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

87.1527979267353

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

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

Table 1.A. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards

for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers - Year 1, Existing Large Solid Fuel Units

· ·	i iluzuluous A	ii i onatants	(INESTIAL) IS	muusmu	, commicicia,	una montan	ionai Doncis	- I cui I, L	LAISTING LU	inge bond i di	ci Oilles			
Burden Item	(A) Respondent Hours per Occurrence (Technical	(B) Certified Energy Audit Cost per Occurrence	(C) Stack Testing and Fuel Analysis Cost Per Occurrence	(D) Other Non-Labor Costs Per Occurrence	(E) Number of Occurrences Per Respondent Per Year	(F) Technical Hours per Respondent Per Year	(G) Number of Respondents	(H) Technical Hours per Year @ \$98.20 (F	(I) Clerical Hours per Year @ \$48.53 (H X 0.1)	(J) Management Hours per Year @ \$114.49 (H	(K) Total Labor	(L) Total Non- Labor Capital Costs Per Year	(M) Total Number of Responses per	Footnotes
	hours)	Occurrence	Occurrence	Occurrence	Per Year	(A X E)	Per Year	X G)	X 0.1)	X .05)	Costs Per Year	[(B+C+D)xExG]	Year (E X G)	1 1
1. Applications	na													
Surveys and Studies	na													+
Reporting Requirements														_
Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	119	4,760	476	238	\$517,781	\$0	0	a
B. Required Activities														+
Conduct Energy Audit														_
a) Commerical	20	\$854	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	b, c,
b) Industrial	20	\$18,292	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	b, c,
Initial Stack Test and Report (for PM)	12	\$0	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	0	c,h
Initial Stack Test and Report (for Hg)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	С
Initial Stack Test and Report (for HCI)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	С
Initial Stack Test and Report (for CO)	12	\$0	\$7,000	\$0	1	12	0	0	0	0	\$0	\$0	0	С
Initial Stack Test and Report (for D/F)	12	\$0	\$16,000	\$0	1	12	0	0	0	0	\$0	\$0	0	С
Annual Stack Test and Report (for PM)	12	\$0	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	0	c,i
Annual Stack Test and Report (for Hg)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	c,i
Annual Stack Test and Report (for HCI)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	c,i
Annual Stack Test and Report (for CO)	12	\$0	\$7,000	\$0	1	12	0	0	0	0	\$0	\$0	0	C,i
 Annual Stack Test and Report (for D/F) 	12	\$0	\$16,000	\$0	1	12	0	0	0	0	\$0	\$0	0	c,i
 Repeat Stack Test and Report if Switch Fuels (for Hg and HCl) 	24	\$0	\$16,000	\$0	1	24	0	0	0	0	\$0	\$0	0	c,j
 Initial Fuel Analysis for Mercury and HCL Content 	5	\$0	\$400	\$0	1	5	0	0	0	0	\$0	\$0	0	c,g
14. Monthly Fuel Analysis for Mercury and HCL Content		\$0	\$400	\$0	12	60	0	0	0	0	\$0	\$0	0	c,g
15. Continuous Parameter Monitoring														T
Establish Site-specific monitoring plan (all)	40	\$0		\$0	1	40	0	0	0	0	\$0	\$0	0	С
Opacity														1
a) initial	10	\$0	\$0	\$43,100	1	10	0	0	0	0	\$0	\$0	0	С
b) annual	10	\$0	\$0	\$14,700	1	10	0	0	0	0	\$0	\$0	0	C
PM (only sources greater than 250 mmBtu/hr)				. ,										_
a) initial	10	\$0	\$0	\$158,000	1	10	0	0	0	0	\$0	\$0	0	С
b) annual	10	\$0	\$0	\$56,100	1	10	0	0	0	0	\$0	\$0	0	c
02				***************************************				-						+
a) initial	10	\$0	\$0	\$8.523	1	10	0	0	0	0	\$0	\$0	0	С
b) annual	10	\$0	\$0	\$1,436	1	10	0	0	0	0	\$0	\$0	0	c
Scrubber System Monitoring and Operation	10	- 00	Ψ0	\$2,100	-	10			- ŭ		- 00	- **		+ -
(for units with wet scrubbers)														
a) initial	10	\$0	\$0	\$24,300	1	10	0	0	0	0	\$0	\$0	0	С
b) annual	10	\$0	\$0	\$5,600	1	10	0	0	0	Ö	\$0	\$0	0	c
Bag Leak Detection System Operation (sources that have fabric filters)				40,000			-						-	Ť
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
Carbon Injection Monitoring System (all sources that use ACI to control Hg)														
a) initial	10	\$0	\$0	\$115,000	1	10	0	0	0	0	\$0	\$0	0	С
b) annual	10	\$0	\$0	\$9,700	1	10	0	0	0	0	\$0	\$0	0	c
C. Create Information	na	T	40	\$5,.55	-	1						-		Ť
D. Gather Information	na							 						+
E. Report Preparation								 						+
Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	119	238	24	12	\$25,889	\$0	119	a
Notification of Compliance Status	8	\$0	\$0	\$0	1	8	0	0	0	0	\$0	\$0	0	C
Initial Report on results of Energy Audit	5	\$0	\$0	\$0	1	5	0	0	0	0	\$0	\$0	0	c
Semi-annual Compliance Report	20	\$0	\$0	\$0	2	40	0	0	0	0	\$0	\$0	0	a
Reporting Subtotal	1 20	- Ju	40	40	-	10		4,998	500	250	\$543,670	\$0	119	+"
Recordkeeping Requirements								-1,000	555	200	40-10,010	1		+
A. Read Instructions	Included in 3a									 				+
B. Implement Activities	na na							 						+
C. Develop Record System	na							 						е
D. Record Information		I						†						Ť
Records of Operating Parameter Values	20	\$0	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	c
Records of Operating Parameter Values Records of Startup, Shutdown, Malfunction	15	\$0	\$0	\$0	1	15	0	0	0	0	\$0	\$0	0	c
Records of Startup, Shutdown, Manufiction Records of Stack Tests	2		\$0								\$0			
		\$0		\$0	1	2	0	0	0	0		\$0	0	C
Records of Monitoring Device Calibrations Records of All Compliance Persons Submitted	2 2	\$0 \$0	\$0 \$0	\$0 \$0	2	2	0	0	0	0	\$0 \$0	\$0 \$0	0	C
5) Records of All Compliance Reports Submitted		\$0	\$0 \$0	\$0	12	6	_	0	_		\$0 \$0	\$0	0	c
				1 260	1 12	l p	0	0	0	0		J \$U		c
6) Records of Monthly Fuel Use	0.5					40	_	_	_	_	20			
E. Personnel Training	40	\$0	\$0	\$0	1	40	0	0	0	0	\$0	\$0	0	+ 1
E. Personnel Training F. Time for Audits					1	40	0						0	f
E. Personnel Training	40				1	40	0	0 0 4.998	0 0 500	0 0 250	\$0 \$0 \$543,670	\$0 \$0 \$0	119	

a Number of respondents based on number of existing large solid fuel boilers which includes biomass and coal units greater than 10 mmBtu/hr (assumption of 8 units per facility).

b Cost includes taking an inventory of facility equipment including age, operating schedules, square feet of the facility and other details necessary for preparing for the audit pre-screening, attending the energy audit, and reviewing audit report from the audit professional. Based on the distribution of facilities with affected boilers or process heaters, 87.4% of facilities are in the industrial sector while the remaining 12.6% of facilities are in the commercial sector.

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

d Cost per occurrence for energy audit professionals including an phone screening to discuss the facility prior to a visit, a 2 to 4 hour site visit, and an additional 2-4 hours to prepare a follow-up report on recommendations and findings. These site visits are assumed to be conducted by certified energy professionals.

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

f For on-going training activities to keep personnel updated in order to implement compliance activities. g Existing large solid units are expected to determine compliance through stack testing and not fuel analysis

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

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

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

Table 1.B. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards

for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers - Year 2, Existing Large Solid Fuel Units

	TIUZUI UUUS 7	All I Ollutuit.	3 (NESTIAL)	or maasur	ui, commicici	ai, and mon	ational boiler	3 - ICUI 2,	Exioting E	arge oona i	uci Oillis					
	(A) Respondent Hours per Occurrence (Technical	(B) Certified Energy Audit Cost per	Cost Per	Costs Per	(E) Number of Occurrences Per Respondent	Hours per Respondent Per Year	(G) Number of Respondents	(H) Technical Hours per Year @ \$98.20 (F X	(I) Clerical Hours per Year @ \$48.53 (H X	(J) Managemen t Hours per Year @ \$114.49 (H	(K) Total Labor	(L) Total Non- Labor Capital Costs Per Year	(M) Total Number of Responses per	듐	Capital/start-up (M	
Burden Item	hours)	Occurrence	Occurrence	Occurrence	Per Year	(A X E)	Per Year	G) `	0.1)	X .05)	Costs Per Year	[(B+C+D)xExG]	Year (E X G)	Ē	O&M Pu	urchase)
Applications	na														ı	
2. Surveys and Studies	na														I	
3. Reporting Requirements	40	\$0	\$0	\$0	1	40	0	0	0	0	\$0	en.	0		ı	
Read and Understand Rule Requirements Required Activities	40	\$0	\$0	\$0	1	40	U	0	U	0	\$0	\$0	0	a	ı	
Conduct Energy Audit															i	
a) Commerical	20	\$854	\$0	\$0	1	20	7	140	14	7	\$15,229	\$5,978	0	b. c. d	I	
b) Industrial	20	\$18,292	\$0	\$0	1	20	52	1.040	104	52	\$113.129	\$951,184	0	b, c, d	I	
Initial Stack Test and Report (for PM)	12	\$0	\$5,000	\$0	1	12	336	4,032	403	202	\$438,591	\$1,680,000	0	c,h	I	
Initial Stack Test and Report (for Hg)	12	\$0	\$8,000	\$0	1	12	499	5,988	599	299	\$651,360	\$3,992,000	0	С	I	
Initial Stack Test and Report (for HCI)	12	\$0	\$8,000	\$0	1	12	499	5,988	599	299	\$651,360	\$3,992,000	0	С	ı	
Initial Stack Test and Report (for CO)	12	\$0	\$7,000	\$0	1	12	499	5,988	599	299	\$651,360	\$3,493,000	0	С	I	
Initial Stack Test and Report (for D/F)	12	\$0	\$16,000	\$0	1	12	499	5,988	599	299	\$651,360	\$7,984,000	0	С	ı	
Annual Stack Test and Report (for PM)	12	\$0	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	0	c,h,i	I	
Annual Stack Test and Report (for Hg)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	C, i	ı	
9. Annual Stack Test and Report (for HCl) 10. Annual Stack Test and Report (for CO)	12 12	\$0 \$0	\$8,000 \$7,000	\$0 \$0	1	12 12	0	0	0	0	\$0 \$0	\$0 \$0	0	C, i	ı	
Annual Stack Test and Report (for D/F)	12	\$0	\$16,000	\$0	1	12	0	0	0	0	\$0	\$0	0	c, i	ı	
	12	Φ0	\$10,000	- \$0	1	12	0	H "	- 0		Φ0	90	0	C, I	I	
 Repeat Stack Test and Report if Switch Fuels (for Hg and HCI) 	24	\$0	\$16,000	\$0	1 1	24	499	11,976	1,198	599	\$1,302,719	\$7,984,000	0	c,j	I	
Initial Fuel Analysis for Mercury and HCL Content	5	\$0	\$400	\$0	1	5	0	0	0	0	\$0	\$0	0	c,g	ı	
14. Monthly Fuel Analysis for Mercury and HCL Content	5	\$0	\$400	\$0	12	60	0	0	0	0	\$0	\$0	ő	c,g	I	
15. Continuous Parameter Monitoring							-	_		-			-	-,5	ı	
Establish Site-specific monitoring plan (all)	40	\$0		\$0	1	40	60	2,400	240	120	\$261,066	\$0	0	С	I	
Opacity															I	
a) initial	10	\$0	\$0	\$43,100	1	10	188	1,880	188	94	\$204,502	\$8,102,800	0	С	I	
b) annual	10	\$0	\$0	\$14,700	1	10	188	1,880	188	94	\$204,502	\$2,763,600	0	С	ı	
PM (only sources greater than 250 mmBtu/hr)															ı	
a) initial	10	\$0	\$0	\$158,000	1	10	163	1,630	163	82	\$177,307	\$25,754,000	0	c,f	ı	
b) annual	10	\$0	\$0	\$56,100	1	10	163	1,630	163	82	\$177,307	\$9,144,300	0	С	I	
02	40	**		40 500		40	400	4.000	400	050	#F 40 000	*4 050 077			I	
a) initial	10 10	\$0 \$0	\$0 \$0	\$8,523	1	10	499 499	4,990 4,990	499 499	250	\$542,800	\$4,252,977	0	С	ı	
b) annual	10	\$0	\$0	\$1,436	1	10	499	4,990	499	250	\$542,800	\$716,564	0	С	ı	
Scrubber System Monitoring and Operation (for units with wet scrubbers)															I	
a) initial	10	\$0	\$0	\$24,300	1	10	167	1.670	167	84	\$181.658	\$4.058.100	0	С	I	
b) annual	10	\$0	\$0	\$5,600	1	10	167	1,670	167	84	\$181,658	\$935,200	0	c	I	
Bag Leak Detection System Operation				,							, ,	,			I	
(sources that have fabric filters)															I	
a) initial	10	\$0	\$0	\$25,500	1	10	52	520	52	26	\$56,564	\$1,326,000	0	С	I	
b) annual	10	\$0	\$0	\$9,700	1	10	52	520	52	26	\$56,564	\$504,400	0	С	ı	
Carbon Injection Monitoring System (all sources that use ACI to control Hg)															l	
a) initial	10	\$0	\$0	\$115,000	1	10	54	540	54	27	\$58,740	\$6,210,000	0	С	1	
b) annual	10	\$0	\$0	\$9,700	1	10	54	540	54	27	\$58,740	\$523,800	0	С	ı	
C. Create Information	na		1												1	
D. Gather Information E. Report Preparation	na	-	1			1		-						-	ı	
1) Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	a	ı	
Notification of Compliance Status	8	\$0	\$0	\$0	1	8	0	0	0	0	\$0	\$0	0	C	ı	
3) Initial Report on results of Energy Audit	5	\$0	\$0	\$0	1	5	0	0	0	0	\$0	\$0	0	c	I	
Semi-annual Compliance Report	20	\$0	\$0	\$0	2	40	0	0	0	0	\$0	\$0	Ö	c	I	
Reporting Subtotal							-	66,000	6,600	3,300	\$7,179,315	\$94,373,903	0	-	\$44,670,026	\$49,703,877
Recordkeeping Requirements										- 7,	. , .,	,,			. ,. ,, . ,	,,.
A. Read Instructions	Included in 3a														I	
B. Implement Activities	na														ı	
C. Develop Record System	na													е	ı	
D. Record Information															ı	
Records of Operating Parameter Values	20	\$0	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	С	1	
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	\$0	1	15	0	0	0	0	\$0	\$0	0	С	ı	
Records of Stack Tests	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	С	ı	
Records of Monitoring Device Calibrations	2	\$0	\$0	\$0	2	2	0	0	0	0	\$0	\$0	0	С	ı	
5) Records of All Compliance Reports Submitted	2	\$0 \$0	\$0 \$0	\$0 \$0	12	4	0	0	0	0	\$0 \$0	\$0 \$0	0	С	ı	
Records of Monthly Fuel Use Personnel Training	0.5 40	\$0 \$0	\$0	\$0	12	6 40	60	2,400	240	120	\$0 \$261,066	\$0 \$0	\$0	c f	ı	
F. Time for Audits	na na	φυ	ψU	φυ	<u> </u>	40	00	2,400	240	120	φευ1,000	ΨU	φυ	-	ı	
Recordkeeping Subtotal	lia .					1		2,400	240	120	\$261,066	\$0	0	_	\$0	
Totals	 		1			 	1	68,400	6.840	3,420	\$7,440,381	\$94,373,903	0		Ψ0	
Totals	1	I	1	1	L	1	1	00,400	0,040	3,420	φ1,44U,30I	φ #4,373,903	U	1	į.	

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.

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.

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

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

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

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

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

	for Hazardous A	air Pollutants	(NESHAP) to	or industria	il, Commercia	u, and institu	itional Bollers	Year 3,	Existing L	arge Solid F	uei Units			
Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Certified Energy Audit Cost per Occurrence	(C) Stack Testing and Fuel Analysis Cost Per Occurrence	(D) Other Non-Labor Costs Per Occurrence	(E) Number of Occurrences Per Respondent Per Year	(F) Technical Hours per Respondent Per Year (A X E)	(G) Number of Respondents Per Year	(H) Technical Hours per Year @ \$98.20 (F X G)	(I) Clerical Hours per Year @ \$48.53 (H X 0.1)	(J) Management Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non- Labor Capital Costs Per Year ((B+C+D)xExG)	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na	Occurrence	Occurrence	Occurrence	rei ieai	(A A E)	rei ieai	_ ^ (5)	A 0.1)	A .00)	CUSIS FEI TEAI	[(B+C+D)XEXG]	(3)	1 11
2. Surveys and Studies	na						 	-						-
3. Reporting Requirements	IIa													-
A. Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	0	0	0	0	\$0	\$0	0	a
B. Required Activities	40	Φ0	Ψυ	Φ0		40				- 0	Φ0	Ψ0	U	a
Required Activities Conduct Energy Audit														+
a) Commerical	20	\$854	\$0	\$0	1	20	8	160	16	8	\$17,404	\$6,832	0	b, c,
b) Industrial	20	\$18,292	\$0	\$0	1	20	52	1,040	104	52	\$113,129	\$951,184	0	b, c, i
Initial Stack Test and Report (for PM)	12	\$0	\$5,000	\$0	1	12	336	4,032	403	202	\$438,591	\$1,680,000	0	c,h
Initial Stack Test and Report (for Hg) Initial Stack Test and Report (for Hg)	12	\$0	\$8,000	\$0	1	12	498	5,976	598	299	\$650,054	\$3,984,000	0	C
Initial Stack Test and Report (for Hg) Initial Stack Test and Report (for HCl)	12	\$0	\$8,000	\$0	1	12	498	5,976	598	299	\$650,054	\$3,984,000	0	c
Initial Stack Test and Report (for CO)	12	\$0	\$7,000	\$0	1	12	498	5,976	598	299	\$650,054	\$3,486,000	0	c
Initial Stack Test and Report (for D/F)	12	\$0	\$16,000	\$0	1	12	498	5,976	598	299	\$650,054	\$7,968,000	0	c
7. Annual Stack Test and Report (for PM)	12	\$0	\$5,000	\$0	1	12	336	4,032	403	202	\$438,591	\$1,680,000	0	c,h,i
Annual Stack Test and Report (for Hg) Annual Stack Test and Report (for Hg)	12	\$0	\$8,000	\$0	1	12	499	5,988	599	299	\$651,360	\$3,992,000	0	C, i
Annual Stack Test and Report (for HCI)	12	\$0	\$8,000	\$0	1	12	499	5,988	599	299	\$651,360	\$3,992,000	0	C, i
Annual Stack Test and Report (for CO)	12	\$0	\$7,000	\$0	1	12	499	5,988	599	299	\$651,360	\$3,493,000	0	C, i
Annual Stack Test and Report (for CO) Annual Stack Test and Report (for D/F)	12	\$0	\$16,000	\$0	1	12	499	5,988	599	299	\$651,360	\$7,984,000	0	C, i
	12	Φυ	Φ10,000	Φυ		12	433	3,500	399	233	\$001,30U	91,304,000	0	L, I
12. Repeat Stack Test and Report if Switch Fuels		**	*** ***		1 .		400	44.050	4 405	500	04 000 400	47.000.000		
(for Hg and HCl) 13. Initial Fuel Analysis for Mercury and HCL Conter	24 nt 5	\$0 \$0	\$16,000 \$400	\$0 \$0	1	24	498	11,952	1,195	598 0	\$1,300,109 \$0	\$7,968,000 \$0	0	c,j
		\$0	\$400	\$0	12	5 60	0	0	0	0	\$0	\$0	0	c,g
 Monthly Fuel Analysis for Mercury and HCL Con Continuous Parameter Monitoring 	tent 5	\$0	\$400	\$0	12	60			0	U	\$0	\$0	U	c,g
Establish Site-specific monitoring plan (all)	40	\$0		\$0		40	59	2,360	236	118	\$256,715	\$0	0	-
	40	\$0		\$0	1	40	59	2,360	236	118	\$256,715	\$0	U	С
Opacity	40	**	**	040 400		40	407	4.070	407		0000 444	40.050.700		-
a) initial	10	\$0	\$0	\$43,100	1	10	187	1,870	187	94	\$203,414	\$8,059,700	0	С
b) annual	10	\$0	\$0	\$14,700	1	10	187	1,870	187	94	\$203,414	\$2,748,900	0	С
PM (only sources greater than 250 mmBtu/hr)													_	.
a) initial	10	\$0	\$0	\$158,000	1	10	162	1,620	162	81	\$176,220	\$25,596,000	0	c,f
b) annual	10	\$0	\$0	\$56,100	1	10	162	1,620	162	81	\$176,220	\$9,088,200	0	С
02						L								_
a) initial	10	\$0	\$0	\$8,523	1	10	498	4,980	498	249	\$541,712	\$4,244,454	0	С
b) annual	10	\$0	\$0	\$1,436	1	10	498	4,980	498	249	\$541,712	\$715,128	0	С
Scrubber System Monitoring and Operation					1		1							
(for units with wet scrubbers)														_
a) initial	10	\$0	\$0	\$24,300	1	10	166	1,660	166	83	\$180,571	\$4,033,800	0	С
b) annual	10	\$0	\$0	\$5,600	1	10	166	1,660	166	83	\$180,571	\$929,600	0	С
Bag Leak Detection System Operation (sources that have fabric filters)														
a) initial	10	\$0	\$0	\$25,500	1	10	52	520	52	26	\$56,564	\$1,326,000	0	С
b) annual	10	\$0	\$0	\$9,700	1	10	52	520	52	26	\$56,564	\$504,400	0	С
Carbon Injection Monitoring System														
(all sources that use ACI to control Hg)					1		1							
a) initial	10	\$0	\$0	\$115,000	1	10	54	540	54	27	\$58,740	\$6,210,000	0	С
b) annual	10	\$0	\$0	\$9,700	1	10	54	540	54	27	\$58,740	\$523,800	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	0	0	0	0	\$0	\$0	0	a
Notification of Compliance Status	8	\$0	\$0	\$0	1	8	119	952	95	48	\$103,556	\$0	119	С
Initial Report on results of Energy Audit	5	\$0	\$0	\$0	1	5	119	595	60	30	\$64,723	\$0	119	С
Semi-annual Compliance Report	20	\$0	\$0	\$0	2	40	119	4,760	476	238	\$517,781	\$0	238	а
Reporting Subtotal								100,119	10,012	5,006	\$10,890,695	\$115,148,998	476	
Recordkeeping Requirements									-,-	-,,	,,	, .,		
A. Read Instructions	Included in 3a													
B. Implement Activities	na			l							İ	1	İ	
C. Develop Record System	na													е
D. Record Information														
Records of Operating Parameter Values	20	\$0	\$0	\$0	1	20	997	19,940	1.994	997	\$2,169,023	\$0	0	С
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	\$0	1	15	997	14,955	1,496	748	\$1,626,768	\$0	0	c
Records of Stack Tests	2	\$0	\$0	\$0	1	2	997	1,994	199	100	\$216,902	\$0	0	c
Records of Stack Tests Records of Monitoring Device Calibrations	2	\$0	\$0	\$0	1	2	997	1,994	199	100	\$216,902	\$0	0	C
Records of Monitoring Device Cambrations Records of All Compliance Reports Submitted	2	\$0	\$0	\$0	2	4	997	3,988	399	199	\$433,805	\$0	0	C
Records of All Compliance Reports Submitted Records of Monthly Fuel Use	0.5	\$0	\$0	\$0	12	6	997	5,982	598	299		\$0	0	C
E. Personnel Training	40	\$0	\$0	\$0	12	40	59		236	299 118	\$650,707 \$256,715	\$0	0	f f
F. Time for Audits		ΦU	ΦU	⊅ ∪		40	29	2,360	230	110	\$200,710	ΦU	U	+ 1
	na			-				51,213	5,121	2,561	\$5,570,822	\$0	0	+
														1
Recordkeeping Subtotal Totals								151,332	15,133	7,567	\$16,461,517	\$115,148,998	476	

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

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 recordscepting 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 recordscepting requirements will not begin until year 3 of this ICR.

d Cost per occurrence for energy audit professionals including an phone screening to discuss the facility prior to a visit, a 2 to 4 hour site visit, and an additional 2-4 hours to prepare a follow-up report on recommendations and findings. These site visits are assumed to be conducted by certified energy professionals.

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

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

g Existing large solid units are expected to determine compliance through stack testing and not fuel analysis
h Only units less than 250 mmBtu/hr are expected to perform stack testing for PM. Units greater than 250 mmBtu/hr will be equipped with a PM CEMS

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

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

Table 2.A. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards

for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers - Year 1, Existing Large Liquid Fuel Units

	tor Hazardous A	ur Pollutants	(NESHAP) IC	or industria	i, Commerciai	and institu	tional Bollers	- Year 1,	Existing L	arge Liquid F	uei Units			
	(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	(E) Number of Occurrences Per Respondent	(F) Technical Hours per Respondent Per Year	(G) Number of Respondents	(H) Technical Hours per Year @ \$98.20 (F	(I) Clerical Hours per Year @ \$48.53 (H	(J) Management Hours per Year @ \$114.49 (H	(K) Total Labor	(L) Total Non- Labor Capital Costs Per Year	(M) Total Number of Responses per	Footnotes
Burden Item	hours)	Occurrence	Occurrence	Occurrence	Per Year	(A X E)	Per Year	X G)	X 0.1)	X .05)	Costs Per Year	[(B+C+D)xExG]	Year (E X G)	ıй
1. Applications	na													-
2. Surveys and Studies	na													-
3. Reporting Requirements	40	\$0	\$0	\$0	1	40	58	2,320	232	116	\$252,364	\$0	58	-
A. Read and Understand Rule Requirements B. Required Activities	40	\$0	Φ0	\$0	1	40	56	2,320	232	110	\$252,304	\$0	36	a
Conduct Energy Audit				-										_
a) Commerical	20	\$854	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	b, c, 0
b) Industrial	20	\$18,292	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	b, c,
Initial Stack Test and Report (for PM)	12	\$0	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	0	c,h
Initial Stack Test and Report (for Hg)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	С
Initial Stack Test and Report (for HCl)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	С
Initial Stack Test and Report (for CO)	12	\$0	\$7,000	\$0	1	12	0	0	0	0	\$0	\$0	0	С
Initial Stack Test and Report (for D/F)	12	\$0	\$16,000	\$0	1	12	0	0	0	0	\$0	\$0	0	С
7. Annual Stack Test and Report (for PM)	12 12	\$0 \$0	\$5,000 \$8,000	\$0 \$0	1	12 12	0	0	0	0	\$0 \$0	\$0	0	c,h,i
Annual Stack Test and Report (for Hg) Annual Stack Test and Report (for HCl)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0 \$0	0	c,i
Annual Stack Test and Report (for HCI) Annual Stack Test and Report (for CO)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0 \$0	\$0	0	c,i
Annual Stack Test and Report (for D/F) 11. Annual Stack Test and Report (for D/F)	12	\$0	\$16,000	\$0	1	12	0	0	0	0	\$0	\$0	0	c,i
Repeat Stack Test and Report (IOI DIP) 12. Repeat Stack Test and Report if Switch Fuels	+	40	\$10,000	Ψ0		14		-	-		40	40		- 0,1
(for Hg and HCI)	24	\$0	\$16,000	\$0	1	24	0	0	0	0	\$0	\$0	0	c,f
Initial Fuel Analysis for Mercury and HCL Content	5	\$0	\$400	\$0	1	5	ő	0	0	0	\$0	\$0	0	c,g
14. Monthly Fuel Analysis for Mercury and HCL Conte		\$0	\$400	\$0	12	60	0	0	0	0	\$0	\$0	0	c,g
15. Continuous Parameter Monitoring														1,0
Establish Site-specific monitoring plan (all)	40	\$0		\$0	1	40	0	0	0	0	\$0	\$0	0	С
Opacity														
a) initial	10	\$0	\$0	\$43,100	1	10	0	0	0	0	\$0	\$0	0	С
b) annual	10	\$0	\$0	\$14,700	1	10	0	0	0	0	\$0	\$0	0	С
PM (only sources greater than 250 mmBtu/hr)														
a) initial	10	\$0	\$0	\$158,000	1	10	0	0	0	0	\$0	\$0	0	С
b) annual	10	\$0	\$0	\$56,100	1	10	0	0	0	0	\$0	\$0	0	С
O2 a) initial	10	\$0	\$0	\$8,523	1	10	0	0	0	0	\$0	\$0	0	С
b) annual	10	\$0	\$0	\$1,436	1	10	0	0	0	0	\$0	\$0	0	C
Scrubber System Monitoring and Operation	10	90	Φ0	\$1,430	1	10	0	-	- 0	-	Φ0	Φ0	- ·	+ -
(for units with wet scrubbers)														
a) initial	10	\$0	\$0	\$24,300	1	10	0	0	0	0	\$0	\$0	0	С
b) annual	10	\$0	\$0	\$5,600	1	10	0	0	0	0	\$0	\$0	0	С
Bag Leak Detection System Operation (sources that have fabric filters)														
a) initial	10	\$0	\$0	\$25,500	1	10	0	0	0	0	\$0	\$0	0	С
b) annual	10	\$0	\$0	\$9,700	1	10	0	0	0	0	\$0	\$0	0	С
Carbon Injection Monitoring System (all sources that use ACI to control Hg)	10		***	2445.000							40	40		ļ.,
a) initial	10 10	\$0 \$0	\$0	\$115,000	1	10 10	0	0	0	0	\$0 \$0	\$0 \$0	0	C
b) annual C. Create Information	na 10	ΦU	\$0	\$9,700	1	10	U	0	0	0	ΦU	⊅ U	U U	С
D. Gather Information	na na	1	1		-			-				-		+
E. Report Preparation	i iu													+
Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	58	116	12	6	\$12,618	\$0	58	a
Notification of Compliance Status	8	\$0	\$0	\$0	1	8	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	c
Semi-annual Compliance Report	20	\$0	\$0	\$0	2	40	0	0	0	0	\$0	\$0	0	а
Reporting Subtotal								2,436	244	122	\$264,982	\$0	58	
Recordkeeping Requirements														
A. Read Instructions	Included in 3a	1												-
B. Implement Activities	na	-			-									1
C. Develop Record System D. Record Information	na	1			1								-	е
		L	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	1
	20	60		1 20	1	20 15	0	0	0	0	\$0	\$0	0	C
Records of Operating Parameter Values	20	\$0 \$0			1									1 6
Records of Operating Parameter Values Records of Startup, Shutdown, Malfunction	15	\$0	\$0	\$0	1									
Records of Operating Parameter Values Records of Startup, Shutdown, Malfunction Records of Stack Tests	15 2	\$0 \$0	\$0 \$0	\$0 \$0	1	2	0	0	0	0	\$0	\$0	0	
Records of Operating Parameter Values Records of Startup, Shutdown, Malfunction Records of Stack Tests Records of Monitoring Device Calibrations	15 2 2	\$0	\$0	\$0	1 1									С
Records of Operating Parameter Values Records of Startup, Shutdown, Malfunction Records of Stack Tests	15 2	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	1	2 2	0	0	0	0	\$0 \$0	\$0 \$0	0	C
1) Records of Operating Parameter Values 2) Records of Startup, Shutdown, Malfunction 3) Records of Stack Tests 4) Records of Monitoring Device Calibrations 5) Records of Monitoring Device Calibrations 5) Records of All Compilance Reports Submitted	15 2 2 2 2	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	1 1 2	2 2 4	0 0 0	0 0	0 0	0 0 0	\$0 \$0 \$0	\$0 \$0 \$0	0 0 0	C
Records of Operating Parameter Values Records of Startup, Shutdown, Maflunction Records of Stack Tests Records of Monitoring Device Calibrations Records of Mol Compliance Reports Submitted Records of MolTby Fuel Use	15 2 2 2 2 0.5	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	1 1 2 12	2 2 4 6	0 0 0 0	0 0 0	0 0 0	0 0 0	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	0 0 0	c c c
Records of Operating Parameter Values Records of Startup, Shutdown, Malfunction Records of Stack Tests Records of Monitoring Device Calibrations Records of Monitoring Device Calibrations Records of Micompliance Reports Submitted Records of Monthly Fuel Use Personnel Training	15 2 2 2 2 0.5 40	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	1 1 2 12	2 2 4 6	0 0 0 0	0 0 0	0 0 0	0 0 0	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	0 0 0	C

a Number of respondents based on number of existing large liquid fuel boilers which includes units greater than 10 mmBtu/hr (assumption of 8 units per facility).

b Cost includes taking an inventory of facility equipment including age, operating schedules, square feet of the facility and other details necessary for preparing for the audit pre-screening, attending the energy audit, and reviewing audit report from the audit professional. Based on the distribution of facilities with affected boilers or process heaters, 87.4% of facilities are in the industrial sector while the remaining 12.6% of facilities are in the commercial sector.

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

d Cost per occurrence for energy audit professionals including an phone screening to discuss the facility prior to a visit, a 2 to 4 hour site visit, and an additional 2-4 hours to prepare a follow-up report on recommendations and findings. These site visits are assumed to be conducted by certified energy professionals.

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

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

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

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

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

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

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

	for Hazardous A	r Pollutants	(NESHAP) to	r industriai	, Commerciai	, and institu	tional Bollers	- Year 2,	Existing L	arge Liquid F	uei Units			
Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Certified Energy Audit Cost per Occurrence	(C) Stack Testing and Fuel Analysis Cost Per Occurrence	(D) Other Non-Labor Costs Per Occurrence	(E) Number of Occurrences Per Respondent Per Year	(F) Technical Hours per Respondent Per Year (A X E)	(G) Number of Respondents Per Year	(H) Technical Hours per Year @ \$98.20 (F X G)	(I) Clerical Hours per Year @ \$48.53 (H X 0.1)	(J) Management Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non- Labor Capital Costs Per Year [(B+C+D)xExG]	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na	Occurrence	Occurrence	Occurrence	1 Ci i Cai	(A A L)	161164	Α 0)	X 0.1)	X .00)	Costs i ei i eta	[(B·C·D)XLXO]	rear (E X O)	
Surveys and Studies	na													+
3. Reporting Requirements	iid.													_
A. Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	0	0	0	0	\$0	\$0	0	a
B. Required Activities		40	40	Ψ0	-		-			-	40	40		۰
Conduct Energy Audit														+
a) Commerical	20	\$854	\$0	\$0	1	20	4	80	8	4	\$8,702	\$3.416	0	b, c, c
b) Industrial	20	\$18,292	\$0	\$0	1	20	25	500	50	25	\$54,389	\$457,300	0	b, c, c
Initial Stack Test and Report (for PM)	12	\$0	\$5,000	\$0	1	12	253	3,036	304	152	\$330,248	\$1,265,000	0	c,h
Initial Stack Test and Report (for Hg)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	C
Initial Stack Test and Report (for HCl) 4. Initial Stack Test and Report (for HCl)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	c
Initial Stack Test and Report (for CO) Initial Stack Test and Report (for CO)	12	\$0	\$7,000	\$0	1	12	253	3,036	304	152	\$330,248	\$1,771,000	0	C,i
Initial Stack Test and Report (for D/F) Initial Stack Test and Report (for D/F)	12	\$0	\$16,000	\$0	1	12	253	3,036	304	152	\$330,248	\$4,048,000	0	C
7. Annual Stack Test and Report (for PM)	12	\$0	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	0	c,h,j
Annual Stack Test and Report (for Hg) Annual Stack Test and Report (for Hg)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	C,ii,j
Annual Stack Test and Report (for HCl)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	
Annual Stack Test and Report (for HCI) Annual Stack Test and Report (for CO)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0 \$0	\$0 \$0	0	c,j
Annual Stack Test and Report (for CO) Annual Stack Test and Report (for D/F)	12	\$0	\$16,000	\$0	1	12	0	0	0	0	\$0	\$0	0	c,j
	12	ΦU	\$10,000	ΦU	1	12	U	U	U	U	ΦU	ΦU	_ ·	c,j
 Repeat Stack Test and Report if Switch Fuels (for Hg and HCl) 	24	\$0	\$16,000	\$0	1	24	0	0	0	0	\$0	\$0	0	c,f
 Initial Fuel Analysis for Mercury and HCL Conter 	nt 5	\$0	\$400	\$0	1	5	253	1,265	127	63	\$137,604	\$101,200	0	c,g
14. Monthly Fuel Analysis for Mercury and HCL Con	tent 5	\$0	\$400	\$0	12	60	0	0	0	0	\$0	\$0	0	c,g
15. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	\$0		\$0	1	40	29	1,160	116	58	\$126,182	\$0	0	С
Opacity								, , , ,						$\overline{}$
a) initial	10	\$0	\$0	\$43,100	1	10	18	180	18	9	\$19.580	\$775,800	0	С
b) annual	10	\$0	\$0	\$14,700	1	10	18	180	18	9	\$19,580	\$264,600	0	С
PM (only sources greater than 250 mmBtu/hr)				42.,						-	420,000	420.,000		Ť
a) initial	10	\$0	\$0	\$158,000	1	10	29	290	29	15	\$31,545	\$4,582,000	0	С
b) annual	10	\$0	\$0	\$56,100	1	10	29	290	29	15	\$31,545	\$1,626,900	0	c
02				400,200							402,0.0		_	Ť
a) initial	10	\$0	\$0	\$8,523	1	10	253	2,530	253	127	\$275,207	\$2,156,319	0	С
b) annual	10	\$0	\$0	\$1,436	1	10	253	2,530	253	127	\$275,207	\$363,308	ō	c
Scrubber System Monitoring and Operation				. ,				,			, .			t i
(for units with wet scrubbers)													1	
a) initial	10	\$0	\$0	\$24,300	1	10	220	2,200	220	110	\$239,311	\$5,346,000	0	С
b) annual	10	\$0	\$0	\$5,600	1	10	220	2,200	220	110	\$239,311	\$1,232,000	0	C
Bag Leak Detection System Operation		40	- 40	40,000	-	- 10	220	2,200	LLO	110	\$200,011	\$1,202,000		
(sources that have fabric filters)	40	**	**	405 500		4.0	04.0	0.400	040	440	8000 000	AF F04 F00	_	-
a) initial	10	\$0	\$0	\$25,500	1	10	219	2,190	219	110	\$238,223	\$5,584,500	0	С
b) annual	10	\$0	\$0	\$9,700	1	10	219	2,190	219	110	\$238,223	\$2,124,300	0	С
Carbon Injection Monitoring System (all sources that use ACI to control Hg)													1	
a) initial	10	\$0	\$0	\$115,000	1	10	0	0	0	0	\$0	\$0	0	C,i
b) annual	10	\$0	\$0	\$9.700	1	10	0	0	0	0	\$0	\$0	0	C
C. Create Information	na	40	40	ψ0,100	-	- 10				- ŭ	Ψ0	40		Ť
D. Gather Information	na	†		t										-
E. Report Preparation				<u> </u>										+
Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	а
Notification of Compliance Status	8	\$0	\$0	\$0	1	8	0	0	0	Ö	\$0	\$0	Ö	C
3) Initial Report on results of Energy Audit	5	\$0	\$0	\$0	1	5	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	C
Reporting Subtotal			**				-	26,893	2.689	1.345	\$2,925,353	\$31,701,643	0	Ť
Recordkeeping Requirements				†				20,000	2,000	2,0-10	22,020,000	-52,102,040		+
A. Read Instructions	Included in 3a	 		t										+
B. Implement Activities	na na			t		1								+
C. Develop Record System	na			†										е
D. Record Information	TIG.	 		 		1			-					+ -
Record information Records of Operating Parameter Values	20	\$0	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	С
Records of Operating Parameter Values Records of Startup, Shutdown, Malfunction	15	\$0	\$0	\$0	1	15	0	0	0	0	\$0	\$0	0	C
Records of Startup, Shutdown, Wallunction Records of Stack Tests	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	
	2 2	\$0	\$0 \$0	\$0	1	2					\$0 \$0	\$0 \$0		С
				\$0 \$0	2	2	0	0	0	0	\$0 \$0	\$0 \$0	0	С
Records of Monitoring Device Calibrations Records of All Compliance Reports Submitted		¢0					U	U	U	U	ΦU		, ,	С
5) Records of All Compliance Reports Submitted	2	\$0	\$0		10		0	Δ.	_	_	¢ο	40	_	
Records of All Compliance Reports Submitted Records of Monthly Fuel Use	2 0.5	\$0	\$0	\$0	12	6	0	0	0	0	\$0	\$0	0	С
5) Records of All Compliance Reports Submitted 6) Records of Monthly Fuel Use E. Personnel Training	2 0.5 40				12	6 40	0 29	0 1,160	0 116	0 58	\$0 \$126,182	\$0 \$0	0	c k
S) Records of All Compliance Reports Submitted Records of Monthly Fuel Use Personnel Training Time for Audits	2 0.5	\$0	\$0	\$0				1,160	116	58	\$126,182	\$0	0	
5) Records of All Compliance Reports Submitted 6) Records of Monthly Fuel Use E. Personnel Training	2 0.5 40	\$0	\$0	\$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.

f Only applies to large solid fuel boilers, because solid fuel boilers may fire a mix of non-homogeneous fuels. Assumed zero respondents for liquid and gas units. g Existing large liquid units are expected to determine compliance for Hq and HCl through fuel analysis not stack testing.

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

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

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

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

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

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

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 Euel Units

for	Hazardous Ai	ir Pollutants	(NESHAP) fo	or Industrial	, Commercial	, and Institu	tional Boilers	- Year 3,	Existing L	arge Liquid F	uel Units			
Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Certified Energy Audit Cost per Occurrence	(C) Stack Testing and Fuel Analysis Cost Per Occurrence	(D) Other Non-Labor Costs Per Occurrence	(E) Number of Occurrences Per Respondent Per Year	(F) Technical Hours per Respondent Per Year (A X E)	(G) Number of Respondents Per Year	(H) Technical Hours per Year @ \$98.20 (F X G)	(I) Clerical Hours per Year @ \$48.53 (H X 0.1)	(J) Management Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non- Labor Capital Costs Per Year [(B+C+D)xExG]	(M) Total Number of Responses per Year (E X G)	Tools of the second
L. Applications	na													+
2. Surveys and Studies	na													+
Reporting Requirements	40	40	40		1	40	0	0	0	0	\$0	\$0	0	+
Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	U	0	U	0	\$0	\$0	0	a
B. Required Activities														+
Conduct Energy Audit	20	\$854	\$0	\$0		20	4	80		4	\$8,702	\$3.416	0	
a) Commerical					1				8					b, c
b) Industrial Initial Stack Test and Report (for PM)	20 12	\$18,292 \$0	\$0 \$5,000	\$0 \$0	1	20 12	25 253	500 3,036	50 304	25 152	\$54,389 \$330,248	\$457,300 \$1,265,000	0	b, c
Initial Stack Test and Report (for Hg) Initial Stack Test and Report (for Hg)	12	\$0	\$8,000	\$0	1	12	0	3,036	0	0	\$330,248	\$1,265,000	0	C,
Initial Stack Test and Report (for HCI) Initial Stack Test and Report (for HCI)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	-
Initial Stack Test and Report (for PCI) Initial Stack Test and Report (for CO)	12	\$0	\$7,000	\$0	1	12	253	3.036	304	152	\$330.248	\$1.771.000	0	-
Initial Stack Test and Report (for Co) Initial Stack Test and Report (for D/F)	12	\$0	\$16,000	\$0	1	12	253	3,036	304	152	\$330,248	\$4,048,000	0	+
Annual Stack Test and Report (for PM)	12	\$0	\$5,000	\$0	1	12	253	3,036	304	152	\$330,248	\$1,265,000	0	c,i
Annual Stack Test and Report (for Hg) Annual Stack Test and Report (for Hg)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	
Annual Stack Test and Report (for HCI) Annual Stack Test and Report (for HCI)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	C
Annual Stack Test and Report (for CO)	12	\$0	\$7,000	\$0	1	12	253	3,036	304	152	\$330,248	\$1,771,000	0	1
Annual Stack Test and Report (for CO) Annual Stack Test and Report (for D/F)	12	\$0	\$16,000	\$0	1	12	253	3,036	304	152	\$330,248	\$4,048,000	0	-
	14	40	910,000	Ψ0	-	14	255	3,030	304	102	Ψ030,240	\$4,040,000	_ <u> </u>	+
 Repeat Stack Test and Report if Switch Fuels (for Hg and HCl) 	24	\$0	\$16,000	\$0	1	24	0	0	0	0	\$0	\$0	0	c
Initial Fuel Analysis for Mercury and HCL Content	5	\$0	\$400	\$0	1	5	253	1.265	127	63	\$137.604	\$101.200	0	c
Monthly Fuel Analysis for Mercury and HCL Content		\$0	\$400	\$0	12	60	506	30.360	3.036	1.518	\$3,302,485	\$2,428,800	0	c,
15. Continuous Parameter Monitoring	,	40	\$400	Ψυ	12	- 00	300	30,300	3,030	1,510	\$5,50Z,405	\$2,420,000	_ <u> </u>	۰
Establish Site-specific monitoring plan (all)	40	\$0		\$0	1	40	29	1,160	116	58	\$126,182	\$0	0	+
Opacity Opacity	40	Ψ0		ΨΟ	-	40	23	1,100	110	30	Ψ120,102	ΨΟ	_	+
a) initial	10	\$0	\$0	\$43,100	1	10	18	180	18	q	\$19.580	\$775,800	0	
b) annual	10	\$0	\$0	\$14,700	1	10	18	180	18	9	\$19,580	\$264,600	0	+
PM (only sources greater than 250 mmBtu/hr)		40	40	Ψ±-1,100	<u> </u>		20	200		,	\$25,500	Q25-1,000		+
a) initial	10	\$0	\$0	\$158,000	1	10	29	290	29	15	\$31,545	\$4,582,000	0	-
b) annual	10	\$0	\$0	\$56,100	1	10	29	290	29	15	\$31,545	\$1,626,900	0	+
O2			40	\$55,255		1		200			401,040	32,020,000		т,
a) initial	10	\$0	\$0	\$8,523	1	10	253	2,530	253	127	\$275,207	\$2,156,319	0	+
b) annual	10	\$0	\$0	\$1,436	1	10	253	2,530	253	127	\$275,207	\$363,308	Ö	
Scrubber System Monitoring and Operation		1	l	. ,	<u> </u>	<u> </u>		,,,		l	,	,	1	T
(for units with wet scrubbers)								1						
a) initial	10	\$0	\$0	\$24,300	1	10	220	2,200	220	110	\$239,311	\$5,346,000	0	+
b) annual	10	\$0	\$0	\$5,600	1	10	220	2,200	220	110	\$239,311	\$1,232,000	0	$^{+}$
Bag Leak Detection System Operation (sources that have fabric filters)												. , . ,		
a) initial	10	\$0	\$0	\$25,500	1	10	219	2,190	219	110	\$238,223	\$5,584,500	0	
b) annual	10	\$0	\$0	\$9,700	1	10	219	2,190	219	110	\$238,223	\$2,124,300	0	\top
Carbon Injection Monitoring System (all sources that use ACI to control Hg)														
a) initial	10	\$0	\$0	\$115,000	1	10	0	0	0	0	\$0	\$0	0	- 0
b) annual	10	\$0	\$0	\$9,700	1	10	0	0	0	0	\$0	\$0	0	\perp
C. Create Information	na													Γ
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	
Notification of Compliance Status	8	\$0	\$0	\$0	1	8	58	464	46	23	\$50,473	\$0	58	\perp
Initial Report on results of Energy Audit	5	\$0	\$0	\$0	1	5	58	290	29	15	\$31,545	\$0	58	+
Semi-annual Compliance Report	20	\$0	\$0	\$0	2	40	58	2,320	232	116	\$252,364	\$0	116	\perp
Reporting Subtotal								69,435	6,944	3,472	\$7,552,966	\$41,214,443	232	\perp
. Recordkeeping Requirements	to the death of the			1										\perp
A. Read Instructions	Included in 3a			1										+
B. Implement Activities	na													+
C. Develop Record System	na			ļ										\perp
D. Record Information				L										+
Records of Operating Parameter Values	20	\$0	\$0	\$0	1	20	506	10,120	1,012	506	\$1,100,828	\$0	0	_
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	\$0	1	15	506	7,590	759	380	\$825,621	\$0	0	\perp
Records of Stack Tests	2	\$0	\$0	\$0	1	2	506	1,012	101	51	\$110,083	\$0	0	+
Records of Monitoring Device Calibrations	2	\$0	\$0	\$0	1	2	506	1,012	101	51	\$110,083	\$0	0	4
Records of All Compliance Reports Submitted	2	\$0	\$0	\$0	2	4	506	2,024	202	101	\$220,166	\$0	0	T
		\$0	\$0	\$0	12	6	506	3,036	304	152	\$330,248	\$0	0	\perp
Records of Monthly Fuel Use	0.5												0	T
E. Personnel Training	40	\$0	\$0	\$0	1	40	29	1,160	116	58	\$126,182	\$0	U	_
E. Personnel Training F. Time for Audits				\$0	1	40	29							\pm
E. Personnel Training	40			\$0	1	40	29	1,160 25,954	2,595	1,298	\$2,823,211	\$0	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.

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

d Cost per occurrence for energy audit professionals including an phone screening to discuss the facility prior to a visit, a 2 to 4 hour site visit, and an additional 2-4 hours to prepare a follow-up report on recommendations and findings. These site visits are assumed to be conducted by certified energy professionals.

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

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

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

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

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

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

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

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

		n mazaraous	in i onatant	5 (T maasan	,	.,	dona Bonoro			arge Ous rue				_
Comparison	Rurden litem	Respondent Hours per Occurrence (Technical	Energy Audit Cost per	Testing and Fuel Analysis Cost Per	Non-Labor Costs Per	Occurrences Per Respondent	Hours per Respondent Per Year	Respondents	Technical Hours per Year @ \$98.20 (F	Člerical Hours per Year @ \$48.53 (H	Management Hours per Year @ \$114.49 (H	(K) Total Labor	Labor Capital Costs Per Year	Number of Responses per	ootnotes
Serverge and Sudder			Occurrence	Occurrence	Occurrence	r er rear	(A A L)	r er rea	Α 0)	X 0.1)	A .00)	Costs i et i etti	[(B·C·D)XLXO]	rear (L X O)	+
3 Reporting Requestrements 0 0 0 0 0 0 0 0 0															-
A Pead of Understand Number Sequences		na													+
Repeate Activates		40	**				40	500	04.400	0.440	1.050	40 004 700	**		+
1. Contact Except Audit		40	\$0	\$0	\$0	1	40	529	21,160	2,116	1,058	\$2,301,732	\$0	0	a
a Commercial 20 151.5 5															
B) Inclusional Company															
2. Prints Stack Test and Report for (PR) 3. Transis Stack Test and Report for (PR) 4. Transis Stack Test and Report for (PR) 5. Intide Stack Test and Report for (PR) 5. Intide Stack Test and Report for (PR) 5. Intide Stack Test and Report for (PR) 5. Intid Report for (PR) 5.	a) Commerical		\$854		\$0	1		0	0	0	0	\$0	\$0	0	b, c, d
2. Print Stack Test and Registr (br PR) 2. The stack Test and Registr (br PR) 3. The stack Test and Registr	b) Industrial	20	\$18,292	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	b, c, d
3. Piesel Souch Test and Region for Neigh 12 90 88,000 90 1 122 0 0 0 0 0 0 80 80 80 0 0 Cult. 4. Nation State Test and Region for Neigh 12 90 88,000 80 1 122 0 0 0 0 0 0 80 80 80 0 0 Cult. 5. Control State I and Region for Neigh 12 90 88,000 80 1 122 0 0 0 0 0 0 80 80 80 0 0 Cult. 6. In land State Test and Region for Neigh 12 90 88,000 80 1 122 0 0 0 0 0 0 80 80 80 0 0 Cult. 7. Avanual State Test and Region for Neigh 12 90 88,000 80 1 122 0 0 0 0 0 0 80 80 80 0 0 Cult. 8. Francis State Test and Region for Neigh 12 90 88,000 80 1 122 0 0 0 0 0 0 80 80 80 0 0 Cult. 9. Francis State Test and Region for Neigh 12 90 88,000 80 1 1 122 0 0 0 0 0 0 80 80 80 0 0 Cult. 9. Francis State Test and Region for Neigh 12 90 88,000 80 1 1 122 0 0 0 0 0 0 80 80 80 0 0 Cult. 9. Francis State Test and Region for Neigh 12 90 88,000 80 1 1 122 0 0 0 0 0 0 80 80 80 0 0 Cult. 9. Francis State Test and Region for Neigh 12 90 88,000 80 1 1 122 0 0 0 0 0 0 80 80 80 0 0 Cult. 9. Francis State Test and Region for Neigh 12 90 88,000 80 1 1 122 0 0 0 0 0 0 80 80 80 0 0 Cult. 9. Francis State Test and Region for Neigh 12 90 88,000 80 1 1 122 0 0 0 0 0 0 0 80 80 80 0 0 Cult. 9. Francis State Test and Region for Neigh 12 90 88,000 80 1 1 122 0 0 0 0 0 0 0 0 80 80 80 0 0 Cult. 9. Francis State Test and Region for Neigh 12 90 88,000 80 1 1 122 0 0 0 0 0 0 0 0 80 80 80 0 0 Cult. 9. Francis State Test and Region for Neigh 12 90 88,000 80 1 1 122 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Initial Stack Test and Report (for PM)	12	\$0	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	0	
4 mind Stack Tear and Report (or IXC) 1															
C. Print Stack Test and Princy of CVD 12 50 57,000 80 1 12 12 0 0 0 0 50 50 40 0 0 0 0 18 0 0 0 0 0 0 18 0 0 0 0 0 0 0 0 0															
C. Final State Tell and Florent for DEF 12 90 116,000 80 1 122 0 0 0 0 80 80 0 0 0 0 0 0 0 0 0 0 0 0															
7. Ameria Stack Test and Report for Fully 12		12													C,J,K
B. Armal Stack Test and Report (Princip) 1. Armal Stack Test and Report (Princip) 1. Armal Stack Test and Report (Princip) 1. South Stack Test and Report (Princip) 1. South Stack Test and Report (Princip) 1. Armal Stack Test and Report (Princip) 1. South Stack Test and Report						1									C,J,K
19. Amenal Stack: Test and Report (9 HeV) 12				\$5,000		1									c,j,k
13.0 Armus Stack Test and Report (or Co) 12 20 0 0 0 0 50 50 0 Cpk			\$0	\$8,000	\$0							\$0			c,j,k
11. Annual Stock Test and Report (PC DFF) 12 80 \$15,0500 50 1 12 0 0 0 0 50 50 0 0 Cpt															
12. Repeat Stack Test and Report of Switch Fusion Very lay mark Color for Fusion Very lay mar															
12 Repeat State Test and Report of Switch Fuels 24 82 \$14,000 50 1 24 0 0 0 0 80 50 0 0 0	 Annual Stack Test and Report (for D/F) 	12	\$0	\$16,000	\$0	1	12	0	0	0	0	\$0	\$0	0	c,j,k
Certify and HCD Certify and															
13. Intel® Free Analysis for Memory and HCL Connete 5		24	\$0	\$16,000	\$0	1 1	24	0	0	l 0	0	\$0	\$0	0	c.f
14. Monthly Fuel Analysis for Mercury and HCC Content 5						_									
15. Commons Parameter Montering 40 50 50 50 50 1 40 0 0 0 50 50 50 0 c Commons plan (all) 40 50 50 50 50 50 50 50															
Establish Site specific monitoring plan (all) 40 50 50 50 50 50 50 50 50 50 50 50 50 50		3	Φυ	Φ400	Φυ	14	00	U	-	U	U	Φυ	Φυ	U	L,y
Opening	15. Continuous Parameter Monitoring								-	-	_				+
		40	\$0		\$0	1	40	0	0	0	0	\$0	\$0	0	С
10 annual 10 10 10 10 10 10 10 1															
PM (only sources greater than 250 mmRbuth)	a) initial					1									
a) initial 10 50 30 51558,000 1 10 0 0 0 50 50 50	b) annual	10	\$0	\$0	\$14,700	1	10	0	0	0	0	\$0	\$0	0	c,h
Diaminal 10 S0 S0 S85,100 1 10 0 0 0 0 S0 S0	PM (only sources greater than 250 mmBtu/hr)														
D) annual 10 S0 S6 S85,100 1 10 0 0 0 0 S0 S0	a) initial	10	\$0	\$0	\$158,000	1	10	0	0	0	0	\$0	\$0	0	c,h
O2						1		0	0	0					c.h
a) mind					****						-		**	-	
Description Description		10	40	en	¢0 E22	1	10	0	0	0	0	en.	60	0	-
Scrubber System Montoring and Operation (for units with west scrubbers) 10 90 \$50 \$24,300 1 10 0 0 0 0 \$50 \$50 \$0 0 0 0 0 0 0 0 0															
(for units with wet scrubbers)		10	\$U	\$U	\$1,430	1	10	U	U	U	U	ΦU	\$U	U	L.
a) initial	Scrubber System Monitoring and Operation														
Diannual															
Bag Leak Detection System Operation (Sources that have failters) Secretarian (Sources that that the have failters) Secretarian (Sources that the have failters) Secretarian (Sources that the have failters) Secretarian (Sources that the have failters) Secretarian (Sources that the have failters) Secretarian (Sources that the have failters) Secretarian (Sources that the have failters) Secretarian (Sources that the have failters) Secre			\$0								0	\$0	\$0		C
Gources that have fabric filters)	b) annual	10	\$0	\$0	\$5,600	1	10	0	0	0	0	\$0	\$0	0	С
Gources that have fabric filters)	Bag Leak Detection System Operation														
Diamust 10 S0 S0 S25,500 1 10 0 0 0 0 0 S0 S	(sources that have fabric filters)														
Diamust 10 50 50 50 50 50 50 50	a) initial	10	\$0	\$0	\$25,500	1	10	0	0	0	0	\$0	\$0	0	C
16. Annual Tune-up						1		0	0	0	0	\$0		0	
17. Mercury and H2SF year Spec Analysis 10 \$0 \$600 \$50 \$12 \$120 \$0 \$0 \$0 \$0 \$0 \$0 \$0															
C. Create Information															
D. Gather Information	17. Welculy and H23 Fuel Spec Alialysis		ΦU	\$000	Φ0	12	120	- 0	U	0	0	ΨU	Φ0	U	U,I
E. Report Preparation 1) Initial Notification that Source is Subject 2															+
1) Initial Notification that Source is Subject 2 50 50 50 1 2 529 1,058 106 53 \$115,087 \$50 529 a 2 2) Notification of Compliance Status 8 \$50 \$50 \$50 \$1 5 0 0 0 0 0 50 \$50 \$50 0 0 c 3 104 1		na							—						+
2) Notification of Compliance Status 8															
3) Initial Report on results of Energy Audit 5 \$0 \$0 \$0 \$1 5 0 0 0 0 \$0 \$50 \$0 0 0 C.L. 4) Annual Compliance Report 20 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0						1		529	1,058	106				529	
3) Initial Report on results of Energy Audit 5 \$ \$0 \$0 \$0 \$1 5 0 0 0 0 0 \$50 \$0 0 0 C.L. 4) Annual Compliance Report 20 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0						1									С
4) Annual Compliance Report 20 \$0 \$0 \$0 \$1 20 0 0 0 0 \$0 \$50 \$0 0 c.l. 5) Semi-annual Compliance Report 20 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0			\$0	\$0	\$0	1	5	0	0	0	0	\$0	\$0	0	
Semi-annual Compliance Report 20 \$0 \$0 \$0 \$2 40 0 0 0 0 \$0 \$0 \$0 \$		20	\$0	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	
6) Notification of Alternative Fuel Use 5 \$0 \$0 \$0 \$1 5 0 0 0 0 \$50 \$0 0 0 c.m. Reporting Stothotal 2, 22218 2,222 1,111 \$2,416,818 \$0 529 4. Recordkeeping Requirements 4. Read instructions Included in 3a		20	\$0	\$0	\$0	2	40	0	0	0	0	\$0	\$0	0	
Reporting Subtotal															
A. Read ristructions Included in 3a			40		- 40										+ 5,
A. Read instructions Included in 3a									22,210	2,222	1,111	\$2,410,010	Ψυ	323	+
B. Implement Activities		to alcohold in C							-						+
C. Develop Record System									-						+
D. Record Information															+
1) Records of Operating Parameter Values 20 \$0 \$0 \$0 \$1 20 0 0 0 0 \$0 \$0 \$0 \$	C. Develop Record System	na													e
2) Records of Startup, Shutdown, Malfuncion 15 80 80 90 1 15 0 0 0 0 80 80 0 0 c 3															
2) Records of Startup, Shutdown, Malfunction 15 \$0 \$0 \$0 \$1 15 0 0 0 0 50 \$0 \$0 0 0 0 0 0 0 0 0 0 0 0	Records of Operating Parameter Values	20	\$0	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	С
3) Records of Stack Tests 2 50 50 50 1 2 0 0 0 50 50 50 0 0 0		15	\$0	\$0	\$0	1	15	0	0	0	0	\$0	\$0	0	
A) Records of Monitoring Device Calibrations 2 50 50 50 1 2 0 0 0 0 50 50 0 0 c, L															
5 Records of All Annual Compliance Reports Submitted 2 \$0 \$0 \$1 2 0 0 0 0 \$50 \$50 0 0 c, L															
6) Records of All Semi-Annual Compliance Reports 2 \$0 \$0 \$0 \$0 \$0 \$0 \$0						-									
Submitted 2 \$0 \$0 \$0 2 4 0 0 0 0 \$0 \$0 \$0 \$0			ΦU	ΦU	⊅ U	1		U	U	U	U	⊅U	ΦU	U	C, L
7. Records of Monthly Fuel Use 0.5 \$0 \$0 \$0 \$12 6 0 0 0 0 50 \$50 \$0 0 C.g 8. Records of Annual Tune-up 0.25 \$0 \$0 \$0 \$0 \$1 0.25 0 0 0 0 50 \$0 \$0 0 0 0 0 0 0 0 0 0 0 0	Records of All Semi-Annual Compliance Reports			۱					I .	.		1			Ι.
8) Records of Annual Tune-up 0.25 \$0 \$0 \$0 \$1 0.25 0 0 0 0 \$0 \$0 \$0 0 0 \$0 \$0 \$0 \$0 \$0 \$0							-		_	-					
E. Personnel Training 40 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0															
F. Time for Audits na															
Recordkeeping Subtotal 0 0 0 \$0 \$0 0	E. Personnel Training	40	\$0	\$0	\$0	1	40	0	0	0	0	\$0	\$0	0	n
Recordkeeping Subtotal 0 0 0 \$0 \$0 0	F Time for Audits	na													T
Totals 22,218 2,222 1,111 \$2,416,818 \$0 529		TICL							-	-				_	+-
	Recorukeeping Subtotal								0	υ		\$ 0	\$0	-	
	Totals								22,218	2,222	1,111	\$2,416,818	\$0	529	1
						-									

a Number of respondents based on number of existing large gas fuel boilers which includes natural, petroleum, and other gas fuel units greater than 10 mmBtu/hr (assumption of 8 units per facility).

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

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

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

d Cost per occurrence for energy audit professionals including an phone screening to discuss the facility prior to a visit, a 2 to 4 hour site visit, and an additional 2-4 hours to prepare a follow-up report on recommendations and findings. These site visits are assumed to be conducted by certified

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

f Only applies to large solid fuel boilers, because solid fuel boilers may fire a mix of non-homogeneous fuels. Assumed zero respondents for liquid and gas units. g Existing large gas 2 units are expected to determine compliance through stack testing not fuel analysis

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

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

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

k The recordkeeping and reporting requirements for natural gas fired units is to conduct an annual tune-up and document that the tune-up was completed. The documentation does not need to be submitted as a report unless requested by the Administrator. L Only facilities with process gas (gas 2 units) subject to numerical emission limits are expected to be required to submit semi-annual compliance reports. Natural gas and refinery gas units are required to submit reports annually.

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

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

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

	TOT Hazardous A	ur Ponutants	(NESHAP) I	or industria	i, Commerciai	, and institu	lional bollers	- rear z,	Existing L	arge Gas Fu	ei Onits			_
Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Certified Energy Audit Cost per Occurrence	(C) Stack Testing and Fuel Analysis Cost Per Occurrence	(D) Other Non-Labor Costs Per Occurrence	(E) Number of Occurrences Per Respondent Per Year	(F) Technical Hours per Respondent Per Year (A X E)	(G) Number of Respondents Per Year	(H) Technical Hours per Year @ \$98.20 (F X G)	(I) Clerical Hours per Year @ \$48.53 (H X 0.1)	(J) Management Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non- Labor Capital Costs Per Year [(B+C+D)xExG]	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na					(,		,	,			[()		-
Surveys and Studies	na													-
	IIα													_
Reporting Requirements														_
Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	0	0	0	0	\$0	\$0	0	a
B. Required Activities													1	
Conduct Energy Audit														
a) Commerical	20	\$854	\$0	\$0	1	20	33	660	66	33	\$71,793	\$28,182	0	b, c, d
b) Industrial	20	\$18,292	\$0	\$0	1	20	231	4,620	462	231	\$502,552	\$4,225,452	0	b, c, d
Initial Stack Test and Report (for PM)	12	\$0	\$5,000	\$0	1	12	36	432	43	22	\$46,992	\$180,000	0	c,j,k
2. Illitial Stack Test and Report (for PW)	12	\$0	\$8,000	\$0	1	12	36	432	43	22	\$46,992	\$288,000	0	
Initial Stack Test and Report (for Hg)														c,j,k
Initial Stack Test and Report (for HCI)	12	\$0	\$8,000	\$0	1	12	36	432	43	22	\$46,992	\$288,000	0	c,j,k
Initial Stack Test and Report (for CO)	12	\$0	\$7,000	\$0	1	12	36	432	43	22	\$46,992	\$252,000	0	c,j,k
Initial Stack Test and Report (for D/F)	12	\$0	\$16,000	\$0	1	12	36	432	43	22	\$46,992	\$576,000	0	c,j,k
Annual Stack Test and Report (for PM)	12	\$0	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	0	c,j,k
Annual Stack Test and Report (for Hg)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	c,j,k
Annual Stack Test and Report (for HCI)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	
Annual Stack Test and Report (for PC)	12	\$0	\$7,000	\$0	1	12	0	0	0	0	\$0	\$0	0	c,j,k c,j,k
 Annual Stack Test and Report (for D/F) 	12	\$0	\$16,000	\$0	1	12	0	0	0	0	\$0	\$0	0	c,j,k
 Repeat Stack Test and Report if Switch Fuels (for Hg and HCI) 	24	\$0	\$16,000	\$0	1	24	0	0	0	0	\$0	\$0	0	c,f
13. Initial Fuel Analysis for Mercury and HCL Content	5	\$0	\$400	\$0	1	5	0	0	0	0	\$0	\$0	0	c,g
14. Monthly Fuel Analysis for Mercury and HCL Conten	5	\$0	\$400	\$0	12	60	0	0	0	0	\$0	\$0	0	c,g
15. Continuous Parameter Monitoring		40	4400	40		- 00		- v	- v			40		U,g
Establish Site-specific monitoring plan (all)	40	\$0		\$0	1	40	4	160	16	8	\$17.404	\$0	0	С
	40	⊅ U		⊅ ∪	1	40	4	100	10	8	\$17,404	\$U	U	+ c
Opacity					1									L
a) initial	10	\$0	\$0	\$43,100	1	10	0	0	0	0	\$0	\$0	0	c,h
b) annual	10	\$0	\$0	\$14,700	1	10	0	0	0	0	\$0	\$0	0	c,h
PM (only sources greater than 250 mmBtu/hr)														
a) initial	10	\$0	\$0	\$158,000	1	10	0	0	0	0	\$0	\$0	0	c,h
b) annual	10	\$0	\$0	\$56,100	1	10	0	0	0	0	\$0	\$0	0	c,h
	10	40	Ψ0	450,100	-	10				_ <u> </u>	90	ΨΟ		0,11
02	- 40		\$0	40 500		10				- 40	****	****	_	_
a) initial	10	\$0		\$8,523	1		36	360	36	18	\$39,160	\$306,828	0	С
b) annual	10	\$0	\$0	\$1,436	1	10	36	360	36	18	\$39,160	\$51,696	0	С
Scrubber System Monitoring and Operation														
(for units with wet scrubbers)													1	
a) initial	10	\$0	\$0	\$24,300	1	10	1	10	1	1	\$1,088	\$24,300	0	С
b) annual	10	\$0	\$0	\$5,600	1	10	1	10	1	1	\$1.088	\$5,600	0	c
	10	Φ0	Φ0	\$5,000	1	10	1	10	1	1	\$1,000	\$5,000		١,٠
Bag Leak Detection System Operation													1	
(sources that have fabric filters)														
a) initial	10	\$0	\$0	\$25,500	1	10	0	0	0	0	\$0	\$0	0	C
b) annual	10	\$0	\$0	\$9,700	1	10	0	0	0	0	\$0	\$0	0	С
16. Annual Tune-up	12	\$0	\$2,875	\$0	1	12	2.194	26,328	2,633	1,316	\$2,863,894	\$6,307,750	0	c,k
17. Mercury and H2S Fuel Spec Analysis	10	\$0	\$600	\$0	12	120	23	2,760	276	138	\$300,226	\$165,600	0	C,i
C. Create Information	na	40	4000	40		11.0	20	2,700	2.10	100	9000,EE0	\$100,000		0,1
														-
D. Gather Information	na													_
E. Report Preparation					ļ									1
Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	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	С
Initial Report on results of Energy Audit	5	\$0	\$0	\$0	1	5	0	0	0	0	\$0	\$0	0	С
4) Annual Compliance Report	20	\$0	\$0	\$0	1	20	0	0	ō	0	\$0	\$0	0	C, L
5) Semi-annual Compliance Report	20	\$0	\$0	\$0	2	40	0	0	0	0	\$0	\$0	0	C, L
6) Notification of Alternative Fuel Use	5	\$0	\$0	\$0	1	5	0	0	0	0	\$0	\$0	0	
	1 5	φU	ΨU	ΨU	1		U	37,428		1,871	\$4,071,324	\$12,699,408	0	c,m
Reporting Subtotal					-			31,428	3,743	1,8/1	\$4,071,324	\$12,099,408	U	+
Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													e
D. Record Information		1			1									
Records of Operating Parameter Values		\$0	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	c
		. ⊅∪	\$0	\$0		15		0	_	0	\$0	\$0	0	
Records of Startup, Shutdown, Malfunction	20	#0			1		0		0					С
	15	\$0			1	2	0	0	0	0	\$0	\$0	0	С
Records of Stack Tests	15	\$0	\$0	\$0	1									
	15 2 2			\$0 \$0	1	2	0	0	0	0	\$0	\$0	0	C
Records of Monitoring Device Calibrations	15 2 2	\$0 \$0	\$0 \$0	\$0		2 2	0			0			0	
Records of Monitoring Device Calibrations Records of All Annual Compliance Reports Submitted Records of All Semi-Annual Compliance Reports	15 2 2 2 2	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0	1	2	0	0	0	0	\$0 \$0	\$0 \$0	0	c, L
Records of Monitoring Device Calibrations Records of All Annual Compliance Reports Submitted Records of All Semi-Annual Compliance Reports Submitted	15 2 2 2 2 2	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$0	1 1 2	2	0	0	0	0	\$0 \$0	\$0 \$0	0	c, L
Records of Monitoring Device Calibrations Records of Ali Annual Compliance Reports Submittee Records of Ali Semi-Annual Compliance Reports Submitted Records of Monthly Fuel Use	15 2 2 2 2 2 2 0.5	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	1 1 2 12	2 4 6	0 0	0 0	0 0	0 0	\$0 \$0 \$0	\$0 \$0 \$0 \$0	0 0	c, L c, L c,g
4) Records of Monitoring Device Calibrations 5) Records of Ali Annual Compliance Reports Submitter 6) Records of Ali Semi-Annual Compliance Reports Submitted 7) Records of Monthly Fuel Use 8) Records of Annual Tune-up	15 2 2 2 2 2 2 0.5 0.25	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	1 1 2 12 1	4 6 0.25	0 0 0	0 0 0	0 0 0	0 0 0	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	0 0 0	c, L c, L c,g
Records of Monitoring Device Calibrations Records of Ali Annual Compliance Reports Submittee Records of Ali Semi-Annual Compliance Reports Submitted Records of Monthly Fuel Use	15 2 2 2 2 2 2 0.5	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	1 1 2 12	2 4 6	0 0	0 0	0 0	0 0	\$0 \$0 \$0	\$0 \$0 \$0 \$0	0 0	c, L c, L c,g
A) Records of Monitoring Device Calibrations S) Records of All Annual Compliance Reports Submittee Records of All Seni-Annual Compliance Reports Submitted The Records of All Seni-Annual Compliance Reports Submitted The Records of Monthly Fuel Use Records of Monthly Fuel Use Records of Annual Tune-up E-Personnel Training	15 2 2 2 2 2 0.5 0.25 40	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	1 1 2 12 1	4 6 0.25	0 0 0	0 0 0	0 0 0	0 0 0	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	0 0 0	c, L c, L c,g c
A) Records of Monitoring Device Calibrations Records of All Annual Compliance Reports Submittee Records of All Semi-Annual Compliance Reports Submitted Records of Monthly Fuel Use Records of Mont	15 2 2 2 2 2 2 0.5 0.25	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	1 1 2 12 1	4 6 0.25	0 0 0	0 0 0 0 10,600	0 0 0 0 1,060	0 0 0 0 530	\$0 \$0 \$0 \$0 \$0 \$0 \$1,153,042	\$0 \$0 \$0 \$0 \$0 \$0 \$0	0 0 0	c, L c, L c,g c
A) Records of Monitoring Device Calibrations S) Records of All Annual Compliance Reports Submittee Records of All Seni-Annual Compliance Reports Submitted The Records of All Seni-Annual Compliance Reports Submitted The Records of Monthly Fuel Use Records of Monthly Fuel Use Records of Annual Tune-up E-Personnel Training	15 2 2 2 2 2 0.5 0.25 40	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	1 1 2 12 1	4 6 0.25	0 0 0	0 0 0	0 0 0	0 0 0	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	0 0 0	c, L c, L c,g c
A) Records of Monitoring Device Calibrations Records of All Annual Compliance Reports Submittee Records of All Semi-Annual Compliance Reports Submitted Records of Monthly Fuel Use Records of Mont	15 2 2 2 2 2 0.5 0.25 40	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	1 1 2 12 1	4 6 0.25	0 0 0	0 0 0 0 10,600	0 0 0 0 1,060	0 0 0 0 530	\$0 \$0 \$0 \$0 \$0 \$0 \$1,153,042	\$0 \$0 \$0 \$0 \$0 \$0 \$0	0 0 0	c, L c, L c,g c

c Since existing units have three years after the publication date of the final rule to submit initial notification of compliance states, conduct compliance activities, or meet recordiscepting or epurisments, it is assumed that half the affected units will conduct an audit, testing and monitoring plan development in year? and not experiment is wall can develop experiments will not be in compliance by the third year after promulgation. Initial Notification of Compliance Reports and recordiscepting requirements will not be given unless of this ICR.

d Cost per occurrence for energy audit professionals including an phone screening to discuss the facility prior to a visit, a 2 to 4 hour site visit, and an additional 2-4 hours to prepare a follow-up report on recommendations and findings. These site visits are assumed to be conducted by certified energy

processionals.

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

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

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

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

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

The units fring other process gase so ther than natural quest owner treat instant or retinenty gas.

The units fring other process gase so ther than natural gas, refinency gases or other on-spec gas 1 fuels have limits for PM, HCI, Hg, DF, and CO and are subject to testing and monitoring requirements for each pollutant.

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

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

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

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

Table 3.C. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards

for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers - Year 3, Existing Large Gas Fuel Units

Burden Item 1. Applications Burden Item 1. Applications Burden Item 1. Applications Burden Item 1. Applications Burden Item 1. Applications 1. Applications 1. Required Requirements A. Read and Understand Rule Requirements A. Read and Understand Rule Requirements 1. Conduct Energy Audit 1. Conduct Energy Audit 2. Initial Stack Test and Report (for PM) 1. Initial Stack Test and Report (for PM) 1. Initial Stack Test and Report (for Hg) 1. Initial Stack Test and Report (for Hg) 1. Initial Stack Test and Report (for HG) 1. Initial Stack Test and Report (for CO) 1. Initial Stack Test and Report (for CO) 1. Initial Stack Test and Report (for DF) 1. Annual Stack Test and Report (for PM) 1. Annual Stack Test and Report (for Hg) 1. Annual Stack Test and Report (for Hg) 1. Annual Stack Test and Report (for Hg) 1. Annual Stack Test and Report (for LG) 1. Initial Fuel Analysis for Mercury and HCL Content 1. Monthly Fuel Analysis for Mercury and HCL Content 1. Continuous Parameter Monitoring Establish Site-specific monitoring plan (ali) Opacity a) initial b) annual 10 O2 a) initial b) annual 10 C2 a) initial b) annual 10 C2 a) initial b) annual 10 C2 a) initial b) annual 10 C3 C-Create Information 10 Bag Leak Detection System Operation (for units with wet scrubbers) a) initial b) annual 10 C-Create Information 1. Annual Tune-up 1. Annual Tune-up 1. Annual Tune-up 1. Annual Tune-up 1. Report Preparation 1. Initial Report on results of Energy Audit 5. Annual Tune-up 1. Report Preparation 1. Initial Report on results of Energy Audit 5. Annual Tune-up 1. Report or Preparation 1. Initial Report on results of Energy Audit 5. Seephila Report of the Susting Annual Compliance Report 2. Notification of Alternative Fuel Use 6. Report of System 1. Record	r (B) Certifice Energy A	dit Fuel Analys Cost Per	Solution	(E) Number of Cocurrences Per Respondent Per Year 1	(F) Technical Hours per Respondent Per Vear (A X E) 40 20 20 12 12 12 12 12 12 12 12 12 12 12 12 12	(G) Number of Respondents Per Year 0 33 231 35 35 35 35 36 36	(H) Technical Hours per Year @ \$98.20 (F X G) 0 0 660 4,620 420 420 420 420 420	(I) Clerical Hours per Year @ \$48.53 (H X 0.1)	(3) Management Hours per Year @ \$114.49 (H X .05) 0 33 231 21 21	(K) Total Labor Costs Per Year \$0 \$71,793 \$502,552 \$45,687	(L) Total Non- Labor Capital Costs Per Year [(B+C+D)xExG] \$0 \$28,182 \$4225,452	(M) Total Number of Responses per Year (E X G)	b, c, d b, c, d
2. Surveys and Studies na	\$854 \$18,29; \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$5,000 \$8,000 \$7,000 \$16,000 \$8,000 \$8,000 \$7,000 \$16,000 \$16,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 12 12 12 12 12 12 12 12 12 12 12 12	33 231 35 35 35 35 35 35 35	660 4,620 420 420 420 420 420	66 462 42 42 42	33 231 21 21	\$71,793 \$502,552 \$45,687	\$28,182 \$4,225,452	0	b, c, d
3. Reporting Requirements	\$854 \$18,29; \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$5,000 \$8,000 \$7,000 \$16,000 \$8,000 \$8,000 \$7,000 \$16,000 \$16,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 12 12 12 12 12 12 12 12 12 12 12 12	33 231 35 35 35 35 35 35 35	660 4,620 420 420 420 420 420	66 462 42 42 42	33 231 21 21	\$71,793 \$502,552 \$45,687	\$28,182 \$4,225,452	0	b, c, d
A. Read and Understand Rule Requirements 40 B. Required Activities 1. Conduct Energy Audit 20 b) Industrial 20 c) hindustrial 20 c) hindustrial 20 c) Initial Stack Test and Report (for PM) 12 d. Initial Stack Test and Report (for Hg) 12 d. Initial Stack Test and Report (for Hg) 12 f. Initial Stack Test and Report (for HG) 12 f. Initial Stack Test and Report (for CO) 12 f. Initial Stack Test and Report (for CO) 12 f. Initial Stack Test and Report (for CO) 12 g. Annual Stack Test and Report (for DF) 12 g. Annual Stack Test and Report (for Hg) 12 g. Annual Stack Test and Report (for Hg) 12 g. Annual Stack Test and Report (for Hg) 12 g. Annual Stack Test and Report (for DF) 12 g. Annual Tune-up 12 g. Annual T	\$854 \$18,29; \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$5,000 \$8,000 \$7,000 \$16,000 \$8,000 \$8,000 \$7,000 \$16,000 \$16,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 12 12 12 12 12 12 12 12 12 12 12 12	33 231 35 35 35 35 35 35 35	660 4,620 420 420 420 420 420	66 462 42 42 42	33 231 21 21	\$71,793 \$502,552 \$45,687	\$28,182 \$4,225,452	0	b, c, d
B. Required Activities 1. Conduct Energy Audit 2. Commerical 2. On 1. Industrial 2. On 1. Industrial 2. On 2. Initial Stack Test and Report (for PM) 1. On	\$854 \$18,29; \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$5,000 \$8,000 \$7,000 \$16,000 \$8,000 \$8,000 \$7,000 \$16,000 \$16,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 12 12 12 12 12 12 12 12 12 12 12 12	33 231 35 35 35 35 35 35 35	660 4,620 420 420 420 420 420	66 462 42 42 42	33 231 21 21	\$71,793 \$502,552 \$45,687	\$28,182 \$4,225,452	0	b, c, d
1. Conduct Energy Audit 20 10 10 10 10 10 10 10	\$18,29; \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$5,000 \$8,000 \$7,000 \$16,000 \$5,000 \$8,000 \$7,000 \$16,000 \$16,000 \$16,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	1 1 1 1 1 1 1 1 1 1 1 1	20 12 12 12 12 12 12 12 12 12 12 12	231 35 35 35 35 35 35 35 36	4,620 420 420 420 420	462 42 42 42	231 21 21	\$502,552 \$45,687	\$4,225,452	0	
a) Commerical 20 b) Industrial 22 c) linital Stack Test and Report (for PM) 12 c) linital Stack Test and Report (for Hg) 12 d. Initial Stack Test and Report (for Hg) 12 d. Initial Stack Test and Report (for HG) 12 d. Initial Stack Test and Report (for HG) 12 d. Initial Stack Test and Report (for CD) 12 d. Initial Stack Test and Report (for DF) 12 d. Report (for Hg) 12 d. Repeat Stack Test and Report (for Hg) 12 d. Repeat Stack Test and Report (for Hg) 12 d. Repeat Stack Test and Report (for Hg) 12 d. Annual Stack Test and Report (for Hg) 12 d. Repeat Stack Test and Report (for Hg) 12 d. Repeat Stack Test and Report (for Hg) 12 d. Repeat Stack Test and Report (for DF) 12 d. Repeat Stack Test and Report (for DF) 12 d. Repeat Stack Test and Report (for Mg) 14 d. Report (for Hg) 14 d. Report (for Hg) 14 d. Report (for Hg) 15 d. Initial Fuel Analysis for Mercury and HCL Content 15 d. Morthly Fuel Analysis for Mercury and HCL Content 15 d. Report (for Hg) 14 d. Report (for Hg) 15 d. Initial Fuel Analysis for Mercury and HCL Content 15 d. Morthly Fuel Analysis for Mercury and HCL Content 15 d. Annual HCL Content 15 d. Initial Fuel Analysis for Mercury and HCL Content 15 d. Annual 10 d. D) annual 10 d. G. Gather Information 16 d. Report Mercury and HCL Content 18 d. Report Mercury and HCL Content 18 d. Report Mercury and HCL Content 18 d. Report Mercury and HCL Content 18 d. Report Mercury and HCL Content 18 d. Report Mercury and HCL Content 18 d. Report Mercury and HCL Content 18 d. Report Mercury and HCL Content 18 d. Report Mercury and HCL Content 18 d. Rep	\$18,29; \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$5,000 \$8,000 \$7,000 \$16,000 \$5,000 \$8,000 \$7,000 \$16,000 \$16,000 \$16,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	1 1 1 1 1 1 1 1 1 1 1 1	20 12 12 12 12 12 12 12 12 12 12 12	231 35 35 35 35 35 35 35 36	4,620 420 420 420 420	462 42 42 42	231 21 21	\$502,552 \$45,687	\$4,225,452	0	
10 Industrial 20 20 20 Initial Stack Test and Report (for PM) 12 3 3 Initial Stack Test and Report (for Hg) 12 4 Initial Stack Test and Report (for Hg) 12 5 4 Initial Stack Test and Report (for CO) 12 5 Initial Stack Test and Report (for CO) 12 7 Annual Stack Test and Report (for DF) 12 7 Annual Stack Test and Report (for DF) 12 9 Annual Stack Test and Report (for Hg) 12 9 Annual Stack Test and Report (for Hg) 12 10 Annual Stack Test and Report (for Hg) 12 12 10 Annual Stack Test and Report (for Hg) 12 12 Repeat Stack Test and Report (for DF) 12 13 Initial Euel Analysis for Mercury and HCL Content 14 Monthly Fuel Analysis for Mercury and HCL Content 5 15 Continuous Parameter Monitoring Establish Site-specific monitoring plan (all) 40 Opacity a) Initial 10 D) armual	\$18,29; \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$5,000 \$8,000 \$7,000 \$16,000 \$5,000 \$8,000 \$7,000 \$16,000 \$16,000 \$16,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	1 1 1 1 1 1 1 1 1 1 1 1	20 12 12 12 12 12 12 12 12 12 12 12	231 35 35 35 35 35 35 35 36	4,620 420 420 420 420	462 42 42 42	231 21 21	\$502,552 \$45,687	\$4,225,452	0	
2. Initial Stack Test and Report (for PM) 12	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$5,000 \$8,000 \$8,000 \$7,000 \$16,000 \$8,000 \$8,000 \$7,000 \$16,000 \$16,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	1 1 1 1 1 1 1 1 1 1	12 12 12 12 12 12 12 12 12 12 12	35 35 35 35 35 35 36	420 420 420 420	42 42 42	21 21	\$45,687			h.c.d
3. Initial Stack Test and Report (for Hg) 12	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$8,000 \$8,000 \$7,000 \$16,000 \$5,000 \$8,000 \$7,000 \$16,000 \$16,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	1 1 1 1 1 1 1 1	12 12 12 12 12 12 12 12 12 12	35 35 35 35 35 36	420 420 420	42 42	21		#17F 000		
4. Initial Stack Test and Report (for HCI) 12 12 15. Initial Stack Test and Report (for HCI) 12 12 15. Initial Stack Test and Report (for CO) 12 12 15. Initial Stack Test and Report (for DF) 12 17. Annual Stack Test and Report (for PM) 12 18. Annual Stack Test and Report (for PM) 12 19. Annual Stack Test and Report (for HCI) 12 10. Annual Stack Test and Report (for HCI) 12 11. Annual Stack Test and Report (for HCI) 12 11. Annual Stack Test and Report (for DF) 12 12. Repeal Stack Test and Report (for DF) 12 13. Initial Fuel Analysis for Mercury and HCL Content 14. Morthly Fuel Analysis for Mercury and HCL Content 15. Continuous Parameter Monitoring 15. Continuous Parameter Monitoring 16. Continuous Parameter Monitoring 10 10 10 10 10 10 10 1	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$8,000 \$7,000 \$16,000 \$5,000 \$8,000 \$7,000 \$16,000 \$16,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	1 1 1 1 1 1 1	12 12 12 12 12 12 12 12	35 35 35 35 36	420 420	42			\$175,000	0	c,j,k
S. Initial Stack Test and Report (for CO) 12	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$7,000 \$16,000 \$5,000 \$8,000 \$7,000 \$16,000 \$400	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	1 1 1 1 1 1	12 12 12 12 12 12 12	35 35 36	420			\$45,687	\$280,000	0	c,j,k
6. Initial Stack Test and Report (for DF) 12 12 13 14 12 14 15 15 15 16 16 16 16 16	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$16,000 \$5,000 \$8,000 \$8,000 \$7,000 \$16,000 \$400	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	1 1 1 1	12 12 12 12 12 12	35 36			21	\$45,687	\$280,000	0	c,j,k
7. Annual Stack Test and Report (for PM) 12 9. Annual Stack Test and Report (for Hg) 12 9. Annual Stack Test and Report (for Hg) 12 10. Annual Stack Test and Report (for Hg) 12 11. Annual Stack Test and Report (for CO) 12 12. Repeal Stack Test and Report (for DF) 12 12. Repeal Stack Test and Report (for DF) 12 12. Repeal Stack Test and Report (for WF) 12 13. Initial Fuel Analysis for Mercury and HCL Content 5 14. Monthly Fuel Analysis for Mercury and HCL Content 5 15. Continuous Parameter Monitoring Establish Site-specific monitoring plan (all) 40 Opacity 15 16. Annual Stack State St	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$5,000 \$8,000 \$8,000 \$7,000 \$16,000 \$16,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	1 1 1 1	12 12 12 12	36	420	42	21	\$45,687	\$245,000	0	c,j,k
B. Annual Stack Test and Report (for Hg) 12 12 19. Annual Stack Test and Report (for Hc) 12 10. Annual Stack Test and Report (for CO) 12 11. Annual Stack Test and Report (for CO) 12 11. Annual Stack Test and Report (for CO) 12 12. Repeat Stack Test and Report (for CO) 12 12. Repeat Stack Test and Report (for CDF) 12 12. Repeat Stack Test and Report (for Mc) 24 13. Initial Fuel Analysis for Mercury and HCL Content 5 14. Monthly Fuel Analysis for Mercury and HCL Content 5 14. Monthly Fuel Analysis for Mercury and HCL Content 5 14. Monthly Fuel Analysis for Mercury and HCL Content 5 15. Continuous Parameter Monitoring plan (all) 40 Opacity a) initial 10 10 10 10 10 10 10 1	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$8,000 \$8,000 \$7,000 \$16,000 \$16,000 \$400	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	1 1 1	12 12 12			42	21	\$45,687	\$560,000	0	c,j,k
9. Annual Stack Test and Report (for HC) 12 10. Annual Stack Test and Report (for CO) 12 11. Annual Stack Test and Report (for CO) 12 12. Repeat Stack Test and Report (for OF) 12 12. Repeat Stack Test and Report (for West Content	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$8,000 \$7,000 \$16,000 \$16,000 \$400	\$0 \$0 \$0 \$0 \$0 \$0 \$0	1 1	12 12	26	432	43	22	\$46,992	\$180,000	0	c,j,k
10. Annual Stack Test and Report (for CO) 12	\$0 \$0 \$0 \$0 \$0 \$0	\$7,000 \$16,000 \$16,000 \$400	\$0 \$0 \$0 \$0 \$0 \$0	1	12		432	43	22	\$46,992	\$288,000	0	c,j,k
10. Annual Stack Test and Report (for CO) 12 11. Annual Stack Test and Report (for CDF) 12 12. Repeat Stack Test and Report of Switch Fuels (for Hg and HCI) 24 13. Initial Fuel Analysis for Mercury and HCL Content 5 14. Monthly Fuel Analysis for Mercury and HCL Content 5 15. Continuous Parameter Monitoring 15. Continuous Parameter Monitoring 16 Establish Site-specific monitoring plan (all) 40 Opacity a) initial 10 D) annual 10 D) annual 10 DPM (only sources greater than 250 mmBtu/hr) a) initial 10 DB annual 10 O2 a) initial 10 D) annual 10 O2 a) initial 10 D) annual 10 DScrubber System Monitoring and Operation (for units with wet scrubbers) a) initial 10 D) annual 10 D annual 10 D) annual 10 Cscrubber System Monitoring and Operation (for units with wet scrubbers) a) initial 10 D) annual 10 D) annual 10 D) annual 10 Eap Leak Detection System Operation (sources that have fabric filters) a) initial 10 D) annual 10 D. Gather Information 10 E. Report Perparation 11 E. Report Perparation 12 E. Report Perparation 13 E. Report Perparation 1425 Fuel Spec Analysis 10 D. Gather Information 15 E. Report Perparation 22 Notification of Compliance Status 8 3) initial Report on results of Energy Audit 5 E. Report Michael 11 E. Report Perparation 20 E. Report Michael 12 E. Report Perparation 20 E. Report Michael 15 E. Report Michael 15 E. Report Michael 16 E. Report Mi	\$0 \$0 \$0 \$0 \$0 \$0	\$7,000 \$16,000 \$16,000 \$400	\$0 \$0 \$0 \$0 \$0 \$0		12	36	432	43	22	\$46,992	\$288,000	0	c,j,k
11. Annual Stack Test and Report (for D/F) 12 12. Repeal Stack Test and Report (for Well Fuels (for Hg and HC) 24 13. Initial Evel Analysis for Mercury and HCL Content 5 14. Monthly Fuel Analysis for Mercury and HCL Content 5 15. Continuous Parameter Monitoring Establish Sites-specific monitoring plan (all) 40 Opacity 1 10 10 10 10 10 10 10	\$0 \$0 \$0 \$0	\$16,000 \$16,000 \$400	\$0 \$0 \$0 \$0			36	432	43	22	\$46,992	\$252,000	0	c,j,k
12. Repeat Stack Test and Report of Switch Fuels (br Hq and HCI)	\$0 \$0 \$0	\$16,000 \$400	\$0 \$0 \$0		12	36	432	43	22	\$46,992	\$576,000	0	c,j,k
(for Hg and HCI) 24 13. Initial Fuel Analysis for Mercury and HCL Content 5 14. Monthly Fuel Analysis for Mercury and HCL Content 5 15. Continuous Parameter Monitoring Gestablish Site-specific monitoring plan (all) 40 Opacity a) initial 10 D) annual 10 PM (only sources greater than 250 mmBtuhr) 10 PM (only sources greater than 250 mmBtuhr) 10 D) annual 10 C2 a) initial 10 D) annual 10 Scrubber System Monitoring and Operation (for discounting the sources of the sources o	\$0 \$0	\$400	\$0 \$0		1								1
13. Initial Fuel Analysis for Mercury and HCL Content 5 14. Monthly Fuel Analysis for Mercury and HCL Content 5 15. Continuous Parameter Monitoring 40 Cpacity 0 Initial 10 D) Annual 10	\$0 \$0	\$400	\$0 \$0	1	24	0	0	0	0	\$0	\$0	0	c,f
14. Monthly Fuel Analysis for Mercury and HCL Content 5 15. Continuous Parameter Monitoring Establish Site-specific monitoring plan (all) 40 Opacity	\$0		\$0	1	5	0	0	0	0	\$0	\$0	0	c,g
15. Continuous Parameter Monitoring		0400		12	60	Ö	0	0	0	\$0	\$0	0	c,g
Establish Site-specific monitoring plan (all) 40	\$0			12	- 00	_ ·	0	-		ΨΟ	Ψυ		- c,g
Opacity 0 10 10 10 10 10 10 10	90		\$0	1	40	4	160	16	8	\$17,404	\$0	0	С
			ΨΟ	-	40	-	100	10	0	Ψ17,404	Ψ0		+-
D) annual 10	\$0	\$0	\$43,100	1	10	0	0	0	0	\$0	\$0	0	c,h
PM (only sources greater than 250 mmBtuhr) 0 10 10 10 10 10 10 10	\$0	\$0		1	10	0	0	0	0		\$0	0	
a) Initial 10 10 10 10 10 10 10 1	\$0	\$0	\$14,700	1	10	U	U	U	U	\$0	\$0	-	c,h
Diamus			#150,000	1	10	_		_	^	***	***		
O2	\$0	\$0	\$158,000		10	0	0	0	0	\$0	\$0	0	c,h
a) Initial 10 10 10 10 10 10 10 1	\$0	\$0	\$56,100	1	10	0	0	0	0	\$0	\$0	0	c,h
D) annual 10													
Scrubber System Monitoring and Operation (for units with wet scrubbers) 10 10 10 10 10 10 10 1	\$0	\$0	\$8,523	1	10	35	350	35	18	\$38,072	\$298,305	0	С
(for units with wet scrubbers) a initial 10 10 10 10 10 10 10 1	\$0	\$0	\$1,436	1	10	35	350	35	18	\$38,072	\$50,260	0	С
a) Initial 10 10 10 10 10 10 10 1										1			'
Diamusi													_
Bag Leak Detection System Operation (sources that have fabric filters) 10 10 10 10 10 10 10 1	\$0	\$0	\$24,300	1	10	0	0	0	0	\$0	\$0	0	С
(sources that have fabric filters) a) initial 10 b) annual 10 11. Annual 11.	\$0	\$0	\$5,600	1	10	0	0	0	0	\$0	\$0	0	С
a) initial 10										1			
D) annual 10 10 11 11 12 12 17. Mercury and HZS Fuel Spec Analysis 10 12 17. Mercury and HZS Fuel Spec Analysis 10 10 10 10 10 10 10 1			405 500		- 10			_				_	+
16. Annual Tune-up 12 17. Mercury and H2S Fuel Spec Analysis 10 17. Mercury and H2S Fuel Spec Analysis 10 10. C. Create Information na 10. Gather Information na 10. Gather Information 11. Mercury and H2S Fuel Spec Analysis 12. Mercury and H2S Fuel Spec Analysis 12. Mercury and H2S Fuel Spec Analysis 13. Mercury and H2S Fuel Spec Analysis 14. Mercury and H2S Fuel Spec Anal	\$0	\$0	\$25,500	1	10	0	0	0	0	\$0	\$0	0	С
17. Mercury and HZS Fuel Spec Analysis 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 1) Initial Notification that Source is Subject 2 2) Notification of Compliance Status 8 3) Initial Report on results of Energy Audit 5 4) Annual Compliance Report 20 5) Semi-annual Compliance Report 20 5) Semi-annual Compliance Report 20 Fepoling Sublocal 4 A. RecordRepring Requirements 5 A. Record Instructions Included in B. Implement Activities na C. Develop Record System na D. Record Information	\$0	\$2,875	\$0	1	12	4,388	52,656	5,266	2,633	\$5,727,788	\$12,615,500	0	c,k
D. Sather Information na	\$0	\$600	\$0	12	120	22	2,640	264	132	\$287,173	\$158,400	0	c,i
E. Report Preparation 1 1 Initial Notification that Source is Subject 2 2 Notification of Compilance Status 8 3 Initial Report on results of Energy Audit 5 4) Annual Compilance Report 20 5) Semi-annual Compilance Report 20 Notification of Allentarbue Fuel Use 5 Reporting Sublotal 4 A. Record/Reping Requirements Included in B. Implement Activities na C. Develop Record System na D. Record Information na													_
1) Initial Notification that Source is Subject													
2) Notification of Compilance Status 8 3) Initial Report on results of Energy Audit 5 4) Annual Compilance Report 20 5) Semi-annual Compilance Report 20 6) Notification of Alternative Fuel Use 5 Reporting Subtotal 4 A. Record/Reping Requirements Included in B. Implement Activities na C. Develop Record System na D. Record Information na													
3 Initial Report on results of Energy Audit 5	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	a
4) Annual Compliance Report 20 5) Semi-annual Compliance Report 20 5) Notification of Alternative Fuel Use 5 Reporting Subicatal 4 4. Recordisceping Requirements Included in A. Read Instructions Included in B. Implement Activities na C. Develop Record System na D. Record Information na	\$0	\$0	\$0	1	8	529	4,232	423	212	\$460,346	\$0	529	С
5) Semi-annual Compliance Report 20 6) Notification of Alternative Fuel Use 5 Reporting Subtrotal equirements 4 A. Read Instructions Included in B. Implement Activities B. Implement Activities na C. Develop Record System na D. Record Information na	\$0	\$0	\$0	1	5	529	2,645	265	132	\$287,716	\$0	529	С
6) Notification of Alternative Fuel Use 5 Reporting Subtotal 4 4. Recordkeeping Requirements A. Read instructions included in B. Implement Activities na C. Develop Record System na D. Record Information	\$0	\$0	\$0	1	20	521	10,420	1,042	521	\$1,133,462	\$0	521	c, L
Reporting Subtotal 4. Recortikesping Requirements A. Read Instructions Included in B. Implement Activities na C. Develop Record System na D. Record Information na	\$0	\$0	\$0	2	40	8	320	32	16	\$34,809	\$0	16	c, L
4. Recordkeeping Requirements A. Read Instructions Included in B. Implement Activities na C. Develop Record System na D. Record Information	\$0	\$0	\$0	1	5	781	3,905	391	195	\$424,776	\$0	781	c,m
A. Read Instructions Included in B. Implement Activities na C. Develop Record System na D. Record Information							87,218	8,722	4,361	\$9,487,356	\$20,500,099	2,376	
B. Implement Activities na C. Develop Record System na D. Record Information													
B. Implement Activities na C. Develop Record System na D. Record Information													
C. Develop Record System na D. Record Information	3a												
D. Record Information	3a												е
Records of Operating Parameter Values	3a												T
	3a	\$0	\$0	1	20	71	1,420	142	71	\$154,464	\$0	0	С
Records of Startup, Shutdown, Malfunction 15	3a \$0	\$0	\$0	1	15	71	1,065	107	53	\$115,848	\$0	0	C
Records of Stack Tests 2			\$0	1	2	71	142	14	7	\$15,446	\$0	0	С
4) Records of Monitoring Device Calibrations 2	\$0 \$0		\$0	1	2	71	142	14	7	\$15,446	\$0	0	c
5) Records of All Annual Compliance Reports Submitted 2	\$0	\$0 \$0	\$0	1	2	4,388	8,776	878	439	\$954,631	\$0	0	C, L
6) Records of All Semi-Annual Compliance Reports	\$0 \$0 \$0 \$0	\$0 \$0		<u> </u>		.,	-,						+-,-
Submitted 2	\$0 \$0 \$0	\$0	\$0	2	4	71	284	28	14	\$30,893	\$0	0	c, L
7) Records of Monthly Fuel Use 0.5	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0		12	6	4,459	26,754	2,675	1,338	\$2,910,233	\$0	0	c,g
8) Records of Annual Tune-up 0.25	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0	\$0	1	0.25	4,388	1,097	110	55	\$119,329	\$0	0	C,g
E. Personnel Training 40	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0	1	40	4,388	10,560	1,056	528	\$1,148,690	\$0	0	n
	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0			204	10,300	1,000	320	ψ1,140,090	Φυ		+ "
F. Time for Audits na	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0			40					. '	1	1	1
Recordkeeping Subtotal	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0		40							+	+
Totals	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0		40		50,240	5,024	2,512	\$5,464,982	\$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.

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 the testing and monitoring plan development in year 2 and half will conduct them in year 3 in order to be in compliance by the third year after promulgation. Initial Notification of Compliance Reports and recordkeeping requirements will not begin until year 3 of this ICR.

d Cost per occurrence for energy audit professionals including an phone screening to discuss the facility prior to a visit, a 2 to 4 hour site visit, and an additional 2-4 hours to prepare a follow-up report on recommendations and findings. These site visits are assumed to be conducted by certified energy professionals.

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

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

g Existing large gas 2 units are expected to determine compliance through stack testing. h Gas units are exempt from PM CEMS and opacity monitoring.

I Number hased on unist which reported firing fuels other than natural or refinery gas.

I Number hased on unist which reported firing fuels other than natural ags, refinery gases or other on-spec gas 1 fuels have limits for PM, HCI, Hq, DIF, and CO and are subject to testing and monitoring requirements for each pollutant.

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

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

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

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

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

101	Hazardous Ai	Pollutants	(NESHAP) IO	muustriai	Commerciai,	and institut	ional Boller	s - Year 1,	New Larg	e Solia Fuel	Units			
Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Certified Energy Audit Cost per Occurrence	(C) Stack Testing and Fuel Analysis Cost Per Occurrence	(D) Other Non-Labor Costs Per Occurrence	(E) Number of Occurrences Per Respondent Per Year	(F) Technical Hours per Respondent Per Year (A X E)	(G) Number of Respondents Per Year	(H) Technical Hours per Year @ \$98.20 (F X G)	(I) Clerical Hours per Year @ \$48.53 (H X 0.1)	(J) Management Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non- Labor Capital Costs Per Year [(B+C+D)xExG]	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na	Occurrence	Occurrence	Occurrence	1 Ci i Cui	(/// L)	1 Ci i Cui	χο,	7 (0.1)	7(.00)	COSIST CITCUI	[(B·C·D)XLXO]	χο,	
2. Surveys and Studies	na													-
	IId													
3. Reporting Requirements	40	40	00	00		40		0			40	Φ0		
A. Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	0	0	0	0	\$0	\$0	0	а
B. Required Activities	10	40	ΦE 000	***		10	0	0			40	\$0		
Initial Stack Test and Report (for PM)	12	\$0	\$5,000	\$0	1	12	-		0	0	\$0		0	
Initial Stack Test and Report (for Hg)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	
Initial Stack Test and Report (for HCI)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	
Initial Stack Test and Report (for CO)	12	\$0	\$7,000	\$0	1	12	0	0	0	0	\$0	\$0	0	
Initial Stack Test and Report (for D/F)	12	\$0	\$16,000	\$0	1	12	0	0	0	0	\$0	\$0	0	
Annual Stack Test and Report (for PM)	12	\$0	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	0	
Annual Stack Test and Report (for Hg)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	
Annual Stack Test and Report (for HCI)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	
Annual Stack Test and Report (for CO)	12	\$0	\$7,000	\$0	1	12	0	0	0	0	\$0	\$0	0	
 Annual Stack Test and Report (for D/F) 	12	\$0	\$16,000	\$0	1	12	0	0	0	0	\$0	\$0	0	
Repeat Stack Test and Report if Switch Fuels (for Hg and HCI)	24	\$0	\$16,000	\$0	1	24	0	0	0	0	\$0	\$0	0	
12. Initial Fuel Analysis for Mercury and HCL Content	5	\$0	\$400	\$0	1	5	0	0	0	0	\$0	\$0	0	
13. Monthly Fuel Analysis for Mercury and HCL Content	5	\$0	\$400	\$0	12	60	0	0	0	0	\$0	\$0	0	
14. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	\$0		\$0	1	40	0	0	0	0	\$0	\$0	0	
Opacity														
a) initial	10	\$0	\$0	\$43,100	1	10	0	0	0	0	\$0	\$0	0	
b) annual	10	\$0	\$0	\$14,700	1	10	0	0	0	0	\$0	\$0	0	
PM (only sources greater than 250 mmBtu/hr)				72.,	_					_				
a) initial	10	\$0	\$0	\$158,000	1	10	0	0	0	0	\$0	\$0	0	-
b) annual	10	\$0	\$0	\$56,100	1	10	0	0	0	0	\$0	\$0	0	_
02	10	ΨΟ	Ψ0	Ψ50,100	-	10	-	-	-	-	ΨΟ	ΨΟ		-
a) initial	10	\$0	\$0	\$8,523	1	10	0	0	0	0	\$0	\$0	0	
b) annual	10	\$0	\$0	\$1,436	1	10	0	0	0	0	\$0	\$0	0	-
Scrubber System Monitoring and Operation (for units with wet scrubbers)	10	Ψ0	40	Ψ1,400	<u> </u>	10	Ü	-		, ,	ΨΟ	Ψ0		
a) initial	10	\$0	\$0	\$24,300	1	10	0	0	0	0	\$0	\$0	0	
b) annual	10	\$0	\$0	\$5,600	1	10	0	0	0	0	\$0	\$0	0	
Bag Leak Detection System Operation (sources that have fabric filters)														
a) initial	10	\$0	\$0	\$25,500	1	10	0	0	0	0	\$0	\$0	0	
b) annual	10	\$0	\$0	\$9,700	1	10	0	0	0	0	\$0	\$0	0	
Carbon Injection Monitoring System (all sources that use ACI to control Hg)														
a) initial	10	\$0	\$0	\$115,000	1	10	0	0	0	0	\$0	\$0	0	
b) annual	10	\$0	\$0	\$9,700	1	10	0	0	0	0	\$0	\$0	0	
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	
Notification of Compliance Status	8	\$0	\$0	\$0	1	8	0	0	0	0	\$0	\$0	0	
Semi-annual Compliance Report	20	\$0	\$0	\$0	2	40	0	0	0	0	\$0	\$0	0	
Reporting Subtotal								0	0	0	\$0	\$0	0	
Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													
D. Record Information														
Records of Operating Parameter Values	20	\$0	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	\$0	1	15	0	0	0	0	\$0	\$0	0	
Records of Stack Tests	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	
Records of Monitoring Device Calibrations	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	-
5) Records of All Compliance Reports Submitted	2	\$0	\$0	\$0	2	4	0	0	0	0	\$0	\$0	0	-
6) Records of Monthly Fuel Use	0.5	\$0	\$0	\$0	12	6	0	0	0	0	\$0	\$0	0	-
E. Personnel Training	40	\$0	\$0	\$0	1	40	0	0	0	0	\$0	\$0	0	-
F. Time for Audits	na	+0	+		-	- ~			_ <u> </u>		40	40	<u> </u>	
Recordkeeping Subtotal	110							0	0	0	\$0	\$0		
								0	0	0	\$0	\$0	0	
Totals								U		U	\$ U	\$ U	U	

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

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

-	UI HAZAIUUUS	All Pollular	IS (NESHAP)	ioi illuusiil	ai, Commerci	ai, anu msuu	utional Boilers	- rear 2,	New Lary	e Soliu Fuel C	אוונס			
Burden Item	(A) Respondent Hours per Occurrence (Technical	(B) Certified Energy Audit Cost per Occurrence	(C) Stack Testing and Fuel Analysis Cost Per	(D) Other Non-Labor Costs Per	(E) Number of Occurrences Per Respondent	(F) Technical Hours per Respondent Per Year	(G) Number of Respondents	(H) Technical Hours per Year @ \$98.20 (F	(I) Clerical Hours per Year @ \$48.53 (H	(J) Management Hours per Year @ \$114.49 (H	(K) Total Labor	(L) Total Non- Labor Capital Costs Per Year	(M) Total Number of Responses per Year (E X	Footnotes
	hours)	Occurrence	Occurrence	Occurrence	Per Year	(A X E)	Per Year	X G)	X 0.1)	X .05)	Costs Per Year	[(B+C+D)xExG]	G)	ш.
1. Applications	na													$\overline{}$
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														-
Initial Stack Test and Report (for PM)	12	\$0	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	0	
Initial Stack Test and Report (for Hg)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	-
														_
Initial Stack Test and Report (for HCl)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	-
Initial Stack Test and Report (for CO)	12	\$0	\$7,000	\$0	1	12	0	0	0	0	\$0	\$0	0	$\overline{}$
Initial Stack Test and Report (for D/F)	12	\$0	\$16,000	\$0	1	12	0	0	0	0	\$0	\$0	0	
Annual Stack Test and Report (for PM)	12	\$0	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	0	
Annual Stack Test and Report (for Hg)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	
Annual Stack Test and Report (for HCI)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	
Annual Stack Test and Report (for CO)	12	\$0	\$7,000	\$0	1	12	0	0	0	0	\$0	\$0	0	$\overline{}$
 Annual Stack Test and Report (for D/F) 	12	\$0	\$16,000	\$0	1	12	0	0	0	0	\$0	\$0	0	
Repeat Stack Test and Report if Switch Fuels			122,000					- -		-				
(for Hg and HCI)	24	\$0	\$16,000	\$0	1	24	0	0	0	0	\$0	\$0	0	
Initial Fuel Analysis for Mercury and HCL Content	5	\$0	\$400	\$0	1	5	0	0	0	0	\$0	\$0	0	
Monthly Fuel Analysis for Mercury and HCL Content	5	\$0	\$400	\$0	12	60	0	0	0	0	\$0	\$0	0	┰╴┚
14. Continuous Parameter Monitoring														П
Establish Site-specific monitoring plan (all)	40	\$0		\$0	1	40	0	0	0	0	\$0	\$0	0	\neg
Opacity														\neg
a) initial	10	\$0	\$0	\$43,100	1	10	0	0	0	0	\$0	\$0	0	-
b) annual	10	\$0	\$0	\$14,700	1	10	0	0	0	0	\$0	\$0	0	
	10	ΦU	\$0	\$14,700	1	10	U	U	U	U	Φ0	⊅0	U	-
PM (only sources greater than 250 mmBtu/hr)	40	**	**	*****		4.0	_	_			40	40		\vdash
a) initial	10	\$0	\$0	\$158,000	1	10	0	0	0	0	\$0	\$0	0	\vdash
b) annual	10	\$0	\$0	\$56,100	1	10	0	0	0	0	\$0	\$0	0	$\overline{}$
02														
a) initial	10	\$0	\$0	\$8,523	1	10	0	0	0	0	\$0	\$0	0	
b) annual	10	\$0	\$0	\$1,436	1	10	0	0	0	0	\$0	\$0	0	
Scrubber System Monitoring and Operation (for units with wet scrubbers)														
a) initial	10	\$0	\$0	\$24,300	1	10	0	0	0	0	\$0	\$0	0	
b) annual	10	\$0	\$0	\$5,600	1	10	0	0	0	0	\$0	\$0	0	
Bag Leak Detection System Operation (sources that have fabric filters)				,			-	-	-					
a) initial	10	\$0	\$0	\$25,500	1	10	0	0	0	0	\$0	\$0	0	\vdash
b) annual	10	\$0	\$0	\$9,700	1	10	0	0	0	0	\$0	\$0	0	$\overline{}$
	10	Ψυ	Ψυ	Ψ3,700	-	10	0		- 0	0	ΨΟ	ΨΟ	0	
Carbon Injection Monitoring System (all sources that use ACI to control Hg)														
a) initial	10	\$0	\$0	\$115,000	1	10	0	0	0	0	\$0	\$0	0	1
b) annual	10	\$0	\$0	\$9,700	1	10	0	0	0	0	\$0	\$0	0	, –
C. Create Information	na													
D. Gather Information	na													_
E. Report Preparation														
Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	_
Notification of Compliance Status	8	\$0	\$0	\$0	1	8	0	0	0	0	\$0	\$0	0	_
3) Semi-annual Compliance Report	20	\$0	\$0	\$0	2	40	0	0	0	0	\$0	\$0	0	
	20	ΦU	⊅∪	\$0		40	U	0		0			0	$\overline{}$
Reporting Subtotal	-		<u> </u>			+		U	0	U	\$0	\$0	U	—
Recordkeeping Requirements														\vdash
A. Read Instructions	Included in 3a					1								
B. Implement Activities	na													
C. Develop Record System	na													
D. Record Information														
Records of Operating Parameter Values	20	\$0	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	\$0	1	15	0	0	0	0	\$0	\$0	0	
Records of Stack Tests	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	
		\$0		\$0							\$0 \$0			
Records of Monitoring Device Calibrations	2		\$0		1	2	0	0	0	0		\$0	0	_
5) Records of All Compliance Reports Submitted	2	\$0	\$0	\$0	2	4	0	0	0	0	\$0	\$0	0	-
Records of Monthly Fuel Use	0.5	\$0	\$0	\$0	12	6	0	0	0	0	\$0	\$0	0	
E. Personnel Training	40	\$0	\$0	\$0	1	40	0	0	0	0	\$0	\$0	0	
F. Time for Audits	na													
Recordkeeping Subtotal								0	0	0	\$0	\$0		
Totals								0	0	0	\$0	\$0	0	$\overline{}$
iotais						1		_ "	J	U	ΨU	Ψ	U	

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

Table 4.C. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards

for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers - Year 3, New Large Solid Fuel Units

•	or riuzuruous	, All I Ollatal	to (ITEOII)	ioi illuustii	ui, commicici	ai, and motit	ulional bollers	- icai J,	INCW Laig	c cona i aci c	-			
Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Certified Energy Audit Cost per Occurrence	(C) Stack Testing and Fuel Analysis Cost Per Occurrence	(D) Other Non-Labor Costs Per Occurrence	(E) Number of Occurrences Per Respondent Per Year	(F) Technical Hours per Respondent Per Year (A X E)	(G) Number of Respondents Per Year	(H) Technical Hours per Year @ \$98.20 (F X G)	(I) Clerical Hours per Year @ \$48.53 (H X 0.1)	(J) Management Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non- Labor Capital Costs Per Year [(B+C+D)xExG]	(M) Total Number of Responses per Year (E X G)	Footnotes
Applications	na													
Surveys and Studies	na													
Reporting Requirements													0	-
A. Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	0	0	0	0	\$0	\$0	0	а
B. Required Activities	10	40		40	-					-	40	40		+ "
Initial Stack Test and Report (for PM)	12	\$0	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	0	+
														+
Initial Stack Test and Report (for Hg)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	\perp
Initial Stack Test and Report (for HCl)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	\perp
Initial Stack Test and Report (for CO)	12	\$0	\$7,000	\$0	1	12	0	0	0	0	\$0	\$0	0	
Initial Stack Test and Report (for D/F)	12	\$0	\$16,000	\$0	1	12	0	0	0	0	\$0	\$0	0	
Annual Stack Test and Report (for PM)	12	\$0	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	0	
Annual Stack Test and Report (for Hg)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	
Annual Stack Test and Report (for HCI)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	$\overline{}$
Annual Stack Test and Report (for CO)	12	\$0	\$7,000	\$0	1	12	0	0	0	0	\$0	\$0	0	+
10. Annual Stack Test and Report (for D/F)	12	\$0	\$16,000	\$0	1	12	0	0	0	0	\$0	\$0	0	+
	12	Ψυ	\$10,000	ΨΟ	1	12	0	0	0	0	ΨΟ	Ψ0		+
 Repeat Stack Test and Report if Switch Fuels (for Hg and HCl) 	24	\$0	\$16,000	\$0	1	24	0	0	0	0	\$0	\$0	0	
Initial Fuel Analysis for Mercury and HCL Content	5	\$0	\$400	\$0	1	5	0	0	0	0	\$0	\$0	0	
13. Monthly Fuel Analysis for Mercury and HCL Content	5	\$0	\$400	\$0	12	60	0	0	0	0	\$0	\$0	0	
14. Continuous Parameter Monitoring														\Box
Establish Site-specific monitoring plan (all)	40	\$0		\$0	1	40	0	0	0	0	\$0	\$0	0	+
Opacity Opacity	70	Ψΰ		ΨΟ	-	70	-			·	Ψ0	40		+
	10	\$0	00	\$43,100		10			_		\$0	\$0	0	+
a) initial	10		\$0		1	10	0	0	0	0				\perp
b) annual	10	\$0	\$0	\$14,700	1	10	0	0	0	0	\$0	\$0	0	\perp
PM (only sources greater than 250 mmBtu/hr)														
a) initial	10	\$0	\$0	\$158,000	1	10	0	0	0	0	\$0	\$0	0	
b) annual	10	\$0	\$0	\$56,100	1	10	0	0	0	0	\$0	\$0	0	
02														
a) initial	10	\$0	\$0	\$8,523	1	10	0	0	0	0	\$0	\$0	0	+
b) annual	10	\$0	\$0	\$1,436	1	10	0	0	0	0	\$0	\$0	0	+
,	10	Ψυ	Ψ0	Ψ1,400	-	10				·	ΨΟ	40		+
Scrubber System Monitoring and Operation (for units with wet scrubbers)														
a) initial	10	\$0	\$0	\$24,300	1	10	0	0	0	0	\$0	\$0	0	+-1
		\$0	\$0	\$5,600							\$0	\$0		+
b) annual	10	\$0	\$0	\$5,600	1	10	0	0	0	0	\$0	\$0	0	+
Bag Leak Detection System Operation (sources that have fabric filters)														
a) initial	10	\$0	\$0	\$25,500	1	10	0	0	0	0	\$0	\$0	0	+
b) annual	10	\$0	\$0	\$9,700	1	10	0	0	0	0	\$0	\$0	0	+-
,	10	ΦU	ΨU	\$9,700	1	10	U	U	U	U	ΦU	\$0		+
Carbon Injection Monitoring System (all sources that use ACI to control Hg)														
a) initial	10	\$0	\$0	\$115,000	1	10	0	0	0	0	\$0	\$0	0	+-
b) annual	10	\$0	\$0	\$9,700	1	10	0	0	0	0	\$0	\$0	0	+
C. Create Information	na	40	Ψ0	Ψ5,700		10	,		-		Ψ0	Ψ0		+
D. Gather Information														+-
	na													+
E. Report Preparation		40	40	**							**	**		+
Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	
Notification of Compliance Status	8	\$0	\$0	\$0	1	8	0	0	0	0	\$0	\$0	0	
Semi-annual Compliance Report	20	\$0	\$0	\$0	2	40	0	0	0	0	\$0	\$0	0	
Reporting Subtotal								0	0	0	\$0	\$0	0	
Recordkeeping Requirements														\Box
A. Read Instructions	Included in 3a													1
B. Implement Activities	na							1	1					1
C. Develop Record System	na													+
D. Record Information	110													+
		40	40	**							40			+
Records of Operating Parameter Values	20	\$0	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	+
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	\$0	1	15	0	0	0	0	\$0	\$0	0	
Records of Stack Tests	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	1
Records of Monitoring Device Calibrations	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	1
5) Records of All Compliance Reports Submitted	2	\$0	\$0	\$0	2	4	0	0	0	0	\$0	\$0	0	1
6) Records of Monthly Fuel Use	0.5	\$0	\$0	\$0	12	6	0	0	0	0	\$0	\$0	0	+
E. Personnel Training	40	\$0	\$0	\$0	12	40	0	0	0	0	\$0	\$0	0	+
		φυ	ΨU	φU	-	40	U	U	U	U	Φ∪	Φ0		+
F. Time for Audits	na										#2	#2		+
Recordkeeping Subtotal								0	0	0	\$0	\$0	0	
Totals					1			0	0	0	\$0	\$0	0	1
														-

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

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

	n nazaruous i	All Pollulant	(INESHAP) I	OI IIIUUSIII	al, Commercia	u, anu msut	utional boller	5 - rear 1,	New Lary	e Liquiu rue	UIIILS			
Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Certified Energy Audit Cost per Occurrence	(C) Stack Testing and Fuel Analysis Cost Per Occurrence	(D) Other Non-Labor Costs Per Occurrence	(E) Number of Occurrences Per Respondent Per Year	(F) Technical Hours per Respondent Per Year (A X E)	(G) Number of Respondents Per Year	(H) Technical Hours per Year @ \$98.20 (F X G)	(I) Clerical Hours per Year @ \$48.53 (H X 0.1)	(J) Management Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non- Labor Capital Costs Per Year [(B+C+D)xExG]	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
Surveys and Studies	na													
3. Reporting Requirements	IIα													-
A. Read and Understand Rule Requirements	40	\$0	\$0	\$0		40		80	_		\$8,702	\$0	_	
	40	ΦU	ΦU	Φ0	1	40	2	80	8	4	Φ0,702	ΦU	0	а
B. Required Activities										_				.
Initial Stack Test and Report (for PM)	12	\$0	\$5,000	\$0	1	12	3	36	4	2	\$3,916	\$15,000	0	a,h
Initial Stack Test and Report (for Hg)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	a
Initial Stack Test and Report (for HCI)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	а
Initial Stack Test and Report (for CO)	12	\$0	\$7,000	\$0	1	12	4	48	5	2	\$5,221	\$28,000	0	а
Initial Stack Test and Report (for D/F)	12	\$0	\$16,000	\$0	1	12	4	48	5	2	\$5,221	\$64,000	0	а
Annual Stack Test and Report (for PM)	12	\$0	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	0	a,j
Annual Stack Test and Report (for Hg)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	a,j
Annual Stack Test and Report (for HCl)	12	\$0	\$8,000	\$0	1	12	0	0	0	ő	\$0	\$0	0	a,j
Annual Stack Test and Report (for CO)	12	\$0	\$7,000	\$0	1	12	0	0	0	0	\$0	\$0	0	a,j
	12	\$0	\$16,000	\$0	1	12	0	0		0	\$0	\$0	0	
Annual Stack Test and Report (for D/F)	12	\$0	\$16,000	\$0	1	12	U	U	0	U	\$0	\$0	U	a,j
11. Repeat Stack Test and Report if Switch Fuels			***		_			1 .			l	4.0	1	١.
(for Hg and HCI)	24	\$0	\$16,000	\$0	1	24	0	0	0	0	\$0	\$0	0	c,k
 Initial Fuel Analysis for Mercury and HCL Content 	5	\$0	\$400	\$0	1	5	4	20	2	1	\$2,176	\$1,600	0	a,g
 Monthly Fuel Analysis for Mercury and HCL Content 	5	\$0	\$400	\$0	12	60	0	0	0	0	\$0	\$0	0	a,g
14. Continuous Parameter Monitoring														
Establish Site-specific monitoring plan (all)	40	\$0		\$0	1	40	2	80	8	4	\$8,702	\$0	0	а
Opacity											,		0	
a) initial	10	\$0	\$0	\$43,100	1	10	0	0	0	0	\$0	\$0	0	а
b) annual	10	\$0	\$0	\$14,700	1	10	0	0	0	0	\$0	\$0	0	a
PM (only sources greater than 250 mmBtu/hr)	10	ΦU	Φ0	\$14,700	1	10	U	U	U	U	ΦU	Φυ		a
	4.0		40	*****		4.0		- 10			** ***	*****		-
a) initial	10	\$0	\$0	\$158,000	1	10	1	10	1	1	\$1,088	\$158,000	0	a,c
b) annual	10	\$0	\$0	\$56,100	1	10	1	10	1	1	\$1,088	\$56,100	0	a,c
O2														
a) initial	10	\$0	\$0	\$8,523	1	10	4	40	4	2	\$4,351	\$34,092	0	a
b) annual	10	\$0	\$0	\$1,436	1	10	4	40	4	2	\$4,351	\$5,744	0	а
Scrubber System Monitoring and Operation (for units with wet scrubbers)														
a) initial	10	\$0	\$0	\$24,300	1	10	4	40	4	2	\$4,351	\$97,200	0	а
b) annual	10	\$0	\$0	\$5,600	1	10	4	40	4	2	\$4,351	\$22,400	0	а
Bag Leak Detection System Operation				10,000	_			- 12	-		- 1,000	7,		
(sources that have fabric filters)													(
a) initial	10	\$0	\$0	\$25,500	1	10	2	20	2	1	\$2.176	\$51.000	0	а
	10	\$0	\$0	\$9,700	1		2		2		\$2,176	\$19,400	0	
b) annual	10	\$0	\$0	\$9,700	1	10		20		1	\$2,176	\$19,400	U	a
Carbon Injection Monitoring System													(
(all sources that use ACI to control Hg)														
a) initial	10	\$0	\$0	\$115,000	1	10	3	30	3	2	\$3,263	\$345,000	0	а
b) annual	10	\$0	\$0	\$9,700	1	10	3	30	3	2	\$3,263	\$29,100	0	а
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	2	4	0	0	\$435	\$0	2	а
Notification of Compliance Status	8	\$0	\$0	\$0	1	8	2	16	2	1	\$1.740	\$0	2	a
Semi-annual Compliance Report	20	\$0	\$0	\$0	2	40	2	80	8	4	\$8,702	\$0	4	a
Reporting Subtotal	20	Ψ0	40	- 40	-	40		692	69	35	\$75,274	\$926,636	8	и
	+	 						092	69	35	Φ13,214	⊅920,030	0	₩
Recordkeeping Requirements	be about 11 C													-
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	80	8	4	\$8,702	\$0	0	а
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	\$0	1	15	4	60	6	3	\$6,527	\$0	0	а
Records of Stack Tests	2	\$0	\$0	\$0	1	2	4	8	1	0	\$870	\$0	0	а
Records of Stack Tests Records of Monitoring Device Calibrations	2	\$0	\$0	\$0	1	2	4	8	1	0	\$870	\$0	0	a
5) Records of Monitoring Device Calibrations 5) Records of All Compliance Reports Submitted	2	\$0	\$0	\$0	2	4	4	16		1	\$1,740	\$0 \$0	0	
									2	_				a
6) Records of Monthly Fuel Use	0.5	\$0	\$0	\$0	12	6	4	24	2	1	\$2,611	\$0	0	a,g
E. Personnel Training	40	\$0	\$0	\$0	1	40	2	80	8	4	\$8,702	\$0	0	i
F. Time for Audits	na								l					
Recordkeeping Subtotal								276	28	14	\$30,023	\$0		
Totals								968	97	48	\$105,297	\$926,636	8	
	1			-	·					~				

a. The total number of new large liquid fuel boilers estimated in the first 3 years of this rule is 10. In order to calculate a per year estimate of the number of boilers required to meet these rule requirements, the number of projected boilers is divided by 3, or 3 boilers per year, in the first year 4 new boilers are projected. 4 new facilities will be subject in the first 3 years. It is assumed that 2 facilities will report in in year 1, and 1 facility per year in years 2 and 3. b A one-time requirement.

d Cost per occurrence for energy audit professionals including an phone screening to discuss the facility prior to a visit, a 2 to 4 hour site visit, and an additional 2-4 hours to prepare a follow-up report on recommendations and findings. These site visits are assumed to be conducted by certified energy professionals. Based on the distribution projected new fuel consumption, 75% of facilities are in the commercial sector while the remaining 25% of facilities are in the industrial sector. It is assumed that one of the five facilities will be at an industrial facility.

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

e Assumes facility must already maintain records on boiler insurance and/or maintenance schedule. No new record system would be required. g New large liquid units are expected to determine compliance through fuel analysis not stack testing

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

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

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

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

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

	for Hazardous	Air Pollutant	ts (NESHAP)	for Industri	al, Commerci	al, and Institu	utional Boilers	- Year 2,	New Larg	e Liquid Fue	Units			
Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Certified Energy Audit Cost per Occurrence	(C) Stack Testing and Fuel Analysis Cost Per Occurrence	(D) Other Non-Labor Costs Per Occurrence	(E) Number of Occurrences Per Respondent Per Year	(F) Technical Hours per Respondent Per Year (A X E)	(G) Number of Respondents Per Year	(H) Technical Hours per Year @ \$98.20 (F X G)	(I) Clerical Hours per Year @ \$48.53 (H X 0.1)	(J) Management Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non- Labor Capital Costs Per Year [(B+C+D)xExG]	(M) Total Number of Responses per Year (E X G)	Footnotes
Applications	na													$\overline{}$
Surveys and Studies	na													
Reporting Requirements														-
Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	1	40	4	2	\$4,351	\$0	0	a
B. Required Activities											. ,			
Initial Stack Test and Report (for PM)	12	\$0	\$5,000	\$0	1	12	3	36	4	2	\$3,916	\$15,000	0	a,h
Initial Stack Test and Report (for Hg)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	a
Initial Stack Test and Report (for HCl)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	a
Initial Stack Test and Report (for CO)	12	\$0	\$7,000	\$0	1	12	3	36	4	2	\$3.916	\$21,000	0	a
Initial Stack Test and Report (for D/F)	12	\$0	\$16,000	\$0	1	12	3	36	4	2	\$3,916	\$48,000	0	a
Annual Stack Test and Report (for PM)	12	\$0	\$5,000	\$0	1	12	3	36	4	2	\$3,916	\$15,000	0	a,j
Annual Stack Test and Report (for Hg)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	a,j
Annual Stack Test and Report (for HCl)	12	\$0	\$8,000	\$0	1	12	0	0	0	ő	\$0	\$0	Ö	a,j
Annual Stack Test and Report (for CO)	12	\$0	\$7,000	\$0	1	12	4	48	5	2	\$5,221	\$28,000	0	a,j
Annual Stack Test and Report (for D/F)	12	\$0	\$16,000	\$0	1	12	4	48	5	2	\$5,221	\$64,000	0	a,j
Repeat Stack Test and Report if Switch Fuels (for Hg and HCI)	24	\$0	\$16,000	\$0	1	24	0	0	0	0	\$0	\$0	0	c,k
12. Initial Fuel Analysis for Mercury and HCL Content	5	\$0	\$400	\$0	1	5	3	15	2	1	\$1,632	\$1,200	0	a,g
Monthly Fuel Analysis for Mercury and HCL Conter		\$0	\$400	\$0	12	60	4	240	24	12	\$26,107	\$19,200	0	a,g
Continuous Parameter Monitoring	. , ,	40	\$.00	1		- 50	-	2.40			\$20,101	\$10,200	_ <u> </u>	+ w,y
Establish Site-specific monitoring plan (all)	40	\$0		\$0	1	40	1	40	4	2	\$4,351	\$0	0	a
Opacity	40	Ψ0		Ψ0	-	40	-	40	7		Ψ4,551	Ψ0	0	+ "
a) initial	10	\$0	\$0	\$43,100	1	10	0	0	0	0	\$0	\$0	0	a
b) annual	10	\$0	\$0	\$14,700	1	10	0	0	0	0	\$0	\$0	0	a
PM (only sources greater than 250 mmBtu/hr)	10	Ψ0	ΨΟ	Ψ14,700	-	10	-		-	-	ΨΟ	ΨΟ	, ·	+4
a) initial	10	\$0	\$0	\$158,000	1	10	0	0	0	0	\$0	\$0	0	a,c
b) annual	10	\$0	\$0	\$56,100	1	10	1	10	1	1	\$1,088	\$56,100	0	a,c
02	10	40	40	400,100	-	- 10	-	10	-	-	\$2,000	400,100		4,0
a) initial	10	\$0	\$0	\$8,523	1	10	3	30	3	2	\$3,263	\$25,569	0	a
b) annual	10	\$0	\$0	\$1,436	1	10	7	70	7	4	\$7,614	\$10,052	0	a
Scrubber System Monitoring and Operation (for units with wet scrubbers)											. ,:	,		
a) initial	10	\$0	\$0	\$24,300	1	10	3	30	3	2	\$3,263	\$72,900	0	a
b) annual	10	\$0	\$0	\$5,600	1	10	7	70	7	4	\$7,614	\$39,200	0	a
Bag Leak Detection System Operation (sources that have fabric filters)														
a) initial	10	\$0	\$0	\$25,500	1	10	1	10	1	1	\$1,088	\$25,500	0	a
b) annual	10	\$0	\$0	\$9,700	1	10	3	30	3	2	\$3,263	\$29,100	0	a
Carbon Injection Monitoring System (all sources that use ACI to control Hg)				,							,	,		
a) initial	10	\$0	\$0	\$115,000	1	10	3	30	3	2	\$3,263	\$345,000	0	a
b) annual	10	\$0	\$0	\$9,700	1	10	6	60	6	3	\$6,527	\$58,200	0	a
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	1	2	0	0	\$218	\$0	1	a
Notification of Compliance Status	8	\$0	\$0	\$0	1	8	1	8	1	0	\$870	\$0	1	a
Semi-annual Compliance Report	20	\$0	\$0	\$0	2	40	3	120	12	6	\$13,053	\$0	6	a
Reporting Subtotal								1,045	105	52	\$113,672	\$873,021	8	
Recordkeeping Requirements														
A. Read Instructions	Included in 3a					1								+-
B. Implement Activities	na					1								+-
C. Develop Record System	na					-								е
D. Record Information											******			+
Records of Operating Parameter Values	20	\$0	\$0	\$0	1	20	7	140	14	7	\$15,229	\$0	0	a
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	\$0	1	15	7	105	11	5	\$11,422	\$0	0	a
Records of Stack Tests	2	\$0	\$0	\$0	1	2	7	14	1	1	\$1,523	\$0	0	a
Records of Monitoring Device Calibrations	2	\$0	\$0	\$0	1	2	7	14	1	1	\$1,523	\$0	0	a
5) Records of All Compliance Reports Submitted	2	\$0	\$0	\$0	2	4	7	28	3	1	\$3,046	\$0	0	a
6) Records of Monthly Fuel Use	0.5	\$0	\$0	\$0	12	6	7	42	4	2 2	\$4,569	\$0	0	a,g
E. Personnel Training F. Time for Audits	40	\$0	\$0	\$0	1	40	1	40	4		\$4,351	\$0	0	+-
Recordkeeping Subtotal	na					1		383	38	19	\$41,662	\$0	0	+
	+					 								+
Totals	1	l	l	L		1		1,428	143	71	\$155,334	\$873,021	8	لــــــــــــــــــــــــــــــــــــــ

a The total number of new large liquid fuel boilers estimated in the first 3 years of this rule is 10. In order to calculate a per year estimate of the number of boilers required to meet these rule requirements, the number of projected boilers is divided by 3, or 3 boilers per year, in the first year 4 new boilers are projected. 4 new facilities will be subject in the first 3 years. It is assumed that 2 facilities will report in in year 1, and 1 facility per year in years 2 and 3.

b Energy audits are not required for new sources.

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

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

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

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

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

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

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

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

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

	for Hazardous	Air Pollutant	ts (NESHAP)	for Industr	al, Commerci	al, and Insti	tutional Boile	rs - Year 3	, New Lar	ge Liquid Fu	el Units			
Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Certified Energy Audit Cost per Occurrence	(C) Stack Testing and Fuel Analysis Cost Per Occurrence	(D) Other Non-Labor Costs Per Occurrence	(E) Number of Occurrences Per Respondent Per Year	(F) Technical Hours per Respondent Per Year (A X E)	(G) Number of Respondents Per Year	(H) Technical Hours per Year @ \$98.20 (F X G)	(I) Clerical Hours per Year @ \$48.53 (H X 0.1)	(J) Management Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non- Labor Capital Costs Per Year [(B+C+D)xExG]	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na					()		,	,			[()		
2. Surveys and Studies	na													
Reporting Requirements														
Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	1	40	4	2	\$4,351	\$0	0	а
B. Required Activities														
Initial Stack Test and Report (for PM)	12	\$0	\$5,000	\$0	1	12	3	36	4	2	\$3,916	\$15,000	0	a,h
Initial Stack Test and Report (for Hg)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	а
Initial Stack Test and Report (for HCI)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	a
Initial Stack Test and Report (for CO)	12	\$0	\$7,000	\$0	1	12	3	36	4	2	\$3,916	\$21,000	0	a
Initial Stack Test and Report (for D/F)	12	\$0	\$16,000	\$0	1	12	3	36	4	2	\$3,916	\$48,000	0	a
Annual Stack Test and Report (for PM)	12	\$0	\$5,000	\$0	1	12	6	72	7	4	\$7,832	\$30,000	0	a,j
Annual Stack Test and Report (for Hg)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	a,j
Annual Stack Test and Report (for HCI)	12 12	\$0	\$8,000	\$0	1	12	7	0	0	0	\$0	\$0	0	a,j
Annual Stack Test and Report (for CO) Annual Stack Test and Report (for D/F)	12	\$0 \$0	\$7,000 \$16,000	\$0 \$0		12 12	7	84 84	8	4	\$9,137 \$9,137	\$49,000 \$112,000	0	a,j
	12	Φ0	\$10,000	ΦU	1	12	- /	04	8	4	\$9,137	\$112,000	U	a,j
Repeat Stack Test and Report if Switch Fuels (for Hg and HCI)	24	\$0	\$16,000	\$0	1	24	0	0	0	0	\$0	\$0	0	c,k
12. Initial Fuel Analysis for Mercury and HCL Content	5	\$0	\$400	\$0	1	5	3	15	2	1	\$1,632	\$1,200	0	a,g
Monthly Fuel Analysis for Mercury and HCL Conter	nt 5	\$0	\$400	\$0	12	60	/	420	42	21	\$45,687	\$33,600	0	a,g
14. Continuous Parameter Monitoring Establish Site-specific monitoring plan (all)	40	\$0		\$0	1	40	1	40	4	2	\$4,351	\$0	0	a
Opacity Opacity	40	Φ0		\$0	1	40	1	40	4		\$4,351	20	0	a
a) initial	10	\$0	\$0	\$43,100	1	10	0	0	0	0	\$0	\$0	0	a
b) annual	10	\$0	\$0	\$14,700	1	10	0	0	0	0	\$0	\$0	0	a
PM (only sources greater than 250 mmBtu/hr)	10	Ψ0	ΨΟ	Ψ14,700		10					ΨΟ	ΨΟ		- u
a) initial	10	\$0	\$0	\$158,000	1	10	0	0	0	0	\$0	\$0	0	a,c
b) annual	10	\$0	\$0	\$56,100	1	10	1	10	1	1	\$1,088	\$56,100	0	a,c
O2				,							. ,	,		
a) initial	10	\$0	\$0	\$8,523	1	10	3	30	3	2	\$3,263	\$25,569	0	а
b) annual	10	\$0	\$0	\$1,436	1	10	10	100	10	5	\$10,878	\$14,360	0	a
Scrubber System Monitoring and Operation (for units with wet scrubbers)														
a) initial	10	\$0	\$0	\$24,300	1	10	3	30	3	2	\$3,263	\$72,900	0	a
b) annual	10	\$0	\$0	\$5,600	1	10	10	100	10	5	\$10,878	\$56,000	0	a
Bag Leak Detection System Operation (sources that have fabric filters)														
a) initial	10	\$0	\$0	\$25,500	1	10	1	10	1	1	\$1,088	\$25,500	0	a
b) annual	10	\$0	\$0	\$9,700	1	10	4	40	4	2	\$4,351	\$38,800	0	a
Carbon Injection Monitoring System (all sources that use ACI to control Hg)														
a) initial	10	\$0	\$0	\$115,000	1	10	2	20	2	1	\$2,176	\$230,000	0	a
b) annual	10	\$0	\$0	\$9,700	1	10	8	80	8	4	\$8,702	\$77,600	0	а
C. Create Information	na													
D. Gather Information	na													_
E. Report Preparation		***	**			-			_		****	**	-	-
Initial Notification that Source is Subject Notification of Compliance Status	2 8	\$0 \$0	\$0 \$0	\$0 \$0	1	2 8	1	2 8	0	0	\$218 \$870	\$0 \$0	1	a
Notification of Compliance Status Semi-annual Compliance Report	20	\$0	\$0 \$0	\$0	2	40	4	160	16	8	\$870 \$17.404	\$0 \$0	8	a
Reporting Subtotal	20	φU	φU	ΨU		40	-	1,453	145	73	\$17,404	\$906,629	10	- a
Recordkeeping Requirements								1,700	140	13	\$130,034	ψ300,023	10	<u> </u>
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na						1				1			е
D. Record Information														
Records of Operating Parameter Values	20	\$0	\$0	\$0	1	20	10	200	20	10	\$21,756	\$0	0	а
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	\$0	1	15	10	150	15	8	\$16,317	\$0	0	а
Records of Stack Tests	2	\$0	\$0	\$0	1	2	10	20	2	1	\$2,176	\$0	0	a
Records of Monitoring Device Calibrations	2	\$0	\$0	\$0	1	2	10	20	2	1	\$2,176	\$0	0	а
5) Records of All Compliance Reports Submitted	2	\$0	\$0	\$0	2	4	10	40	4	2	\$4,351	\$0	0	a
6) Records of Monthly Fuel Use	0.5	\$0	\$0	\$0	12	6	10	60	6	3	\$6,527	\$0	0	a,g
E. Personnel Training	40	\$0	\$0	\$0	1	40	1	40	4	2	\$4,351	\$0	0	-
F. Time for Audits	na					1		530	53	27	\$57,652	\$0	0	_
Recordkeeping Subtotal	-					1								-
Totals		l		l			l	1,983	198	99	\$215,706	\$906,629	10	

a The total number of new large liquid fuel boilers estimated in the first 3 years of this rule is 10. In order to calculate a per year estimate of the number of boilers required to meet these rule requirements, the number of projected boilers is divided by 3, or 3 boilers per year, in the first year 4 new boilers are projected. 4 new facilities will be subject in the first 3 years. It is assumed that 2 facilities will report in in year 1, and 1 facility per year in years 2 and 3.

b Energy audits are not required for new sources.

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

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

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

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

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

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

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

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

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

Burden Item 1. Applications 2. Surveys and Studies 3. Reporting Requirements A. Read and Understand Rule Requirements B. Required Activities 1. Initial Stack Test and Report (for PM) 2. Initial Stack Test and Report (for Hg) 3. Initial Stack Test and Report (for HC) 4. Initial Stack Test and Report (for DF) 6. Annual Stack Test and Report (for DF) 6. Annual Stack Test and Report (for PM) 7. Annual Stack Test and Report (for HC) 9. Annual Stack Test and Report (for DF) 10. Annual Stack Test and Report (for DF) 11. Repeat Stack Test and Report (for DF) 12. Initial Fuel Analysis for Mercury and HCL Content (Content Content Content Stack Test and Report (for DF) 14. Continuous Parameter Monitoring Establish Ste-specific monitoring plan (all) Opacity a) initial b) annual PM (only sources greater than 250 mmBtu/hr) a) initial b) annual O2 a) initial b) annual	(A) Respondent Hours per (Technical hours) na na 12 12 12 12 12 12 12 12 12 12 12 15 5 5	(B) Certified Energy Audit Cost per Occurrence \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	(C) Stack Testing and Fuel Analysis Cost Per Occurrence \$0 \$5,000 \$8,000 \$7,000 \$16,000 \$8,000 \$8,000 \$7,000 \$16,000 \$16,000 \$16,000 \$16,000 \$16,000 \$16,000 \$16,000 \$16,000 \$16,000 \$16,000 \$16,000 \$16,000 \$16,000 \$16,000	(D) Other Non-Labor Costs Per Occurrence \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	(E) Number of Occurrences Per Respondent Per Year 1 1 1 1 1 1 1	(F) Technical Hours per Respondent Per Year (A X E) 40 12 12	(G) Number of Respondents Per Year	(H) Technical Hours per Year @ \$98.20 (F X G)	(I) Clerical Hours per Year @ \$48.53 (H X 0.1)	(J) Management Hours per Year @ \$114.49 (H X.05)	(K) Total Labor Costs Per Year \$4,351	(L) Total Non- Labor Capital Costs Per Year [(B+C+D)xExG]	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications 2. Surveys and Studies 3. Reporting Requirements A. Read and Understand Rule Requirements B. Required Activities 1. Initial Stack Test and Report (for PM) 2. Initial Stack Test and Report (for Hg) 3. Initial Stack Test and Report (for HC) 4. Initial Stack Test and Report (for HC) 5. Initial Stack Test and Report (for DF) 6. Annual Stack Test and Report (for DF) 7. Annual Stack Test and Report (for PM) 7. Annual Stack Test and Report (for Mg) 8. Annual Stack Test and Report (for DF) 10. Annual Stack Test and Report (for DF) 11. Repeat Stack Test and Report (for DF) 12. Initial Fuel Analysis for Mercury and HCL Content Content Content 14. Continuous Parameter Monitoring Establish Site-specific monitoring plan (all) Opacity a) initial b) annual PM (only sources greater than 250 mmBtu/hr) a) initial b) annual O2 a) initial b) annual Scrubber System Monitoring and Operation	na na na 40	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$5,000 \$8,000 \$8,000 \$7,000 \$5,000 \$8,000 \$7,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	1 1 1 1 1	40 12 12	1 0	40	4	2	\$4,351			
2. Surveys and Studies 3. Reporting Requirements A. Read and Understand Rule Requirements B. Required Activities 1. Initial Stack Test and Report (for PM) 2. Initial Stack Test and Report (for Hg) 3. Initial Stack Test and Report (for HG) 4. Initial Stack Test and Report (for HG) 5. Initial Stack Test and Report (for DF) 6. Annual Stack Test and Report (for DF) 7. Annual Stack Test and Report (for DF) 9. Annual Stack Test and Report (for PM) 7. Annual Stack Test and Report (for HG) 10. Annual Stack Test and Report (for HG) 11. Repeat Stack Test and Report (for HG) 12. Initial Fuel Analysis for Mercury and HCL Content Content Content 14. Continuous Parameter Monitoring Establish Site-specific monitoring plan (all) Opacity a) initial b) annual PM (only sources greater than 250 mmBtu/hr) a) initial b) annual O2 a) initial b) annual	na 40 12 12 12 12 12 12 12 12 12 12 12 12 5 5	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$5,000 \$8,000 \$8,000 \$7,000 \$16,000 \$5,000 \$8,000 \$8,000 \$7,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	1 1 1	12 12	0					\$0	0	
3. Reporting Requirements A. Read and Understand Rule Requirements B. Required Activities 1. Initial Stack Test and Report (for PM) 2. Initial Stack Test and Report (for Hg) 3. Initial Stack Test and Report (for HG) 4. Initial Stack Test and Report (for CO) 5. Initial Stack Test and Report (for D/F) 6. Annual Stack Test and Report (for PM) 7. Annual Stack Test and Report (for PM) 9. Annual Stack Test and Report (for HG) 19. Annual Stack Test and Report (for HG) 10. Annual Stack Test and Report (for D/F) 11. Repeat Stack Test and Report (for D/F) 12. Initial Fuel Analysis for Mercury and HCL Content (for Hg) and HCl) 12. Initial Fuel Analysis for Mercury and HCL Content (Content Content Content Content (Initial Fuel Analysis (Initial Fuel Analysis Initial Initial PM) (Initial Fuel Analysis (Initial Fuel Analysis Initial	40 12 12 12 12 12 12 12 12 12 12 12 12 15 5	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$5,000 \$8,000 \$8,000 \$7,000 \$16,000 \$5,000 \$8,000 \$8,000 \$7,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	1 1 1	12 12	0					\$0	0	
A. Read and Understand Rule Requirements B. Required Activities 1. Initial Stack Test and Report (for PM) 2. Initial Stack Test and Report (for HC) 3. Initial Stack Test and Report (for HC) 4. Initial Stack Test and Report (for HC) 5. Initial Stack Test and Report (for DF) 6. Annual Stack Test and Report (for DF) 7. Annual Stack Test and Report (for PM) 7. Annual Stack Test and Report (for HC) 9. Annual Stack Test and Report (for HC) 10. Annual Stack Test and Report (for DF) 11. Repeat Stack Test and Report (for DF) 12. Initial Fuel Analysis for Mercury and HCL Content Content 14. Continuous Parameter Monitoring Establish Site-specific monitoring plan (all) Opacity a) initial b) annual PM (only sources greater than 250 mmBtu/hr) a) initial b) annual O2 a) initial b) annual Scrubber System Monitoring and Operation	12 12 12 12 12 12 12 12 12 12 12 12 12 1	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$5,000 \$8,000 \$8,000 \$7,000 \$16,000 \$5,000 \$8,000 \$8,000 \$7,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	1 1 1	12 12	0					\$0	0	
B. Required Activities 1. Initial Stack Test and Report (for PM) 2. Initial Stack Test and Report (for Hg) 3. Initial Stack Test and Report (for Hg) 4. Initial Stack Test and Report (for CO) 5. Initial Stack Test and Report (for CO) 6. Annual Stack Test and Report (for D/F) 6. Annual Stack Test and Report (for PM) 7. Annual Stack Test and Report (for Hg) 8. Annual Stack Test and Report (for Hg) 10. Annual Stack Test and Report (for CO) 11. Annual Stack Test and Report (for CO) 12. Initial Fuel Report (for D/F) 11. Repeat Stack Test and Report (for D/F) 12. Initial Fuel Analysis for Mercury and HCL Content 14. Continuous Parameter Monitoring Establish Site-specific monitoring plan (all) Opacity a) initial b) annual PM (only sources greater than 250 mmBtu/hr) a) initial b) annual O2 a) initial b) annual Scrubber System Monitoring and Operation	12 12 12 12 12 12 12 12 12 12 12 12 12 1	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$5,000 \$8,000 \$8,000 \$7,000 \$16,000 \$5,000 \$8,000 \$8,000 \$7,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	1 1 1	12 12	0					\$0	0	
1. Initial Stack Test and Report (for PM) 2. Initial Stack Test and Report (for Hg) 3. Initial Stack Test and Report (for Hc) 4. Initial Stack Test and Report (for DC) 5. Initial Stack Test and Report (for DF) 6. Annual Stack Test and Report (for DF) 6. Annual Stack Test and Report (for DF) 8. Annual Stack Test and Report (for Hg) 8. Annual Stack Test and Report (for DC) 9. Annual Stack Test and Report (for DC) 10. Annual Stack Test and Report (for DC) 11. Repeat Stack Test and Report (for DC) 12. Initial Fuel Analysis for Mercury and HCL Content Content 14. Continuous Parameter Monitoring Establish Site-specific monitoring plan (all) Opacity a) initial b) annual PM (only sources greater than 250 mmBtu/hr) a) initial b) annual O2 a) initial b) annual C2 a) initial b) annual Scrubber System Monitoring and Operation	12 12 12 12 12 12 12 12 12 12 12 12 5 5	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$8,000 \$8,000 \$7,000 \$16,000 \$5,000 \$8,000 \$8,000 \$7,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0	1 1 1	12		0			١ ,			а
2. Initial Stack Test and Report (for Hg) 3. Initial Stack Test and Report (for HCI) 4. Initial Stack Test and Report (for CO) 5. Initial Stack Test and Report (for CO) 6. Annual Stack Test and Report (for D/F) 6. Annual Stack Test and Report (for PM) 7. Annual Stack Test and Report (for HG) 8. Annual Stack Test and Report (for HCI) 9. Annual Stack Test and Report (for HCI) 10. Annual Stack Test and Report (for D/F) 11. Repeat Stack Test and Report (for D/F) 12. Initial Fuel Analysis for Mercury and HCL Content Content 14. Continuous Parameter Monitoring Establish Site-specific monitoring plan (all) Opacity a) initial b) annual PM (only sources greater than 250 mmBtu/hr) a) initial b) annual O2 a) initial b) annual C2 a) initial b) annual C3 C3 Scrubber System Monitoring and Operation	12 12 12 12 12 12 12 12 12 12 12 12 5 5	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$8,000 \$8,000 \$7,000 \$16,000 \$5,000 \$8,000 \$8,000 \$7,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0	1 1 1	12		0	Λ Ι					
3. Initial Stack Test and Report (for HCl) 4. Initial Stack Test and Report (for CC) 5. Initial Stack Test and Report (for CD) 6. Annual Stack Test and Report (for D/F) 6. Annual Stack Test and Report (for PM) 7. Annual Stack Test and Report (for Hg) 8. Annual Stack Test and Report (for Hg) 9. Annual Stack Test and Report (for D/F) 10. Annual Stack Test and Report (for D/F) 11. Repeat Stack Test and Report (for D/F) 12. Initial Fuel Analysis for Mercury and HCL Content (for Hg and HCl) 14. Continuous Parameter Monitoring Establish Site-specific monitoring plan (all) Opacity a) initial b) annual PM (only sources greater than 250 mmBtu/hr) a) initial b) annual C2 a) initial b) annual C2 a) initial b) annual Scrubber System Monitoring and Operation	12 12 12 12 12 12 12 12 12 12 12 5	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$8,000 \$7,000 \$16,000 \$5,000 \$8,000 \$8,000 \$7,000	\$0 \$0 \$0 \$0 \$0	1					0	\$0	\$0	0	е
4. Initial Stack Test and Report (for CO) 5. Initial Stack Test and Report (for DIF) 6. Annual Stack Test and Report (for PM) 7. Annual Stack Test and Report (for PM) 8. Annual Stack Test and Report (for HCI) 9. Annual Stack Test and Report (for HCI) 10. Annual Stack Test and Report (for HCI) 11. Repeat Stack Test and Report (for DIF) 12. Initial Fuel Analysis for Mercury and HCL Content 14. Continuous Parameter Monitoring Establish Site-specific monitoring plan (all) Opacity a) initial b) annual PM (only sources greater than 250 mmBtu/hr) a) initial b) annual O2 a) initial b) annual O2 a) initial b) annual O2 a) initial b) annual	12 12 12 12 12 12 12 12 12 12 5 5	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$7,000 \$16,000 \$5,000 \$8,000 \$8,000 \$7,000	\$0 \$0 \$0 \$0	1		0	0	0	0	\$0	\$0	0	е
5. Initial Stack Test and Report (for D/F) 6. Annual Stack Test and Report (for PM) 7. Annual Stack Test and Report (for Hg) 8. Annual Stack Test and Report (for Hg) 8. Annual Stack Test and Report (for CO) 9. Annual Stack Test and Report (for CO) 10. Annual Stack Test and Report (for D/F) 11. Repeat Stack Test and Report (for D/F) 12. Initial Fuel Analysis for Mercury and HCL Content (for Hg) and HCl) 12. Initial Fuel Analysis for Mercury and HCL Content (Detection of the Mercury and HCL	12 12 12 12 12 12 12 12 5 5	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$16,000 \$5,000 \$8,000 \$8,000 \$7,000	\$0 \$0 \$0		12	0	0	0	0	\$0	\$0	0	е
6. Annual Stack Test and Report (for PM) 7. Annual Stack Test and Report (for Hg) 8. Annual Stack Test and Report (for Hg) 9. Annual Stack Test and Report (for CO) 10. Annual Stack Test and Report (for DF) 11. Repeat Stack Test and Report (for DF) 12. Initial Fuel Analysis for Mercury and HCL Content Content 14. Continuous Parameter Monitoring Establish Site-specific monitoring plan (all) Opacity a) initial b) annual PM (only sources greater than 250 mmBtu/hr) a) initial b) annual O2 a) initial b) annual O2 a) initial b) annual C2 a) initial b) annual C3 C3 C4 C5 C5 C6 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7	12 12 12 12 12 12 12 5 5	\$0 \$0 \$0 \$0 \$0 \$0	\$5,000 \$8,000 \$8,000 \$7,000	\$0 \$0	1	12	0	0	0	0	\$0	\$0	0	е
7. Annual Stack Test and Report (for Hg) 8. Annual Stack Test and Report (for HCI) 9. Annual Stack Test and Report (for CO) 10. Annual Stack Test and Report (for DF) 11. Repeal Stack Test and Report (for DF) 12. Initial Fuel Analysis for Mercury and HCL Content 14. Continuous Parameter Monitoring Establish Site-specific monitoring plan (all) Opacity a) initial b) annual PM (only sources greater than 250 mmBtu/hr) a) initial b) annual O2 a) initial b) annual C2 a) initial b) annual C2 C3 a) initial C4 C5 C6 C7 C7 C7 C8 C8 C8 C8 C8 C8 C8 C8 C8 C8 C8 C8 C8	12 12 12 12 12 12 5 5	\$0 \$0 \$0 \$0 \$0	\$8,000 \$8,000 \$7,000	\$0		12	0	0	0	0	\$0	\$0	0	е
8. Annual Stack Test and Report (for HCI) 9. Annual Stack Test and Report (for CO) 10. Annual Stack Test and Report (for D/F) 11. Repeat Stack Test and Report (for D/F) 12. Initial Fuel Analysis for Mercury and HCL Content Content 14. Continuous Parameter Monitoring Establish Site-specific monitoring plan (all) Opacity a) initial b) annual PM (only sources greater than 250 mmBtu/hr) a) initial b) annual O2 a) initial b) annual C2 a) initial b) annual C2 a) initial b) annual C3 C3 B1 B1 C4 B1 B1 B1 B1 B1 B1 B1 B1 B1 B1 B1 B1 B1	12 12 12 12 24 5	\$0 \$0 \$0 \$0	\$8,000 \$7,000		1	12	0	0	0	0	\$0	\$0	0	a
9. Annual Stack Test and Report (for CO) 10. Annual Stack Test and Report (for D/F) 11. Repeat Stack Test and Report if Switch Fuels (for Hg and HCI) 12. Initial Fuel Analysis for Mercury and HCL Content 14. Continuous Parameter Monitoring Establish Site-specific monitoring plan (all) Opacity a) initial b) annual PM (only sources greater than 250 mmBtu/hr) a) initial b) annual O2 a) initial b) annual C2 a) initial b) annual C2 C3 C4 C5 C6 C7 C7 C7 C7 C8 C7 C8 C8 C8 C8 C8 C8 C8 C8 C8 C8 C8 C8 C8	12 12 24 5 5	\$0 \$0 \$0	\$7,000		1	12	0	0	0	0	\$0	\$0	0	a
10. Annual Stack Test and Report (for D/F) 11. Repeat Stack Test and Report if Switch Fuels (for Hg and HCl) 12. Initial Fuel Analysis for Mercury and HCL Content Content 14. Continuous Parameter Monitoring Establish Site-specific monitoring plan (all) Opacity a) initial b) annual PM (only sources greater than 250 mmBtu/hr) a) initial b) annual O2 a) initial b) annual O2 a) initial b) annual Scrubber System Monitoring and Operation	12 24 5 5	\$0 \$0		\$0	1	12	0	0	0	0	\$0	\$0	0	а
10. Annual Stack Test and Report (for D/F) 11. Repeat Stack Test and Report if Switch Fuels (for Hg and HCl) 12. Initial Fuel Analysis for Mercury and HCL Content Content 14. Continuous Parameter Monitoring Establish Site-specific monitoring plan (all) Opacity a) initial b) annual PM (only sources greater than 250 mmBtu/hr) a) initial b) annual O2 a) initial b) annual O2 a) initial b) annual Scrubber System Monitoring and Operation	12 24 5 5	\$0 \$0		\$0	1	12	0	0	0	0	\$0	\$0	0	а
11. Repeat Stack Test and Report if Switch Fuels (for Hg and HCl) 12. Initial Fuel Analysis for Mercury and HCL Content Content 14. Continuous Parameter Monitoring Establish Site-specific monitoring plan (all) Opacity a) initial b) annual PM (only sources greater than 250 mmBtu/hr) a) initial b) annual O2 a) initial b) annual O2 a) initial c) anual CO2 a) initial c) anual CO3 CO3 CO3 CO4 CO4 CO5 CO5 CO5 CO5 CO5 CO5 CO5 CO5 CO5 CO5	24 5 5	\$0		\$0	1	12	0	0	0	0	\$0	\$0	0	a
(for Hg and HCI) 12. Initial Fuel Analysis for Mercury and HCL Content 14. Continuous Parameter Monitoring Establish Site-specific monitoring plan (all) Opacity a) initial b) annual PM (only sources greater than 250 mmBtu/hr) a) initial b) annual O2 a) initial b) annual O2 3 initial b) annual C2 A initial C3 Scrubber System Monitoring and Operation	5 5		420,000							-				<u> </u>
12. Initial Fuel Analysis for Mercury and HCL Content Content 14. Continuous Parameter Monitoring Establish Site-specific monitoring plan (all) Opacity a) initial b) annual PM (only sources greater than 250 mmBtu/hr) a) initial b) annual O2 a) initial b) annual O2 a) initial b) annual Scrubber System Monitoring and Operation	5 5		\$21,000	\$0	1	24	0	0	0	0	\$0	\$0	0	a,e
Content 14. Continuous Parameter Monitoring Establish Site-specific monitoring plan (all) Opacity a) initial b) annual PM (only sources greater than 250 mmBtu/hr) a) initial b) annual O2 a) initial b) annual Scrubber System Monitoring and Operation	5		\$400	\$0	1	5	0	0	0	0	\$0	\$0	0	a,e
14. Continuous Parameter Monitoring Establish Site-specific monitoring plan (all) Opacity a) initial b) annual PM (only sources greater than 250 mmBtu/hr) a) initial b) annual O2 a) initial b) annual C2 a) initial b) annual Scrubber System Monitoring and Operation		\$0	\$400	\$0	12	60	0	0	0	0	\$0	\$0	0	a,i
Establish Site-specific monitoring plan (all) Opacity a) initial b) annual PM (only sources greater than 250 mmBtu/hr) a) initial b) annual O2 a) initial b) annual Scrubber System Monitoring and Operation	40	\$∪	\$400	ΦU	12	60	U	U	U	U	Φ0	⊅ 0	<u> </u>	a,ı
Opacity a) initial b) annual PM (only sources greater than 250 mmBtu/hr) a) initial b) annual O2 a) initial b) annual C2 a) initial b) annual Scrubber System Monitoring and Operation	40					40		_	_		- 00		⊢	<u> </u>
a) initial b) annual PM (only sources greater than 250 mmBtu/hr) a) initial b) annual O2 a) initial b) annual Scrubber System Monitoring and Operation		\$0		\$0	1	40	0	0	0	0	\$0	\$0	0	a
b) annual PM (only sources greater than 250 mmBtu/hr) a) initial b) annual O2 a) initial b) annual Scrubber System Monitoring and Operation														
PM (only sources greater than 250 mmBtu/hr) a) initial b) annual O2 a) initial b) annual c) mulai c) m	10	\$0	\$0	\$43,100	1	10	0	0	0	0	\$0	\$0	0	a
a) initial b) annual O2 a) initial b) annual Scrubber System Monitoring and Operation	10	\$0	\$0	\$14,700	1	10	0	0	0	0	\$0	\$0	0	a
b) annual O2 a) initial b) annual Scrubber System Monitoring and Operation														
O2 a) initial b) annual Scrubber System Monitoring and Operation	10	\$0	\$0	\$158,000	1	10	0	0	0	0	\$0	\$0	0	a
a) initial b) annual Scrubber System Monitoring and Operation	10	\$0	\$0	\$56,100	1	10	0	0	0	0	\$0	\$0	0	а
a) initial b) annual Scrubber System Monitoring and Operation											·			
b) annual Scrubber System Monitoring and Operation	10	\$0	\$0	\$8,523	1	10	0	0	0	0	\$0	\$0	0	a
Scrubber System Monitoring and Operation	10	\$0	\$0	\$1,436	1	10	0	0	0	0	\$0	\$0	0	а
Scrubber System Monitoring and Operation		40	40	Ψ2,100	-	10	Ů			·		40	_ <u> </u>	
(for units with wet scrubbers)											1 '			1
a) initial	10	\$0	\$0	\$24,300	1	10	0	0	0	0	\$0	\$0	0	a
b) annual	10	\$0	\$0	\$5,600	1	10	0	0	0	0	\$0	\$0	0	
	10	ΦU	Φ0	\$5,000	1	10	U	0	0	U	Φ0	⊅ 0	U -	a
Bag Leak Detection System Operation											1			1
(sources that have fabric filters)	10	**	**	#0F F00		10	_	_	_					-
a) initial	10	\$0	\$0	\$25,500	1	10	0	0	0	0	\$0	\$0	0	а
b) annual	10	\$0	\$0	\$9,700	1	10	0	0	0	0	\$0	\$0	0	a
15. Annual Tune-up	12	\$0	\$2,875	\$0	1	12	3	36	4	2	\$3,916	\$8,625	0	С
16. Mercury and H2S Fuel Spec Analysis	10	\$0	\$400	\$0	1	10	0	0	0	0	\$0	\$0	0	h
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	1	2	0	0	\$218	\$0	1	а
Notification of Compliance Status	8	\$0	\$0	\$0	1	8	1	8	1	0	\$870	\$0	1	а
3) Annual Compliance Report	20	\$0	\$0	\$0	1	20	3	60	6	3	\$6,527	\$0	3	a, e
4) Semi-annual Compliance Report	20	\$0	\$0	\$0	2	40	0	0	0	0	\$0	\$0	0	a, e
5) Notification of Alternative Fuel Use	5	\$0	\$0	\$0	1	5	1	5	1	0	\$544	\$0	1	i
Reporting Subtotal								146	15	7	\$15.882	\$8.625	5	
Recordkeeping Requirements										·	,	,	 	
	ncluded in 3a												\vdash	
B. Implement Activities	na na												\vdash	<u> </u>
C. Develop Record System	na na			-									\vdash	d
D. Record Information	Πα										<u> </u>			u
										_				-
Records of Operating Parameter Values	20	\$0	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	a
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	\$0	1	15	0	0	0	0	\$0	\$0	0	а
Records of Stack Tests	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	а
Records of Monitoring Device Calibrations	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	а
Submitted	2	\$0	\$0	\$0	2	4	3	12	1	1	\$1,305	\$0	0	a, e
Records of All Semi-Annual Compliance Reports Submitted	2	\$0	\$0	\$0	2	4	0	0	0	0	\$0	\$0	0	a. e
7) Records of Monthly Fuel Use	0.5	\$0	\$0	\$0	12	6	3	18	2	1	\$1,958	\$0	0	a, e
8) Records of Annual Tune-up	0.5	\$0	\$0	\$0	12	0.25	3	18	0	0	\$1,958	\$0	3	
														С
E. Personnel Training	40	\$0	\$0	\$0	1	40	1	40	4					g
F. Time for Audits		1		I					-	2	\$4,351	\$0	0	+
Recordkeeping Subtotal	na	1							-	2	\$4,351	\$0	0	Ĭ
								71					0	Ĭ
Totals								71 217	7 22	4 11	\$4,351 \$7,696 \$23,578	\$0 \$0 \$8,625	5	

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

b A one-time requirement.

c Energy Audits are a requirement for existing units only.

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

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

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

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

Table 6.B. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards

for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers - Year 2, New Large Gas Fuel Units

	ioi iiuzuiuou.	i dilata	ILS (INLOTIAL) ioi iliaasti	iai, Commerci	iai, ana mon	Tational Bonc	13 - ICUI Z	, recev Lui	ge ous i uci e	111113			
Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Certified Energy Audit Cost per Occurrence	(C) Stack Testing and Fuel Analysis Cost Per Occurrence	(D) Other Non-Labor Costs Per Occurrence	(E) Number of Occurrences Per Respondent Per Year	(F) Technical Hours per Respondent Per Year (A X E)	(G) Number of Respondents Per Year	(H) Technical Hours per Year @ \$98.20 (F X G)	(I) Clerical Hours per Year @ \$48.53 (H X 0.1)	(J) Management Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non- Labor Capital Costs Per Year [(B+C+D)xExG]	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications		Occurrence	Occurrence	Occurrence	rei ieai	(A A L)	rei ieai	^ (3)	A 0.1)	A .03)	rei ieai	[(B+C+D)XEXG]	_ ^ G)	Н.
	na													
2. Surveys and Studies	na													
Reporting Requirements														
Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	1	40	4	2	\$4,351	\$0	0	а
B. Required Activities														
 Initial Stack Test and Report (for PM) 	12	\$0	\$5,000	\$0	1	12	0	0	0	0	\$0	\$0	0	е
Initial Stack Test and Report (for Hg)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	е
Initial Stack Test and Report (for HCl)	12	\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	е
Initial Stack Test and Report (for CO)	12	\$0	\$7,000	\$0	1	12	0	0	0	0	\$0	\$0	0	е
Initial Stack Test and Report (for D/F)	12	\$0	\$16,000	\$0	1	12	0	0	0	0	\$0	\$0	0	е
Annual Stack Test and Report (for PM)	12	\$0	\$5,000	\$0	1	12	ő	0	0	0	\$0	\$0	0	a
Annual Stack Test and Report (for Hg)	12	\$0	\$8,000	\$0		12	0	0	0	0	\$0	\$0	0	
		\$0	\$8,000	\$0	1	12	0	0	0	0	\$0	\$0	0	a
Annual Stack Test and Report (for HCI)	12				1									а
Annual Stack Test and Report (for CO)	12	\$0	\$7,000	\$0	1	12	0	0	0	0	\$0	\$0	0	а
 Annual Stack Test and Report (for D/F) 	12	\$0	\$16,000	\$0	1	12	0	0	0	0	\$0	\$0	0	а
 Repeat Stack Test and Report if Switch Fuels (for Hg and HCl) 	24	\$0	\$21,000	\$0	1	24	0	0	0	0	\$0	\$0	0	a,e
12. Initial Fuel Analysis for Mercury and HCL Content	5	\$0	\$400	\$0	1	5	0	0	0	0	\$0	\$0	0	a,f
Content	5	\$0	\$400	\$0	12	60	0	0	0	0	\$0	\$0	0	a,f
14. Continuous Parameter Monitoring	_ <u> </u>	-	4.00	40		1	_ <u> </u>	 		<u> </u>	-	+		4,1
	40	40		\$0	1	40	1	40	4	2	¢4.051	+ **		-
Establish Site-specific monitoring plan (all)	40	\$0		ΦU	1	40	1	40	4		\$4,351	\$0	0	a
Opacity				040 100	.	1		-	_	-				1
a) initial	10	\$0	\$0	\$43,100	1	10	0	0	0	0	\$0	\$0	0	а
b) annual	10	\$0	\$0	\$14,700	1	10	0	0	0	0	\$0	\$0	0	a
PM (only sources greater than 250 mmBtu/hr)														
a) initial	10	\$0	\$0	\$158,000	1	10	0	0	0	0	\$0	\$0	0	a
b) annual	10	\$0	\$0	\$56,100	1	10	0	0	0	0	\$0	\$0	0	а
02				,										
a) initial	10	\$0	\$0	\$8,523	1	10	0	0	0	0	\$0	\$0	0	а
b) annual	10	\$0	\$0	\$1,436	1	10	ō	0	0	0	\$0	\$0	0	a
	10	ΨΟ	ΨΟ	Φ1,430	1	10	0	- 0	-	- 0	ΨΟ	Ψ0		а
Scrubber System Monitoring and Operation (for units with wet scrubbers)														
a) initial	10	\$0	\$0	\$24,300	1	10	0	0	0	0	\$0	\$0	0	а
b) annual	10	\$0	\$0	\$5,600	1	10	0	0	0	0	\$0	\$0	0	a
Bag Leak Detection System Operation														
(sources that have fabric filters)														
a) initial	10	\$0	\$0	\$25,500	1	10	0	0	0	0	\$0	\$0	0	а
b) annual	10	\$0	\$0	\$9,700	1	10	n	0	0	0	\$0	\$0	0	a
15. Annual Tune-up	12	\$0	\$2,875	\$0	1	12	6	72	7	4	\$7,832	\$17,250	0	C
16. Mercury and H2S Fuel Spec Analysis	10	\$0		\$0		10				0				
		\$0	\$400	\$0	1	10	0	0	0	U	\$0	\$0	0	h
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														L
Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	1	2	0	0	\$218	\$0	1	a
Notification of Compliance Status	8	\$0	\$0	\$0	1	8	1	8	1	0	\$870	\$0	1	а
3) Annual Compliance Report	20	\$0	\$0	\$0	2	40	6	240	24	12	\$26,107	\$0	12	a, e
Semi-annual Compliance Report	20	\$0	\$0	\$0	2	40	0	0	0	0	\$0	\$0	0	a, e
Notification of Alternative Fuel Use	5	\$0	\$0	\$0	1	5	0	0	0	0	\$0	\$0	1 0	a, e
	-	ΦО	ΦU	ΦU	1	1 5	U		40					+ '
Reporting Subtotal								402	40	20	\$43,729	\$17,250	14	-
Recordkeeping Requirements														1
Read Instructions	Included in 3a													
B. Implement Activities	na							1		1			1	
C. Develop Record System	na													d
D. Record Information								1						
Records of Operating Parameter Values	20	\$0	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	а
Records of Operating Farameter Values Records of Startup, Shutdown, Malfunction	15	\$0	\$0	\$0	1	15	0	0	0	0	\$0	\$0	0	a
Records of Stack Tests	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	а
Records of Monitoring Device Calibrations	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	a
Submitted	2	\$0	\$0	\$0	2	4	6	24	2	1	\$2,611	\$0	0	a, e
Records of All Semi-Annual Compliance Reports Submitted	2	\$0	\$0	\$0	2	4	0	0	0	0	\$0	\$0	0	a, e
7) Records of Monthly Fuel Use	0.5	\$0	\$0	\$0	12	6	6	36	4	2	\$3,916	\$0	0	
														a
8) Records of Annual Tune-up	0.25	\$0	\$0	\$0	1	0.25	6	2	0	0	\$163	\$0	6	С
E. Personnel Training	40	\$0	\$0	\$0	1	40	1	40	4	2	\$4,351	\$0	0	g
														. —
· ·	na													
F. Time for Audits	na							100	10	-	Ø11 044	40		
	na							102	10	5	\$11,041	\$0		

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

b A one-time requirement.

c Energy Audits are a requirement for existing units only.

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

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

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

g For on-going training activities to keep personnel updated in order to implement compliance activities. h Assume all units will fire natural gas, so fuel spec analysis not necessary.

i Assumed no units would fire an alternative fuel.

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

House Hous		for Hazardous	Air Pollutants	(NESHAP)	or industria	i, Commercia	i, and institu	tional Bollers	- rear 3, i	vew Large	Gas Fuel Un	แร			
Approximate	Burden Item	Respondent Hours per Occurrence (Technical	Energy Audit Cost per	Testing and Fuel Analysis Cost Per	Non-Labor Costs Per	Occurrences Per Respondent	Hours per Respondent Per Year	Respondents	Technical Hours per Year @ \$98.20 (F	Clerical Hours per Year @ \$48.53 (H	Management Hours per Year @ \$114.49 (H	Labor Costs	Labor Capital Costs Per Year	(M) Total Number of Responses per Year (E X G)	Footnotes
Service processing			Cocurrence	Occurrence	Cocarrence	1 01 1001	(//// _)	1011001	7.0,	7(0.1)	7(100)	1 01 1000	(B.O.B)XEXO	χο,	
Registro Extraction Continues															_
A. Regard Curvalenter Flate Requerements 0 50 30 1 60 0 0 0 0 30 30 0		TICK .													-
R. Reguend Activities		40	e 0	40	e 0	1	40	0	0	0	0	e n	40	0	а
1. Initial Stack Test and Report (or PM) 12 30 \$5,000 50 1 12 0 0 0 0 30 50 0 0 0 1 12 0 0 0 0 0 50 50 0 0		40	Φ0	Ψυ	Φ0	1	40	0	-	0	0	Ψ0	Ψ0	0	- a
2. minal Stack Test and Report for Feb 12 50 88,000 50 1 12 0 0 0 0 50 50 0 0 5 5		10	**	AF 000	***		10		_	_		**	**	_	-
2. Initial Stack Test and Report for PC)															е
4. minul Stack Test and Preport (pr CO) 12	2. Initial Stack Test and Report (for Hg)														e
E. Install Stack Test and Report (for DP) 12 90 \$11,000 50 1 12 0 0 0 0 50 50 0															е
6. Annual Stack Test and Report (or Pike) 12 50 \$85,000 \$0 1 12 0 0 0 50 \$50 0 0 1 12 0 0 0 50 \$50 0 0 1 12 0 0 0 50 50 0 0 0 1 12 0 0 0 0 50 50 0 0 0															e
7. Annual Stack Test and Report (in Fig.) 12 90 88,000 50 1 12 0 0 0 50 50 0									-		-				a
B. Annual Stack Test and Report for HCD 12															
9. Annual Stack Test and Report (for CO) 12 50 \$1,000 50 1 12 0 0 0 0 50 50 0								-			-			-	a
10 Annual State Test and Report (Set Diff) 12 80 \$16,000 50 1 12 0 0 0 0 50 \$50 0											-				a
11. Repeat Stack Test and Report If Switch Florible (in Fig and SHC) 1. Image Florible Switch Florible (in Fig and SHC) 1. Image Florible Switch Florible (in Fig and SHC) 1. Image Florible Switch Florible (in Fig and SHC) 1. Image Florible Switch Florible (in Fig and SHC) 1. Image Florible (in Fig and SHC															a
(riving and HCI) 12. Intelligent Ausylasi for Meetury and HCL Content 5 \$ 50 \$ \$400 \$ 50 1 2 6 0 0 0 0 0 90 \$ 30 0 0 1 1 5 1 5 0 0 0 0 0 90 \$ 30 0 0 1 1 5 1 5 0 0 0 0 0 0 90 \$ 30 0 0 1 1 5 1 5 0 0 0 0 0 0 0 90 \$ 30 0 0 1 1 5 1 5 0 0 0 0 0 0 0 0 0 0 0 0		12	\$0	\$16,000	\$0	1	12	U	0	U	U	\$U	\$0	U	a
12. Initial Fixed Analysis for Mexicary and MCL Content S \$0 \$400 \$0 \$1 5 0 0 0 0 \$0 \$50 \$0 0 1.8 Monthly Full Analysis for Mexicary and MCL Content S \$0 \$400 \$0 \$0 \$0 \$0 \$0		24	\$0	\$21,000	\$0	1 1	24	0	0	0	0	\$0	\$0	0	a,e
13. Mornity Fuel Analysis for Mercury and FLC Content 5 \$0 \$400 \$0 \$0 \$0 \$0 \$0													\$0		a,f
14. Continuous Parameter Monitoring plant (all)						12									a,f
Establish Sike-specife monitoring plain (all)			-	Ψ-100	40		- 55		_ <u> </u>		, ,	40	40		Δ,.
Opacity a) Initial 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		40	\$0		\$0	1	40	0	0	0	0	\$0	\$0	0	a
a) Initial			Ψ0		Ψ0	-	40	-	_	-	Ů	Ψ0	ΨΟ		- u
Diamust Diam		10	\$0	\$0	\$43 100	1	10	0	0	0	0	\$n	\$n	0	a
PM (only sources greater than 250 mmBluthr) a) ninitial 1															a
a) initial 10 50 50 5158000 1 10 0 0 0 50 50 50	PM (only sources greater than 250 mmRtu/hr)	10	Ψ0	ΨΟ	Ψ14,700	-	10		_		Ů	Ψ0	ΨΟ	-	- 4
Digramular 10 \$0 \$0 \$0 \$55,000 1 10 0 0 0 0 \$0 \$0		10	0.2	0.2	\$158,000	1	10	0	0	0	0	0.2	0.2	0	a
0.2 a) initial 10 \$0 \$0.0 \$88.523 1 10 0 0 0 0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0															a
a) initial 10 \$0 \$0 \$30 \$83,523 1 1 10 0 0 0 0 0 \$0 \$0 \$0 \$0 0 0 \$0 \$0 \$0 \$0	O2	10	Ψ0	Ψυ	\$30,100	1	10	- 0	-	- 0	0	Ψ0	Ψ0		a
Description Description		10	90	90	\$8 523	1	10	0	0	0	0	90	0.2	0	a
Scrubber System Monitoring and Operation (for units with wet surcivity with wet surcivi															a
(for units with vet scrubbers) a) initial 10 \$0 \$0 \$ \$0 \$ \$22,4300 1 10 0 0 0 0 \$0 \$50 \$0 0 0 0 0 0 0 0 0 0 0		10	ΨΟ	ΨΟ	Ψ1,430	-	10	-	_	-	Ů	Ψ0	ΨΟ		и
A jinitial 10 \$0 \$0 \$24,300 1 10 0 0 0 0 50 \$0 \$0 0 0 0 0 0 0 0	(for units with wet scrubbers)														
Bag Leak Detection System Operation (sources that have labriful files)		10	\$0	\$0	\$24,300	1	10	0	0	0	0	\$0	\$0	0	а
Bag Leak Detection System Operation (sources that have labrage that have labrage that have labrage that have labrage that have labrage that have labrage that have labrage that have labrage that have labrage that have labrage that have labrage that have labrage that have labrage that have labrage that have labrage that have labrage that lab	b) annual	10	\$0	\$0	\$5,600	1	10	0	0	0	0	\$0	\$0	0	а
(sources that have fabric filters) a) initial 10 \$0 \$0 \$0 \$25,500 \$1 \$10 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0					,										
Box Similar															
D annual 10 S0 S0 S9,700 1 10 0 0 0 0 S0 S0		10	\$0	\$0	\$25,500	1	10	0	0	0	0	\$0	\$0	0	a
15. Annual Tune-up 12 \$0 \$2,875 \$0 1 12 6 72 7 4 \$7,832 \$17,250 0		10	\$0	\$0	\$9.700	1	10	0	0	0	0	\$0	\$0	0	a
16. Mercury and H2S Fuel Spec Analysis															С
C. Create Information															h
D. Gather Information na															
E. Report Preparation 1) Initial Notification that Source is Subject 2 \$0 \$0 \$0 \$0 1 2 0 0 0 0 \$0 \$0 \$0 0 0 \$0 \$0 \$0 \$0 \$0 \$0															\vdash
1) Initial Notification that Source is Subject 2 50 50 50 1 2 0 0 0 0 50 50 0 0 2 Notification of Compliance Status 8 \$0 \$0 \$0 \$0 \$0 \$0 \$0															\vdash
2) Notification of Compliance Status		2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	a
3) Annual Compliance Report 20 \$0 \$0 \$0 \$0 \$1 20 6 120 12 6 \$13,053 \$0 6 4) Semi-annual Compliance Report 20 \$0 \$0 \$0 \$0 \$0 \$0 \$0											-				a
4) Semi-annual Compliance Report 20 \$0 \$0 \$0 \$0 \$0 \$0 \$0															a, e
S) Notification of Alternative Fuel Use 5 \$0 \$0 \$0 \$0 \$0 \$0 \$0															a, e
Reporting Subtotal															i
A. Read ristructions Included in 3a				Ψ0											<u> </u>
A. Read Instructions Included in 3a												,	,		\vdash
B. Implement Activities		Included in 3a													\vdash
C. Develop Record System na															\vdash
D. Record Information															d
1) Records of Operating Parameter Values 20 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0		TIG.													
2) Records of Startup, Shutdown, Malfunction 15 \$0 \$0 \$0 \$1 15 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$		20	\$0	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	a
3) Records of Stack Tests 2 \$0 \$0 \$0 \$1 2 0 0 0 0 0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0								-			-				a
A Records of Monitoring Device Calibrations 2 \$0 \$0 \$0 \$1 2 0 0 0 0 \$0 \$0 \$0 \$0															a
5) Records of All Annual Compliance Reports Submitted 2 \$0 \$0 \$0 \$2 4 6 24 2 1 \$2,611 \$0 0															a
6) Records of All Semi-Annual Compliance Reports Submitted 7) Records of Monthly Fuel Use 0.5 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0															a, e
Submitted 2 50 \$0 \$0 2 4 0 0 0 \$0			Φ0	Ψυ	90		-	U	24		1	Ψ2,011	Ψυ		a, e
7) Records of Monthly Fuel Use 0.5 \$0 \$0 \$0 \$12 6 6 36 4 2 \$3,916 \$0 0 8) Records of Annual Tune-up 0.25 \$0 \$0 \$0 \$1 0.25 6 2 0 0 \$163 \$0 6 8) Records of Annual Tune-up 0.25 \$0 \$0 \$0 \$1 0.25 6 2 0 0 \$163 \$0 6 8) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0		2	\$0	\$0	\$0	2	4	0	0	0	0	\$0	\$0	0	a, e
8) Records of Annual Tune-up 0.25 \$0 \$0 \$0 \$1 0.25 6 2 0 0 \$163 \$0 6 E. Personnel Training 40 \$0 \$0 \$0 \$1 40 0 0 0 0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0															a, e
E. Personnel Training 40 \$0 \$0 \$0 1 40 0 0 0 \$0 \$0 \$0 0 F. Time for Audits na Image: Confedence of the confedenc															С
F. Time for Audits na Recordkeeping Subtotal 62 6 3 \$6,690 \$0															g
Recordkeeping Subtotal 62 6 3 \$6,690 \$0	-			Ψ0	40	<u> </u>	70				, i	40	40		a
		na				-				_	_				₩
															╙
lotals 254 25 13 \$27,575 \$17,250 6	Totals								254	25	13	\$27,575	\$17,250	6	

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

b A one-time requirement.

c Energy Audits are a requirement for existing units only.

e one management of the control of

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

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

h Assume all units will fire natural gas, so fuel spec analysis not necessary. i Assumed no units would fire an alternative fuel.

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

		 		 										
Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Certified Energy Audit Cost per Occurrence	(C) Annual Tune-Up Cost per Occurrence	(D) Other Non-Labor Costs Per Occurrence	(E) Number of Occurrences Per Respondent Per Year	(F) Technical Hours per Respondent Per Year (A X E)	(G) Number of Respondents Per Year	(H) Technical Hours per Year @ \$98.20 (F X G)	(I) Clerical Hours per Year @ \$48.53 (H X 0.1)	(J) Management Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non-Labor Capital Costs Per Year ((B+C+D)x ExG)	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na	Cocarrence	per occurrence	Cocarrence	1 ci i cai	(//// _)	1 CI I CUI	<u> </u>	(117(0.1)	7(.00)	1 Ci i Cui	LXO)	χο,	——
2. Surveys and Studies	na													
3. Reporting Requirements	i ia													
A. Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	4	160	16	8	\$17,404	\$0	0	a
B. Required Activities	40	ΨΟ	ΨΟ	ΨΟ	1	40	4	100	10	0	Ψ17,404	Ψ0	0	- a
Conduct Energy Audit														
a) Commerical	20	\$854	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	b,c, d
b) Industrial	20	\$18,292	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	b,c, d
2. Biennual Tune-Up	12	\$0	\$2,228	\$0	0.5	6	0	0	0	0	\$0	\$0	0	C C
C. Create Information		Φ0	ΨΖ,ΖΖΟ	Φ0	0.5	0	U	0	0	U	Φ0	Φ0	U	<u> </u>
D. Gather Information	na na											-		
E. Report Preparation	na											-		
		**	**	**		_					4070	-		
1) Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	4	8	1	0	\$870	\$0	4	a
2) Notification of Compliance Status	8	\$0	\$0	\$0	1	8	0	0	0	0	\$0	\$0	0	С
3) Biennial Compliance Report	5	\$0	\$0	\$0	0.5	2.5	0	0	0	0	\$0	\$0	0	f
Initial Report on results of Energy Audit	5	\$0	\$0	\$0	1	5	0	0	0	0	\$0	\$0	0	С
Reporting Subtotal								168	17	8	\$18,275	\$0	4	
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	0.5	1	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	g
3) Biennial Tune-Up Records	0.5	\$0	\$0	\$0	0.5	0.25	0	0	0	0	\$0	\$0	0	С
E. Personnel Training	40	\$0	\$0	\$0	1	40	0	0	0	0	\$0	\$0	0	h
F. Time for Audits	na													
Recordkeeping Subtotal								0	0	0	\$0	\$0	0	
Totals								168	17	8	\$18,275	\$0	4	

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

b Cost includes taking an inventory of facility equipment including age, operating schedules, square feet of the facility and other details necessary for preparing for the audit pre-screening, attending the energy audit, and reviewing audit report from the audit professional. Based on the distribution facility NAICS codes in the 2008 combustion unit survey database, 12.6% of facilities are in the commercial sector while the remaining 87.4% of facilities are in the industrial sector.

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

d Cost per occurrence for energy audit professionals including an phone screening to discuss the facility prior to a visit, a 2 to 4 hour site visit, and an additional 2-4 hours to prepare a follow-up report on recommendations and findings. These site visits are assumed to be conducted by certified energy professionals. There are 4 existing facilities under this category and it is assumed that all will be industrial facility since industrial is the vast majority of projected units.

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

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

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

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

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

		(, ,	1			1010 10a1 <u>-</u> ,							1 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) Management Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non-Labor Capital Costs Per Year ((B+C+D)x ExG)	(M) Total Number of Responses per Year (E X G)	Footnotes
Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	0	0	0	0	\$0	\$0	0	а
B. Required Activities		, ,								-				
Conduct Energy Audit														
a) Commerical	20	\$854	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	b,c, d
b) Industrial	20	\$18,292	\$0	\$0	1	20	2	40	4	2	\$4,351	\$36,584	0	b,c, d
2. Biennual Tune-Up	12	\$0	\$2,228	\$0	0.5	6	18	108	11	5	\$11,748	\$40,104	0	C
C. Create Information	na	1.0	7-,	7.5		_					7-2,112	7 10,201		1
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	а
2) Notification of Compliance Status	8	\$0	\$0	\$0	1	8	0	0	0	0	\$0	\$0	0	C
Biennial Compliance Report	5	\$0	\$0	\$0	0.5	2.5	0	0	0	0	\$0	\$0	0	f
Initial Report on results of Energy Audit	5	\$0	\$0	\$0	1	5	0	0	0	0	\$0	\$0	0	c
Reporting Subtotal	-	1.0	7.0	7.5	_		-	148	15	7	\$16,099	\$76,688	0	1
Recordkeeping Requirements								1.0		•	420,000	4.0,000	•	
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	0.5	1	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	g
3) Biennial Tune-Up Records	0.5	\$0	\$0	\$0	0.5	0.25	0	0	0	0	\$0	\$0	0	С
E. Personnel Training	40	\$0	\$0	\$0	1	40	2	80	8	4	\$8,702	\$0	0	h
F. Time for Audits	na													
Recordkeeping Subtotal								80	8	4	\$8,702	\$0	0	
Totals								228	23	11	\$24,801	\$76,688	0	

a The burden on existing sources to read and understand rule requirements, and submit an initial notification were assumed to all occur in year 1. Energy audit burdens for this unit will be accounted for in year 2.

- e Assumes facility must already maintain records on boiler insurance and/or maintenance schedule. No new record system would be required.
- f Since a tune-up is required biennially, every two years, the compliance reports for small units are also due every two years. Records of the tune-ups will be submitted to the Administrator upon request.
- g Small units are not required to maintain records on startup, shutdown and malfunction.
- h For on-going training activities to keep personnel updated in order to implement compliance activities.

b Cost includes taking an inventory of facility equipment including age, operating schedules, square feet of the facility and other details necessary for preparing for the audit pre-screening, attending the energy audit, and reviewing audit report from the audit professional. Based on the distribution facility NAICS codes in the 2008 combustion unit survey database, 12.6% of facilities are in the commercial sector while the remaining 87.4% of facilities are in the industrial sector. The one facility with biomass boilers is expected to be at industrial facility and it will conduct the audit in year 2.

c Since existing units have three years after the publication date of the final rule to submit initial notification of compliance status, conduct compliance activities, or meet recordkeeping or reporting requirements, it is assumed that half the affected units will conduct an audit, testing and monitoring plan development in year 2 and half will conduct them in year 3 in order to be in compliance by the third year after promulgation. Initial Notification of Compliance Reports and recordkeeping requirements will not begin until year 3 of this ICR. Annualized cost of \$2228 for a tune-up is calculated considering a biennual schedule.

d Cost per occurrence for energy audit professionals including an phone screening to discuss the facility prior to a visit, a 2 to 4 hour site visit, and an additional 2-4 hours to prepare a follow-up report on recommendations and findings. These site visits are assumed to be conducted by certified energy professionals. There are 4 existing facilities under this category and it is assumed that all will be industrial facility since industrial is the vast majority of projected units.

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

		onatanto (HE	1 7 101 11144	ou, oo	croidi, dila ilioti		13 - 1 Cai 3, Ex	oung onnu						
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	Year @	(I) Clerical Hours per Year @ \$48.53 (H X 0.1)	Year @	(K) Total Labor Costs Per Year	(L) Total Non-Labor Capital Costs Per Year ((B+C+D)x ExG)	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
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) Commerical	20	\$854	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	b,c, d
b) Industrial	20	\$18,292	\$0	\$0	1	20	2	40	4	2	\$4,351	\$36,584	0	b,c, d
2. Biennual Tune-Up	12	\$0	\$2,228	\$0	0.5	6	18	108	11	5	\$11,748	\$40,104	0	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	а
2) Notification of Compliance Status	8	\$0	\$0	\$0	1	8	4	32	3	2	\$3,481	\$0	4	С
3) Biennial Compliance Report	5	\$0	\$0	\$0	0.5	2.5	4	10	1	1	\$1,088	\$0	2	f
4) Initial Report on results of Energy Audit	5	\$0	\$0	\$0	1	5	4	20	2	1	\$2,176	\$0	4	С
Reporting Subtotal								210	21	11	\$22,843	\$76,688	10	
Recordkeeping Requirements											7-2,010	4.0,000		
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													е
D. Record Information														_ <u> </u>
Records of All Notifications and Compliance Reports Submitted	2	\$0	\$0	\$0	0.5	1	36	36	4	2	\$3,916	\$0	0	С
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	\$0	1	15	0	0	0	0	\$0	\$0	0	g
3) Biennial Tune-Up Records	0.5	\$0	\$0	\$0	0.5	0.25	36	9	1	0	\$979	\$0	0	С
E. Personnel Training	40	\$0	\$0	\$0	1	40	2	80	8	4	\$8,702	\$0	0	h
F. Time for Audits	na													
Recordkeeping Subtotal								125	12.5	6.25	\$13,597	\$0	0	
Totals								335	34	17	\$36,440	\$76,688	10	

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

- e Assumes facility must already maintain records on boiler insurance and/or maintenance schedule. No new record system would be required.
- f Since a tune-up is required biennially, every two years, the compliance reports for small units are also due every two years. Records of the tune-ups will be submitted to the Administrator upon request.
- g Small units are not required to maintain records on startup, shutdown and malfunction.
- h For on-going training activities to keep personnel updated in order to implement compliance activities.

b Cost includes taking an inventory of facility equipment including age, operating schedules, square feet of the facility and other details necessary for preparing for the audit pre-screening, attending the energy audit, and reviewing audit report from the audit professional. Based on the distribution facility NAICS codes in the 2008 combustion unit survey database, 12.6% of facilities are in the commercial sector while the remaining 87.4% of facilities are in the industrial sector.

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

d Cost per occurrence for energy audit professionals including an phone screening to discuss the facility prior to a visit, a 2 to 4 hour site visit, and an additional 2-4 hours to prepare a follow-up report on recommendations and findings. These site visits are assumed to be conducted by certified energy professionals. There are 4 existing facilities under this category and it is assumed that all will be industrial facility since industrial is the vast majority of projected units.

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

					. 			_,						
Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Certified Energy Audit Cost per Occurrence	(C) Annual Tune-Up Cost per Occurrence	(D) Other Non-Labor Costs Per Occurrence	(E) Number of Occurrences Per Respondent Per Year	(F) Technical Hours per Respondent Per Year (A X E)	(G) Number of Respondents Per Year	(H) Technical Hours per Year @ \$98.20 (F X G)	(I) Clerical Hours per Year @ \$48.53 (H X 0.1)	(J) Management Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non- Labor Capital Costs Per Year ((B+C+D)xEx G)		Footnotes
1. Applications	na	Cocarrence	per occurrence	Occurrence	1 Ci i Cui	(//// _/	1 CI I CUI	0)	7 (0.1)	7(.00)	1 Ci i Cui	- 0)	- 0,	+
2. Surveys and Studies	na													-
3. Reporting Requirements	πα													
A. Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	42	1.680	168	84	\$182,746	\$0	0	a
B. Required Activities	40	Φ0	Φ0	Φ0	1	40	42	1,000	100	04	Ф102,740	Φ0	0	a
•														+
Conduct Energy Audit	20	\$854	40	40		20			_		Φ0	40		
a) Commerical			\$0	\$0	1		0	0	0	0	\$0	\$0	0	b, c, d
b) Industrial	20	\$18,292	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	b, c, d
2. Biennual Tune-Up	12	\$0	\$2,228	\$0	0.5	6	0	0	0	0	\$0	\$0	0	c, f
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	42	84	8	4	\$9,137	\$0	42	a
Notification of Compliance Status	8	\$0	\$0	\$0	1	8	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	c, f
Initial Report on results of Energy Audit	5	\$0	\$0	\$0	1	5	0	0	0	0	\$0	\$0	0	С
Reporting Subtotal								1,764	176	88	\$191,884	\$0	42	
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	0.5	1	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	c, g
3) Biennial Tune-Up Records	0.5	\$0	\$0	\$0	0.5	0.25	0	0	0	0	\$0	\$0	0	c, f
E. Personnel Training	40	\$0	\$0	\$0	1	40	0	0	0	0	\$0	\$0	0	h
F. Time for Audits	na													
Recordkeeping Subtotal								0	0	0	\$0	\$0	0	
Totals								1,764	176	88	\$191,884	\$0	42	

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

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

d Cost per occurrence for energy audit professionals including an phone screening to discuss the facility prior to a visit, a 2 to 4 hour site visit, and an additional 2-4 hours to prepare a follow-up report on recommendations and findings. These site visits are assumed to be conducted by certified energy professionals.

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

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

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

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

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

		· •							ĭ		1			
	(A) Respondent Hours per Occurrence (Technical	(B) Certified Energy Audit Cost per	(C) Annual Tune-Up Cost	(D) Other Non-Labor Costs Per	(E) Number of Occurrences Per Respondent	(F) Technical Hours per Respondent Per Year	(G) Number of Respondents	(H) Technical Hours per Year @ \$98.20 (F X	(I) Clerical Hours per Year @ \$48.53 (H	(J) Management Hours per Year @ \$114.49 (H	(K) Total Labor	(L) Total Non- Labor Capital Costs Per Year ((B+C+D)xExG		Footnotes
Burden Item	hours)	Occurrence	per Occurrence	Occurrence	Per Year	(A X E)	Per Year	G)	X 0.1)	X .05)	Costs Per Year)	G)	Ľ
1. 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) Commerical	20	\$854	\$0	\$0	1	20	3	60	6	3	\$6,527	\$2,562	0	b, c, d
b) Industrial	20	\$18,292	\$0	\$0	1	20	18	360	36	18	\$39,160	\$329,256	0	b, c, d
2. Biennual Tune-Up	12	\$0	\$2,228	\$0	0.5	6	179	1,074	107	54	\$116,827	\$398,812	0	c, f
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	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	С
Biennial Compliance Report	5	\$0	\$0	\$0	0.5	2.5	0	0	0	0	\$0	\$0	0	c, f
4) Initial Report on results of Energy Audit	5	\$0	\$0	\$0	1	5	0	0	0	0	\$0	\$0	0	С
Reporting Subtotal								1,494	149	75	\$162,514	\$730,630	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	0.5	1	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	c, g
3) Biennial Tune-Up Records	0.5	\$0	\$0	\$0	0.5	0.25	0	0	0	0	\$0	\$0	0	c, f
E. Personnel Training	40	\$0	\$0	\$0	1	40	21	840	84	42	\$91,373	\$0	0	h
F. Time for Audits	na													
Recordkeeping Subtotal								840	84	42	\$91,373	\$0	0	
Totals								2,334	233	117	\$253,887	\$730,630	0	

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

- e Assumes facility must already maintain records on boiler insurance and/or maintenance schedule. No new record system would be required.
- f Since a tune-up is required biennially, every two years, the compliance reports for small units are also due every two years. Records of the tune-ups will be submitted to the Administrator upon request.
- g Small units are not required to maintain records on startup, shutdown and malfunction.
- h For on-going training activities to keep personnel updated in order to implement compliance activities.

b Cost includes taking an inventory of facility equipment including age, operating schedules, square feet of the facility and other details necessary for preparing for the audit pre-screening, attending the energy audit, and reviewing audit report from the audit professional. Based on the distribution of facilities with affected boilers or process heaters, 87.4% of facilities are in the industrial sector while the remaining 12.6% of facilities are in the commercial sector.

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

d Cost per occurrence for energy audit professionals including an phone screening to discuss the facility prior to a visit, a 2 to 4 hour site visit, and an additional 2-4 hours to prepare a follow-up report on recommendations and findings. These site visits are assumed to be conducted by certified energy professionals.

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

			, , , , , , , , , , , , , , , , , , , 						~					
	(A) Respondent Hours per Occurrence (Technical	(B) Certified Energy Audit Cost per	(C) Annual Tune-Up Cost	(D) Other Non-Labor Costs Per	(E) Number of Occurrences Per Respondent	Hours per Respondent Per Year	(G) Number of Respondents	(H) Technical Hours per Year @ \$98.20 (F X	\$48.53 (H	Hours per Year @ \$114.49 (H	(K) Total Labor	(L) Total Non- Labor Capital Costs Per Year ((B+C+D)xExG		ootnotes
Burden Item	hours)	Occurrence	per Occurrence	Occurrence	Per Year	(A X E)	Per Year	G)	X 0.1)	X .05)	Costs Per Year)	G)	<u>I</u>
1. Applications	na													
2. Surveys and Studies	na													\perp
3. Reporting Requirements							_			_				
A. 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) Commerical	20	\$854	\$0	\$0	1	20	3	60	6	3	\$6,527	\$2,562	0	b, c, d
b) Industrial	20	\$18,292	\$0	\$0	1	20	18	360	36	18	\$39,160	\$329,256	0	b, c, d
2. Biennual Tune-Up	12	\$0	\$2,228	\$0	0.5	6	179	1,074	107	54	\$116,827	\$398,812	0	c, f
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	а
Notification of Compliance Status	8	\$0	\$0	\$0	1	8	42	336	34	17	\$36,549	\$0	42	С
Biennial Compliance Report	5	\$0	\$0	\$0	0.5	2.5	42	105	11	5	\$11,422	\$0	21	c, f
4) Initial Report on results of Energy Audit	5	\$0	\$0	\$0	1	5	42	210	21	11	\$22,843	\$0	42	С
Reporting Subtotal								2,145	215	107	\$233,328	\$730,630	105	
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	0.5	1	358	358	36	18	\$38,942	\$0	0	С
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	\$0	1	15	0	0	0	0	\$0	\$0	0	c, g
3) Biennial Tune-Up Records	0.5	\$0	\$0	\$0	0.5	0.25	358	90	9	4	\$9,736	\$0	0	c, f
E. Personnel Training	40	\$0	\$0	\$0	1	40	21	840	84	42	\$91,373	\$0	0	h
F. Time for Audits	na													
Recordkeeping Subtotal								1287.5	128.75	64.375	\$140,051	\$0	0	\dagger
Totals								3,433	343	172	\$373,379	\$730,630	105	

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

- e Assumes facility must already maintain records on boiler insurance and/or maintenance schedule. No new record system would be required.
- f Since a tune-up is required biennially, every two years, the compliance reports for small units are also due every two years. Records of the tune-ups will be submitted to the Administrator upon request.
- g Small units are not required to maintain records on startup, shutdown and malfunction.
- h For on-going training activities to keep personnel updated in order to implement compliance activities.

b Cost includes taking an inventory of facility equipment including age, operating schedules, square feet of the facility and other details necessary for preparing for the audit pre-screening, attending the energy audit, and reviewing audit report from the audit professional. Based on the distribution of facilities with affected boilers or process heaters, 87.4% of facilities are in the industrial sector while the remaining 12.6% of facilities are in the commercial sector.

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

d Cost per occurrence for energy audit professionals including an phone screening to discuss the facility prior to a visit, a 2 to 4 hour site visit, and an additional 2-4 hours to prepare a follow-up report on recommendations and findings. These site visits are assumed to be conducted by certified energy professionals.

Table 9.A. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers - Year 1, Existing Small and Limited Use Gas Fuel Units

				, .	,			, , , , , , , , , , , , , , , , , , , ,	, 					
Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Certified Energy Audit Cost per Occurrence	(C) Annual Tune-Up Cost per Occurrence	(D) Other Non-Labor Costs Per Occurrence	(E) Number of Occurrences Per Respondent Per Year	(F) Technical Hours per Respondent Per Year (A X E)	(G) Number of Respondents Per Year	(H) Technical Hours per Year @ \$98.20 (F X	(I) Clerical Hours per Year @ \$48.53 (H X 0.1)	(J) Management Hours per Year @ \$114.49 (H X .05)		(L) Total Non- Labor Capital Costs Per Year ((B+C+D)xExG)		Footnotes
1. Applications	,	Occurrence	per Occurrence	Occurrence	Ferrear	(A A L)	rei ieai	(3)	7 (1.1)	X .03)	COSIS FEI TEAI	((BTCTD)XLXG)	(3)	+
Applications Surveys and Studies	na													+
	na													-
3. Reporting Requirements	40	# 0	40	40	1	40	007	25 400	2.540	1 774	#2.0F0.42C	Φ0	0	
A. Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	887	35,480	3,548	1,774	\$3,859,426	\$0	0	a
B. Required Activities														
Conduct Energy Audit							_							4
a) Commerical	20	\$854	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	b, c, d
b) Industrial	20	\$18,292	\$0	\$0	1	20	0	0	0	0	\$0	\$0	0	b, c, d
2. Biennial Tune-Up	12	\$0	\$2,228	\$0	0.5	6	0	0	0	0	\$0	\$0	0	c, f
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	887	1,774	177	89	\$192,971	\$0	887	a
Notification of Compliance Status	8	\$0	\$0	\$0	1	8	0	0	0	0	\$0	\$0	0	С
3) Biennial Compliance Report	5	\$0	\$0	\$0	0.5	2.5	0	0	0	0	\$0	\$0	0	c, f
4) Initial Report on results of Energy Audit	5	\$0	\$0	\$0	1	5	0	0	0	0	\$0	\$0	0	С
Reporting Subtotal								37,254	3,725	1,863	\$4,052,397	\$0	887	1
Recordkeeping Requirements														
A. Read Instructions	Included in 3a													1
B. Implement Activities	na													T
C. Develop Record System	na													е
D. Record Information														1
Records of All Notifications and Compliance Reports Submitted	2	\$0	\$0	\$0	0.5	1	0	0	0	0	\$0	\$0	0	С
Records of Startup, Shutdown, Malfunction	15	\$0	\$0	\$0	1	15	0	0	0	0	\$0	\$0	0	c, g
3) Biennial Tune-Up Records	0.5	\$0	\$0	\$0	0.5	0.25	0	0	0	0	\$0	\$0	0	c, f
E. Personnel Training	40	\$0	\$0	\$0	1	40	0	0	0	0	\$0	\$0	0	h
F. Time for Audits	na													
Recordkeeping Subtotal								0	0	0	\$0	\$0	0	
Totals			_					37,254	3,725	1,863	\$4,052,397	\$0	887	

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

- c Since existing units have three years after the publication date of the final rule to submit initial notification of compliance status, conduct compliance activities, or meet recordkeeping or reporting requirements, no burden is assumed in year 1.
- d Cost per occurrence for energy audit professionals including an phone screening to discuss the facility prior to a visit, a 2 to 4 hour site visit, and an additional 2-4 hours to prepare a follow-up report on recommendations and findings. These site visits are assumed to be conducted by certified energy professionals.
- e Assumes facility must already maintain records on boiler insurance and/or maintenance schedule. No new record system would be required.
- f Since a tune-up is required biennially, every two years, the compliance reports for small units are also due every two years. Records of the tune-ups will be submitted to the Administrator upon request.
- g Small units are not required to maintain records on startup, shutdown and malfunction.
- h For on-going training activities to keep personnel updated in order to implement compliance activities.

b Cost includes taking an inventory of facility equipment including age, operating schedules, square feet of the facility and other details necessary for preparing for the audit pre-screening, attending the energy audit, and reviewing audit report from the audit professional. Based on the distribution of facilities with affected boilers or process heaters, 87.4% of facilities are in the industrial sector while the remaining 12.6% of facilities are in the commercial sector.

Table 9.B. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers - Year 2, Existing Small and Limited Use Gas Fuel Units

			, , , , , , , ,		ommercial, and			-, -,						
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)	Hours per Year @	(J) Management Hours per Year @ \$114.49 (H X	(K) Total Labor Costs Per Year	(L) Total Non- Labor Capital Costs Per Year ((B+C+D)xExG)	(M) Total Number of Responses per Year (E X	Footnotes
1. Applications	,	Occurrence	per occurrence	Occurrence	icai	(A A L)	i cai	0)	0.1)	.03)	COSIST CITCUI	((DICID)XLXO)	0)	——
2. Surveys and Studies	na na													
3. Reporting Requirements	IId													-
A. Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	0	0	0	0	\$0	\$0	0	_
B. Required Activities	40	Φ0	Φ0	⊅ U	1	40	0	0	0	U	Φ0	⊅0	U	а
								-						
Conduct Energy Audit a) Commerical	20	\$854	\$0	\$0	1	20	56	1.120	112	56	#101 001	\$47,824	0	b a d
b) Industrial	20	\$854 \$18.292	\$0	\$0	1	20	388	7,760	776	388	\$121,831 \$844.113	\$47,824 \$7.097.296	0	b, c, d
		, .		\$0 \$0	0.5		3.742	22.452		1.123		. , ,	0	b, c, d
2. Biennial Tune-Up	12	\$0	\$1,580	\$0	0.5	6	3,742	22,452	2,245	1,123	\$2,442,272	\$5,912,360	U	c, f
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	а
Notification of Compliance Status	8	\$0	\$0	\$0	1	8	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	c, f
Initial Report on results of Energy Audit	5	\$0	\$0	\$0	1	5	0	0	0	0	\$0	\$0	0	С
Reporting Subtotal								31,332	3,133	1,567	\$3,408,217	\$13,057,480	0	
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	0.5	1	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	c, g
Biennial Tune-Up Records	0.5	\$0	\$0	\$0	0.5	0.25	0	0	0	0	\$0	\$0	0	c, f
E. Personnel Training	40	\$0	\$0	\$0	1	40	444	17,760	1,776	888	\$1,931,888	\$0	\$0	h
F. Time for Audits	na													
Recordkeeping Subtotal								17760	1776	888	\$1,931,888	\$0	0	
Totals								49,092	4,909	2,455	\$5,340,105	\$13,057,480	0	

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

- c Since existing units have three years after the publication date of the final rule to submit initial notification of compliance status, conduct compliance activities, or meet recordkeeping or reporting requirements, it is assumed that half the affected units will conduct an audit, testing and monitoring plan development in year 2 and half will conduct them in year 3 in order to be in compliance by the third year after promulgation. Initial Notification of Compliance Reports and recordkeeping requirements will not begin until year 3 of this ICR.
- d Cost per occurrence for energy audit professionals including an phone screening to discuss the facility prior to a visit, a 2 to 4 hour site visit, and an additional 2-4 hours to prepare a follow-up report on recommendations and findings. These site visits are assumed to be conducted by certified energy professionals.
- e Assumes facility must already maintain records on boiler insurance and/or maintenance schedule. No new record system would be required.
- f Since a tune-up is required biennially, every two years, the compliance reports for small units are also due every two years. Records of the tune-ups will be submitted to the Administrator upon request.
- g Small units are not required to maintain records on startup, shutdown and malfunction.
- h For on-going training activities to keep personnel updated in order to implement compliance activities.

b Cost includes taking an inventory of facility equipment including age, operating schedules, square feet of the facility and other details necessary for preparing for the audit pre-screening, attending the energy audit, and reviewing audit report from the audit professional. Based on the distribution of facilities with affected boilers or process heaters, 87.4% of facilities are in the industrial sector while the remaining 12.6% of facilities are in the commercial sector.

Table 9.C. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers - Year 3, Existing Small and Limited Use Gas Fuel Units

			(,	, • •	1		icis - icai s,				5 . a.c. Cc			
	(A) Respondent Hours per Occurrence (Technical	(B) Emission Test Contractor Hours Per	(B) Certified Energy Audit Cost per	(C) Annual Tune-Up Cost	(D) Other Non-Labor Costs Per	(E) Number of Occurrences Per Respondent	(F) Technical Hours per Respondent Per Year		(H) Technical Hours per Year @ \$98.20 (F X		(J) Management Hours per Year @ \$114.49 (H			(M) Total Number of Responses per Year (E X	Footnotes
Burden Item	hours)	Occurrence	Occurrence	per Occurrence	Occurrence	Per Year	(A X E)	Per Year	G)	X 0.1)	X .05)	Costs Per Year	((B+C+D)xExG)	G)	ıй
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	a
B. Required Activities															
Conduct Energy Audit															
a) Commerical	20		\$854	\$0	\$0	1	20	56	1,119	112	56	\$121,709	\$47,776	0	b, c, d
b) Industrial	20		\$18,292	\$0	\$0	1	20	387	7,744	774	387	\$842,334	\$7,082,333	0	b, c, d
2. Biennial Tune-Up	12		\$0	\$1,580	\$0	0.5	6	3,742	22,452	2,245	1,123	\$2,442,272	\$5,912,360	0	c, f
C. Create Information	na														
D. Gather Information	na														
E. Report Preparation															
Initial Notification that Source is Subject	2		\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	а
Notification of Compliance Status	8		\$0	\$0	\$0	1	8	887	7,096	710	355	\$771,885	\$0	887	С
Biennial Compliance Report	5		\$0	\$0	\$0	0.5	2.5	887	2,218	222	111	\$241,214	\$0	444	c, f
Initial Report on results of Energy Audit	5		\$0	\$0	\$0	1	5	887	4,435	444	222	\$482,428	\$0	887	С
Reporting Subtotal									45,063	4,506	2,253	\$4,901,843	\$13,042,469	2,218	
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	\$0	0.5	1	7,484	7,484	748	374	\$814,091	\$0	0	С
Records of Startup, Shutdown, Malfunction	15	0	\$0	\$0	\$0	1	15	0	0	0	0	\$0	\$0	0	c, g
3) Biennial Tune-Up Records	0.5		\$0	\$0	\$0	0.5	0.25	7,484	1,871	187	94	\$203,523	\$0	0	c, f
E. Personnel Training	40		\$0	\$0	\$0	1	40	443	17,720	1,772	886	\$1,927,537	\$0	0	h
F. Time for Audits	na														
Recordkeeping Subtotal									27075	2707.5	1353.75	\$2,945,151	\$0	0	
Totals									72,138	7,214	3,607	\$7,846,993	\$13,042,469	2,218	

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

- e Assumes facility must already maintain records on boiler insurance and/or maintenance schedule. No new record system would be required.
- f Since a tune-up is required biennially, every two years, the compliance reports for small units are also due every two years. Records of the tune-ups will be submitted to the Administrator upon request.
- g Small units are not required to maintain records on startup, shutdown and malfunction.
- h For on-going training activities to keep personnel updated in order to implement compliance activities.

b Cost includes taking an inventory of facility equipment including age, operating schedules, square feet of the facility and other details necessary for preparing for the audit pre-screening, attending the energy audit, and reviewing audit report from the audit professional. Based on the distribution of facilities with affected boilers or process heaters, 87.4% of facilities are in the industrial sector while the remaining 12.6% of facilities are in the commercial sector.

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

d Cost per occurrence for energy audit professionals including an phone screening to discuss the facility prior to a visit, a 2 to 4 hour site visit, and an additional 2-4 hours to prepare a follow-up report on recommendations and findings. These site visits are assumed to be conducted by certified energy professionals.

Table 10.A. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers - Year 1, New Small Solid Fuel Units

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

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

Table 10.B. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers - Year 2, New Small Solid Fuel Units

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

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

Table 10.C. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers - Year 3, New Small Solid Fuel Units

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

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

Table 11.A. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers - Year 1, New Small Liquid Fuel Units

					,	. ,		,						
Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Certified Energy Audit Cost per Occurrence	(C) Annual Tune-Up Cost per Occurrence		(E) Number of Occurrences Per Respondent Per Year	(F) Technical Hours per Respondent Per Year (A X E)	(G) Number of Respondents Per Year	(H) Technical Hours per Year @ \$98.20 (F X G)	(I) Clerical Hours per Year @ \$48.53 (H X 0.1)	(J) Management Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non- Labor Capital Costs Per Year ((B+C+D)xExG)	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
A. Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	1	40	4	2	\$4,351	\$0	0	а
B. Required Activities														
1. Biennial Tune-Up	12	\$0	\$2,228	\$0	0.5	6	3	18	2	1	\$1,958	\$6,684	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	1	2	0	0	\$218	\$0	1	а
Notification of Compliance Status	8	\$0	\$0	\$0	1	8	1	8	1	0	\$870	\$0	1	С
3) Biennial Compliance Report	5	\$0	\$0	\$0	0.5	2.5	1	3	0	0	\$272	\$0	1	T
Reporting Subtotal								71	7	4	7,669	6,684	3	
Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													b
D. Record Information														
Records of All Notifications and Compliance Reports Submitted	2	\$0	\$0	\$0	0.5	1	3	3	0	0	\$326	\$0	0	
Biennial Tune-Up Records	0.5	\$0	\$0	\$0	0.5	0.25	3	1	0	0	\$82	\$0	0	
E. Personnel Training	40	\$0	\$0	\$0	1	40	1	40	4	2	\$4,351	\$0	0	d
F. Time for Audits	na													
Recordkeeping Subtotal								43.75	4.375	2.1875	\$4,759	\$0	0	
Totals								114	11	6	\$12,428	\$6,684	3	

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

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

c Assumes all boilers will comply during first year.

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

Table 11.B. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers - Year 2, New Small Liquid Fuel Units

			, ,		,	,	tional Bollers	, , ,					1	
Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Certified Energy Audit Cost per Occurrence	(C) Annual Tune-Up Cost per Occurrence	Costs Per	(E) Number of Occurrences Per Respondent Per Year			(H) Technical Hours per Year @ \$98.20 (F X G)	Hours per Year @	(J) Managemen t Hours per Year @ \$114.49 (H X .05)		(L) Total Non- Labor Capital Costs Per Year ((B+C+D)xExG)	(M) Total Number of Responses per Year (E X G)	
1. Applications	na													
2. Surveys and Studies	na													1
3. Reporting Requirements														
Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	0	0	0	0	\$0	\$0	0	a
B. Required Activities														
1. Biennial Tune-Up	12	\$0	\$2,228	\$0	0.5	6	0	0	0	0	\$0	\$0	0	С
C. Create Information	na													1
D. Gather Information	na													
E. Report Preparation														1
Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	
Notification of Compliance Status	8	\$0	\$0	\$0	1	8	0	0	0	0	\$0	\$0	0	
Biennial Compliance Report	5	\$0	\$0	\$0	0.5	2.5	1	3	0	0	\$272	\$0	1	
Reporting Subtotal								3	0	0	272	0	1	
Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													b
D. Record Information														
Records of All Notifications and Compliance Reports Submitted	2	\$0	\$0	\$0	0.5	1	3	3	0	0	\$326	\$0	0	
Biennial Tune-Up Records	0.5	\$0	\$0	\$0	0.5	0.25	3	1	0	0	\$82	\$0	0	
E. Personnel Training	40	\$0	\$0	\$0	1	40	0	0	0	0	\$0	\$0	0	d
F. Time for Audits	na													
Recordkeeping Subtotal								3.75	0.375	0.1875	\$408	\$0	0	
Totals								6	1	0	\$680	\$0	1	

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

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

c Assumes all boilers will comply during first year.

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

Table 11.C. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers - Year 3, New Small Liquid Fuel Units

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Certified Energy Audit Cost per Occurrence	(C) Annual Tune-Up Cost per Occurrence	Costs Per	(E) Number of Occurrences Per Respondent Per Year	(F) Technical Hours per Respondent Per Year (A X E)	(G) Number of Respondents Per Year	(H) Technical Hours per Year @ \$98.20 (F X G)	(I) Clerical Hours per Year @ \$48.53 (H X 0.1)	(J) Management Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non- Labor Capital Costs Per Year ((B+C+D)xExG)	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na					` ,		·	, i	,		, , ,	` ,	\Box
2. 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	а
B. Required Activities														\Box
1. Biennial Tune-Up	12	\$0	\$2,228	\$0	0.5	6	0	0	0	0	\$0	\$0	0	С
C. Create Information	na													П
D. Gather Information	na													$\overline{}$
E. Report Preparation														П
Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	0	0	0	0	\$0	\$0	0	
Notification of Compliance Status	8	\$0	\$0	\$0	1	8	0	0	0	0	\$0	\$0	0	\Box
Biennial Compliance Report	5	\$0	\$0	\$0	0.5	2.5	1	3	0	0	\$272	\$0	1	
Reporting Subtotal								3	0	0	272	0	1	\Box
Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													b
D. Record Information														
Records of All Notifications and Compliance Reports Submitted	2	\$0	\$0	\$0	0.5	1	3	3	0	0	\$326	\$0	0	
Biennial Tune-Up Records	0.5	\$0	\$0	\$0	0.5	0.25	3	1	0	0	\$82	\$0	0	
E. Personnel Training	40	\$0	\$0	\$0	1	40	0	0	0	0	\$0	\$0	0	d
F. Time for Audits	na													
Recordkeeping Subtotal								3.75	0.375	0.1875	\$408	\$0	0	
Totals								6	1	0	\$680	\$0	1	

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

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

c Assumes all boilers will comply during first year.

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

Table 12.A. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers - Year 1, New Small Gas Fuel Units

			atanto (HEOII)	,										
Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Certified Energy Audit Cost per Occurrence	(C) Annual Tune-Up Cost per Occurrence	(D) Other Non-Labor Costs Per Occurrence	(E) Number of Occurrences Per Respondent Per Year	(F) Technical Hours per Respondent Per Year (A X E)	(G) Number of Respondents Per Year	(H) Technical Hours per Year @ \$98.20 (F X G)	(I) Clerical Hours per Year @ \$48.53 (H X 0.1)	(J) Management Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non- Labor Capital Costs Per Year ((B+C+D)xExG)	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
Reporting Requirements														
Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	3	120	12	6	\$13,053	\$0	0	а
B. Required Activities														
1. Biennial Tune-Up	12	\$0	\$2,228	\$0	0.5	6	10	60	6	3	\$6,527	\$22,280	0	а
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	3	6	1	0	\$653	\$0	3	а
Notification of Compliance Status	8	\$0	\$0	\$0	1	8	3	24	2	1	\$2,611	\$0	3	а
Biennial Compliance Report	5	\$0	\$0	\$0	0.5	2.5	3	8	1	0	\$816	\$0	2	а
Reporting Subtotal								218	22	11	23,659	22,280	8	
Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													b
D. Record Information														
Records of All Notifications and Compliance Reports Submitted	2	\$0	\$0	\$0	0.5	1	10	10	1	1	\$1,088	\$0	0	a
Biennial Tune-Up Records	0.5	\$0	\$0	\$0	0.5	0.25	10	3	0	0	\$272	\$0	0	а
E. Personnel Training	40	\$0	\$0	\$0	1	40	3	120	12	6	\$13,053	\$0	0	С
F. Time for Audits	na													
Recordkeeping Subtotal								132.5	13.25	6.625	\$14,413	\$0	0	
Totals								350	35	18	\$38,072	\$22,280	8	

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

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

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

Table 12.B. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers - Year 2, New Small Gas Fuel Units

				,	. ,	. ,								
Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Certified Energy Audit Cost per Occurrence	(C) Annual Tune-Up Cost per Occurrence	(D) Other Non- Labor Costs Per Occurrence	(E) Number of Occurrences Per Respondent Per Year	(F) Technical Hours per Respondent Per Year (A X E)	(G) Number of Respondents Per Year	(H) Technical Hours per Year @ \$98.20 (F X G)	(I) Clerical Hours per Year @ \$48.53 (H X 0.1)	(J) Management Hours per Year @ \$114.49 (H X .05)	(K) Total Labor Costs Per Year	(L) Total Non- Labor Capital Costs Per Year ((B+C+D)xExG)	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													
2. Surveys and Studies	na													
3. Reporting Requirements														
Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	3	120	12	6	\$13,053	\$0	0	a
B. Required Activities														
1. Biennial Tune-Up	12	\$0	\$2,228	\$0	0.5	6	9	54	5	3	\$5,874	\$20,052	0	a
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	3	6	1	0	\$653	\$0	3	a
Notification of Compliance Status	8	\$0	\$0	\$0	1	8	3	24	2	1	\$2,611	\$0	3	a
Biennial Compliance Report	5	\$0	\$0	\$0	0.5	2.5	6	15	2	1	\$1,632	\$0	3	a
Reporting Subtotal								219	22	11	23,822	20,052	9	
Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													b
D. Record Information														
Records of All Notifications and Compliance Reports Submitted	2	\$0	\$0	\$0	0.5	1	19	19	2	1	\$2,067	\$0	0	a
2) Biennial Tune-Up Records	0.5	\$0	\$0	\$0	0.5	0.25	19	5	0	0	\$517	\$0	0	a
E. Personnel Training	40	\$0	\$0	\$0	1	40	3	120	12	6	\$13,053	\$0	0	a
F. Time for Audits	na													
Recordkeeping Subtotal								143.75	14.375	7.1875	\$15,637	\$0	0	
Totals								363	36	18	\$39,459	\$20,052	9	

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

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

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

Table 12.C. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers - Year 3, New Small Gas Fuel Units

			, , ,		,		tutional bone		,					
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)		(H) Technical Hours per Year @ \$98.20 (F X G)		(J) Management Hours per Year @ \$114.49 (H X .05)		(L) Total Non- Labor Capital Costs Per Year ((B+C+D)xExG)	(M) Total Number of Responses per Year (E X G)	Footnotes
1. Applications	na													Т
2. Surveys and Studies	na													
Reporting Requirements														
Read and Understand Rule Requirements	40	\$0	\$0	\$0	1	40	3	120	12	6	\$13,053	\$0	0	а
B. Required Activities														
1. Biennial Tune-Up	12	\$0	\$2,228	\$0	0.5	6	9	54	5	3	\$5,874	\$20,052	0	а
C. Create Information	na													
D. Gather Information	na													
E. Report Preparation														
Initial Notification that Source is Subject	2	\$0	\$0	\$0	1	2	3	6	1	0	\$653	\$0	3	a
Notification of Compliance Status	8	\$0	\$0	\$0	1	8	3	24	2	1	\$2,611	\$0	3	a
Biennial Compliance Report	5	\$0	\$0	\$0	0.5	2.5	9	23	2	1	\$2,447	\$0	5	a
Reporting Subtotal								227	23	11	24,638	20,052	11	
Recordkeeping Requirements														
A. Read Instructions	Included in 3a													
B. Implement Activities	na													
C. Develop Record System	na													b
D. Record Information														
Records of All Notifications and Compliance Reports Submitted	2	\$0	\$0	\$0	0.5	1	28	28	3	1	\$3,046	\$0	0	a
2) Biennial Tune-Up Records	0.5	\$0	\$0	\$0	0.5	0.25	28	7	1	0	\$761	\$0	0	a
E. Personnel Training	40	\$0	\$0	\$0	1	40	3	120	12	6	\$13,053	\$0	0	С
F. Time for Audits	na													
Recordkeeping Subtotal								155	15.5	7.75	\$16,861	\$0	0	
Totals								382	38	19	\$41,499	\$20,052	11	

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

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

Agency Labor Rates

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

Per Diem Info

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

Other Data

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

Table 13.A. Annual Federal Government Burden and Cost of Recordkeeping and Reporting for the Industrial, Commercial, and Institutional Boiler and Process Heater Major Source NESHAP Subpart DDDDD- Year 1 - First Year After Promulgation

	EPA hours per occurrence	Number of occurrences	EPA hours per occurrence per	Technical hours per	Mangmt hours per year	Clerical hours per year		Footnotes
Burden Item	(A)	per year (B)	year (C=AxB)	year (D=C)	(E=Dx0.05)	(F=Dx0.1)	(H) Costs, \$ k	й
1. Read and understand rule requirements	40	60	2,400	2,400	120	240	\$124,379	a
2. Enter and update information into agency recordkeeping								
system	2	1,646	3,292	3,292	165	329	\$170,606	b
3. Required activities								
A. Observe initial stack/performance test	40	2	80	80	4	8	\$4,146	С
B. Observe repeat performance test	40	2	80	80	4	8	\$4,146	d
C. Review operating parameters	2	11	22	22	1	2	\$1,140	е
D. Review continuous parameter monitoring	2	4	8	8	0	1	\$415	f
4 Excess Emissions Enforcement Activities and Inspections	24	1	0	0	0	0	\$0	g
5 Notification requirements								
A. Review initial notification that sources are subject to the standard	2	1,646	3,292	3,292	165	329	\$170,606	b
B. Review notification of initial performance tests and review test plan	20	11	220	220	11	22	\$11,401	е
C. Review notification of compliance status	2	7	14	14	1	1	\$726	b
6. Reporting requirements			0	0	0	0	\$0	
A. Review semiannual compliance report	4	4	16	16	1	2	\$829	h
B. Review annual compliance report	2	0	0	0	0	0	\$0	i
C. Review biennial compliance report	1	2	2	2	0	0	\$104	j
D. Review initial report on results of energy audit	2	0	0	0	0	0	\$0	L
7. Travel Expenses for Tests Attended	3 days * (\$110 trip) = \$1104 p		als/incidentals) + (\$600 round			\$4,416	m
TOTAL BURDEN AND COST (SALARY)				9,426	471	943	\$492,914	
TOTAL ANNUAL HOURS						10,840		

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

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

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

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

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

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

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

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

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

L Energy audits only occur at existing facilities.

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

Table 13.B. Annual Federal Government Burden and Cost of Recordkeeping and Reporting for the Industrial, Commercial, and Institutional Boiler and Process Heater Major Source NESHAP Subpart DDDDD- Year 1 - First Year After Promulgation

Burden Item	EPA hours per occurrence (A)	Number of occurrences per year (B)	EPA hours per occurrence per year (C=AxB)	Technical hours per year (D=C)	Mangmt hours per year (E=Dx0.05)	Clerical hours per year (F=Dx0.1)	(H) Costs, \$ k	Footnotes
1. Read and understand rule requirements	40	0	0	0	0	0	\$0	а
Enter and update information into agency recordkeeping system	2	10	20	20	1	2	\$1,036	b
3. Required activities								
A. Observe initial stack/performance test	40	702	28,080	28,080	1,404	2,808	\$1,455,232	С
B. Observe repeat performance test	40	401	16,040	16,040	802	1,604	\$831,265	d
C. Review operating parameters	2	3,511	7,022	7,022	351	702	\$363,912	е
D. Review continuous parameter monitoring	2	7	14	14	1	1	\$726	f
4 Excess Emissions Enforcement Activities and Inspections	24	351	0	0	0	0	\$0	g
5 Notification requirements								
A. Review initial notification that sources are subject to the standard	2	5	10	10	1	1	\$518	b
B. Review notification of initial performance tests and review test plan	20	3,100	62,000	62,000	3,100	6,200	\$3,213,119	е
C. Review notification of compliance status	2	5	10	10	1	1	\$518	b
6. Reporting requirements			0	0	0	0	\$0	
A. Review semiannual compliance report	4	6	24	24	1	2	\$1,244	h
B. Review annual compliance report	2	0	0	0	0	0	\$0	i
C. Review biennial compliance report	1	4	4	4	0	0	\$181	j
D. Review initial report on results of energy audit	2	0	0	0	0	0	\$0	L
7. Travel Expenses for Tests Attended	3 days * (\$110 trip) = \$1104 p		als/incidentals) + (\$600 round			\$1,217,712	m
TOTAL BURDEN AND COST (SALARY)				113,224	5,661	11,322	\$7,085,463	
TOTAL ANNUAL HOURS				,	-	130,207	,	

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

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

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

an umber of occurences is based on the assumption that of the units that test, 10% will have to retest and EPA personnel will observe all these retests. In addition solid fuel units are expected to re-test to obtain worst-case cone Number of occurences is based on the number of units that will test and set/submit operating limits.

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

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

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

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

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

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

L Energy audits only occur at existing facilities.

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

Table 13.C. Annual Federal Government Burden and Cost of Recordkeeping and Reporting for the Industrial, Commercial, and Institutional Boiler and Process Heater Major Source NESHAP Subpart DDDDD- Year 1 - First Year After Promulgation

Burden Item	EPA hours per occurrence (A)	Number of occurrences per year (B)	EPA hours per occurrence per year (C=AxB)	Technical hours per year (D=C)	Mangmt hours per year (E=Dx0.05)	Clerical hours per year (F=Dx0.1)	(H) Costs, \$ k	Footnotes
Read and understand rule requirements	40	ρει <u>year</u> (Β)	0	0	0	0	\$0	a
Enter and update information into agency recordkeeping	40	U	0	0	0	U	ΨΟ	u
system	2	1,647	3,294	3,294	165	329	\$170,710	b
3. Required activities		, -	-, -	-, -			, .	
A. Observe initial stack/performance test	40	700	28,000	28,000	1,400	2,800	\$1,451,086	С
B. Observe repeat performance test	40	400	16,000	16,000	800	1,600	\$829,192	d
C. Review operating parameters	2	3,502	7,004	7,004	350	700	\$362,979	е
D. Review continuous parameter monitoring	2	1,584	3,168	3,168	158	317	\$164,180	f
4 Excess Emissions Enforcement Activities and Inspections	24	350	0	0	0	0	\$0	g
5 Notification requirements								
A. Review initial notification that sources are subject to the standard	2	4	8	8	0	1	\$415	b
B. Review notification of initial performance tests and review test plan	20	3,240	64,800	64,800	3,240	6,480	\$3,358,228	е
C. Review notification of compliance status	2	1,643	3,286	3,286	164	329	\$170,295	b
6. Reporting requirements			0	0	0	0	\$0	
A. Review semiannual compliance report	4	378	1,512	1,512	76	151	\$78,359	h
B. Review annual compliance report	2	521	1,042	1,042	52	104	\$54,001	i
C. Review biennial compliance report	1	472	472	472	24	47	\$24,435	j
B. Review initial report on results of energy audit	2	1,639	3,278	3,278	164	328	\$169,881	L
	3 days * (\$110 trip) = \$1104 p		als/incidentals) + (\$600 round			\$1,214,400	m
TOTAL BURDEN AND COST (SALARY)				131,864	6,593	13,186	\$8,048,160	
TOTAL ANNUAL HOURS						151,643		

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

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

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

an umber of occurences is based on the assumption that of the units that test, 10% will have to retest and EPA personnel will observe all these retests. In addition solid fuel units are expected to re-test to obtain worst-case cone Number of occurences is based on the number of units that will test and set/submit operating limits.

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

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

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

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

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

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

L Energy audits only occur at existing facilities.

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