of Stack Tests	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	\$0	0	C
Records of Stack Tests Records of Monitoring Device Calibrations	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	\$0	0	C
5) Records of All Compliance Reports Submitted	2	\$0	\$0	\$0	2	4	0	0	0	0	\$0	\$0	\$0	0	C
6) Records of Monthly Fuel Use	0.5	\$0	\$0	\$0	12	6	0	0	0	0	\$0	\$0	\$0	0	c,g
E. Personnel Training	na	Ψ0	Ψ0	Ψ0	14		U	-	-		Ψυ	Ψυ	ΨΟ		c,y
F. Time for Audits	na														
	l IId								_		60	40	40		- :
Recordkeeping Subtotal								0	0	0	\$0	\$0	\$0	0	+ '
Totals								84.819	8.482	4.241	\$9,226,399	\$0	\$0	2.020	

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

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

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

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

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

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

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

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

i The burdens for monitoring are included in the recordkeeping subtotal

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

	.3111	a_araoao Ali			aastrial, O	aidi, d	montanone		. Jul 2, LA	- Luige	Soliu Fuel Olli		·	i	_
	(A) Respondent Hours per Occurrence	(B) Certified Energy Audit	(C) Stack Testing and Fuel Analysis	(D) Other Non-Labor Costs Per	(E) Number of Occurrences	(F) Technical Hours per Respondent	(G) Number of	(H) Technical Hours per Year @	(I) Clerical Hours per Year @	(J) Manageme nt Hours per Year @		(L) Total Non-	(M) Total Non-	(N) Total Number of	Footnotes
Burden Item	(Technical hours)	Cost per Occurrence	Cost Per Occurrence	Occurrenc e	Per Respondent Per Year\	Per Year (A X E)	Respondents Per Year	\$98.20 (F X G)	\$48.53 (H X 0.1)	\$114.49 (H X .05)	(K) Total Labor Costs Per Year	Labor Capital Costs	Labor Annual Costs	Responses per Year (E X G)	r to
1. Applications	na	Codditorioc	Cocamonoc	, ,	T OF TOUR	(*******)		٥,	7. 0.1)	71.00)	Coole For Four	00010	0000	70di (2770)	Т.
2. Surveys and Studies	na														
Reporting Requirements															
Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	0	0	0	0	\$0	\$0	\$0		а
B. Required Activities	i i	1		1	1	1	1	1	1	1	Ι	ĺ	1	1	1
Conduct Energy Audit															
a) Industrial	20	\$18,292	\$0	\$0	1	20	202	4,040	404	202	\$439,461	\$0	\$3,694,984		b, c, c
b) Commercial	20	\$854	\$0	\$0	1	20	1,818	36,360	3,636	1,818	\$3,955,150	\$0	\$1,552,572		b, c, c
Initial Stack Test and Report (for Hg)	12	\$0	\$5,000	\$0	1	12	287	3,444	344	172	\$374,630	\$0	\$1,435,000		C C
Initial Performance Test and Report (for CO)	12	\$0	\$6,000	\$0	1	12	1,996	23,952	2,395	1,198	\$2,605,439	\$0	\$11,976,000		c,h
Annual Stack Test and Report (for Hg)	12	\$0	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	\$0		C
Annual Performance Test and Report (for CO)	12	\$0	\$6,000	\$0	1	12	0	0	0	0	\$0	\$0	\$0		c,h
Initial Fuel Analysis for Mercury Content	5	\$0	\$200	\$0	1	5	0	0	0	0	\$0	\$1	\$0		g
Monthly Fuel Analysis for Mercury Content	5	\$0	\$200	\$0	12	60	0	0	0	0	\$0	\$0	\$0		c,g
Continuous Parameter Monitoring	-														1,3
Establish Site-specific monitoring plan (all)	40	\$0	\$0	\$0	1	40	1,010	40,400	4,040	2,020	\$4,394,611	\$0	\$0		С
CO (only sources greater than 100 mmBtu/hr)					_		-,	10,100	1,010	-,	+ 1,000 1,000				+-
a) initial	10	\$0	\$0	\$160,900	1	10	24	240	24	12	\$26,107	\$3,861,600	\$3.861.600		c,f
b) annual	10	\$0	\$0	\$53,600	1	10	24	240	24	12	\$26,107	\$0	\$1,286,400		C
Bag Leak Detection System Operation	10	Ψ0	40	400,000	-	10		2.0			420,201	40	\$2,200,100		+ -
(all sources that have fabric filters)	4.0	**	**	405 500		40	101	1 010	101		4475.400	44405 500	*****		
a) initial	10	\$0	\$0	\$25,500	1	10	161	1,610	161	81	\$175,132	\$4,105,500	\$4,105,500		С
b) annual	10	\$0	\$0	\$9,700	1	10	161	1,610	161	81	\$175,132	\$0	\$1,561,700		С
C. Create Information	na														
D. Gather Information	na														
E. Report Preparation														_	
Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	\$0	0	а
Notification of Compliance Status	8	\$0	\$0	\$0	1	8	0	0	0	0	\$0	\$0	\$0	0	С
Initial Report on results of Energy Audit	5	\$0	\$0	\$0	1	5	0	0	0	0	\$0	\$0	\$0	0	b, c, c
Semi-annual Compliance Report	20	\$0	\$0	\$0	2	40	0	0	0	0	\$0	\$0	\$0	0	С
Reporting Subtotal								67,796	6,780	3,390	7,374,679	1	18,658,556	0	i
Recordkeeping Requirements															
A. Read Instructions	Included in 3a														
B. Implement Activities	na														
C. Develop Record System	na														е
D. Record Information															
Records of Operating Parameter Values	20	\$0	\$0	\$0	1	20	0	0	0	0	\$0	\$0	\$0	0	С
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	\$0	1	15	0	0	0	0	\$0	\$0	\$0	0	С
Records of Stack Tests	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	\$0	0	С
Records of Monitoring Device Calibrations	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	\$0	0	С
5) Records of All Compliance Reports Submitted	2	\$0	\$0	\$0	2	4	0	0	0	0	\$0	\$0	\$0	0	С
Records of Monthly Fuel Use	0.5	\$0	\$0	\$0	12	6	0	0	0	0	\$0	\$0	\$0	0	c,g
E. Personnel Training	na													•	
F. Time for Audits	na														
Recordkeeping Subtotal								44,100	4,410	2,205	\$4,797,088	\$7,967,100	\$10,815,200	0	i i
Totals								111.896	11.190	5.595	\$12,171,767	\$7,967,101	\$29,473,756	0	
iviais								111,030	11,130	3,333	Ψ12,111,101	\$1,301,101	φ23,413,130	U	

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

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

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

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

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

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

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

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

i The burdens for monitoring are included in the recordkeeping subtotal

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

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

	101 1	iazai uous Aii	Poliulants (N	ESHAP) IC	i illuusillai, C	ommerciai, a	and Institutiona	ii bullers -	Teal 3, Exi	Sung Large	John Fuel Offic	.3			
	(A) Respondent Hours per Occurrence (Technical	(B) Certified Energy Audit Cost per	(C) Stack Testing and Fuel Analysis Cost Per	(D) Other Non-Labor Costs Per Occurrenc	(E) Number of Occurrences Per Respondent		(G) Number of Respondents	(H) Technical Hours per Year @ \$98.20 (F X			(K) Total Labor	(L) Total Non- Labor Capital	(M) Total Non- Labor Annual	(N) Total Number of Responses per	Footnotes
Burden Item	hours)	Occurrence	Occurrence	е	Per Year\	(A X E)	Per Year	G)	X 0.1)	X .05)	Costs Per Year	Costs	Costs	Year (E X G)	й
Applications	na														-
Surveys and Studies	na														
Reporting Requirements															
Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	0	0	0	0	\$0	\$0	\$0		a
B. Required Activities															
Conduct Energy Audit															
a) Industrial	20	\$18,292	\$0	\$0	1	20	202	4,040	404	202	\$439,461	\$0	\$3,694,984		b, c, c
b) Commercial	20	\$854	\$0	\$0	1	20	1,818	36,360	3,636	1,818	\$3,955,150	\$0	\$1,552,572		b, c, c
Initial Stack Test and Report (for Hg)	12	\$0	\$5,000	\$0	1	12	287	3,444	344	172	\$374,630	\$0	\$1,435,000		C, j
Initial Performance Test and Report (for CO)	12	\$0	\$6,000	\$0	1	12	1,996	23,952	2,395	1,198	\$2,605,439	\$0	\$11,976,000		c,h
Annual Stack Test and Report (for Hg)	12	\$0	\$5,000	\$0	1	12	287	3,444	344	172	\$374.630	\$0	\$1,435,000		C, j
5. Annual Performance Test and Report (for CO)	12	\$0	\$6,000	\$0	1	12	1.996	23,952	2,395	1.198	\$2,605,439	\$0	\$11.976.000		c,h
Initial Fuel Analysis for Mercury Content	5	\$0	\$200	\$0	1	5	0	0	0	0	\$0	\$1	\$0		g
Monthly Fuel Analysis for Mercury Content	5	\$0	\$200	\$0	12	60	0	0	0	0	\$0	\$0	\$0		c,g
Continuous Parameter Monitoring	Ů		4200					_ <u> </u>	-		***	+0	+		0,9
Establish Site-specific monitoring plan (all)	40	\$0		\$0	1	40	1,010	40,400	4,040	2,020	\$4,394,611	\$0	\$0		С
CO (only sources greater than 100 mmBtu/hr)	40	ΨΟ		ΨΟ	-	40	1,010	40,400	4,040	2,020	Ψ4,334,011	ΨΟ	ΨΟ		-
a) initial	10	\$0	\$0	\$160,900	1	10	24	240	24	12	\$26,107	\$3,861,600	\$3,861,600		c,f
b) annual	10	\$0 \$0	\$0	\$53,600	1	10	24	240	24	12	\$26,107	\$3,661,600	\$1,286,400		C
Bag Leak Detection System Operation	10	40	ΨΟ	Ψ33,000	1	10	24	240	24	12	Ψ20,107	Ψ0	\$1,200,400		
(all sources that have fabric filters)	10	\$0	\$0	\$25,500	1	10	161	1,610	161	81	\$175,132	\$4,105,500	\$4,105,500		_
a) initial		\$0 \$0			1										С
b) annual	10	\$0	\$0	\$9,700	1	10	322	3,220	322	161	\$350,264	\$0	\$3,123,400		С
C. Create Information	na														
D. Gather Information	na														
E. Report Preparation					_					-					
Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	\$0	0	а
Notification of Compliance Status	8	\$0	\$0	\$0	1	8	2,020	16,160	1,616	808	\$1,757,844	\$0	\$0	2,020	С
Initial Report on results of Energy Audit	5	\$0	\$0	\$0	1	5	2,020	10,100	1,010	505	\$1,098,653	\$0	\$0	2,020	b,c,d
Semi-annual Compliance Report	20	\$0	\$0	\$0	2	40	2,020	80,800	8,080	4,040	\$8,789,222	\$0	\$0	4,040	С
Reporting Subtotal								202,252	20,225	10,113	22,000,467	1	32,069,556	8,080	i
Recordkeeping Requirements															
A. Read Instructions	Included in 3a														
B. Implement Activities	na														
C. Develop Record System	na														е
D. Record Information															
Records of Operating Parameter Values	20	\$0	\$0	\$0	1	20	4,039	80,780	8,078	4,039	\$8,787,046	\$0	\$0	4,039	С
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	\$0	1	15	4,039	60,585	6,059	3,029	\$6,590,285	\$0	\$0	4,039	С
Records of Stack Tests	2	\$0	\$0	\$0	1	2	4,039	8,078	808	404	\$878,705	\$0	\$0	4,039	С
Records of Monitoring Device Calibrations	2	\$0	\$0	\$0	1	2	4,039	8,078	808	404	\$878,705	\$0	\$0	4,039	С
5) Records of All Compliance Reports Submitted	2	\$0	\$0	\$0	2	4	2,020	8,080	808	404	\$878,922	\$0	\$0	4,040	С
6) Records of Monthly Fuel Use	0.5	\$0	\$0	\$0	12	6	4,039	24,234	2,423	1,212	\$2,636,114	\$0	\$0	48,468	c,g
E. Personnel Training	na							<u> </u>	<u> </u>		· · ·			· · ·	
F. Time for Audits	na														
Recordkeeping Subtotal								235,545	23,555	11,777	\$25,621,996	\$7,967,100	\$12,376,900	68,664	i i
										· ·					+ -
Totals								437,797	43,780	21,890	\$47,622,463	\$7,967,101	\$44,446,456	76,744	

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

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

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

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

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

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

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

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

i The burdens for monitoring are included in the recordkeeping subtotal

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

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

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Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Certified Energy Audit Cost per Occurrence	(C) Stack Testing and Fuel Analysis Cost Per Occurrence	(D) Other Non-Labor Costs Per Occurrenc e	(E) Number of Occurrences Per Respondent Per Year\	(F) Technical Hours per Respondent Per Year (A X E)	(G) Number of Respondents Per Year	(H) Technical Hours per Year @ \$98.20 (F X G)	(I) Clerical Hours per Year @ \$48.53 (H X 0.1)	(J) Manageme nt Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non- Labor Capital Costs	(M) Total Non- Labor Annual Costs	(N) Total Number of Responses per Year (E X G)	Footnotes
Applications	na													•	
2. Surveys and Studies	na														Т
3. Reporting Requirements															+
A. Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	4.615	184.600	18.460	9.230	\$20.080.327	\$0	\$0		a
B. Required Activities		***			_	1	1,000		,		,,		***		+
Conduct Energy Audit															+
a) Industrial	20	\$18.292	\$0	\$0	1	20	0	0	0	0	\$0	\$0	\$0		b, c, d
b) Commercial	20	\$854	\$0	\$0	1	20	0	0	0	0	\$0	\$0	\$0		b, c, d
Initial Performance Test and Report (for CO)	12	\$0	\$6,000	\$0	1	12	0	0	0	0	\$0	\$0	\$0		c.h
Annual Performance Test and Report (for CO)	12	\$0	\$6,000	\$0	1	12	0	0	0	0	\$0	\$0	\$0		c,h
Continuous Parameter Monitoring	12	Ψ0	Ψ0,000	Ψ0	-	12	0	-	-	-	Ψ0	Ψ0	Ψ0		- 0,11
Establish Site-specific monitoring plan (all)	40	\$0		\$0	1	40	0	0	0	0	\$0	\$0	\$0		С
CO (only sources greater than 100 mmBtu/hr)	40	Ψυ		Ψ0	1	40	U	-	0	-	Φ0	Φ0	Ψυ		+
a) initial	10	\$0	\$0	\$160.900	1	10	0	0	0	0	\$0	\$0	\$0		c,f
b) annual	10	\$0	\$0	\$53,600	1	10	0	0	0	0	\$0	\$0	\$0		C,I
C. Create Information		\$0	\$0	\$53,600	1	10	U	U	U	0	\$0	\$0	\$0		
D. Gather Information	na														
	na														
E. Report Preparation		\$0	\$0	40			4.045	0.000	000	400	04.004.040		40	1.045	
Initial Notification that Source is Subject	2	***		\$0	1	2	4,615	9,230	923	462	\$1,004,016	\$0	\$0	4,615	a
Notification of Compliance Status	8	\$0	\$0	\$0	1	8	0	0	0	0	\$0	\$0	\$0	0	С
Initial Report on results of Energy Audit	5	\$0	\$0	\$0	1	5	0	0	0	0	\$0	\$0	\$0	0	С
4) Semi-annual Compliance Report	20	\$0	\$0	\$0	2	40	0	0	0	0	\$0	\$0	\$0	0	a
Reporting Subtotal								193,830	19,383	9,692	21,084,343	0	0	4,615	İ
Recordkeeping Requirements															
A. Read Instructions	Included in 3a														
B. Implement Activities	na														
C. Develop Record System	na														е
D. Record Information															
Records of Operating Parameter Values	20	\$0	\$0	\$0	1	20	0	0	0	0	\$0	\$0	\$0	0	С
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	\$0	1	15	0	0	0	0	\$0	\$0	\$0	0	С
Records of Stack Tests	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	\$0	0	c,g
Records of Monitoring Device Calibrations	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	\$0	0	С
5) Records of All Compliance Reports Submitted	2	\$0	\$0	\$0	2	4	0	0	0	0	\$0	\$0	\$0	0	С
6) Records of Monthly Fuel Use	0.5	\$0	\$0	\$0	12	6	0	0	0	0	\$0	\$0	\$0	0	С
E. Personnel Training	na		* -				-	-	-			* * *			
F. Time for Audits	na								<u> </u>	<u> </u>	 		<u> </u>		
Recordkeeping Subtotal								0	0	0	\$0	\$0	\$0	0	l i
														-	+
Totals								193,830	19,383	9,692	\$21,084,343	\$0	\$0	4,615	\bot

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

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

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

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

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

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

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

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

i The burdens for monitoring are included in the recordkeeping subtotal

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

			· onatanto (i		or industrial, C					tioting =ung				i	$\overline{}$
Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Certified Energy Audit Cost per Occurrence	(C) Stack Testing and Fuel Analysis Cost Per Occurrence	(D) Other Non-Labor Costs Per Occurrenc e	(E) Number of Occurrences Per Respondent Per Year\	(F) Technical Hours per Respondent Per Year (A X E)	(G) Number of Respondents Per Year	(H) Technical Hours per Year @ \$98.20 (F X G)	(I) Clerical Hours per Year @ \$48.53 (H X 0.1)	(J) Manageme nt Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non- Labor Capital Costs	(M) Total Non- Labor Annual Costs	(N) Total Number of Responses per Year (E X G)	
1. Applications	na														
Surveys and Studies	na														
Reporting Requirements															
Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	0	0	0	0	\$0	\$0	\$0		а
B. Required Activities															
Conduct Energy Audit															
a) Industrial	20	\$18,292	\$0	\$0	1	20	462	9,230	923	462	\$1,004,016	\$0	\$8,441,758		b, c, d
b) Commercial	20	\$854	\$0	\$0	1	20	4,154	83,070	8,307	4,154	\$9,036,147	\$0	\$3,547,089		b, c, d
Initial Performance Test and Report (for CO)	12	\$0	\$6,000	\$0	1	12	4,545	54,540	5,454	2,727	\$5,932,725	\$0	\$27,270,000		c,h
Annual Performance Test and Report (for CO)	12	\$0	\$6,000	\$0	1	12	0	0	0	0	\$0	\$0	\$0		c,h
Continuous Parameter Monitoring															+
Establish Site-specific monitoring plan (all)	40	\$0		\$0	1	40	2.307	92.280	9,228	4.614	\$10.037.988	\$0	\$0		С
CO (only sources greater than 100 mmBtu/hr)		40		+0	-		2,001	02,200	0,220	1,021	\$20,007,000	40			+-
a) initial	10	\$0	\$0	\$160.900	1	10	70	700	70	35	\$76.144	\$11,263,000	\$11.263.000		c,f
b) annual	10	\$0	\$0	\$53,600	1	10	70	700	70	35	\$76,144	\$0	\$3,752,000		C C
C. Create Information	na	ΨΟ	Ψ0	Ψ55,000	-	10	10	700	70	- 55	Ψ10,144	Ψ0	40,732,000		+
D. Gather Information	na														+
E. Report Preparation	Πü														
Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	\$0	1 0	а
Notification of Compliance Status	8	\$0	\$0	\$0	1	8	0	0	0	0	\$0	\$0	\$0	0	C
3) Initial Report on results of Energy Audit	5	\$0	\$0	\$0	1	5	0	0	0	0	\$0	\$0	\$0	0	С
Semi-annual Compliance Report	20	\$0	\$0	\$0	2	40	0	0	0	0	\$0	\$0	\$0	0	T a
Reporting Subtotal	20	Φ0	Ψυ	Φ0		40	0	146,840	14,684	7,342	15,972,888	0	39,258,847	0	a
Recordkeeping Requirements								140,040	14,004	1,342	15,972,000	0	39,236,647	0	_ '
A. Read Instructions	Included in 3a														
B. Implement Activities	na na														
C. Develop Record System	na														е
D. Record Information	IId														
	20	40	***	***						_	***	***	***		
Records of Operating Parameter Values		\$0	\$0	\$0	1	20	0	0	0	0	\$0	\$0	\$0	0	С
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	\$0	1	15	0	0	0	0	\$0	\$0	\$0	0	С
Records of Stack Tests	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	\$0	0	c,g
Records of Monitoring Device Calibrations	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	\$0	0	С
5) Records of All Compliance Reports Submitted	2	\$0	\$0	\$0	2	4	0	0	0	0	\$0	\$0	\$0	0	С
Records of Monthly Fuel Use	0.5	\$0	\$0	\$0	12	6	0	0	0	0	\$0	\$0	\$0	0	С
E. Personnel Training	na													•	
F. Time for Audits	na														
Recordkeeping Subtotal							1	93,680	9,368	4,684	\$10,190,276	\$11,263,000	\$15,015,000	0] i
Totals								240,520	24,052	12,026	\$26,163,164	\$11,263,000	\$54,273,847	0	

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

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

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

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

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

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

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

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

i The burdens for monitoring are included in the recordkeeping subtotal

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

			· · •	120.00	o, .	ommer oran,	and institution	la Boners		moung _u.g	jo <u> </u>				
	(A) Respondent Hours per Occurrence	(B) Certified Energy Audit	(C) Stack Testing and Fuel Analysis	(D) Other Non-Labor Costs Per	(E) Number of Occurrences	(F) Technical Hours per Respondent	(G) Number of	(H) Technical Hours per Year @	(I) Clerical Hours per Year @	(J) Manageme nt Hours per Year @		(L) Total Non-	(M) Total Non-	(N) Total Number	otes
Burden Item	(Technical hours)	Cost per Occurrence	Cost Per Occurrence		Per Respondent Per Year\	Per Year (A X E)	Respondents Per Year	\$98.20 (F X G)			(K) Total Labor Costs Per Year	Labor Capital Costs	Labor Annual Costs	of Responses per Year (E X G)	
1. Applications	na	Occurrence	Occurrence	-	T CI TCUIT	(A A L)	T CI T CAI	0)	7 (0.1)	X .03)	Costs i ei i eai	C0313	C0313	rear (L X O)	<u> н</u>
Surveys and Studies	na													1	
Reporting Requirements	πα														_
A. Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	0	0	0	0	\$0	\$0	\$0		a
B. Required Activities	40	ΨΟ	Φ0	Φ0	1	40	0		0	-	Φυ	Φ0	Φ0		a
Required Activities Conduct Energy Audit															
a) Industrial	20	\$18.292	\$0	\$0	1	20	462	9.230	923	462	\$1.004.016	\$0	\$8,441,758		h a d
b) Commerical	20	\$18,292 \$854	\$0	\$0	1	20	4.154	83,070	8,307	4,154	\$1,004,016	\$0	\$8,441,758		b, c, d
	12	\$854 \$0	\$6,000	\$0	1	12	4,154	54.540	5.454	2,727	\$5,932,725	\$0 \$0	\$3,547,089		b, c, d c.h
Initial Performance Test and Report (for CO) Annual Performance Test and Report (for CO)	12	\$0 \$0	,	\$0			,	. ,	-, -	0	\$5,932,725	\$0			
Annual Performance Test and Report (for CO) Continuous Parameter Monitoring	12	\$ U	\$6,000	\$0	1	12	0	0	0	U	\$0	\$0	\$0		c,h
	40	40				40	0.007	00.000	0.000	4.04.4	#40.007.000	***	40		
Establish Site-specific monitoring plan (all)	40	\$0		\$0	1	40	2,307	92,280	9,228	4,614	\$10,037,988	\$0	\$0		С
CO (only sources greater than 100 mmBtu/hr)	40			44.00.000		10	70	700	70	0.5	A70.444	444 000 000	011 000 000		.,
a) initial	10	\$0	\$0	\$160,900	1	10	70	700	70	35	\$76,144	\$11,263,000	\$11,263,000		c,f
b) annual	10	\$0	\$0	\$53,600	1	10	70	700	70	35	\$76,144	\$0	\$3,752,000		С
C. Create Information	na														
D. Gather Information	na														
E. Report Preparation															
Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	\$0	0	а
Notification of Compliance Status	8	\$0	\$0	\$0	1	8	4,615	36,920	3,692	1,846	\$4,016,065	\$0	\$0	4,615	С
Initial Report on results of Energy Audit	5	\$0	\$0	\$0	1	5	4,615	23,075	2,308	1,154	\$2,510,041	\$0	\$0	4,615	С
Semi-annual Compliance Report	20	\$0	\$0	\$0	2	40	4,615	184,600	18,460	9,230	\$20,080,327	\$0	\$0	9,230	а
Reporting Subtotal								391,435	39,144	19,572	42,579,321	0	39,258,847	18,460	i
Recordkeeping Requirements															•
Read Instructions	Included in 3a														
B. Implement Activities	na														
C. Develop Record System	na														е
D. Record Information															
Records of Operating Parameter Values	20	\$0	\$0	\$0	1	20	9,229	184,580	18,458	9,229	\$20,078,151	\$0	\$0	9,229	С
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	\$0	1	15	9,229	138,435	13,844	6,922	\$15,058,613	\$0	\$0	9,229	С
Records of Stack Tests	2	\$0	\$0	\$0	1	2	9.229	18,458	1,846	923	\$2,007,815	\$0	\$0	9,229	c,q
Records of Monitoring Device Calibrations	2	\$0	\$0	\$0	1	2	9.229	18,458	1,846	923	\$2,007,815	\$0	\$0	9,229	C
5) Records of All Compliance Reports Submitted	2	\$0	\$0	\$0	2	4	4,615	18,460	1,846	923	\$2,008,033	\$0	\$0	9,230	С
6) Records of Monthly Fuel Use	0.5	\$0	\$0	\$0	12	6	9,229	55,374	5,537	2,769	\$6,023,445	\$0	\$0	110,748	С
E. Personnel Training	na			1		-	-, -				-,,	**			-
F. Time for Audits	na			<u> </u>											
Recordkeeping Subtotal	""							527,445	52,745	26,372	\$57,374,148	\$11,263,000	\$15,015,000	156,894	l i
										-				· ·	+
Totals								918,880	91,888	45,944	\$99,953,469	\$11,263,000	\$54,273,847	175,354	

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

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

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

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

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

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

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

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

i The burdens for monitoring are included in the recordkeeping subtotal

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

for Hazardou	s Air Polluta	ints (NESHA	P) for Indus	trial, Comm	ercial, and li	nstitutional B	oilers and	Process	Heaters	- Year 1, New	Large Solid F	uel Units		
Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Stack Testing and Fuel Analysis Cost Per Occurrence	(C) Non-Labor Costs Per Occurrence	(D) Number of Occurrences Per Respondent Per Year	(E) Technical Hours per Respondent Per Year (A X D)	(F) Number of Respondents Per Year	(G) Technical Hours per Year @ \$98.20 (F X G)	(H) Clerical Hours per Year @ \$48.53 (H X 0.1)	(I) Manage ment Hours per Year @ \$114.49 (H X .05)	(J) Total Labor Costs Per Year	(K) Total Non- Labor Capital Cost	(L) Total Non- Labor Annual Cost	(M) Total Number of Responses per Year (D X F)	Footnotes
1. Applications	na													
Surveys and Studies	na													
Reporting Requirements														
A. Read and Understand Rule Requirements	40	\$0	\$0	1	40	10	400	40	20	\$43,511	\$0	\$0		a, b
B. Required Activities														
Initial Stack Test and Report (for PM)	12	\$8,000	\$0	1	12	4	48	5	2	\$5,221	\$32,000	\$0		b, c
Initial Stack Test and Report (for Hg)	12	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	\$0		b, c, j
Initial Performance Test and Report (for CO)	12	\$6,000	\$0	1	12	4	48	5	2	\$5,221	\$24,000	\$0		b, d
Annual Stack Test and Report (for PM)	12	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	\$0		е
Annual Stack Test and Report (for Hg)	12	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	\$0		b, c, j
Annual Performance Test and Report (for CO)	12	\$6,000	\$0	1	12	0	0	0	0	\$0	\$0	\$0		d, e
Initial Fuel Analysis for Mercury Content	5	\$200	\$0	1	5	0	0	0	0	\$0	\$0	\$0		b, c
Monthly Fuel Analysis for Mercury Content	5	\$200	\$0	12	60	0	0	0	0	\$0	\$0	\$0		c, e
Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	\$0	\$0	1	40	10	400	40	20	\$43,511	\$0	\$0		f
Opacity														
a) initial	10	\$0	\$43,100	1	10	4	40	4	2	\$4,351	\$172,400	\$172,400		h
b) annual	10	\$0	\$14,700	1	10	4	40	4	2	\$4,351	\$0	\$58,800		h
CO (only sources greater than 100 mmBtu/hr)														
a) initial	10	\$0	\$160,900	1	10	16	160	16	8	\$17,404	\$2,574,400	\$2,574,400		g
b) annual	10	\$0	\$53,600	1	10	16	160	16	8	\$17,404	\$0	\$857,600		g
Bag Leak Detection System Operation (all sources that have fabric filters)		10												
a) initial	10	\$0	\$25,500	1	10	0	0	0	0	\$0	\$0	\$0		h
b) annual	10	\$0	\$9,700	1	10	0	0	0	0	\$0	\$0	\$0		h
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
Initial Notification that Source is Subject	2	\$0	\$0	1	2	10	20	2	1	\$2,176	\$0	\$0	10	a, b
Notification of Initial Stack Test	8	\$0	\$0	1	8	10	80	8	4	\$8,702	\$0	\$0	10	a, b
Report Established Values for Site-specific Operating Parameters (all)	see 3.E.6													
4) Notification of Compliance Status	40	\$0	\$0	1	40	10	400	40	20	\$43,511	\$0	\$0	10	a, b
5) Startup, Shutdown, Malfunction Plan	40	\$0	\$0	1	40	10	400	40	20	\$43,511	\$0	\$0	10	a, b
Semi-annual Compliance Report	20	\$0	\$0	2	40	10	400	40	20	\$43,511	\$0	\$0	20	a
Reporting Subtotal							1,796	180	90	\$195,364	\$56,000	\$0	60	i
Recordkeeping Requirements														
A. Read Instructions	see 3.A													
B. Implement Activities	na													
C. Develop Record System	na													
D. Record Information														
Records of Operating Parameter Values	20	\$0	\$0	1	20	20	400	40	20	\$43,511	\$0	\$0	20	а
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	1	15	20	300	30	15	\$32,633	\$0	\$0	20	а
Records of Stack Tests	2	\$0	\$0	1	2	20	40	4	2	\$4,351	\$0	\$0	20	а
Records of Monitoring Device Calibrations	2	\$0	\$0	1	2	16	32	3	2	\$3,481	\$0	\$0	16	g
5) Records of All Compliance Reports Submitted	2	\$0	\$0	2	4	20	80	8	4	\$8,702	\$0	\$0	40	а
6) Records of Monthly Fuel Use	0.5	\$0	\$0	12	6	20	120	12	6	\$13,053	\$0	\$0	240	а
E. Personnel Training	na													
F. Time for Audits	na													
Subtotal Recordkeeping							1,772	177	89	\$192,754	\$2,746,800	\$3,663,200	356	i
Totals				<u> </u>			3,568	357	178	\$388.118	\$2,802,800	\$3,663,200	416	
1000				1	<u> </u>		-,500				,,,	,		

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

b A one-time requirement.

c This NESHAP provides a compliance option to conduct a fuel analysis once every five years, if a unit burns the same kind of fuel, or re-conduct a fuel analysis if a unit changes fuel type. All projected large solid fuel units expected to comply through stack testing instead of the fuel testing compliance option, see note a for the derivation of the number of units per year. Only units less than 30 mmBtu/hr that are not subject to PM limits under the NSPS (40 CFR part 60 subparts Db, Dc) will incur additional testing, monitoring, recordkeeping and reporting costs under this rule.

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

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

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

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

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

i The burdens for monitoring are included in the recordkeeping subtotal

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

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

tor Hazardol	is Air Polluta	ants (NESHA	P) for Indus	trial, Comm	ercial, and Ir	istitutional B	oilers and	Process	Heaters	- Year 2, New L	_arge Solid Fu	iel Units		
Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Stack Testing and Fuel Analysis Cost Per Occurrence	(C) Non-Labor Costs Per Occurrence	(D) Number of Occurrences Per Respondent Per Year	(E) Technical Hours per Respondent Per Year (A X D)	(F) Number of Respondents Per Year	(G) Technical Hours per Year @ \$98.20 (F X G)	(H) Clerical Hours per Year @ \$48.53 (H X 0.1)	(I) Manage ment Hours per Year @ \$114.49 (H X .05)	(J) Total Labor Costs Per Year	(K) Total Non- Labor Capital Cost	(L) Total Non- Labor Annual Cost	(M) Total Number of Responses per Year (D X F)	Footnotes
Applications	na													
Surveys and Studies	na													
Reporting Requirements														
Read and Understand Rule Requirements	40	\$0	\$0	1	40	10	400	40	20	\$43,511	\$0	\$0		a, b
B. Required Activities														<u> </u>
Initial Stack Test and Report (for PM)	12	\$8,000	\$0	1	12	4	48	5	2	\$5,221	\$32,000	\$0		b, c
Initial Stack Test and Report (for Hg)	12	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	\$0		b, c, j
Initial Performance Test and Report (for CO)	12	\$6,000	\$0	1	12	4	48	5	2	\$5.221	\$24,000	\$0		b, d
Annual Stack Test and Report (for PM)	12	\$8,000	\$0	1	12	4	48	5	2	\$5,221	\$32,000	\$32,000		e
Annual Stack Test and Report (for Hg)	12	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	\$0	<u> </u>	b, c, i
6. Annual Performance Test and Report (for CO)	12	\$6,000	\$0	1	12	4	48	5	2	\$5,221	\$24,000	\$24,000	1	d, e
7. Initial Fuel Analysis for Mercury Content	5	\$200	\$0	1	5	0	0	0	0	\$0	\$0	\$0	-	b, c
Monthly Fuel Analysis for Mercury Content	5	\$200	\$0	12	60	0	0	0	0	\$0	\$0	\$0	-	c, e
Continuous Parameter Monitoring	"	\$200	Ψ0		- 55		<u> </u>		<u> </u>	Ψ0	40	Ψ0	-	0, 0
Establish Site-specific monitoring plan (all)	40	\$0	\$0	1	40	10	400	40	20	\$43,511	\$0	\$0		f
Opacity	40	Ψ0	Ψ0	-		10	100		20	Ψ+0,011	Ψ0	ΨΟ		<u> </u>
a) initial	10	\$0	\$43,100	1	10	4	40	4	2	\$4,351	\$172,400	\$172,400		h
b) annual	10	\$0	\$14,700	1	10	4	40	4	2	\$4,351	\$0	\$58,800		h
CO (only sources greater than 100 mmBtu/hr)	10	40	\$14,700	1	10	4	40	4		Φ4,331	Φ0	\$30,000		- "
a) initial	10	\$0	\$160.900	1	10	16	160	16	8	\$17.404	\$2.574.400	\$2.574.400		
	10	\$0	\$53,600	1	10	32	320	32	16	\$34,809	\$2,574,400	\$1,715,200		g
b) annual	10	\$0	\$53,600	1	10	32	320	32	16	\$34,809	\$0	\$1,715,200		g
Bag Leak Detection System Operation (all sources that have fabric filters)														
a) initial	10	\$0	\$25,500	1	10	0	0	0	0	\$0	\$0	\$0		h
b) annual	10	\$0	\$9,700	1	10	0	0	0	0	\$0	\$0	\$0		h
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
Initial Notification that Source is Subject	2	\$0	\$0	1	2	10	20	2	1	\$2,176	\$0	\$0	10	a, b
Notification of Initial Stack Test	8	\$0	\$0	1	8	10	80	8	4	\$8,702	\$0	\$0	10	a, b
Report Established Values for Site-specific Operating Parameters (all)	see 3.E.6													
Notification of Compliance Status	40	\$0	\$0	1	40	10	400	40	20	\$43,511	\$0	\$0	10	a, b
5) Startup, Shutdown, Malfunction Plan	40	\$0	\$0	1	40	10	400	40	20	\$43,511	\$0	\$0	10	a, b
6) Semi-annual Compliance Report	20	\$0	\$0	2	40	20	800	80	40	\$87,022	\$0	\$0	40	a
Reporting Subtotal							2,292	229	115	\$249,318	\$112,000	\$56,000	80	<u> </u>
Recordkeeping Requirements							-							
A. Read Instructions	see 3.A													
B. Implement Activities	na													
C. Develop Record System	na													—
D. Record Information														
Records of Operating Parameter Values	20	\$0	\$0	1	20	40	800	80	40	\$87,022	\$0	\$0	40	а
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	1	15	40	600	60	30	\$65,267	\$0	\$0	40	a
Records of Stack Tests	2	\$0	\$0	1	2	40	80	8	4	\$8,702	\$0	\$0	40	a
Records of Monitoring Device Calibrations	2	\$0	\$0	1	2	32	64	6	3	\$6,962	\$0	\$0	32	g
5) Records of All Compliance Reports Submitted	2	\$0	\$0	2	4	40	160	16	8	\$17,404	\$0	\$0	80	a
6) Records of Monthly Fuel Use	0.5	\$0	\$0	12	6	40	240	24	12	\$26.107	\$0	\$0	480	a
E. Personnel Training	na na	\$0	40	1		+0	240		14	Ψ20,101	Ψ0	40	700	- a
F. Time for Audits	na			-									-	<u> </u>
Subtotal Recordkeeping	lia lia						2.904	290	145	\$315.890	\$2.746.800	\$4.520.800	712	
3							,		_	,	. , .,	. ,,		<u>'</u>
Totals							5,196	520	260	\$565,208	\$2,858,800	\$4,576,800	792	

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

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

- e Subsequent annual testing in year 2 are based on the number of sources that had an initial test in year 1 of this ICR. Subsequent semi-annual compliance reporting and recordkeeping requirements are based on the number of new sources in years 1 and 2 of this ICR.
- f If you demonstrate compliance with any applicable emission limit through stack testing, you must develop a site-specific monitoring plan. All new large solid fuel units are expected to develop this plan.
- g Only the number of new large solid fuel units with a rated heat input capacity of 100 mmBtu/hr or greater are subject to continuous monitoring requirements and records of monitoring device calibrations

- i The burdens for monitoring are included in the recordkeeping subtotal
- j Only coal boilers are subject to numerical mercury limits and are required to test for mercury. No new large coal units are projected.

c This NESHAP provides a compliance option to conduct a fuel analysis once every five years, if a unit burns the same kind of fuel, or re-conduct a fuel analysis if a unit changes fuel type. All projected large solid fuel units expected to comply through stack testing instead of the fuel testing compliance option, see note a for the derivation of the number of units per year. Only units less than 30 mmBtu/hr that are not subject to PM limits under the NSPS (40 CFR part 60 subparts Db, Dc) will incur additional testing, monitoring, recordkeeping and reporting costs under this rule.

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

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

Surveys and Studies Reporting Requirements 40 30 30 1 40 10 400 40 20 \$43.511 50 50 3.	for Hazardous	Air Pollutai	nts (NESHAI	P) for Indust	rial, Comme	rcial, and In	stitutional Bo	ilers and I	Process	Heaters	Year 3, New L	arge Solid Fu	ei Units		
Surveys and Studies	Burden Item 1. Applications	Respondent Hours per Occurrence (Technical hours)	Stack Testing and Fuel Analysis Cost Per	Non-Labor Costs Per	Number of Occurrences Per Respondent	Technical Hours per Respondent Per Year (A	Number of Respondents	Technical Hours per Year @ \$98.20 (F	Clerical Hours per Year @ \$48.53 (H X	Manage ment Hours per Year @ \$114.49 (H	Total Labor	Total Non- Labor Capital	Total Non- Labor Annual	Number of Responses per Year (D X	Footnotes
Reporting Requerements															
A Read and Understand Plane Requirements 40 \$90 \$0 \$1 \$40 \$10 \$40 \$40 \$20 \$43,511 \$90 \$90 \$1 \$40 \$10 \$40 \$40 \$20 \$43,511 \$90 \$90 \$1 \$40 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$1		1100													
B. Required Activities		40	Φ0	Φ0	1	40	10	400	40	20	040 E11	60	0		0.6
1. Initial Stack Fest and Report (for PM)		40	Φ0	Φ0	1	40	10	400	40	20	\$45,511	Φ0	Ψ0		a, D
2. Initial Stack Test and Report (for Hg)		12	PO 000	40	1	12		40	-	-	фE 221	#22.000	40		b 0
3. Insiel Performance Test and Report (for CO) 12 \$5.000 \$0 1 12 \$8.000 \$0 1 1 12 \$8.000 \$0 1 1 12 \$8.000 \$0 1 1 12 \$8.000 \$0 1 1 12 \$8.000 \$0 1 1 12 \$8.000 \$0 1 1 12 \$8.000 \$0 1 1 12 \$8.000 \$0 1 1 12 \$8.000 \$0 1 1 12 \$8.000 \$0 1 1 12 \$8.000 \$1 1 12 \$8.000 \$1 1 12 \$8.000 \$1 1 12 \$8.000 \$1 1 12 \$8.000 \$1 1 12 \$1 1 12 \$1 1 12 \$1 1 12 \$1 1 12 \$1 1 12 \$1 1 12 \$1 1 12 \$1 1 12 \$1 1 12 \$1 1 12 \$1 1 12 \$1 1 12 \$1 1 12 \$1 1 12 \$1 1 12 \$1 1 1 1															
4. Annual Stack Test and Report (for Phy) 12 \$8,000 \$0 \$1 \$1 \$12 \$8 \$96 \$10 \$5 \$10,443 \$84,000 \$84,000 \$6. \$6. \$6. Annual Stack Test and Report (for CO) 12 \$6,000 \$0 \$1 \$12 \$8 \$96 \$10 \$5 \$10,453 \$46,000 \$6. \$6. \$6. \$6. \$6. \$6. \$6. \$6. \$6. \$6.					l .										
S. Annual Stack Test and Report (for Fig) 12 \$5,000 \$0 \$1 1 12 0 0 0 0 0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0					l .										
6 Annual Performance rest and Report (for CO) 12 \$5,000 \$9 1 1 12 8 8 96 10 5 \$10,443 \$48,000 \$48,000 \$1,00															
7. Initial Fuel Analysis for Mercury Content 8. Monthly Levi Analysis for Mercury Content 9. Continuous Parameter Monitoring Establish Sine-specific monitoring plan (all) 9. S0															
8. Monthly Fruel Analysis for Mercury Content 9. Confinious Farameter Monthly Fruel Enalysis for Mercury Content 9. Confinious Farameter Monthly Fruel Enalysis for Mercury Content 9. Confinious Farameter Monthly Farameter (a) 10. \$0. \$43,100 11. 10. 44. 40. 4. 22. \$4,351 80. \$30. \$30. \$50. \$60. \$61. \$61. \$61. \$61. \$61. \$61. \$61. \$61					l .										
S. Confinuous Parameter Monitoring Establish See specific monitoring plan (all) 40 \$0 \$0 \$1 40 10 40 40 2 \$4.35.1 \$0 \$0 \$1.72.400 \$1.72.															
Establish Site-specific monitoring plan (all)		5	\$200	\$0	12	60	0	0	0	0	\$0	\$0	\$0		c, e
Opacity a) initial 10															
a) initial big annual 10 \$0 \$13,4700 1 10 4 40 4 2 \$4,351 \$172,400 \$172,400 h CO (only sources greater than 100 mmBluthr) a) initial big annual 10 \$0 \$18,0700 1 10 10 4 40 4 2 \$4,351 \$50 \$88,800 h CO (only sources greater than 100 mmBluthr) a) initial big annual 10 \$0 \$18,0700 1 10 10 16 18 8 \$17,404 \$2,574,400 \$2,574,400 g b) annual 10 \$0 \$53,600 1 10 10 48 48 48 24 \$82,213 \$0 \$2,574,400 g c) all sources that have fabric filters) a) initial annual 10 \$0 \$2,555,600 1 10 0 0 0 0 0 \$0 \$50 \$50 \$50 h c) all initial formation na		40	\$0	\$0	1	40	10	400	40	20	\$43,511	\$0	\$0		f
Dianual 10 S0 \$14,700 1 10 4 40 4 2 \$4,351 \$50 \$88,800															
CO (only sources greater than 100 mmBtuhr) a) initial b) annual b)															
a) initial 10 \$0 \$10,000 1 10 10 \$0 \$10,000 1 10 10 16 16 16 8 \$1,7404 \$2,774,400 \$2,774,400 \$9,000 \$9,000 \$9,000 \$10 \$9,000 \$10,000 \$9		10	\$0	\$14,700	1	10	4	40	4	2	\$4,351	\$0	\$58,800		h
Bap Leak Detection System Operation (all sources that have fabric filters) Bay Leak Detection System Operation (all sources that have fabric filters) Bay Leak Detection System Operation (all sources that have fabric filters) Bay Leak Detection System Operation (all sources that have fabric filters) Bay Leak Detection System Operation (all sources that have fabric filters) Bay Leak Detection System Operation (all sources that have fabric filters) Bay Leak Detection System Operation (all sources that have fabric filters) Bay Leak Detection System Operation (all sources that have fabric filters) Bay Leak Detection System Operation (all sources that Source is Subject 12 \$0 \$0 \$1 \$1 \$2 \$10 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0															
Bag Leak Delection System Operation (all sources that have fabric filters) a) initial b) annual 10 \$0 \$25,500 \$1 \$10 \$0 \$0 \$0 \$0 \$50 \$50 \$50 \$60 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$1	a) initial			\$160,900	1				16				\$2,574,400		g
(all sources that have fabric filters) a) initial 10	b) annual	10	\$0	\$53,600	1	10	48	480	48	24	\$52,213	\$0	\$2,572,800		g
Dianual 10 \$0 \$9,700 1 10 0 0 0 0 50 \$0 \$0 \$0															
C. Create Information na	a) initial	10	\$0	\$25,500	1	10	0	0	0	0	\$0	\$0	\$0		h
D. Gather Information na	b) annual	10	\$0	\$9,700	1	10	0	0	0	0	\$0	\$0	\$0		h
E. Report Preparation 1) initial Notification that Source is Subject 2 \$0 \$0 \$0 1 2 10 20 2 1 \$2,176 \$0 \$0 \$0 10 a,b 3) Report Established Values for Site-specific Operating Parameters (all) 4) Notification of Compliance Status 40 \$0 \$0 \$1 40 10 40 40 20 \$43,511 \$0 \$0 \$0 10 a,b 5) Startup, Shutdown, Malfunction Plan 40 \$0 \$0 \$0 1 40 40 40 20 \$43,511 \$0 \$0 10 a,b 6) Semi-annual Compliance Report 20 \$0 \$0 \$0 2 40 30 1,200 120 60 \$130,533 \$0 \$0 60 a Reporting Subtotal 4. Record Keeping Requirements 4. Read Instructions 5. Record Information 1. Record Information 1. Record Information 1. Record Information 1. Record Sof Operating Parameter Values 20 \$0 \$0 \$0 \$1 20 60 1,200 120 60 \$130,533 \$0 \$0 60 a 2. Precords of Startup, Shutdown, Malfunction 1. Record Information 1. Record Information 20 \$0 \$0 \$0 \$1 20 60 1,200 120 60 \$130,533 \$0 \$0 \$0 60 a 2. Precords of Startup, Shutdown, Malfunction 3. Record Information 3. Record Sof Operating Parameter Values 20 \$0 \$0 \$0 \$1 20 60 1,200 120 60 \$130,533 \$0 \$0 60 a 2. Precords of Startup, Shutdown, Malfunction 3. Record Sof Monitoring Device Calibrations 2 \$0 \$0 \$0 \$1 20 60 1,200 120 60 \$130,533 \$0 \$0 60 a 3. Records of Monitoring Device Calibrations 2 \$0 \$0 \$0 \$1 2 49 98 10 5 \$10,660 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	C. Create Information	na													
1) Initial Notification that Source is Subject 2 \$0 \$0 \$1 2 10 20 2 1 \$2.176 \$0 \$0 \$0 10 a, b 2) Notification of Initial Stack Test 8 \$0 \$0 1 8 10 80 8 4 \$8,702 \$0 \$0 \$0 10 a, b 3) Report Established Values for Site-specific Operating Parameters (all) See 3.E.6 \$0 \$0 1 40 10 400 40 20 \$43,511 \$0 \$0 10 a, b 40 \$0 \$0 \$0 1 40 10 400 40 20 \$43,511 \$0 \$0 10 a, b 5) Startup, Shutdown, Malfunction Plan 40 \$0 \$0 \$0 1 40 10 400 40 20 \$43,511 \$0 \$0 10 a, b 6) Semi-annual Compliance Report 20 \$0 \$0 \$0 2 40 30 1,200 120 60 \$130,533 \$0 \$0 60 a 8 60	D. Gather Information	na													
1) Initial Notification that Source is Subject 2 \$0 \$0 \$1 2 10 20 2 1 \$2.176 \$0 \$0 \$0 10 a, b 2) Notification of Initial Stack Test 8 \$0 \$0 1 8 10 80 8 4 \$8,702 \$0 \$0 \$0 10 a, b 3) Report Established Values for Site-specific Operating Parameters (all) See 3.E.6 \$0 \$0 1 40 10 400 40 20 \$43,511 \$0 \$0 10 a, b 40 \$0 \$0 \$0 1 40 10 400 40 20 \$43,511 \$0 \$0 10 a, b 5) Startup, Shutdown, Malfunction Plan 40 \$0 \$0 \$0 1 40 10 400 40 20 \$43,511 \$0 \$0 10 a, b 6) Semi-annual Compliance Report 20 \$0 \$0 \$0 2 40 30 1,200 120 60 \$130,533 \$0 \$0 60 a 8 60	E. Report Preparation														1
2) Notification of Initial Stack Test 8 \$0 \$0 \$1 8 10 80 8 4 \$8,702 \$0 \$0 \$10 a, b 3) Report Established Values for Site-specific Operating Parameters (all) see 3.E.6 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		2	\$0	\$0	1	2	10	20	2	1	\$2.176	\$0	\$0	10	a, b
3) Report Established Values for Site-specific Operating Parameters (all) 4) Notification of Compliance Status 4) Notification of Compliance Status 40 \$0 \$0 \$0 \$1 40 10 400 40 20 \$43,511 \$0 \$0 \$0 10 a, b 5 \$0 \$1 a, b 5 \$1 40 10 400 40 20 \$43,511 \$0 \$0 \$0 10 a, b 6 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0			\$0	\$0	1		10					\$0	\$0	10	
A) Notification of Compilance Status	Report Established Values for Site-specific	see 3 F 6			_						******				-,-
Signatury Shartup Sh			\$0	\$0	1	40	10	400	40	20	\$43.511	\$0	\$0	10	a h
6) Semi-annual Compliance Report 20 \$0 \$0 \$0 2 40 30 1,200 120 60 \$130,533 \$0 \$0 60 a Reporting Subtotal 2,788 279 139 \$303,272 \$168,000 \$112,000 100 i 4 Recordkeeping Requirements															
Reporting Subtotal															
4. Recordkeeping Requirements A. Read Instructions See 3.A B. Implement Activities na C. Develop Record System na D. Record Information 1) Records of Operating Parameter Values 20 \$0 \$0 \$1 \$20 \$0 \$1 \$20 \$60 \$1,200 \$120 \$60 \$130,533 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2 \$97,900 \$0 \$0 \$3 \$97,900 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$		20	Ψ0	Ψ0		40	30								
A. Read Instructions See 3.A					-			2,700	219	133	Ψυυυ,∠1∠	Ψ±00,000	Ψ112,000	100	+-'-
B. Implement Activities		500 3 V												-	-
C. Develop Record System D. Record Information 1) Records of Operating Parameter Values 20 \$0 \$0 1 20 60 1,200 120 60 \$130,533 \$0 \$0 60 a 2) Records of Startup, Shutdown, Malfunction 15 \$0 \$0 1 15 60 900 90 45 \$97,900 \$0 \$0 60 a 3) Records of Stack Tests 2 \$0 \$0 1 2 60 120 12 6 \$13,053 \$0 \$0 60 a 4) Records of Monitoring Device Calibrations 2 \$0 \$0 1 2 49 98 10 5 \$10,660 \$0 49 9 5) Records of Monitoring Device Calibrations 2 \$0 \$0 \$0 1 2 49 98 10 5 \$10,660 \$0 \$0 49 9 6) Records of Monitoring Device Calibrations 2 \$0 \$0 \$0 1 2 49 98 10 5 \$10,660 \$0 \$0 \$0 49 9 6) Records of Monithly Fuel Use 6) Records of Monithly Fuel Use 7) Records of Monithly Fuel Use 8) So \$0 \$0 12 6 60 360 36 18 \$39,160 \$0 \$0 720 a 8) Records of Monithly Fuel Use 8) Subtotal Records deeping														-	
D. Record Information 1) Records of Operating Parameter Values 20 \$0 \$0 \$1 20 60 1,200 120 60 \$130,533 \$0 \$0 60 a 2) Records of Startup, Shutdown, Malfunction 15 \$0 \$0 \$1 15 60 900 90 45 \$97,900 \$0 \$0 \$0 60 a 3) Records of Stark Tests 2 \$0 \$0 \$1 2 60 120 12 6 \$13,053 \$0 \$0 60 a 4) Records of Monitoring Device Calibrations 2 \$0 \$0 \$1 2 49 98 10 5 \$10,660 \$0 \$0 \$0 49 g 5) Records of All Compliance Reports Submitted 2 \$0 \$0 \$0 \$2 4 60 240 24 12 \$26,107 \$0 \$0 \$0 \$0 120 a 6) Records of Monthly Fuel Use 0.5 \$0 \$0 \$12 6 60 360 36 18 \$39,160 \$0 \$0 \$0 720 a E. Personnel Training F. Time for Audits Subtotal Recordkeeping 4,038 404 202 \$43,244 \$2,2746,800 \$5,378,400 1,069 i														-	-
1) Records of Operating Parameter Values 20 \$0 \$0 \$1 20 60 1,200 120 60 \$130,533 \$0 \$0 60 a 2) Records of Startup, Shutdown, Malfunction 15 \$0 \$0 1 15 60 900 90 45 \$97,900 \$0 \$0 60 a 3) Records of Startup, Shutdown, Malfunction 2 \$0 \$0 \$0 1 2 60 120 12 6 \$13,053 \$0 \$0 60 a 4) Records of Monitoring Device Calibrations 2 \$0 \$0 \$0 1 2 49 98 10 5 \$13,053 \$0 \$0 49 9 9 5) Records of All Compliance Reports Submitted 2 \$0 \$0 \$0 2 4 60 240 24 12 \$26,107 \$0 \$0 \$0 120 a 6) Records of Monithly Fuel Use 0.5 \$0 \$0 12 6 60 360 36 18 \$39,160 \$0 \$0 720 a 8 E. Personnel Training na F. Time for Audits Subtotal Recordkeeping 4,038 404 202 \$439,244 \$2,746,800 \$5,378,400 1,069 i		IId												-	
2) Records of Startup, Shutdown, Malfunction 15 \$0 \$0 1 15 60 900 90 45 \$97,900 \$0 \$0 60 a 3 Records of Stack Tests 2 \$0 \$0 1 2 60 120 12 6 \$13,053 \$0 \$0 60 a 4 Records of Monitoring Device Calibrations 2 \$0 \$0 1 2 49 98 10 5 \$10,660 \$0 \$0 49 9 \$0 5 Records of Monitoring Device Calibrations 2 \$0 \$0 \$0 1 2 49 98 10 5 \$10,660 \$0 \$0 \$0 49 9 \$0 5 Records of Monitoring Device Calibrations 2 \$0 \$0 \$0 1 2 4 60 240 24 12 \$26,107 \$0 \$0 \$0 120 a 6 Records of Monithly Fuel Use 0.5 \$0 \$0 12 6 60 360 36 18 \$39,160 \$0 \$0 720 a 8 E. Personnel Training na F. Time for Audits Subtotal Recordkeeping 4,038 404 202 \$439,244 \$2,746,800 \$5,378,400 1,069 i		20	* 0	ФО.	1	20	60	1 200	120	60	₱120 E22	60	40	60	<u> </u>
3) Records of Stack Tests 2 \$0 \$0 1 2 60 120 12 6 \$13,053 \$0 \$0 60 a 4) Records of Monitoring Device Calibrations 2 \$0 \$0 \$1 2 49 98 10 5 \$10,660 \$0 \$0 \$0 49 9 5 5) Records of All Compliance Reports Submitted 2 \$0 \$0 \$0 2 4 60 240 24 12 \$26,107 \$0 \$0 \$0 120 a 6) Records of Monthly Fuel Use 0.5 \$0 \$0 12 6 60 360 36 18 \$39,160 \$0 \$0 720 a E. Personnel Training na F. Time for Audits Subtotal Recordkeeping 4,038 404 202 \$43,244 \$2,746,800 \$5,378,400 1,069 i					_										
4) Records of Monitoring Device Calibrations 2 \$0 \$0 1 2 49 98 10 5 \$10,660 \$0 \$0 49 g 5) Records of All Compliance Reports Submitted 2 \$0 \$0 2 4 60 240 24 12 \$26,107 \$0 \$0 120 a 6) Records of Monthly Fuel Use 0.5 \$0 \$0 12 6 60 360 36 18 \$39,160 \$0 \$0 720 a E. Personnel Training na na F. Time for Audits 4,038 404 202 \$439,244 \$2,746,800 \$5,378,400 1,069 i															
5) Records of All Compliance Reports Submitted 2 \$0 \$0 2 4 60 240 24 12 \$26,107 \$0 \$0 120 a 6) Records of Monthly Fuel Use 0.5 \$0 \$0 12 6 60 360 36 18 \$39,160 \$0 \$0 720 a E. Personnel Training na F. Time for Audits Subtotal Recordkeeping 4,038 404 202 \$439,244 \$2,746,800 \$5,378,400 1,069 i															
6) Records of Monthly Fuel Use 0.5 \$0 \$0 12 6 60 360 36 18 \$39,160 \$0 \$0 720 a E. Personnel Training na															
E. Personnel Training na															
F. Time for Audits na 4,038 404 202 \$439,244 \$2,746,800 \$5,378,400 1,069 i			\$0	\$0	12	6	60	360	36	18	\$39,160	\$0	\$0	720	a
Subtotal Recordkeeping 4,038 404 202 \$439,244 \$2,746,800 \$5,378,400 1,069 i															
		na													
Totals 6,826 683 341 \$742,515 \$2,914,800 \$5,490,400 1,169	Subtotal Recordkeeping							,			,	. , .,	, ,	7	i
	Totals							6,826	683	341	\$742,515	\$2,914,800	\$5,490,400	1,169	

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

c This NESHAP provides a compliance option to conduct a fuel analysis once every five years, if a unit burns the same kind of fuel, or re-conduct a fuel analysis if a unit changes fuel type. All projected large solid fuel units expected to comply through stack testing instead of the fuel testing compliance option, see note a for the derivation of the number of units per year. Only units less than 30 mmBtu/hr that are not subject to PM limits under the NSPS (40 CFR part 60 subparts Db, Dc) will incur additional testing, monitoring, recordkeeping and reporting costs under this rule.

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

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

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

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

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

i The burdens for monitoring are included in the recordkeeping subtotal

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

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

				- 		1	1					1	1	$\overline{}$
Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Stack Testing and Fuel Analysis Cost Per Occurrence	(C) Non-Labor Costs Per Occurrence	(D) Number of Occurrences Per Respondent Per Year	(E) Technical Hours per Respondent Per Year (A X D)	(F) Number of Respondents Per Year	(G) Technical Hours per Year @ \$98.20 (F X G)	(H) Clerical Hours per Year @ \$48.53 (H X 0.1)	(I) Manage ment Hours per Year @ \$114.49 (H X .05)	(J) Total Labor Costs Per Year	(K) Total Non- Labor Capital Cost	(L) Total Non- Labor Annual Cost	(M) Total Number of Responses per Year (D X F)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													+
Reporting Requirements														+
A. Read and Understand Rule Requirements	40	\$0	\$0	1	40	81	3,240	324	162	\$352,439	\$0	\$0		a, b
B. Required Activities		40	40	-			0,2.0			4002,100	40	+-		14, 5
Initial Stack Test and Report (for PM)	12	\$8,000	\$0	1	12	162	1,944	194	97	\$211,463	\$1,296,000	\$0		b, c
Initial Stack Fest and Report (for CO) Initial Performance Test and Report (for CO)	12	\$6,000	\$0	1	12	162	1,944	194	97	\$211,463	\$972,000	\$0		b, d
	12	,	\$0		12	0	1 /-		-	\$211,403		\$0		
Annual Stack Test and Report (for PM)		\$8,000		1		-	0	0	0		\$0			е
Annual Performance Test and Report (for CO)	12	\$6,000	\$0	1	12	0	0	0	0	\$0	\$0	\$0		d, e
Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	\$0	\$0	1	40	81	3,240	324	162	\$352,439	\$0	\$0		f
Opacity														
a) initial	10	\$0	\$43,100	1	10	147	1,470	147	74	\$159,903	\$6,335,700	\$6,335,700		h
b) annual	10	\$0	\$14,700	1	10	147	1,470	147	74	\$159,903	\$0	\$2,160,900		h
CO (only sources greater than 100 mmBtu/hr)														
a) initial	10	\$0	\$160,900	1	10	0	0	0	0	\$0	\$0	\$0		g
b) annual	10	\$0	\$53,600	1	10	0	0	0	0	\$0	\$0	\$0		g
Bag Leak Detection System Operation (all sources that have fabric filters)														
a) initial	10	\$0	\$25.500	1	10	15	150	15	8	\$16.317	\$382,500	\$382.500		h
b) annual	10	\$0	\$9,700	1	10	15	150	15	8	\$16.317	\$0	\$145,500		h
C. Create Information	na	ΨΟ	Ψ3,700	<u> </u>	10	15	150	15	-	Ψ10,517	ΨΟ	Ψ143,300		+"-
D. Gather Information	na													
	Hd													
E. Report Preparation		40				- 01	400	10		447.000	***	40	- 04	+
Initial Notification that Source is Subject	2	\$0	\$0	1	2	81	162	16	8	\$17,622	\$0	\$0	81	a, b
Notification of Initial Stack Test	8	\$0	\$0	1	8	81	648	65	32	\$70,488	\$0	\$0	81	a, b
Report Established Values for Site-specific Operating Parameters (all)	see 3.E.6													
Notification of Compliance Status	40	\$0	\$0	1	40	81	3,240	324	162	\$352,439	\$0	\$0	81	a, b
5) Startup, Shutdown, Malfunction Plan	40	\$0	\$0	1	40	81	3,240	324	162	\$352,439	\$0	\$0	81	a, b
Semi-annual Compliance Report	20	\$0	\$0	2	40	81	3,240	324	162	\$352,439	\$0	\$0	162	a
Reporting Subtotal							17,658	1,766	883	\$1,920,793	\$2,268,000	\$0	486	
Recordkeeping Requirements														\vdash
A. Read Instructions	see 3.A													+
B. Implement Activities	na													+
C. Develop Record System	na			+		 		1	 			+		+
D. Record Information				<u> </u>					1			+		+
Records of Operating Parameter Values	20	\$0	\$0	1	20	162	3,240	324	162	\$352,439	\$0	\$0	162	а
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	1	15	162	2,430	243	122	\$264,329	\$0	\$0	162	a
Records of Stack Tests	2	\$0	\$0	1	2	162	324	32	16	\$35,244	\$0	\$0	162	a
Records of Monitoring Device Calibrations	2	\$0	\$0	1	2	162	324	32	16	\$35,244	\$0	\$0	162	g
5) Records of All Compliance Reports Submitted	2	\$0	\$0	2	4	81	324	32	16	\$35,244	\$0	\$0	162	
													II .	a
6) Records of Monthly Fuel Use	0.5	\$0	\$0	12	6	162	972	97	49	\$105,732	\$0	\$0	1,944	а
E. Personnel Training	na													
F. Time for Audits	na													
Subtotal Recordkeeping							14,094	1,409	705	\$1,533,110	\$6,718,200	\$9,024,600	2,754	i
Totals							31,752	3,175	1,588	\$3,453,903	\$8,986,200	\$9,024,600	3,240	T
	-	-	-			-	· ·			· · · ·			· '	

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

- d All new large liquid fuel units must conduct an initial test for CO, see note a for the derivation of the number of units per year.
- e No annual test and reporting burden is shown in year 1 as this is the same year as the initial test and report.
- f If you demonstrate compliance with any applicable emission limit through stack testing, you must develop a site-specific monitoring plan. All new large solid fuel units are expected to develop this plan.
- g Only the number of new large liquid fuel units with a rated heat input capacity of 100 mmBtu/hr or greater are subject to continuous monitoring requirements and records of monitoring device calibrations. The is expected to be 0 new boilers under the category.
- h All new units greater than 10 mmBtu/hr are expected to install fabric filters and equipped with bag leak detection systems instead of opacity monitors
- i The burdens for monitoring are included in the recordkeeping subtotal

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

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

							i							-
Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Stack Testing and Fuel Analysis Cost Per Occurrence	(C) Non-Labor Costs Per Occurrence	(D) Number of Occurrences Per Respondent Per Year	(E) Technical Hours per Respondent Per Year (A X D)	(F) Number of Respondents Per Year	(G) Technical Hours per Year @ \$98.20 (F X G)	(H) Clerical Hours per Year @ \$48.53 (H X 0.1)	(I) Manage ment Hours per Year @ \$114.49 (H X .05)	(J) Total Labor Costs Per Year	(K) Total Non- Labor Capital Cost	(L) Total Non-Labor Annual Cost	(M) Total Number of Responses per Year (D X F)	Footnotes
1. Applications	na						İ				1			
Surveys and Studies	na													
3. Reporting Requirements	1.44													1
A. Read and Understand Rule Requirements	40	\$0	\$0	1	40	81	3,240	324	162	\$352,439	\$0	\$0		a, b
B. Required Activities	40	Ψ0	Ψ0		40	01	3,240	324	102	Ψ332,433	Ψ0	Ψ0		α, υ
	12	\$8,000	\$0	1	12	162	1,944	194	97	\$211,463	\$1,296,000	\$0		h .
Initial Stack Test and Report (for PM)														b, c
Initial Performance Test and Report (for CO)	12	\$6,000	\$0	1	12	162	1,944	194	97	\$211,463	\$972,000	\$0		b, d
Annual Stack Test and Report (for PM)	12	\$8,000	\$0	1	12	162	1,944	194	97	\$211,463	\$1,296,000	\$1,296,000		е
Annual Performance Test and Report (for CO)	12	\$6,000	\$0	1	12	162	1,944	194	97	\$211,463	\$972,000	\$972,000		d, e
Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	\$0	\$0	1	40	81	3,240	324	162	\$352,439	\$0	\$0		f
Opacity														
a) initial	10	\$0	\$43.100	1	10	147	1,470	147	74	\$159,903	\$6,335,700	\$6,335,700		h
b) annual	10	\$0	\$14,700	1	10	294	2,940	294	147	\$319,806	\$0	\$4,321,800		h
CO (only sources greater than 100 mmBtu/hr)	100	40	42.,.00		- 20	201	2,0.0			4010,000	+ + + + + + + + + + + + + + + + + + + +	4 1,022,000		- ''
a) initial	10	\$0	\$160,900	1	10	0	0	0	0	\$0	\$0	\$0		g
b) annual	10	\$0	\$53,600	1	10	0	0	0	0	\$0	\$0	\$0		
1	10	Φ0	\$33,000	1	10	U	U	U	U	ФО	Φ0	Φυ		g
Bag Leak Detection System Operation (all sources that have fabric filters)														
a) initial	10	\$0	\$25,500	1	10	15	150	15	8	\$16,317	\$382,500	\$382,500		h
b) annual	10	\$0	\$9,700	1	10	30	300	30	15	\$32,633	\$0	\$291,000		h
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
Initial Notification that Source is Subject	2	\$0	\$0	1	2	81	162	16	8	\$17.622	\$0	\$0	81	a, b
2) Notification of Initial Stack Test	8	\$0	\$0	1	8	81	648	65	32	\$70,488	\$0	\$0	81	a, b
Report Established Values for Site-specific Operating Parameters (all)	see 3.E.6	40	40			02	0.0		02	4.0,100	- 40	40	01	4,5
4) Notification of Compliance Status	40	\$0	\$0	1	40	81	3,240	324	162	\$352,439	\$0	\$0	81	a, b
5) Startup, Shutdown, Malfunction Plan	40	\$0	\$0	1	40	81	3,240	324	162	\$352,439	\$0	\$0	81	a, b
6) Semi-annual Compliance Report	20	\$0	\$0	2	40	162	6,480	648	324	\$704,878	\$0	\$0	324	a, b
Reporting Subtotal	20	Φυ	Φυ		40	102	24,786	2,479	1,239	\$2,696,159	\$4,536,000	\$2.268.000	648	a :
							24,780	2,479	1,239	\$2,090,159	\$4,536,000	\$2,208,000	048	<u> </u>
Recordkeeping Requirements				-			-							
A. Read Instructions	see 3.A													
B. Implement Activities	na													
C. Develop Record System	na													
D. Record Information														
Records of Operating Parameter Values	20	\$0	\$0	1	20	324	6,480	648	324	\$704,878	\$0	\$0	324	а
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	1	15	324	4,860	486	243	\$528,659	\$0	\$0	324	а
Records of Stack Tests	2	\$0	\$0	1	2	324	648	65	32	\$70,488	\$0	\$0	324	a
Records of Monitoring Device Calibrations	2	\$0	\$0	1	2	324	648	65	32	\$70,488	\$0	\$0	324	g
5) Records of All Compliance Reports Submitted	2	\$0	\$0	2	4	243	972	97	49	\$105,732	\$0	\$0	486	a
6) Records of Monthly Fuel Use	0.5	\$0	\$0	12	6	324	1,944	194	97	\$211,463	\$0	\$0	3,888	a
		Ι ΨΟ	1 40	1		02-	1,544	104	J .	Ψ211,-00	40	40	0,000	_ u
E. Personnel Training	na													
E. Personnel Training F. Time for Audits							22.252	0.005	1 100	#0 F70 00F	#C 710 000	#11 001 000	F.070	
E. Personnel Training	na					·	23,652 48,438	2,365 4,844	1,183 2,422	\$2,572,805 \$5,268,965	\$6,718,200 \$11,254,200	\$11,331,000 \$13,599,000	5,670 6.318	i

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

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

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

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

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

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

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

i The burdens for monitoring are included in the recordkeeping subtotal

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

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Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Stack Testing and Fuel Analysis Cost Per Occurrence	(C) Non-Labor Costs Per Occurrence	(D) Number of Occurrences Per Respondent Per Year	(E) Technical Hours per Respondent Per Year (A X D)	(F) Number of Respondents Per Year	(G) Technical Hours per Year @ \$98.20 (F X G)	(H) Clerical Hours per Year @ \$48.53 (H X 0.1)	(I) Manage ment Hours per Year @ \$114.49 (H X .05)	(J) Total Labor Costs Per Year	(K) Total Non-Labor Capital Cost	(L) Total Non- Labor Annual Cost	(M) Total Number of Responses per Year (D X F)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
Reporting Requirements														
Read and Understand Rule Requirements	40	\$0	\$0	1	40	82	3,280	328	164	\$356,790	\$0	\$0		a, b
B. Required Activities														
Initial Stack Test and Report (for PM)	12	\$8,000	\$0	1	12	163	1,956	196	98	\$212,769	\$1,304,000	\$0		b, c
Initial Performance Test and Report (for CO)	12	\$6,000	\$0	1	12	163	1,956	196	98	\$212,769	\$978,000	\$0		b, d
Annual Stack Test and Report (for PM)	12	\$8,000	\$0	1	12	324	3,888	389	194	\$422,927	\$2,592,000	\$2,592,000		е
4. Annual Performance Test and Report (for CO)	12	\$6,000	\$0	1	12	324	3,888	389	194	\$422,927	\$1,944,000	\$1,944,000		d, e
Continuous Parameter Monitoring		,					-,		-	. ,-	. , , , , , , , , , , , , , , , , , , ,	. ,. ,		-, -
Establish Site-specific monitoring plan (all)	40	\$0	\$0	1	40	82	3.280	328	164	\$356.790	\$0	\$0		f
Opacity		***		_			0,200			7777,777	7.7	***		
a) initial	10	\$0	\$43.100	1	10	147	1.470	147	74	\$159,903	\$6,335,700	\$6,335,700		h
b) annual	10	\$0	\$14,700	1	10	441	4,410	441	221	\$479,709	\$0	\$6,482,700		h
CO (only sources greater than 100 mmBtu/hr)	10	Ψ0	Ψ1-1,100		10		7,710	772		Ψ+10,100	40	Ψ0, 102,100		
a) initial	10	\$0	\$160.900	1	10	0	0	0	0	\$0	\$0	\$0		g
b) annual	10	\$0	\$53,600	1	10	0	0	0	0	\$0	\$0	\$0		g
,	10	ΨΟ	Ψ33,000	_	10	0	-		0	ΨΟ	ΨΟ	ΨΟ		9
Bag Leak Detection System Operation (all sources that have fabric filters)			10==00				1=0				1000 000	1000 = 00		
a) initial	10	\$0	\$25,500	1	10	15	150	15	8	\$16,317	\$382,500	\$382,500		h
b) annual	10	\$0	\$9,700	1	10	45	450	45	23	\$48,950	\$0	\$436,500		h
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
Initial Notification that Source is Subject	2	\$0	\$0	1	2	82	164	16	8	\$17,840	\$0	\$0	82	a, b
Notification of Initial Stack Test	8	\$0	\$0	1	8	82	656	66	33	\$71,358	\$0	\$0	82	a, b
Report Established Values for Site-specific Operating Parameters (all)	see 3.E.6													
4) Notification of Compliance Status	40	\$0	\$0	1	40	82	3,280	328	164	\$356,790	\$0	\$0	82	a, b
5) Startup, Shutdown, Malfunction Plan	40	\$0	\$0	1	40	82	3,280	328	164	\$356,790	\$0	\$0	82	a, b
6) Semi-annual Compliance Report	20	\$0	\$0	2	40	244	9,760	976	488	\$1,061,668	\$0	\$0	488	a
Reporting Subtotal							32,108	3,211	1,605	\$3,492,628	\$6,818,000	\$4,536,000	816	i
Recordkeeping Requirements							,		,	. , ,	. , ,	, ,		
A. Read Instructions	see 3.A													
B. Implement Activities	na													
C. Develop Record System	na													
D. Record Information														
Records of Operating Parameter Values	20	\$0	\$0	1	20	487	9,740	974	487	\$1,059,493	\$0	\$0	487	а
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	1	15	487	7,305	731	365	\$794,620	\$0	\$0	487	a
Records of Stack Tests	2	\$0	\$0	1	2	487	974	97	49	\$105,949	\$0	\$0	487	a
Records of Monitoring Device Calibrations	2	\$0	\$0	1	2	487	974	97	49	\$105,949	\$0	\$0	487	g
5) Records of All Compliance Reports Submitted	2	\$0	\$0	2	4	487	1.948	195	97	\$211.899	\$0	\$0	974	a
6) Records of Monthly Fuel Use	0.5	\$0	\$0	12	6	487	2,922	292	146	\$317,848	\$0	\$0	5,844	a
E. Personnel Training	na			- -			_,,,							$+$ $\hat{-}$
F. Time for Audits	na					•		-						
Subtotal Recordkeeping							33,623	3,362	1,681	\$3,657,426	\$6,718,200	\$13,637,400	8,766	 ,
Totals							65,731	6,573	3,287	\$7,150,054	\$13,536,200	\$18,173,400	9.582	 '
ividis							05,731	0,373	3,201	φ1,130,034	φ±3,330,200	Ψ±0,±13,400	9,302	\Box

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

b A one-time requirement.

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

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

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

- e Subsequent annual testing in year 3 are based on the number of sources that had an initial test in year 1 and 2 of this ICR. Subsequent semi-annual compliance reporting and recordkeeping requirements are based on the number of new sources in years 1-3 of this ICR. Since fuel analysis is only required once every five years, no burden is assigned in year 2.
- f If you demonstrate compliance with any applicable emission limit through stack testing, you must develop a site-specific monitoring plan. All new large solid fuel units are expected to develop this plan.
- g Only the number of new large solid fuel units with a rated heat input capacity of 100 mmBtu/hr or greater are subject to continuous monitoring requirements and records of monitoring device calibrations
- h All new units greater than 10 mmBtu/hr are expected to install fabric filters and equipped with bag leak detection systems instead of opacity monitors
- i The burdens for monitoring are included in the recordkeeping subtotal

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

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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) Managemen t Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non- Labor Capital Costs	(M) Total Non-Labor Annual Costs	(N) Total Number of Responses per Year (E X G)	Footnotes
Applications	na														-
Surveys and Studies	na														
Reporting Requirements															
A. Read and Understand Rule															
Requirements	40	\$0	\$0	\$0	1	40	5,315	212,600	21,260	10,630	\$23,126,097	\$0	\$0		a
B. Required Activities															
Conduct Energy Audit															
a) Industrial	20	\$18,292	\$0	\$0	1	20	0	0	0	0	\$0	\$0	\$0		b, c, d
b) Commercial	20	\$854	\$0	\$0	1	20	0	0	0	0	\$0	\$0	\$0		b, c, d
2. Biennial Tune-Up	12	\$0	\$2,228	\$0	0.5	6	0	0	0	0	\$0	\$0	\$0		С
C. Create Information	na														
D. Gather Information	na														
E. Report Preparation															
Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	5,315	10,630	1,063	532	\$1,156,305	\$0	\$0	5,315	a
2) Notification of Compliance Status	8	\$0	\$0	\$0	1	8	0	0	0	0	\$0	\$0	\$0	0	С
Biennial Compliance Report	5	\$0	\$0	\$0	0.5	2.5	0	0	0	0	\$0	\$0	\$0	0	С
Reporting Subtotal								223,230	22,323	11,162	24,282,401	0	0	5,315	
Recordkeeping Requirements															
A. Read Instructions	Included in 3a														
B. Implement Activities	na														
C. Develop Record System	na														е
D. Record Information															
Records of All Notifications and Compliance Reports Submitted	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	\$0	0	С
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	\$0	1	15	0	0	0	0	\$0	\$0	\$0	0	С
3) Records of Biennial Tune-Up	0.5	\$0	\$0	\$0	0.5	0.25	0	0	0	0	\$0	\$0	\$0	0	С
E. Personnel Training	na														
F. Time for Audits	na														
Recordkeeping Subtotal								0	0	0	\$0	\$0	\$0	0	
Totals								223,230	22,323	11,162	\$24,282,401	\$0	\$0	5,315	

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

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

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

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

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

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

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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) Managemen t Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non- Labor Capital Costs	(M) Total Non- Labor Annual Costs	(N) Total Number of Responses per Year (E X G)	Footnotes
Applications	na													•	•
Surveys and Studies	na														
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															
Conduct Energy Audit															
a) Industrial	20	\$18,292	\$0	\$0	1	20	0	0	0	0	\$0	\$0	\$0		b, c, d
b) Commercial	20	\$854	\$0	\$0	1	20	0	0	0	0	\$0	\$0	\$0		b, c, d
2. Biennial Tune-Up	12	\$0	\$2,228	\$0	0.5	6	5,315	31,890	3,189	1,595	\$3,468,914	\$0	\$11,841,820		С
C. Create Information	na														
D. Gather Information	na														
E. Report Preparation															
Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	\$0	0	a
Notification of Compliance Status	8	\$0	\$0	\$0	1	8	0	0	0	0	\$0	\$0	\$0	0	С
Biennial Compliance Report	5	\$0	\$0	\$0	0.5	2.5	0	0	0	0	\$0	\$0	\$0	0	С
Reporting Subtotal								31,890	3,189	1,595	3,468,914	0	11,841,820	0	
Recordkeeping Requirements														•	
	Included in 3a														
B. Implement Activities	na														
C. Develop Record System	na														е
D. Record Information															
Records of All Notifications and Compliance Reports Submitted	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	\$0	0	С
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	\$0	1	15	0	0	0	0	\$0	\$0	\$0	0	С
3) Records of Biennial Tune-Up	0.5	\$0	\$0	\$0	0.5	0.25	0	0	0	0	\$0	\$0	\$0	0	С
E. Personnel Training	na														
F. Time for Audits	na														
Recordkeeping Subtotal								0	0	0	\$0	\$0	\$0	0	
Totals								31,890	3,189	1,595	\$3,468,914	\$0	\$11,841,820	0	

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

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

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

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

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

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

		101 Huzuru	ous All Foliate	IIIG (NESITA) for industrial	, Commerciai	, and montation	iai Dollers	- i cai 5,	LAISTING SIII	an John Fuer C	/iiit3			
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) Managemen t Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non- Labor Capital Costs	(M) Total Non- Labor Annual Costs	(N) Total Number of Responses per Year (E X G)	Footnotes
Applications	na														•
Surveys and Studies	na														
Reporting Requirements															
A. Read and Understand Rule Requirements B. Required Activities	40	\$0	\$0	\$0	1	40	0	0	0	0	\$0	\$0	\$0		a
Conduct Energy Audit a) Industrial	20	\$18.292	\$0	\$0	1	20	0	0	0	0	\$0	\$0	\$0		b, c, d
b) Commercial	20	\$854	\$0 \$0	\$0 \$0	1	20	0	0	0	0	\$0 \$0	\$0	\$0		
2. Biennial Tune-Up		\$854 \$0	\$2,228	\$0 \$0	0.5		5.315	31.890	3.189	1.595	\$3.468.914		\$11.841.820		b, c, d
C. Create Information	12	\$0	\$2,228	\$0	0.5	6	5,315	31,890	3,189	1,595	\$3,468,914	\$0	\$11,841,820		С
	na														
D. Gather Information	na														
E. Report Preparation															
Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	\$0	0	а
2) Notification of Compliance Status	8	\$0	\$0	\$0	1	8	5,315	42,520	4,252	2,126	\$4,625,219	\$0	\$0	5,315	С
Biennial Compliance Report	5	\$0	\$0	\$0	0.5	2.5	5,315	13,288	1,329	664	\$1,445,381	\$0	\$0	2,658	С
Reporting Subtotal								87,698	8,770	4,385	9,539,515	0	11,841,820	7,973	
Recordkeeping Requirements															
Read Instructions	Included in 3a														
B. Implement Activities	na														
C. Develop Record System	na														е
D. Record Information															
Records of All Notifications and Compliance Reports Submitted	2	\$0	\$0	\$0	1	2	10,629	21,258	2,126	1,063	\$2,312,392	\$0	\$0	10,629	С
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	\$0	1	15	0	0	0	0	\$0	\$0	\$0	0	c,f
3) Records of Biennial Tune-Up	0.5	\$0	\$0	\$0	0.5	0.25	10,629	2,657	266	133	\$289,049	\$0	\$0	5,315	С
E. Personnel Training	na													L	
F. Time for Audits	na														
Recordkeeping Subtotal								23,915	2,392	1,196	\$2,601,441	\$0	\$0	15,944	1 1
Totals								111,613	11,161	5,581	\$12,140,956	\$0	\$11,841,820	23,916	

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

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

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

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

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

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

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

					i ioi illuustiit	,	1								_
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) Managemen t Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non- Labor Capital Costs	(M) Total Non- Labor Annual Costs	(N) Total Number of Responses per Year (E X G)	Footnotes
Applications	na														
Surveys and Studies	na														
Reporting Requirements															
A. Read and Understand Rule															
Requirements	40	\$0	\$0	\$0	1	40	79,387	3,175,480	317,548	158,774	\$345,420,776	\$0	\$0		a
B. Required Activities															
Conduct Energy Audit															
a) Industrial	20	\$18,292	\$0	\$0	1	20	0	0	0	0	\$0	\$0	\$0		b, c, d
b) Commercial	20	\$854	\$0	\$0	1	20	0	0	0	0	\$0	\$0	\$0		b, c, d
2. Biennial Tune-Up	12	\$0	\$2,228	\$0	0.5	6	0	0	0	0	\$0	\$0	\$0		С
C. Create Information	na														
D. Gather Information	na														
E. Report Preparation														1	
Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	79,387	158,774	15,877	7.939	\$17,271,039	\$0	\$0	79,387	а
Casjour			40			_	10,001	200,111	20,011	7,000	41 1,211,000	40	40	. 0,00.	
2) Notification of Compliance Status	8	\$0	\$0	\$0	1	8	0	0	0	0	\$0	\$0	\$0	0	С
Biennial Compliance Report	5	\$0	\$0	\$0	0.5	2.5	0	0	0	0	\$0	\$0	\$0	0	С
Reporting Subtotal								3,334,254	333,425	166,713	362,691,814	0	0	79,387	
Recordkeeping Requirements															
	Included in 3a														
B. Implement Activities	na														
C. Develop Record System	na														е
D. Record Information															
Records of All Notifications and Compliance Reports Submitted	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	\$0	0	С
Records of Startup, Shutdown, Malfunction		\$0	\$0	\$0	1	15	0	0	0	0	#0	#0	\$0		
3) Records of Biennial Tune-Up	15 0.5	\$0 \$0	\$0 \$0	\$0 \$0	0.5	0.25	0	0	0	0	\$0 \$0	\$0 \$0	\$0	0	C
E. Personnel Training	na na	ΦU	ΦU	ΦU	0.5	0.25	U	U	U	U	ΦU	ΦU	ΦU	U	Ü
F. Time for Audits															
Recordkeeping Subtotal	na							0	0	0	\$0	\$0	\$0	0	1
Totals								3,334,254	333,425	166,713	\$362,691,814	\$0	\$0	79,387	

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

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

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

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

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

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

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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) Managemen t Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non- Labor Capital Costs	(M) Total Non- Labor Annual Costs	(N) Total Number of Responses per Year (E X G)	
Applications	na														-
Surveys and Studies	na														
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															
Conduct Energy Audit															
a) Industrial	20	\$18,292	\$0	\$0	1	20	0	0	0	0	\$0	\$0	\$0		b, c, 0
b) Commercial	20	\$854	\$0	\$0	1	20	0	0	0	0	\$0	\$0	\$0		b, c, 0
2. Biennial Tune-Up	12	\$0	\$2,228	\$0	0.5	6	39,694	238,164	23,816	11,908	\$25,906,885	\$0	\$88,438,232		С
C. Create Information	na														
D. Gather Information	na														
E. Report Preparation															
Initial Notification that Source is															
Subject	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	\$0	0	а
2) Notification of Compliance Status	8	\$0	\$0	\$0	1	8	0	0	0	0	\$0	\$0	\$0	0	С
Biennial Compliance Report	5	\$0	\$0	\$0	0.5	2.5	0	0	0	0	\$0	\$0	\$0	0	С
Reporting Subtotal								238,164	23,816	11,908	25,906,885	0	88,438,232	0	
Recordkeeping Requirements															
A. Read Instructions	Included in 3a														
B. Implement Activities	na														
C. Develop Record System	na														е
D. Record Information															
Records of All Notifications and Compliance Reports Submitted	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	\$0	0	С
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	\$0	1	15	0	0	0	0	\$0	\$0	\$0	0	С
Records of Biennial Tune-Up	0.5	\$0	\$0	\$0	0.5	0.25	0	0	0	0	\$0	\$0	\$0	0	С
E. Personnel Training	na														
F. Time for Audits	na														
Recordkeeping Subtotal								0	0	0	\$0	\$0	\$0	0	1
Totals								238,164	23,816	11,908	\$25,906,885	\$0	\$88,438,232	0	

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

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

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

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

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

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

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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) Managemen t Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non- Labor Capital Costs	(M) Total Non- Labor Annual Costs	(N) Total Number of Responses per Year (E X G)	Footnotes
Applications	na														
Surveys and Studies	na														
Reporting Requirements															
Read and Understand Rule															
Requirements	40	\$0	\$0	\$0	1	40	0	0	0	0	\$0	\$0	\$0		a
B. Required Activities															
Conduct Energy Audit															
a) Industrial	20	\$18,292	\$0	\$0	1	20	0	0	0	0	\$0	\$0	\$0		b, c, d
b) Commercial	20	\$854	\$0	\$0	1	20	0	0	0	0	\$0	\$0	\$0		b, c, d
2. Biennial Tune-Up	12	\$0	\$2,228	\$0	0.5	6	39,694	238,161	23,816	11,908	\$25,906,558	\$0	\$88,437,118		С
C. Create Information	na														
D. Gather Information	na														
E. Report Preparation															
Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	\$0	0	a
2) Notification of Compliance Status	8	\$0	\$0	\$0	1	8	79,387	635,096	63,510	31,755	\$69,084,155	\$0	\$0	79,387	С
Biennial Compliance Report	5	\$0	\$0	\$0	0.5	2.5	79,387	198,468	19,847	9,923	\$21,588,798	\$0	\$0	39,694	С
Reporting Subtotal								1,071,725	107,172	53,586	116,579,512	0	88,437,118	119,081	
Recordkeeping Requirements															
	Included in 3a														
B. Implement Activities	na														
C. Develop Record System	na														е
D. Record Information															
Records of All Notifications and Compliance Reports Submitted	2	\$0	\$0	\$0	1	2	158,774	317,548	31,755	15,877	\$34,542,078	\$0	\$0	158,774	С
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	\$0	1	15	0	0	0	0	\$0	\$0	\$0	0	c, f
3) Records of Biennial Tune-Up	0.5	\$0	\$0	\$0	0.5	0.25	158,774	39,694	3,969	1,985	\$4,317,760	\$0	\$0	79,387	С
E. Personnel Training	na													•	
F. Time for Audits	na														
Recordkeeping Subtotal								357,242	35,724	17,862	\$38,859,837	\$0	\$0	238,161	
Totals								1,428,966	142,897	71,448	\$155,439,349	\$0	\$88,437,118	357,242	

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

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

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

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

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

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

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

			,			institutiona	20							_
Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Stack Test and Fuel Analysis Cost Per Occurrence	(C) Non-Labor Costs Per Occurrence	(D) Number of Occurrences Per Respondent Per Year	(E) Technical Hours per Respondent Per Year (A X D)	(F) Number of Respondents Per Year	(G) Technical Hours per Year @ \$98.20 (F X G)	(H) Clerical Hours per Year @ \$48.53 (H X 0.1)	(I) Manage ment Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non- Labor Capital Costs	(M) Total Non- Labor Annual Cost	(N) Total Number of Responses per Year (D X F)	Footnotes
Applications	na												•	-
Surveys and Studies	na													
Reporting Requirements														
A. Read and Understand Rule Requirements	40	\$0	\$0	1	40	49	1,960	196	98	\$213.204	\$0	\$0		a, b
B. Required Activities	70	ΨΟ	ΨΟ	-	70	73	1,500	130	- 30	Ψ210,204	ΨΟ	Ψ0		α, υ
	12	\$8.000	\$0	1	12	98	1.176	118	59	\$127.922	\$784.000	\$0		
Initial Stack Test and Report (for PM)				_		98						\$0		d
Initial Stack Test and Report (for Hg)	12	\$5,000	\$0	1	12		1,176	118	59	\$127,922	\$490,000			d
Initial Performance Test and Report (for CO)	12	\$6,000	\$0	1	12	98	1,176	118	59	\$127,922	\$588,000	\$0		d
Annual Stack Test and Report (for PM)	12	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	\$0		c,d
Annual Stack Test and Report (for Hg)	12	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	\$0		c,d
Annual Performance Test and Report (for CO)	12	\$6,000	\$0	1	12	0	0	0	0	\$0	\$0	\$0		c,d
Initial Fuel Analysis for Mercury Content	5	\$200	\$0	1	5	0	0	0	0	\$0	\$0	\$0		d
Annual Fuel Analysis for Mercury Content	5	\$200	\$0	1	5	0	0	0	0	\$0	\$0	\$0		c,d
Continuous Parameter Monitoring		Ψ200	ΨΟ	-			-	-	ļ .	Ψ0	ΨΟ	Ψ0		0,0
	40	\$0	\$0	1	40	40	1.000	100	00	#212 204	\$0	\$0		
Establish Site-specific monitoring plan (all)	40	\$0	\$0	1	40	49	1,960	196	98	\$213,204	\$0	\$0		С
Opacity														
a) initial	10	\$0	\$43,100	1	10	98	980	98	49	\$106,602	\$4,223,800	\$4,223,800		c,f
b) annual	10	\$0	\$14,700	1	10	98	980	98	49	\$106,602	\$0	\$1,440,600		c,f
CO (only sources greater than 100 mmBtu/hr)														
a) initial	10	\$0	\$160,900	1	10	0	0	0	0	\$0	\$0	\$0		е
b) annual	10	\$0	\$53,600	1	10	0	0	0	0	\$0	\$0	\$0		e
	10	40	400,000	-					<u> </u>	40	-	+		
Bag Leak Detection System Operation (all sources that have fabric filters)														
a) initial	10	\$0	\$25,500	1	10	0	0	0	0	\$0	\$0	\$0		f
b) annual	10	\$0	\$9,700	1	10	0	0	0	0	\$0	\$0	\$0		f
D. Gather Information	na													
E. Report Preparation	na													
Initial Notification that Source is Subject	2	\$0	\$0	1	2	49	98	10	5	\$10,660	\$0	\$0	49	a, b
Notification of Initial Stack Test	8	\$0	\$0	1	8	49	392	39	20	\$42,641	\$0	\$0	49	е
Report Established Values for Site-specific Operating Parameters (all)	see 3.E.6	40	40				002	- 55	20	\$12,012	45	40		
4) Notification of Initial Compliance Status	40	\$0	\$0	1	40	49	1,960	196	98	\$213,204	\$0	\$0	49	a, b
5) Startup, Shutdown, Malfunction Plan	20	\$0	\$0	1	20	49	980	98	49	\$106,602	\$0	\$0	49	a, b
		\$0	\$0	_	40	49		196	98	\$213,204	\$0 \$0	\$0	98	a, u
6) Semi-Annual Compliance Report	20	⊅U	⊅U	2	40	49	1,960							
Reporting Subtotal							10,878	1,088	544	\$1,183,282	\$1,862,000	\$0	294	
Recordkeeping Requirements														
A. Read Instructions	see 3.A													
B. Implement Activities	na													
C. Develop Record System	na													
D. Record Information														
Records of Operating Parameter Values	20	\$0	\$0	1	20	98	1,960	196	98	\$213,204	\$0	\$0	98	а
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	1	15	98	1,470	147	74	\$159,903	\$0	\$0	98	a
3) Records of Stack Tests	2	\$0	\$0	1	2	98	196	20	10	\$21,320	\$0	\$0	98	a
Records of Stack Tests Records of Monitoring Device Calibrations	2	\$0	\$0	1	2	98	196	20	10	\$21,320	\$0	\$0	98	
				_										e,a
5) Records of All Compliance Reports Submitted	2	\$0	\$0	2	4	98	392	39	20	\$42,641	\$0	\$0	196	a
Records of Monthly Fuel Use	0.5	\$0	\$0	12	6	98	588	59	29	\$63,961	\$0	\$0	1,176	d
E. Personnel Training	na													
F. Time for Audits	na													
Recordkeeping Subtotal							8,722	872	436	\$948,757	\$4,223,800	\$5,664,400	1,764	l i
Totals	-					 	19,600	1,960	980	\$2,132,039	\$6,085,800	\$5,664,400	2,058	+ -
เบเสเร							19,000	1,900	900	φ ∠,13 ∠,039	90,000,000	φ5,004,400	2,000	

a The total number of new small solid fuel boilers estimated in the first 3 years of this rule is 295. In order to calculate a per year estimate of the number of boilers required to meet these rule requirements, the number of projected boilers is divided by 3, or 98.3 rounded to 98 boilers per year. 98 boilers will be accounted for in year 1 and 2 and 94 in year 3. Assuming 2 unit per facility, 49 new facilities will be subject in year 1 and 2 and 50 facilities in year 3.

b A one-time requirement.

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

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

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

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

 $[\]ensuremath{\mathbf{g}}$ The burdens for monitoring are included in the recordkeeping subtotal

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

								_	_					
Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Stack Test and Fuel Analysis Cost Per Occurrence	(C) Non-Labor Costs Per Occurrence	(D) Number of Occurrences Per Respondent Per Year	(E) Technical Hours per Respondent Per Year (A X D)	(F) Number of Respondents Per Year	(G) Technical Hours per Year @ \$98.20 (F X G)	(H) Clerical Hours per Year @ \$48.53 (H X 0.1)	(I) Manage ment Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non-Labor Capital Costs	(M) Total Non-Labor Annual Cost	(N) Total Number of Responses per Year (D X F)	Footnotes
1. Applications	na				,		-,	- /	,				· ′	
2. Surveys and Studies	na								_					
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	\$0	\$0	1	40	49	1.960	196	98	\$213.204	\$0	\$0		a. b
B. Required Activities		**		_			_,,			T				,
Initial Stack Test and Report (for PM)	12	\$8,000	\$0	1	12	98	1.176	118	59	\$127.922	\$784.000	\$0		d
Initial Stack Test and Report (for Hg)	12	\$5,000	\$0	1	12	98	1.176	118	59	\$127,922	\$490.000	\$0		d
Initial Performance Test and Report (for CO)	12	\$6,000	\$0	1	12	98	1,176	118	59	\$127,922	\$588,000	\$0		d
Annual Stack Test and Report (for PM)	12	\$8,000	\$0	1	12	98	1,176	118	59	\$127,922	\$0	\$784,000		c,d
5. Annual Stack Test and Report (for Hg)	12	\$5,000	\$0	1	12	98	1.176	118	59	\$127,922	\$0	\$490,000		c,d
6. Annual Performance Test and Report (for CO)	12	\$6,000	\$0	1	12	98	1,176	118	59	\$127,922	\$0	\$588,000		c,d
7. Initial Fuel Analysis for Mercury Content	5	\$200	\$0	1	5	0	0	0	0	\$0	\$0	\$0		d d
8. Annual Fuel Analysis for Mercury Content	5	\$200	\$0	1	5	0	0	0	0	\$0	\$0	\$0		c,d
S. Affidal Fuel Analysis for Mercury Content S. Continuous Parameter Monitoring	5	\$200	Φ0	1	5	U	U	U	U	ФО	Φ0	Φυ		c,u
Establish Site-specific monitoring plan (all)	40	\$0	\$0	1	40	49	1,960	196	98	\$213,204	\$0	\$0		С
	40	ΦО	Φ0	1	40	49	1,900	190	90	Φ213,204	Φ0	Φυ		C
Opacity	10	\$0	\$43,100	1	10	98	980	98	49	#10C CO2	\$4.223.800	\$4,223,800		2.6
a) initial b) annual	10	\$0 \$0	\$43,100	1 1	10	196	1.960	196	98	\$106,602 \$213,204	\$4,223,800	\$4,223,800		c,f c,f
	10	\$ 0	\$14,700	1	10	190	1,960	196	98	\$213,204	\$0	\$2,881,200		C,I
CO (only sources greater than 100 mmBtu/hr)	40	40	# 4.00.000	4	10			_	_	40	40	40		
a) initial	10	\$0	\$160,900	1	10	0	0	0	0	\$0	\$0	\$0		е
b) annual	10	\$0	\$53,600	1	10	0	0	0	0	\$0	\$0	\$0		е
Bag Leak Detection System Operation (all sources that have fabric filters)														
a) initial	10	\$0	\$25,500	1	10	0	0	0	0	\$0	\$0	\$0		f
b) annual	10	\$0	\$9,700	1	10	0	0	0	0	\$0	\$0	\$0		f
D. Gather Information	na													
E. Report Preparation	na													
Initial Notification that Source is Subject	2	\$0	\$0	1	2	49	98	10	5	\$10,660	\$0	\$0	49	a, b
Notification of Initial Stack Test	8	\$0	\$0	1	8	49	392	39	20	\$42,641	\$0	\$0	49	е
Report Established Values for Site-specific Operating Parameters (all)	see 3.E.6													
Notification of Initial Compliance Status	40	\$0	\$0	1	40	49	1,960	196	98	\$213,204	\$0	\$0	49	a, b
5) Startup, Shutdown, Malfunction Plan	20	\$0	\$0	1	20	49	980	98	49	\$106,602	\$0	\$0	49	a, d
Semi-Annual Compliance Report	20	\$0	\$0	2	40	98	3,920	392	196	\$426,408	\$0	\$0	196	
Reporting Subtotal							16,366	1,637	818	\$1,780,253	\$1,862,000	\$1,862,000	392	g
Recordkeeping Requirements													1	
A. Read Instructions	see 3.A													
B. Implement Activities	na													
C. Develop Record System	na													
D. Record Information														
Records of Operating Parameter Values	20	\$0	\$0	1	20	196	3,920	392	196	\$426,408	\$0	\$0	196	а
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	1	15	196	2,940	294	147	\$319,806	\$0	\$0	196	a
Records of Stack Tests	2	\$0	\$0	1	2	196	392	39	20	\$42.641	\$0	\$0	196	a
Records of Monitoring Device Calibrations	2	\$0	\$0	1	2	196	392	39	20	\$42,641	\$0	\$0	196	e,a
5) Records of All Compliance Reports Submitted	2	\$0	\$0	2	4	98	392	39	20	\$42.641	\$0	\$0	196	a
6) Records of Monthly Fuel Use	0.5	\$0	\$0	12	6	196	1.176	118	59	\$127.922	\$0	\$0	2.352	d
E. Personnel Training	na	+5					_,		-		<u> </u>		_,552	
F. Time for Audits	na													
Recordkeeping Subtotal							14,112	1,411	706	\$1,535,068	\$4,223,800	\$7,105,000	3,332	g
Totals							30,478	3,048	1,524	\$3,315,321	\$6,085,800	\$8,967,000	3,724	9
a The total number of new small solid fuel boilers estimated in t	the first 3 years (of this rule is 20	5. In order to ca	alculate a ner ve	ar estimate of th	e number of boile	rs required to	n meet thes	se rule requi	rements the numb	er of projected boilers	is divided by 3 or 98	3 rounded to 98 h	hoilare nar

a The total number of new small solid fuel boilers estimated in the first 3 years of this rule is 295. In order to calculate a per year estimate of the number of boilers required to meet these rule requirements, the number of projected boilers is divided by 3, or 98.3 rounded to 98 boilers per year. 98 boilers will be accounted for in year 1 and 2 and 94 in year 3. Assuming 2 unit per facility, 49 new facilities will be subject in year 1 and 2 and 50 facilities in year 3.

b A one-time requirement.

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

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

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

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



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

												•	1	
Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Stack Test and Fuel Analysis Cost Per Occurrence	(C) Non-Labor Costs Per Occurrence	(D) Number of Occurrences Per Respondent Per Year	(E) Technical Hours per Respondent Per Year (A X D)	(F) Number of Respondents Per Year	(G) Technical Hours per Year @ \$98.20 (F X G)	(H) Clerical Hours per Year @ \$48.53 (H X 0.1)	(I) Manage ment Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non-Labor Capital Costs	(M) Total Non-Labor Annual Cost	(N) Total Number of Responses per Year (D X F)	Footnotes
1. Applications	na													
Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	\$0	\$0	1	40	50	2,000	200	100	\$217,555	\$0	\$0		a, b
B. Required Activities	40	ΨΟ	Ψ0		40	30	2,000	200	100	ΨΖ17,333	ΨΟ	ΨΟ		α, υ
	10	#0.000	40		10		1 100	440		\$4.00.000	#700.000	40		
Initial Stack Test and Report (for PM)	12	\$8,000	\$0	1	12	99	1,188	119	59	\$129,228	\$792,000	\$0		d
Initial Stack Test and Report (for Hg)	12	\$5,000	\$0	1	12	99	1,188	119	59	\$129,228	\$495,000	\$0		d
Initial Performance Test and Report (for CO)	12	\$6,000	\$0	1	12	99	1,188	119	59	\$129,228	\$594,000	\$0		d
Annual Stack Test and Report (for PM)	12	\$8,000	\$0	1	12	196	2,352	235	118	\$255,845	\$0	\$1,568,000		c,d
Annual Stack Test and Report (for Hg)	12	\$5,000	\$0	1	12	196	2,352	235	118	\$255,845	\$0	\$980,000		c,d
Annual Performance Test and Report (for CO)	12	\$6,000	\$0	1	12	196	2,352	235	118	\$255,845	\$0	\$1,176,000		c,d
Initial Fuel Analysis for Mercury Content	5	\$200	\$0	1	5	0	0	0	0	\$0	\$0	\$0		d
Annual Fuel Analysis for Mercury Content	5	\$200	\$0	1	5	0	0	0	0	\$0	\$0	\$0		c,d
Continuous Parameter Monitoring	J	Ψ200	ΨΟ	-					Ů	ΨΟ	Ψ0	Ψ0		U,U
	40	40	40		40		0.000	000	100	4047 FFF	40	40		
Establish Site-specific monitoring plan (all)	40	\$0	\$0	1	40	50	2,000	200	100	\$217,555	\$0	\$0		С
Opacity														
a) initial	10	\$0	\$43,100	1	10	99	990	99	50	\$107,690	\$4,266,900	\$4,266,900		c,f
b) annual	10	\$0	\$14,700	1	10	294	2,940	294	147	\$319,806	\$0	\$4,321,800		c,f
CO (only sources greater than 100 mmBtu/hr)														
a) initial	10	\$0	\$160,900	1	10	0	0	0	0	\$0	\$0	\$0		е
b) annual	10	\$0	\$53,600	1	10	0	0	0	0	\$0	\$0	\$0		е
	10	40	400,000	-	- 20					40	***	+0		
Bag Leak Detection System Operation (all sources that have fabric filters)	10	\$0	\$25,500		10		0			\$0	\$0	\$0		
a) initial	10			1	-	0	1 -	0	0					ī
b) annual	10	\$0	\$9,700	1	10	0	0	0	0	\$0	\$0	\$0		f
D. Gather Information	na													
E. Report Preparation	na													
Initial Notification that Source is Subject	2	\$0	\$0	1	2	50	100	10	5	\$10,878	\$0	\$0	50	a, b
Notification of Initial Stack Test	8	\$0	\$0	1	8	50	400	40	20	\$43,511	\$0	\$0	50	е
Report Established Values for Site-specific Operating Parameters (all)	see 3.E.6													
Notification of Initial Compliance Status	40	\$0	\$0	1	40	50	2,000	200	100	\$217,555	\$0	\$0	50	a, b
5) Startup, Shutdown, Malfunction Plan	20	\$0	\$0	1	20	50	1,000	100	50	\$108,778	\$0	\$0	50	a, d
6) Semi-Annual Compliance Report	20	\$0	\$0	2	40	148	5,920	592	296	\$643,963	\$0	\$0	296	u, u
Reporting Subtotal	20	Ψυ	Ψυ		40	140	22,040	2,204	1,102	\$2,397,456	\$1,881,000	\$3,724,000	496	C
, ,					-		22,040	2,204	1,102	φ2,391,430	Φ1,001,000	Φ3,724,000	490	g
Recordkeeping Requirements														
A. Read Instructions	see 3.A													
B. Implement Activities	na													
C. Develop Record System	na													
D. Record Information														
Records of Operating Parameter Values	20	\$0	\$0	1	20	295	5,900	590	295	\$641,787	\$0	\$0	295	а
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	1	15	295	4,425	443	221	\$481,340	\$0	\$0	295	a
3) Records of Stack Tests	2	\$0	\$0	1	2	295	590	59	30	\$64.179	\$0	\$0	295	a
Records of Monitoring Device Calibrations	2	\$0	\$0	1	2	295	590	59	30	\$64.179	\$0	\$0	295	e,a
5) Records of All Compliance Reports Submitted	2	\$0	\$0	2	4	295	1,180	118	59	\$128,357	\$0	\$0	590	a a
						295								
6) Records of Monthly Fuel Use	0.5	\$0	\$0	12	6	295	1,770	177	89	\$192,536	\$0	\$0	3,540	d
E. Personnel Training	na													
F. Time for Audits	na													
Recordkeeping Subtotal							20,385	2,039	1,019	\$2,217,429	\$4,266,900	\$8,588,700	5,310	g
Totals					1		42,425	4,243	2.121	\$4.614.885	\$6,147,900	\$12,312,700	5.806	_
a. The total number of new small colid fuel heilers estimated in t								,		iroments the number	, ,	. ,- ,	nundad to 00 haila	

a The total number of new small solid fuel boilers estimated in the first 3 years of this rule is 295. In order to calculate a per year estimate of the number of boilers required to meet these rule requirements, the number of projected boilers is divided by 3, or 98.3 rounded to 98 boilers per year. 98 boilers will be accounted for in year 1 and 2 and 94 in year 3. Assuming 2 unit per facility, 49 new facilities will be subject in year 1 and 50 facilities in year 3.

- c Subsequent annual testing in year 3 are based on the number of sources that had an initial test in year 1 and 2 of this ICR. Subsequent semi-annual compliance reporting and recordkeeping requirements are based on the number of new sources in years 1-3 of this ICR.
- d This NESHAP provides a compliance option for mercury from coal to conduct a fuel analysis once every five years, if a unit burns the same kind of fuel, or re-conduct a fuel analysis if a unit changes fuel type. All projected large solid fuel units expected to comply through stack testing instead of the fuel testing compliance option, see note a for the derivation of the number of units per year.
- e Only the new large solid fuel units with a rated heat input capacity of 100 mmBtu/hr or greater are subject to continuous monitoring requirements and records of monitoring device calibrations.
- f It assumed that only new large solid fuel units will install fabric filters and utilize bag leak detection monitoring systems. New small units will use opacity monitoring

b A one-time requiremen



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

	(A) Respondent Hours per Occurrence (Technical	(B) Stack Test and Fuel Analysis Cost Per	(C) Non-Labor Costs Per	(D) Number of Occurrences Per Respondent	(E) Technical Hours per Respondent Per Year (A	(F) Number of Respondents	(G) Technical Hours per Year @ \$98.20 (F	(H) Clerical Hours per Year @ \$48.53 (H X	(I) Manage ment Hours per Year @ \$114.49 (H	(K) Total Labor	(L) Total Non-Labor	(M) Total Non-Labor	(N) Total Number of Responses per Year (D X	
Burden Item	` hours)	Occurrence	Occurrence	Per Year	X D) `	Per Year	X G) `	0.1)	X .05)	Costs Per Year	Capital Costs	Annual Cost	F) `	Footnotes
1. Applications	na													
2. Surveys and Studies	na													-
Reporting Requirements														
A. Read and Understand Rule Requirements	40	\$0	\$0	1	40	990	39,600	3,960	1,980	\$4,307,589	\$0	\$0		a, b
B. Required Activities							,	-,	,,,,,,	. , ,				
Initial Stack Test and Report (for PM)	12	\$8.000	\$0	1	12	1.979	23,748	2,375	1,187	\$2,583,248	\$15,832,000	\$0		d
Initial Performance Test and Report (for CO)	12	\$6,000	\$0	1	12	1.979	23,748	2,375	1,187	\$2,583,248	\$11,874,000	\$0		d
Annual Stack Test and Report (for PM)	12	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	\$0		c,d
Annual Performance Test and Report (for CO)	12	\$6,000	\$0	1	12	0	0	0	0	\$0	\$0	\$0		c,d
Continuous Parameter Monitoring		\$0,000				-		<u> </u>		40	40	40		
Establish Site-specific monitoring plan (all)	40	\$0	\$0	1	40	990	39.600	3,960	1.980	\$4.307.589	\$0	\$0		С
Opacity	40	ΨΟ	ΨΟ		40	330	33,000	3,300	1,300	Ψ4,507,505	Ψ0	ΨΟ		
a) initial	10	\$0	\$43.100	1	10	1.947	19,470	1,947	974	\$2,117,898	\$83,915,700	\$83.915.700		c,f
b) annual	10	\$0	\$14.700	1	10	1.947	19,470	1,947	974	\$2,117,898	\$0	\$28.620.900		c,i c,f
CO (only sources greater than 100 mmBtu/hr)	10	Φυ	\$14,700	1	10	1,947	19,470	1,947	974	\$2,117,898	Φ0	\$28,020,900		C,I
, ,	10	\$0	\$160,900	1	10	0	0	0	0	\$0	\$0	\$0		
a) initial	10	\$0 \$0	\$53,600		10	0			0	\$0 \$0	\$0 \$0	\$0 \$0		е
b) annual	10	\$0	\$53,600	1	10	U	0	0	U	\$0	\$0	\$0		е
Bag Leak Detection System Operation (all sources that have fabric filters)														
a) initial	10	\$0	\$25,500	1	10	83	830	83	42	\$90,285	\$2,116,500	\$2,116,500		f
b) annual	10	\$0	\$9,700	1	10	83	830	83	42	\$90,285	\$0	\$805,100		f
D. Gather Information	na													
E. Report Preparation	na													
Initial Notification that Source is Subject	2	\$0	\$0	1	2	990	1,980	198	99	\$215,379	\$0	\$0	990	a, b
Notification of Initial Stack Test	8	\$0	\$0	1	8	990	7,920	792	396	\$861,518	\$0	\$0	990	е
Report Established Values for Site-specific Operating Parameters (all)	see 3.E.6													
Notification of Initial Compliance Status	40	\$0	\$0	1	40	990	39,600	3,960	1,980	\$4,307,589	\$0	\$0	990	a, b
5) Startup, Shutdown, Malfunction Plan	20	\$0	\$0	1	20	990	19,800	1,980	990	\$2,153,795	\$0	\$0	990	a, d
6) Semi-Annual Compliance Report	20	\$0	\$0	2	40	990	39,600	3,960	1,980	\$4,307,589	\$0	\$0	1,980	
Reporting Subtotal							195,996	19,600	9,800	\$21,319,955	\$27,706,000	\$0	5,940	g
Recordkeeping Requirements								· ·						
A. Read Instructions	see 3.A													
B. Implement Activities	na													
C. Develop Record System	na													
D. Record Information														
Records of Operating Parameter Values	20	\$0	\$0	1	20	1,979	39,580	3,958	1,979	\$4,305,413	\$0	\$0	1,979	a
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	1	15	1.979	29,685	2,969	1,484	\$3,229,060	\$0	\$0	1,979	a
Records of Stack Tests	2	\$0	\$0	1	2	1.979	3,958	396	198	\$430,541	\$0	\$0	1,979	a
Records of Monitoring Device Calibrations	2	\$0	\$0	1	2	1.979	3,958	396	198	\$430,541	\$0	\$0	1.979	e.a
5) Records of All Compliance Reports Submitted	2	\$0	\$0	2	4	990	3,960	396	198	\$430,759	\$0	\$0	1,980	a
6) Records of Monthly Fuel Use	0.5	\$0	\$0 \$0	12	6	1,979	11,874	1,187	594	\$1,291,624	\$0	\$0	23,748	d d
E. Personnel Training	na	ΦU	ΦU	12	0	1,979	11,874	1,187	594	Φ1,Z91,0Z4	ΦU	ΦU	23,748	u
<u> </u>														
F. Time for Audits	na									*****	+			, I
Recordkeeping Subtotal							173,215	17,322	8,661	\$18,841,895	\$86,032,200	\$115,458,200	33,644	g
Totals							369,211	36,921	18,461	\$40,161,850	\$113,738,200	\$115,458,200	39,584	

a The total number of new small solid fuel boilers estimated in the first 3 years of this rule is 5,937. In order to calculate a per year estimate of the number of boilers required to meet these rule requirements, the number of projected boilers is divided by 3, or 1,979 boilers per year. Assuming 2 unit per facility, 990 new facilities will be subject in year 1 and 2 and 989 facilities in year 3.

b A one-time requirement.

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

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

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

assumed that only new large solid fuel units will install fabric filters and utilize bag leak detection monitoring systems. New small units will use opacity monitoring 'he burdens for monitoring are included in the recordkeeping subtotal	

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

101 1102010	TOUS AIL I OIL	Tutanto (NEO	1171 / 101 111	austrial, con	Timereiai, an	ia montanona	1 Doners a	1101100	Too Heat	515 Tour 2, 110	W Gillan Elquiu			
Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Stack Test and Fuel Analysis Cost Per Occurrence	(C) Non-Labor Costs Per Occurrence	(D) Number of Occurrences Per Respondent Per Year	Respondent		(G) Technical Hours per Year @ \$98.20 (F X G)	\$48.53	Hours per Year @		(L) Total Non-Labor Capital Costs	l (M) Total Non-Labor Annual Cost	(N) Total Number of Responses per Year (D X F)	(Footnotes
1. Applications	na	<u> </u>			1				T					
Surveys and Studies	na				T'									
Reporting Requirements					<u> </u>									
A. Read and Understand Rule Requirements	40	\$0	\$0	1	40	990	39,600	3,960	1,980	\$4,307,589	\$0	\$0		a, b
B. Required Activities														
Initial Stack Test and Report (for PM)	12	\$8,000	\$0	1	12	1,979	23,748	2,375	1,187	\$2,583,248	\$15,832,000	\$0		d
Initial Performance Test and Report (for CO)	12	\$6,000	\$0	1	12	1,979	23,748	2,375	1,187	\$2,583,248	\$11,874,000	\$0		d
Annual Stack Test and Report (for PM)	12	\$8,000	\$0	1	12	1,979	23,748	2,375	1,187	\$2,583,248	\$0	\$15,832,000		c,d
Annual Performance Test and Report (for CO)	12	\$6,000	\$0	1	12	1,979	23,748	2,375	1,187	\$2,583,248	\$0	\$11,874,000		c,d
Continuous Parameter Monitoring					'									
Establish Site-specific monitoring plan (all)	40	\$0	\$0	1	40	990	39,600	3,960	1,980	\$4,307,589	\$0	\$0		С
Opacity					,	1								
a) initial	10	\$0	\$43,100	1	10	1,947	19,470	1,947	974	\$2,117,898	\$83,915,700	\$83,915,700		c,f
b) annual	10	\$0	\$14,700	1	10	3,894	38,940	3,894	1,947	\$4,235,796	\$0	\$57,241,800	-	c,f
CO (only sources greater than 100 mmBtu/hr)					,				†					
a) initial	10	\$0	\$160,900	1	10	0	0	0	0	\$0	\$0	\$0		е
b) annual	10	\$0	\$53,600	1	10	0	0	0	0	\$0	\$0	\$0		е
Bag Leak Detection System Operation (all sources that have fabric filters)														
a) initial	10	\$0	\$25,500	1	10	83	830	83	42	\$90,285	\$2,116,500	\$2,116,500	•	f
b) annual	10	\$0	\$9,700	1	10	166	1,660	166	83	\$180,571	\$0	\$1,610,200		f
D. Gather Information	na	<u> </u>		+	+		+	+	+		+			
E. Report Preparation	na	 		+	+		+	+	+	 	+			
1) Initial Notification that Source is Subject	2	\$0	\$0	1	2	990	1,980	198	99	\$215,379	\$0	\$0	990	a, b
2) Notification of Initial Stack Test	8	\$0	\$0	1	8	990	7,920	792	396	\$861,518	\$0	\$0	990	е
Report Established Values for Site-specific Operating Parameters (all)	see 3.E.6			<u> </u>			,							
Notification of Initial Compliance Status	40	\$0	\$0	1	40	990	39,600	3,960	1,980	\$4,307,589	\$0	\$0	990	a, b
5) Startup, Shutdown, Malfunction Plan	20	\$0	\$0	1	20	990	19,800	1,980	990	\$2,153,795	\$0	\$0	990	a, d
6) Semi-Annual Compliance Report	20	\$0	\$0	2	40	1,980	79,200	7,920	3,960	\$8,615,178	\$0	\$0	3,960	
Reporting Subtotal	'		1		'	1	283,092	28,309	14,155	\$30,794,040	\$27,706,000	\$27,706,000	7,920	g
Recordkeeping Requirements					'									
A. Read Instructions	see 3.A				,				+					
B. Implement Activities	na				,									
C. Develop Record System	na				 				+		+			
D. Record Information					†		†		+		+		-	
Records of Operating Parameter Values	20	\$0	\$0	1	20	3,958	79,160	7,916	3,958	\$8,610,827	\$0	\$0	3,958	а
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	1	15	3,958	59,370	5,937	2,969	\$6,458,120	\$0	\$0	3,958	а
Records of Stack Tests	2	\$0	\$0	1	2	3,958	7,916	792	396	\$861,083	\$0	\$0	3,958	а
Records of Monitoring Device Calibrations	2	\$0	\$0	1	2	3,958	7,916	792	396	\$861,083	\$0	\$0	3,958	e,a
5) Records of All Compliance Reports Submitted	2	\$0	\$0	2	4	1,980	7,920	792	396	\$861,518	\$0	\$0	3,960	а
6) Records of Monthly Fuel Use	0.5	\$0	\$0	12	6	3,958	23,748	2,375	1,187	\$2,583,248	\$0	\$0	47,496	d
E. Personnel Training	na	1		+	+		 	-	+	<u> </u>			· ·	
F. Time for Audits	na			+	+		+	+	+		+	+		
Recordkeeping Subtotal	1	1	1	1	'	1	286,530	28,653	14,327	\$31,168,017	\$86,032,200	\$144,884,200	67,288	g
Totals		$\overline{}$		+	+				28,481	. , ,	\$113,738,200	\$172,590,200	75,208	+ 9
I Utui 3							303,022	30,302	20,701	Ψ01,302,031	Ψ113,130,200	\$112,330,200	13,200	

a The total number of new small solid fuel boilers estimated in the first 3 years of this rule is 5,937. In order to calculate a per year estimate of the number of boilers required to meet these rule requirements, the number of projected boilers is divided by 3, or 1,979 boilers per year. Assuming 2 unit per facility, 990 new facilities will be subject in year 1 and 2 and 989 facilities in year 3.

b A one-time requirement.

- c Subsequent annual testing in year 2 are based on the number of sources that had an initial test in year 1 of this ICR. Subsequent semi-annual compliance reporting and recordkeeping requirements are based on the number of new sources in years 1 and 2 of this ICR. d Liquid units are not subject to a numerical limit for mercury and do not need to conduct mercury testing.
- e Only the new large liquid fuel units with a rated heat input capacity of 100 mmBtu/hr or greater are subject to continuous monitoring requirements and records of monitoring device calibrations.
- f It assumed that only new large solid fuel units will install fabric filters and utilize bag leak detection monitoring systems. New small units will use opacity monitoring
- g The burdens for monitoring are included in the recordkeeping subtotal

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

Burden Item	(A) Respondent Hours per Occurrence	(B) Stack Test							(I) Manage					
1 Applications	(Technical hours)	and Fuel Analysis Cost Per Occurrence	(C) Non-Labor Costs Per Occurrence	(D) Number of Occurrences Per Respondent Per Year	(E) Technical Hours per Respondent Per Year (A X D)	(F) Number of Respondents Per Year	(G) Technical Hours per Year @ \$98.20 (F X G)	(H) Clerical Hours per Year @ \$48.53 (H X 0.1)	ment Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non-Labor Capital Costs		(N) Total Number of Responses per Year (D X F)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements	TICK TICK													
A. Read and Understand Rule Requirements	40	\$0	\$0	1	40	989	39,560	3,956	1,978	\$4,303,238	\$0	\$0		a, b
	40	Ψ0	Φ0	1	40	303	39,300	3,930	1,970	Φ4,303,230	ΦΟ	Ψ0		α, υ
B. Required Activities	4.0	***	40		4.0	4.070	00 740		4 407	*** 500 040	*45.000.000	**		
Initial Stack Test and Report (for PM)	12	\$8,000	\$0	1	12	1,979	23,748	2,375	1,187	\$2,583,248	\$15,832,000	\$0		d
Initial Performance Test and Report (for CO)	12	\$6,000	\$0	1	12	1,979	23,748	2,375	1,187	\$2,583,248	\$11,874,000	\$0		d
Annual Stack Test and Report (for PM)	12	\$8,000	\$0	1	12	3,958	47,496	4,750	2,375	\$5,166,496	\$0	\$31,664,000		c,d
Annual Performance Test and Report (for CO)	12	\$6,000	\$0	1	12	3,958	47,496	4,750	2,375	\$5,166,496	\$0	\$23,748,000		c,d
Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	\$0	\$0	1	40	989	39,560	3,956	1,978	\$4,303,238	\$0	\$0		С
Opacity														
a) initial	10	\$0	\$43,100	1	10	1,947	19,470	1,947	974	\$2,117,898	\$83,915,700	\$83,915,700		c,f
b) annual	10	\$0	\$14,700	1	10	5.841	58,410	5,841	2,921	\$6,353,694	\$0	\$85,862,700		c,f
CO (only sources greater than 100 mmBtu/hr)	10	Ψ0	Ψ14,700	-	10	3,041	30,410	3,041	2,321	Ψ0,000,004	ΨΟ	Ψ03,002,700		U,1
a) initial	10	\$0	\$160,900	1	10	0	0	0	0	\$0	\$0	\$0		
	10	\$0		1	10	0	_	-	- 1	\$0	\$0 \$0	\$0 \$0		е
b) annual	10	\$0	\$53,600	1	10	0	0	0	0	\$0	\$0	\$0		е
Bag Leak Detection System Operation (all sources that have fabric filters)														
a) initial	10	\$0	\$25,500	1	10	83	830	83	42	\$90,285	\$2,116,500	\$2,116,500		f
b) annual	10	\$0	\$9,700	1	10	249	2,490	249	125	\$270,856	\$0	\$2,415,300		f
D. Gather Information	na													
E. Report Preparation	na													
Initial Notification that Source is Subject	2	\$0	\$0	1	2	989	1,978	198	99	\$215,162	\$0	\$0	989	a, b
2) Notification of Initial Stack Test	8	\$0	\$0	1	8	989	7,912	791	396	\$860,648	\$0	\$0	989	e e
,	- 0	Ψ0	ΨΟ	-	U	303	7,312	731	330	Ψ000,040	ΨΟ	ΨΟ	303	
Report Established Values for Site-specific Operating Parameters (all)	see 3.E.6													
Notification of Initial Compliance Status	40	\$0	\$0	1	40	989	39,560	3,956	1,978	\$4,303,238	\$0	\$0	989	a, b
5) Startup, Shutdown, Malfunction Plan	20	\$0	\$0	1	20	989	19,780	1,978	989	\$2,151,619	\$0	\$0	989	a, d
Semi-Annual Compliance Report	20	\$0	\$0	2	40	2,970	118,800	11,880	5,940	\$12,922,767	\$0	\$0	5,940	
Reporting Subtotal							370,078	37,008	18,504	\$40,256,160	\$27,706,000	\$55,412,000	9,896	g
Recordkeeping Requirements														
A. Read Instructions	see 3.A													
B. Implement Activities	na													
C. Develop Record System	na													
D. Record Information	+													
Records of Operating Parameter Values	20	\$0	\$0	1	20	5.937	118,740	11,874	5,937	\$12.916.240	\$0	\$0	5,937	a
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	1	15	5,937	89,055	8,906	4,453	\$9,687,180	\$0	\$0	5,937	a
3) Records of Stack Tests	2	\$0	\$0	1	2	5,937	11,874	1,187	594	\$1,291,624	\$0	\$0 \$0	5,937	a
		\$0	\$0			5,937			594	\$1,291,624	\$0	\$0	5,937	
Records of Monitoring Device Calibrations	2			1	2		11,874	1,187						e,a
5) Records of All Compliance Reports Submitted	2	\$0	\$0	2	4	2,970	11,880	1,188	594	\$1,292,277	\$0	\$0	5,940	a
Records of Monthly Fuel Use	0.5	\$0	\$0	12	6	5,937	35,622	3,562	1,781	\$3,874,872	\$0	\$0	71,244	d
E. Personnel Training	na													
F. Time for Audits	na													
Recordkeeping Subtotal							399,805	39,981	19,990	\$43,489,788	\$86,032,200	\$174,310,200	100,932	q
Totals	+						769,883	76,988	38,494	\$83,745,948	\$113,738,200	\$229,722,200	110,828	
a The total number of new small solid fuel boilers estimated in							,				. , ,		,	

a The total number of new small solid fuel boilers estimated in the first 3 years of this rule is 5,937. In order to calculate a per year estimate of the number of boilers required to meet these rule requirements, the number of projected boilers is divided by 3, or 1,979 boilers per year. Assuming 2 unit per facility, 990 new facilities will be subject in year 1 and 2 and 989 facilities in year 3.

b A one-time requirement.

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

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

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

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

 $[\]ensuremath{\mathsf{g}}$ The burdens for monitoring are included in the recordkeeping subtotal

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

				1				
	EPA hours	Number of	EPA hours per	Technical	Mangmt	Clerical		Footnotes
	per occurrence	occurrences	occurrence per	hours per	hours per year	hours per vear		ţ
Burden Item	(A)	per year (B)	year (C=AxB)	year (D=C)	(E=Dx0.05)	(F=Dx0.1)	(H) Costs, \$ L	ပြု
1. Read and understand rule requirements	40	60	2,400	2,400	120	240	\$124,379	a
2. Enter and update information into agency recordkeeping								
system	2	92,467	184,933	184,933	9,247	18,493	\$9,584,060	b
3. Required activities								
A. Observe initial stack/performance test	40	917	36,672	36,672	1,834	3,667	\$1,900,508	С
B. Observe repeat performance test	40	458	18,336	18,336	917	1,834	\$950,254	d
C. Review operating parameters	2	7,818	15,636	15,636	782	1,564	\$810,328	е
D. Review continuous parameter monitoring	2	2,260	4,520	4,520	226	452	\$234,247	f
4 Excess Emissions Enforcement Activities and Inspections	24	458	0	0	0	0	\$0	g
5 Notification requirements								
A. Review initial notification that sources are subject to the								
standard	2	92,467	184,933	184,933	9,247	18,493	\$9,584,060	b
B. Review notification of initial performance tests and review								
test plan	20	7,818	156,360	156,360	7,818	15,636	\$8,103,279	е
C. Review notification of compliance status	2	1,130	2,260	2,260	113	226	\$117,123	b
6. Reporting requirements			0	0	0	0	\$0	
A. Review semiannual compliance report	4	2,260	9,040	9,040	452	904	\$468,493	h
B. Review biennial compliance report	4	0	0	0	0	0	\$0	i
C. Review initial report on results of energy audit	2	0	0	0	0	0	\$0	j
7. Travel Expenses for Tests Attended	2 dovo * (\$110	hotal L CEO	ala/inaidantala\ + (שליים איים		_		
	3 days (\$110 trip) = \$1104 p		als/incidentals) + (מווטטו טטספ			\$1,518,221	k
TOTAL BURDEN AND COST (SALARY)				615,090	30,755	61,509	\$33,394,953	
TOTAL ANNUAL HOURS						707,354		

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

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

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

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

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

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

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

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

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

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

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

L These rates are from the Office of Personnel Management (OPM), 2010 General Schedule, which excludes locality rates of pay. The rates have been increased by 60 percent to account for the benefit packages available to government employees. These rates can be obtained from the OPM web site, http://www.opm.gov/oca/payrates/index/htm.

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

Burden Item	EPA hours per occurrence (A)	Number of occurrences per year (B)	EPA hours per occurrence per year (C=AxB)	Technical hours per year (D=C)	Mangmt hours per year (E=Dx0.05)	Clerical hours per year (F=Dx0.1)	(H) Costs, \$ ^L	Footnotes
Read and understand rule requirements	40	0	0	0	0	0	\$0	a
2. Enter and update information into agency recordkeeping	2	2,260	4,520	4,520	226	452	\$234,247	b
3. Required activities								
A. Observe initial stack/performance test	40	2,282	91,296	91,296	4,565	9,130	\$4,731,370	С
B. Observe repeat performance test	40	1,141	45,648	45,648	2,282	4,565	\$2,365,685	d
C. Review operating parameters	2	11,412	22,824	22,824	1,141	2,282	\$1,182,842	е
D. Review continuous parameter monitoring	2	4,519	9,038	9,038	452	904	\$468,390	f
4 Excess Emissions Enforcement Activities and Inspections	24	1,141	0	0	0	0	\$0	g
5 Notification requirements								
A. Review initial notification that sources are subject to the standard	2	2,260	4,520	4,520	226	452	\$234,247	b
B. Review notification of initial performance tests and review test plan	20	11,412	228,240	228,240	11,412	22,824	\$11,828,424	е
C. Review notification of compliance status	2	1,130	2,260	2,260	113	226	\$117,123	b
6. Reporting requirements			0	0	0	0	\$0	
A. Review semiannual compliance report	4	2,260	9,040	9,040	452	904	\$468,493	h
B. Review biennial compliance report	4	0	0	0	0	0	\$0	i
C. Review initial report on results of energy audit	2	0	0	0	0	0	\$0	j
7. Travel Expenses for Tests Attended	3 days * (\$110 trip) = \$1104 p	hotel + \$58 mea er trip			\$3,779,654	k		
TOTAL BURDEN AND COST (SALARY)				417,386	20,869	41,739	\$25,410,475	
TOTAL ANNUAL HOURS						479,994		

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

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

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

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

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

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

A Number of occurrences is the and mail solid and liquid subcategories) as well as existing large solid and liquid units that will begin to submit compliance reports in year 3.

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

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

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

Burden Item	EPA hours per occurrence (A)	Number of occurrences per year (B)	EPA hours per occurrence per year (C=AxB)	Technical hours per year (D=C)	Mangmt hours per year (E=Dx0.05)	Clerical hours per year (F=Dx0.1)	(H) Costs, \$k	Footnotes
Read and understand rule requirements	40	0	0	0	0	0	\$0	a
2. Enter and update information into agency recordkeeping system	2	2,262	4,524	4,524	226	452	\$234,454	b
3. Required activities								
A. Observe initial stack/performance test	40	2,283	91,336	91,336	4,567	9,134	\$4,733,443	С
B. Observe repeat performance test	40	1,142	45,668	45,668	2,283	4,567	\$2,366,721	d
C. Review operating parameters	2	11,417	22,834	22,834	1,142	2,283	\$1,183,361	е
D. Review continuous parameter monitoring	2	10,819	21,638	21,638	1,082	2,164	\$1,121,379	f
4 Excess Emissions Enforcement Activities and Inspections	24	1,142	0	0	0	0	\$0	g
5 Notification requirements								
A. Review initial notification that sources are subject to the standard	2	2,262	4,524	4,524	226	452	\$234,454	b
B. Review notification of initial performance tests and review test plan	20	11,417	228,340	228,340	11,417	22,834	\$11,833,606	е
C. Review notification of compliance status	2	92,468	184,936	184,936	9,247	18,494	\$9,584,216	b
6. Reporting requirements			0	0	0	0	\$0	
A. Review semiannual compliance report	4	3,392	13,568	13,568	678	1,357	\$703,155	h
B. Review biennial compliance report	4	84,702	338,806	338,806	16,940	33,881	\$17,558,452	i
C. Review initial report on results of energy audit	2	6,635	13,270	13,270	664	1,327	\$687,711	j
7. Travel Expenses for Tests Attended	3 days * (\$110 trip) = \$1104		eals/incidentals) +			\$3,781,310	k	
TOTAL BURDEN AND COST (SALARY)				969,444	48,472	96,944	\$54,022,261	
TOTAL ANNUAL HOURS						1,114,861		

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

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

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

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

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

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

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

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

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

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

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

L These rates are from the Office of Personnel Management (OPM), 2010 General Schedule, which excludes locality rates of pay. The rates have been increased by 60 percent to account for the benefit packages available to government employees. These rates can be obtained from the OPM web site, http://www.opm.gov/oca/payrates/index/htm.