| ICRAS SUMMARY | REPORTING | | | RECORDKEEPING | |
|---|---|---|---|---|---|
| | Annual Burden Hours | Number of Respondents (Facilities) | Number of Responses | Annualized Capital/Start-up and O&M | Annual Burden Hours |
| Year 1 | 79,248 | 1,616 | 1,637 | $ 342,692 | 498 |
| Year 2 | 163,920 | 814 | 34 | $ 90,496,334 | 956 |
| Year 3 | 229,010 | 1,623 | 3,758 | $ 112,720,111 | 152,865 |
| Overall Average Annual Estimates | 157,393 | 1,351 | 1,809 | $ 67,853,046 | 51,440 |
| *Cost per Response* | | | | $ 37,501 | |
| *Burden Hours per Response* | | | | 115 | |

| INDUSTRY | 3- year period | Average per year | Public Sector | Private Sector |
|---|---|---|---|---|
| Total HOURS | 626,497 | 208,832.49 | 13,116.97 | 195,715.53 |
| TOTAL COSTS (non-labor) | $ 203,559,137 | $ 67,853,046 | $ 4,261,914 | $ 63,591,132 |
| Total LABOR COSTS | $ 59,259,852 | $ 19,753,284 | $ 1,240,722 | $ 18,512,561 |
| TOTAL LABOR AND NON-Labor COSTS | $ 262,818,989 | $ 87,606,330 | $ 5,502,636 | $ 82,103,693 |
| | | Small Entity Respondents per year | 11 | 111 |
| | | Total Respondents per year | 85 | 1,266 |

| AGENCY | 3- year period | Average per year |
|---|---|---|
| Hours | 280,943 | 93,648 |
| Costs (labor + travel) | $ 14,766,086 | $ 4,922,029 |

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

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Stack Testing and Fuel Analysis Cost Per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year [(B+C+D)xExG] | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 117 | 4,680 | 468 | 234 | $509,079 | $0 | 0 | a |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Conduct Energy Audit | | | | | | | | | | | | | | |
| a) Commerical | 20 | $854 | $0 | $0 | 1 | 20 | 0 | 0 | 0 | 0 | $0 | $0 | | b, c, d |
| b) Industrial | 20 | $18,292 | $0 | $0 | 1 | 20 | 0 | 0 | 0 | 0 | $0 | $0 | | b, c, d |
| 2. Initial Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c,h |
| 3. Initial Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| 4. Initial Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| 5. Initial Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c,i |
| 6. Initial Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| 7. Annual Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c,j |
| 8. Annual Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c,j |
| 9. Annual Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c,j |
| 10. Annual Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c,j |
| 11. Annual Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c,j |
| 12. Initial Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | | c,g |
| 13. Monthly Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 12 | 60 | 0 | 0 | 0 | 0 | $0 | $0 | | c,g |
| 14. Continuous Parameter Monitoring | | | | | | | | | | | | | | |
| Establish Site-specific monitoring plan (all) | 40 | $0 | | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| Opacity | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $43,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| b) annual | 10 | $0 | $0 | $14,700 | 1 | 10 | 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 | | c,f |
| b) annual | 10 | $0 | $0 | $56,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| CO (only sources greater than 100 mmBtu/hr) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $160,900 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | c,f |
| b) annual | 10 | $0 | $0 | $53,600 | 1 | 10 | 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 | | c |
| b) annual | 10 | $0 | $0 | $5,600 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| Bag Leak Detection System Operation (all sources that have fabric filters) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $25,500 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| Carbon Injection Monitoring System (all sources that use ACI to control Hg) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $115,000 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 117 | 234 | 23 | 12 | $25,454 | $0 | 117 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 3) Initial Report on results of Energy Audit | 5 | $0 | $0 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 4) Semi-annual Compliance Report | 20 | $0 | $0 | $0 | 2 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| *Reporting Subtotal* | | | | | | | | 4,914 | 491 | 246 | $534,533 | $0 | 117 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | e |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of Operating Parameter Values | 20 | $0 | $0 | $0 | 1 | 20 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| 3) Records of Stack Tests | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| 4) Records of Monitoring Device Calibrations | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| 5) Records of All Compliance Reports Submitted | 2 | $0 | $0 | $0 | 2 | 4 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| 6) Records of Monthly Fuel Use | 0.5 | $0 | $0 | $0 | 12 | 6 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 0 | 0 | 0 | $0 | $0 | | |
| **Totals** | | | | | | | | **4,914** | **491** | **246** | **$534,533** | **$0** | **117** | |

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

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

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

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

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Stack Testing and Fuel Analysis Cost Per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year [(B+C+D)xExG] | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Conduct Energy Audit | | | | | | | | | | | | | | |
| a) Commerical | 20 | $854 | $0 | $0 | 1 | 20 | 7 | 140 | 14 | 7 | $15,229 | $5,978 | | b, c, d |
| b) Industrial | 20 | $18,292 | $0 | $0 | 1 | 20 | 51 | 1,020 | 102 | 51 | $110,953 | $932,892 | | b, c, d |
| 2. Initial Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 342 | 4,104 | 410 | 205 | $446,423 | $1,710,000 | | c,h |
| 3. Initial Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 491 | 5,892 | 589 | 295 | $640,917 | $3,928,000 | | c |
| 4. Initial Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 491 | 5,892 | 589 | 295 | $640,917 | $3,928,000 | | c |
| 5. Initial Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 171 | 2,052 | 205 | 103 | $223,211 | $1,197,000 | | c,i |
| 6. Initial Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 491 | 5,892 | 589 | 295 | $640,917 | $7,856,000 | | c |
| 7. Annual Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c,h,,j |
| 8. Annual Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c,j |
| 9. Annual Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c,j |
| 10. Annual Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c,l,j |
| 11. Annual Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c,j |
| 12. Initial Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | | c,g |
| 13. Monthly Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 12 | 60 | 0 | 0 | 0 | 0 | $0 | $0 | | c,g |
| 14. Continuous Parameter Monitoring | | | | | | | | | | | | | | |
| Establish Site-specific monitoring plan (all) | 40 | $0 | | $0 | 1 | 40 | 59 | 2,360 | 236 | 118 | $256,715 | $0 | | c |
| Opacity | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $43,100 | 1 | 10 | 36 | 360 | 36 | 18 | $39,160 | $1,551,600 | | c |
| b) annual | 10 | $0 | $0 | $14,700 | 1 | 10 | 36 | 360 | 36 | 18 | $39,160 | $529,200 | | c |
| PM (only sources greater than 250 mmBtu/hr) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $158,000 | 1 | 10 | 149 | 1,490 | 149 | 75 | $162,078 | $23,542,000 | | c,f |
| b) annual | 10 | $0 | $0 | $56,100 | 1 | 10 | 149 | 1,490 | 149 | 75 | $162,078 | $8,358,900 | | c |
| CO (only sources greater than 100 mmBtu/hr) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $160,900 | 1 | 10 | 320 | 3,200 | 320 | 160 | $348,088 | $51,488,000 | | c,f |
| b) annual | 10 | $0 | $0 | $53,600 | 1 | 10 | 320 | 3,200 | 320 | 160 | $348,088 | $17,152,000 | | |
| Scrubber System Monitoring and Operation (for units with wet scrubbers) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $24,300 | 1 | 10 | 384 | 3,840 | 384 | 192 | $417,706 | $9,331,200 | | c |
| b) annual | 10 | $0 | $0 | $5,600 | 1 | 10 | 384 | 3,840 | 384 | 192 | $417,706 | $2,150,400 | | c |
| Bag Leak Detection System Operation (all sources that have fabric filters) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $25,500 | 1 | 10 | 224 | 2,240 | 224 | 112 | $243,662 | $5,712,000 | | c |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 224 | 2,240 | 224 | 112 | $243,662 | $2,172,800 | | c |
| Carbon Injection Monitoring System (all sources that use ACI to control Hg) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $115,000 | 1 | 10 | 73 | 730 | 73 | 37 | $79,408 | $8,395,000 | | c |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 73 | 730 | 73 | 37 | $79,408 | $708,100 | | c |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 3) Initial Report on results of Energy Audit | 5 | $0 | $0 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 4) Semi-annual Compliance Report | 20 | $0 | $0 | $0 | 2 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| *Reporting Subtotal* | | | | | | | | 51,072 | 5,107 | 2,554 | $5,555,484 | $150,649,070 | 0 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | e |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of Operating Parameter Values | 20 | $0 | $0 | $0 | 1 | 20 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 3) Records of Stack Tests | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 4) Records of Monitoring Device Calibrations | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 5) Records of All Compliance Reports Submitted | 2 | $0 | $0 | $0 | 2 | 4 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 6) Records of Monthly Fuel Use | 0.5 | $0 | $0 | $0 | 12 | 6 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 0 | 0 | 0 | $0 | $0 | 0 | |
| **Totals** | | | | | | | | **51,072** | **5,107** | **2,554** | **$5,555,484** | **$150,649,070** | **0** | |

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

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

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

professionals.

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

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

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

h Only units 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 units less than 100 mmBtu/hr are expected to perform stack testing for CO. Units greater than 100 mmBtu/hr will be equipped with a CO CEMS

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.

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

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Stack Testing and Fuel Analysis Cost Per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year [(B+C+D)xExG] | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Conduct Energy Audit | | | | | | | | | | | | | | b, c, d |
| a) Commerical | 20 | $854 | $0 | $0 | 1 | 20 | 6 | 120 | 12 | 6 | $13,053 | $5,124 | | b, c, d |
| b) Industrial | 20 | $18,292 | $0 | $0 | 1 | 20 | 50 | 1,000 | 100 | 50 | $108,778 | $914,600 | | |
| 2. Initial Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 342 | 4,104 | 410 | 205 | $446,423 | $1,710,000 | | c,h |
| 3. Initial Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 491 | 5,892 | 589 | 295 | $640,917 | $3,928,000 | | c |
| 4. Initial Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 491 | 5,892 | 589 | 295 | $640,917 | $3,928,000 | | c |
| 5. Initial Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 171 | 2,052 | 205 | 103 | $223,211 | $1,197,000 | | c,i |
| 6. Initial Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 491 | 5,892 | 589 | 295 | $640,917 | $7,856,000 | | c |
| 7. Annual Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 342 | 4,104 | 410 | 205 | $446,423 | $1,710,000 | | c,h,,j |
| 8. Annual Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 491 | 5,892 | 589 | 295 | $640,917 | $3,928,000 | | c,j |
| 9. Annual Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 491 | 5,892 | 589 | 295 | $640,917 | $3,928,000 | | c,j |
| 10. Annual Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 171 | 2,052 | 205 | 103 | $223,211 | $1,197,000 | | c,l,j |
| 11. Annual Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 491 | 5,892 | 589 | 295 | $640,917 | $7,856,000 | | c,j |
| 12. Initial Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | | c,g |
| 13. Monthly Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 12 | 60 | 0 | 0 | 0 | 0 | $0 | $0 | | c,g |
| 14. Continuous Parameter Monitoring | | | | | | | | | | | | | | |
| Establish Site-specific monitoring plan (all) | 40 | $0 | | $0 | 1 | 40 | 59 | 2,340 | 234 | 117 | $254,539 | $0 | | c |
| Opacity | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $43,100 | 1 | 10 | 36 | 360 | 36 | 18 | $39,160 | $1,551,600 | | c |
| b) annual | 10 | $0 | $0 | $14,700 | 1 | 10 | 36 | 360 | 36 | 18 | $39,160 | $529,200 | | c |
| PM (only sources greater than 250 mmBtu/hr) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $158,000 | 1 | 10 | 149 | 1,490 | 149 | 75 | $162,078 | $23,542,000 | | c,f |
| b) annual | 10 | $0 | $0 | $56,100 | 1 | 10 | 149 | 1,490 | 149 | 75 | $162,078 | $8,358,900 | | c |
| CO (only sources greater than 100 mmBtu/hr) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $160,900 | 1 | 10 | 320 | 3,200 | 320 | 160 | $348,088 | $51,488,000 | | c,f |
| b) annual | 10 | $0 | $0 | $53,600 | 1 | 10 | 320 | 3,200 | 320 | 160 | $348,088 | $17,152,000 | | |
| Scrubber System Monitoring and Operation (for units with wet scrubbers) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $24,300 | 1 | 10 | 384 | 3,840 | 384 | 192 | $417,706 | $9,331,200 | | c |
| b) annual | 10 | $0 | $0 | $5,600 | 1 | 10 | 384 | 3,840 | 384 | 192 | $417,706 | $2,150,400 | | c |
| Bag Leak Detection System Operation (all sources that have fabric filters) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $25,500 | 1 | 10 | 224 | 2,240 | 224 | 112 | $243,662 | $5,712,000 | | c |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 224 | 2,240 | 224 | 112 | $243,662 | $2,172,800 | | c |
| Carbon Injection Monitoring System (all sources that use ACI to control Hg) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $115,000 | 1 | 10 | 73 | 730 | 73 | 37 | $79,408 | $8,395,000 | | c |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 73 | 730 | 73 | 37 | $79,408 | $708,100 | | c |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 117 | 936 | 94 | 47 | $101,816 | $0 | 117 | c |
| 3) Initial Report on results of Energy Audit | 5 | $0 | $0 | $0 | 1 | 5 | 117 | 585 | 59 | 29 | $63,635 | $0 | 117 | c |
| 4) Semi-annual Compliance Report | 20 | $0 | $0 | $0 | 2 | 40 | 117 | 4,680 | 468 | 234 | $509,079 | $0 | 234 | a |
| *Reporting Subtotal* | | | | | | | | 81,045 | 8,105 | 4,052 | $8,815,872 | $169,248,924 | 468 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | e |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of Operating Parameter Values | 20 | $0 | $0 | $0 | 1 | 20 | 981 | 19,620 | 1,962 | 981 | $2,134,215 | $0 | | c |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 981 | 14,715 | 1,472 | 736 | $1,600,661 | $0 | | c |
| 3) Records of Stack Tests | 2 | $0 | $0 | $0 | 1 | 2 | 981 | 1,962 | 196 | 98 | $213,421 | $0 | | c |
| 4) Records of Monitoring Device Calibrations | 2 | $0 | $0 | $0 | 1 | 2 | 981 | 1,962 | 196 | 98 | $213,421 | $0 | | c |
| 5) Records of All Compliance Reports Submitted | 2 | $0 | $0 | $0 | 2 | 4 | 981 | 3,924 | 392 | 196 | $426,843 | $0 | | c |
| 6) Records of Monthly Fuel Use | 0.5 | $0 | $0 | $0 | 12 | 6 | 981 | 5,886 | 589 | 294 | $640,264 | $0 | | c |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 48,069 | 4,807 | 2,403 | $5,228,826 | $0 | 0 | |
| **Totals** | | | | | | | | **129,114** | **12,911** | **6,456** | **$14,044,698** | **$169,248,924** | **468** | |

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

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

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

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

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

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

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

h Only units 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 units less than 100 mmBtu/hr are expected to perform stack testing for CO. Units greater than 100 mmBtu/hr will be equipped with a CO CEMS

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.

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

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Stack Testing and Fuel Analysis Cost Per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year [(B+C+D)xExG] | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 69 | 2,760 | 276 | 138 | $300,226 | $0 | 0 | a |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Conduct Energy Audit | | | | | | | | | | | | | | b, c, d |
| 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 | |
| 2. Initial Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c,h |
| 3. Initial Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 4. Initial Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 5. Initial Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c,i |
| 6. Initial Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 7. Annual Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c,h,,j |
| 8. Annual Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c,j |
| 9. Annual Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c,j |
| 10. Annual Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c,I,j |
| 11. Annual Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c,j |
| 12. Initial Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c,g |
| 13. Monthly Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 12 | 60 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c,g |
| 14. Continuous Parameter Monitoring | | | | | | | | | | | | | | |
| Establish Site-specific monitoring plan (all) | 40 | $0 | | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| Opacity | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $43,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| b) annual | 10 | $0 | $0 | $14,700 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| PM (only sources greater than 250 mmBtu/hr) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $158,000 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c,f |
| b) annual | 10 | $0 | $0 | $56,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| CO (only sources greater than 100 mmBtu/hr) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $160,900 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c,f |
| b) annual | 10 | $0 | $0 | $53,600 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| Scrubber System Monitoring and Operation (for units with wet scrubbers) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $24,300 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| b) annual | 10 | $0 | $0 | $5,600 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| Bag Leak Detection System Operation (all sources that have fabric filters) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $25,500 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| Carbon Injection Monitoring System (all sources that use ACI to control Hg) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $115,000 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 69 | 138 | 14 | 7 | $15,011 | $0 | 69 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 3) Initial Report on results of Energy Audit | 5 | $0 | $0 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 4) Semi-annual Compliance Report | 20 | $0 | $0 | $0 | 2 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| *Reporting Subtotal* | | | | | | | | 2,898 | 290 | 145 | $315,237 | $0 | 69 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | e |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of Operating Parameter Values | 20 | $0 | $0 | $0 | 1 | 20 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 3) Records of Stack Tests | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 4) Records of Monitoring Device Calibrations | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 5) Records of All Compliance Reports Submitted | 2 | $0 | $0 | $0 | 2 | 4 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 6) Records of Monthly Fuel Use | 0.5 | $0 | $0 | $0 | 12 | 6 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 0 | 0 | 0 | $0 | $0 | 0 | |
| **Totals** | | | | | | | | **2,898** | **290** | **145** | **$315,237** | **$0** | **69** | |

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

g Existing large liquid units are expected to determine compliance for Hg and HCl through fuel analysis not stack testing. Fuel testing is only required every 5 years so no annual burden is assigned in years 2 and 3.

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 units less than 100 mmBtu/hr are expected to perform stack testing for CO. Units greater than 100 mmBtu/hr will be equipped with a CO 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.

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

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Stack Testing and Fuel Analysis Cost Per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year [(B+C+D)xExG] | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Conduct Energy Audit | | | | | | | | | | | | | | |
| a) Commerical | 20 | $854 | $0 | $0 | 1 | 20 | 4 | 80 | 8 | 4 | $8,702 | $3,416 | | b, c, d |
| b) Industrial | 20 | $18,292 | $0 | $0 | 1 | 20 | 30 | 600 | 60 | 30 | $65,267 | $548,760 | | b, c, d |
| 2. Initial Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 291 | 3,492 | 349 | 175 | $379,851 | $1,455,000 | | c,h |
| 3. Initial Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| 4. Initial Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| 5. Initial Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 38 | 456 | 46 | 23 | $49,603 | $266,000 | | c,i |
| 6. Initial Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 291 | 3,492 | 349 | 175 | $379,851 | $4,656,000 | | c |
| 7. Annual Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c,h,,j |
| 8. Annual Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c,j |
| 9. Annual Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c,j |
| 10. Annual Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c,l,j |
| 11. Annual Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c,j |
| 12. Initial Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 1 | 5 | 291 | 1,455 | 146 | 73 | $158,271 | $116,400 | | c,g |
| 13. Monthly Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 12 | 60 | 0 | 0 | 0 | 0 | $0 | $0 | | c,g |
| 14. Continuous Parameter Monitoring | | | | | | | | | | | | | | |
| Establish Site-specific monitoring plan (all) | 40 | $0 | | $0 | 1 | 40 | 35 | 1,380 | 138 | 69 | $150,113 | $0 | | c |
| Opacity | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $43,100 | 1 | 10 | 2 | 20 | 2 | 1 | $2,176 | $86,200 | | c |
| b) annual | 10 | $0 | $0 | $14,700 | 1 | 10 | 2 | 20 | 2 | 1 | $2,176 | $29,400 | | c |
| PM (only sources greater than 250 mmBtu/hr) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $158,000 | 1 | 10 | 5 | 50 | 5 | 3 | $5,439 | $790,000 | | c,f |
| b) annual | 10 | $0 | $0 | $56,100 | 1 | 10 | 5 | 50 | 5 | 3 | $5,439 | $280,500 | | c |
| CO (only sources greater than 100 mmBtu/hr) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $160,900 | 1 | 10 | 14 | 140 | 14 | 7 | $15,229 | $2,252,600 | | c,f |
| b) annual | 10 | $0 | $0 | $53,600 | 1 | 10 | 14 | 140 | 14 | 7 | $15,229 | $750,400 | | |
| Scrubber System Monitoring and Operation (for units with wet scrubbers) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $24,300 | 1 | 10 | 289 | 2,890 | 289 | 145 | $314,367 | $7,022,700 | | c |
| b) annual | 10 | $0 | $0 | $5,600 | 1 | 10 | 289 | 2,890 | 289 | 145 | $314,367 | $1,618,400 | | c |
| Bag Leak Detection System Operation (all sources that have fabric filters) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $25,500 | 1 | 10 | 1 | 10 | 1 | 1 | $1,088 | $25,500 | | c |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 1 | 10 | 1 | 1 | $1,088 | $9,700 | | c |
| Carbon Injection Monitoring System (all sources that use ACI to control Hg) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $115,000 | 1 | 10 | 1 | 10 | 1 | 1 | $1,088 | $115,000 | | c,k |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 1 | 10 | 1 | 1 | $1,088 | $9,700 | | c |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 3) Initial Report on results of Energy Audit | 5 | $0 | $0 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 4) Semi-annual Compliance Report | 20 | $0 | $0 | $0 | 2 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| *Reporting Subtotal* | | | | | | | | 17,195 | 1,720 | 860 | $1,870,429 | $20,035,676 | 0 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | e |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of Operating Parameter Values | 20 | $0 | $0 | $0 | 1 | 20 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| 3) Records of Stack Tests | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| 4) Records of Monitoring Device Calibrations | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| 5) Records of All Compliance Reports Submitted | 2 | $0 | $0 | $0 | 2 | 4 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| 6) Records of Monthly Fuel Use | 0.5 | $0 | $0 | $0 | 12 | 6 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 0 | 0 | 0 | $0 | $0 | | |
| **Totals** | | | | | | | | **17,195** | **1,720** | **860** | **$1,870,429** | **$20,035,676** | **0** | |

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

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

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

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

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

g Existing large liquid units are expected to determine compliance for Hg and HCl through fuel analysis not stack testing. Fuel testing is only required every 5 years so no annual burden is assigned in years 2 and 3.

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 units less than 100 mmBtu/hr are expected to perform stack testing for CO. Units greater than 100 mmBtu/hr will be equipped with a CO CEMS

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 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

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

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Stack Testing and Fuel Analysis Cost Per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year [(B+C+D)xExG] | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Conduct Energy Audit | | | | | | | | | | | | | | |
| a) Commerical | 20 | $854 | $0 | $0 | 1 | 20 | 4 | 80 | 8 | 4 | $8,702 | $3,416 | | b, c, d |
| b) Industrial | 20 | $18,292 | $0 | $0 | 1 | 20 | 30 | 600 | 60 | 30 | $65,267 | $548,760 | | b, c, d |
| 2. Initial Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 291 | 3,492 | 349 | 175 | $379,851 | $1,455,000 | | c,h |
| 3. Initial Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| 4. Initial Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| 5. Initial Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 38 | 456 | 46 | 23 | $49,603 | $266,000 | | c,i |
| 6. Initial Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 291 | 3,492 | 349 | 175 | $379,851 | $4,656,000 | | c |
| 7. Annual Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 291 | 3,492 | 349 | 175 | $379,851 | $1,455,000 | | c,h,,j |
| 8. Annual Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c,j |
| 9. Annual Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c,j |
| 10. Annual Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 38 | 456 | 46 | 23 | $49,603 | $266,000 | | c,I,j |
| 11. Annual Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 291 | 3,492 | 349 | 175 | $379,851 | $4,656,000 | | c,j |
| 12. Initial Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 1 | 5 | 291 | 1,455 | 146 | 73 | $158,271 | $116,400 | | c,g |
| 13. Monthly Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 12 | 60 | 0 | 0 | 0 | 0 | $0 | $0 | | c,g |
| 14. Continuous Parameter Monitoring | | | | | | | | | | | | | | |
| Establish Site-specific monitoring plan (all) | 40 | $0 | | $0 | 1 | 40 | 35 | 1,380 | 138 | 69 | $150,113 | $0 | | c |
| Opacity | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $43,100 | 1 | 10 | 2 | 20 | 2 | 1 | $2,176 | $86,200 | | c |
| b) annual | 10 | $0 | $0 | $14,700 | 1 | 10 | 2 | 20 | 2 | 1 | $2,176 | $29,400 | | c |
| PM (only sources greater than 250 mmBtu/hr) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $158,000 | 1 | 10 | 5 | 50 | 5 | 3 | $5,439 | $790,000 | | c,f |
| b) annual | 10 | $0 | $0 | $56,100 | 1 | 10 | 5 | 50 | 5 | 3 | $5,439 | $280,500 | | c |
| CO (only sources greater than 100 mmBtu/hr) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $160,900 | 1 | 10 | 14 | 140 | 14 | 7 | $15,229 | $2,252,600 | | c,f |
| b) annual | 10 | $0 | $0 | $53,600 | 1 | 10 | 14 | 140 | 14 | 7 | $15,229 | $750,400 | | |
| Scrubber System Monitoring and Operation (for units with wet scrubbers) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $24,300 | 1 | 10 | 289 | 2,890 | 289 | 145 | $314,367 | $7,022,700 | | c |
| b) annual | 10 | $0 | $0 | $5,600 | 1 | 10 | 289 | 2,890 | 289 | 145 | $314,367 | $1,618,400 | | c |
| Bag Leak Detection System Operation (all sources that have fabric filters) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $25,500 | 1 | 10 | 1 | 10 | 1 | 1 | $1,088 | $25,500 | | c |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 1 | 10 | 1 | 1 | $1,088 | $9,700 | | c |
| Carbon Injection Monitoring System (all sources that use ACI to control Hg) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $115,000 | 1 | 10 | 1 | 10 | 1 | 1 | $1,088 | $115,000 | | c,k |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 1 | 10 | 1 | 1 | $1,088 | $9,700 | | c |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 69 | 552 | 55 | 28 | $60,045 | $0 | 69 | c |
| 3) Initial Report on results of Energy Audit | 5 | $0 | $0 | $0 | 1 | 5 | 69 | 345 | 35 | 17 | $37,528 | $0 | 69 | c |
| 4) Semi-annual Compliance Report | 20 | $0 | $0 | $0 | 2 | 40 | 69 | 2,760 | 276 | 138 | $300,226 | $0 | 138 | c |
| *Reporting Subtotal* | | | | | | | | 28,292 | 2,829 | 1,415 | $3,077,533 | $26,412,676 | 276 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | e |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of Operating Parameter Values | 20 | $0 | $0 | $0 | 1 | 20 | 581 | 11,620 | 1,162 | 581 | $1,263,995 | $0 | | c |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 581 | 8,715 | 872 | 436 | $947,996 | $0 | | c |
| 3) Records of Stack Tests | 2 | $0 | $0 | $0 | 1 | 2 | 581 | 1,162 | 116 | 58 | $126,399 | $0 | | c |
| 4) Records of Monitoring Device Calibrations | 2 | $0 | $0 | $0 | 1 | 2 | 581 | 1,162 | 116 | 58 | $126,399 | $0 | | c |
| 5) Records of All Compliance Reports Submitted | 2 | $0 | $0 | $0 | 2 | 4 | 581 | 2,324 | 232 | 116 | $252,799 | $0 | | c |
| 6) Records of Monthly Fuel Use | 0.5 | $0 | $0 | $0 | 12 | 6 | 581 | 3,486 | 349 | 174 | $379,198 | $0 | | c |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 28,469 | 2,847 | 1,423 | $3,096,787 | $0 | | |
| **Totals** | | | | | | | | **56,761** | **5,676** | **2,838** | **$6,174,320** | **$26,412,676** | **276** | |

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

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

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

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

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

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

g Existing large liquid units are expected to determine compliance for Hg and HCl through fuel analysis not stack testing. Fuel testing is only required every 5 years so no annual burden is assigned in years 2 and 3.

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 units less than 100 mmBtu/hr are expected to perform stack testing for CO. Units greater than 100 mmBtu/hr will be equipped with a CO CEMS

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 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

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

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Stack Testing and Fuel Analysis Cost Per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year [(B+C+D)xExG] | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 544 | 21,760 | 2,176 | 1,088 | $2,366,998 | $0 | 0 | a |
| B. Required Activities | | | | | | | | | | | | | 0 | |
| 1. Conduct Energy Audit | | | | | | | | | | | | | 0 | |
| a) Commerical | 20 | $854 | $0 | $0 | 1 | 20 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | b, c, d |
| b) Industrial | 20 | $18,292 | $0 | $0 | 1 | 20 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | b, c, d |
| 2. Initial Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c,j,k |
| 3. Initial Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c,j,k |
| 4. Initial Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c,j,k |
| 5. Initial Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c,j,k |
| 6. Initial Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c,j,k |
| 7. Annual Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c,j,k |
| 8. Annual Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c,j,k |
| 9. Annual Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c,j,k |
| 10. Annual Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c,j,k |
| 11. Annual Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c,j,k |
| 12. Initial Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c,g |
| 13. Monthly Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 12 | 60 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c,g |
| 14. Continuous Parameter Monitoring | | | | | | | | | | | | | 0 | |
| Establish Site-specific monitoring plan (all) | 40 | $0 | | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| Opacity | | | | | | | | | | | | | 0 | |
| 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) | | | | | | | | | | | | | 0 | |
| 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 |
| CO (only sources greater than 100 mmBtu/hr) | | | | | | | | | | | | | 0 | |
| a) initial | 10 | $0 | $0 | $160,900 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c,f |
| b) annual | 10 | $0 | $0 | $53,600 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c,f |
| Scrubber System Monitoring and Operation (for units with wet scrubbers) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $24,300 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| b) annual | 10 | $0 | $0 | $5,600 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| Bag Leak Detection System Operation (all sources that have fabric filters) | | | | | | | | | | | | | 0 | |
| a) initial | 10 | $0 | $0 | $25,500 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 15. Annual Tune-up | 12 | $0 | $2,875 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| C. Create Information | na | | | | | | | | | | | | 0 | |
| D. Gather Information | na | | | | | | | | | | | | 0 | |
| E. Report Preparation | | | | | | | | | | | | | 0 | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 544 | 1,088 | 109 | 54 | $118,350 | $0 | 544 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 3) Initial Report on results of Energy Audit | 5 | $0 | $0 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 4) Semi-annual Compliance Report | 20 | $0 | $0 | $0 | 2 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| *Reporting Subtotal* | | | | | | | | 22,848 | 2,285 | 1,142 | $2,485,348 | $0 | 544 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | e |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of Operating Parameter Values | 20 | $0 | $0 | $0 | 1 | 20 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| 3) Records of Stack Tests | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| 4) Records of Monitoring Device Calibrations | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| 5) Records of All Compliance Reports Submitted | 2 | $0 | $0 | $0 | 2 | 4 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| 6) Records of Monthly Fuel Use | 0.5 | $0 | $0 | $0 | 12 | 6 | 0 | 0 | 0 | 0 | $0 | $0 | | c,g |
| 7) Records of Annual Tune-up | 0.25 | $0 | $0 | $0 | 1 | 0.25 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 0 | 0 | 0 | $0 | $0 | | |
| **Totals** | | | | | | | | **22,848** | **2,285** | **1,142** | **$2,485,348** | **$0** | **544** | |

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

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

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

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

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

f Only the number of existing process gas (Gas 2) fuel units with a rated heat input capacity of 100 mmBtu/hr or greater are subject to continuous monitoring requirements and records of monitoring device calibrations.

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

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

i Only gas 2 units less than 100 mmBtu/hr are expected to perform stack testing for CO. Gas 2 units greater than 100 mmBtu/hr will be equipped with a CO CEMS

j The units firing process gases other than natural gas or refinery gases have limits for 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.

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

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Stack Testing and Fuel Analysis Cost Per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year [(B+C+D)xExG] | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Conduct Energy Audit | | | | | | | | | | | | | | |
| a) Commerical | 20 | $854 | $0 | $0 | 1 | 20 | 34 | 680 | 68 | 34 | $73,969 | $29,036 | | b, c, d |
| b) Industrial | 20 | $18,292 | $0 | $0 | 1 | 20 | 238 | 4,760 | 476 | 238 | $517,781 | $4,353,496 | | b, c, d |
| 2. Initial Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 99 | 1,188 | 119 | 59 | $129,228 | $495,000 | | c,j,k |
| 3. Initial Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 99 | 1,188 | 119 | 59 | $129,228 | $792,000 | | c,j,k |
| 4. Initial Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 99 | 1,188 | 119 | 59 | $129,228 | $792,000 | | c,j,k |
| 5. Initial Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 38 | 456 | 46 | 23 | $49,603 | $266,000 | | c,j,k |
| 6. Initial Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 99 | 1,188 | 119 | 59 | $129,228 | $1,584,000 | | c,j,k |
| 7. Annual Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c,j,k |
| 8. Annual Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c,j,k |
| 9. Annual Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c,j,k |
| 10. Annual Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c,j,k |
| 11. Annual Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c,j,k |
| 12. Initial Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | | c,g |
| 13. Monthly Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 12 | 60 | 0 | 0 | 0 | 0 | $0 | $0 | | c,g |
| 14. Continuous Parameter Monitoring | | | | | | | | | | | | | | |
| Establish Site-specific monitoring plan (all) | 40 | $0 | | $0 | 1 | 40 | 12 | 480 | 48 | 24 | $52,213 | $0 | | c |
| Opacity | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $43,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | c,h |
| b) annual | 10 | $0 | $0 | $14,700 | 1 | 10 | 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 | | c,h |
| b) annual | 10 | $0 | $0 | $56,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | c,h |
| CO (only sources greater than 100 mmBtu/hr) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $160,900 | 1 | 10 | 7 | 70 | 7 | 4 | $7,614 | $1,126,300 | | c,f |
| b) annual | 10 | $0 | $0 | $53,600 | 1 | 10 | 7 | 70 | 7 | 4 | $7,614 | $375,200 | | c,f |
| Scrubber System Monitoring and Operation (for units with wet scrubbers) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $24,300 | 1 | 10 | 96 | 960 | 96 | 48 | $104,426 | $2,332,800 | | c |
| b) annual | 10 | $0 | $0 | $5,600 | 1 | 10 | 96 | 960 | 96 | 48 | $104,426 | $537,600 | | c |
| Bag Leak Detection System Operation (all sources that have fabric filters) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $25,500 | 1 | 10 | 96 | 960 | 96 | 48 | $104,426 | $2,448,000 | | c |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 96 | 960 | 96 | 48 | $104,426 | $931,200 | | c |
| 15. Annual Tune-up | 12 | $0 | $2,875 | $0 | 1 | 12 | 2,194 | 26,328 | 2,633 | 1,316 | $2,863,894 | $6,307,750 | | c,k |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | 0 | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 3) Initial Report on results of Energy Audit | 5 | $0 | $0 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 4) Semi-annual Compliance Report | 20 | $0 | $0 | $0 | 2 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| *Reporting Subtotal* | | | | | | | | 41,436 | 4,144 | 2,072 | $4,507,304 | $22,370,382 | 0 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | e |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of Operating Parameter Values | 20 | $0 | $0 | $0 | 1 | 20 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| 3) Records of Stack Tests | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| 4) Records of Monitoring Device Calibrations | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| 5) Records of All Compliance Reports Submitted | 2 | $0 | $0 | $0 | 2 | 4 | 0 | 0 | 0 | 0 | $0 | $0 | | c |
| 6) Records of Monthly Fuel Use | 0.5 | $0 | $0 | $0 | 12 | 6 | 0 | 0 | 0 | 0 | $0 | $0 | | c,g |
| 7) Records of Annual Tune-up | 0.25 | $0 | $0 | $0 | 1 | 0.25 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 0 | 0 | 0 | $0 | $0 | | |
| **Totals** | | | | | | | | **41,436** | **4,144** | **2,072** | **$4,507,304** | **$22,370,382** | **0** | |

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

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

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

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

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

f Only the number of existing process gas (Gas 2) fuel units with a rated heat input capacity of 100 mmBtu/hr or greater are subject to continuous monitoring requirements and records of monitoring device calibrations.

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

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

i Only gas 2 units less than 100 mmBtu/hr are expected to perform stack testing for CO. Units greater than 100 mmBtu/hr will be equipped with a CO CEMS

j The units firing process gases other than refinery gases have limits for 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.

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

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Stack Testing and Fuel Analysis Cost Per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year [(B+C+D)xExG] | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Conduct Energy Audit | | | | | | | | | | | | | | |
| a) Commerical | 20 | $854 | $0 | $0 | 1 | 20 | 34 | 680 | 68 | 34 | $73,969 | $29,036 | | b, c, d |
| b) Industrial | 20 | $18,292 | $0 | $0 | 1 | 20 | 238 | 4,760 | 476 | 238 | $517,781 | $4,353,496 | | b, c, d |
| 2. Initial Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 99 | 1,188 | 119 | 59 | $129,228 | $495,000 | | c,j,k |
| 3. Initial Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 99 | 1,188 | 119 | 59 | $129,228 | $792,000 | | c,j,k |
| 4. Initial Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 99 | 1,188 | 119 | 59 | $129,228 | $792,000 | | c,j,k |
| 5. Initial Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 38 | 456 | 46 | 23 | $49,603 | $266,000 | | c,j,k |
| 6. Initial Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 99 | 1,188 | 119 | 59 | $129,228 | $1,584,000 | | c,j,k |
| 7. Annual Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c,j,k |
| 8. Annual Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c,j,k |
| 9. Annual Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c,j,k |
| 10. Annual Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c,j,k |
| 11. Annual Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | c,j,k |
| 12. Initial Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | | c,g |
| 13. Monthly Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 12 | 60 | 0 | 0 | 0 | 0 | $0 | $0 | | c,g |
| 14. Continuous Parameter Monitoring | | | | | | | | | | | | | | |
| Establish Site-specific monitoring plan (all) | 40 | $0 | | $0 | 1 | 40 | 12 | 480 | 48 | 24 | $52,213 | $0 | | c |
| Opacity | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $43,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | c,h |
| b) annual | 10 | $0 | $0 | $14,700 | 1 | 10 | 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 | | c,h |
| b) annual | 10 | $0 | $0 | $56,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | c,h |
| CO (only sources greater than 100 mmBtu/hr) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $160,900 | 1 | 10 | 7 | 70 | 7 | 4 | $7,614 | $1,126,300 | | c,f |
| b) annual | 10 | $0 | $0 | $53,600 | 1 | 10 | 7 | 70 | 7 | 4 | $7,614 | $375,200 | | c,f |
| Scrubber System Monitoring and Operation (for units with wet scrubbers) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $24,300 | 1 | 10 | 98 | 980 | 98 | 49 | $106,602 | $2,381,400 | | c |
| b) annual | 10 | $0 | $0 | $5,600 | 1 | 10 | 98 | 980 | 98 | 49 | $106,602 | $548,800 | | c |
| Bag Leak Detection System Operation (all sources that have fabric filters) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $25,500 | 1 | 10 | 96 | 960 | 96 | 48 | $104,426 | $2,448,000 | | c |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 96 | 960 | 96 | 48 | $104,426 | $931,200 | | c |
| 15. Annual Tune-up | 12 | $0 | $2,875 | $0 | 1 | 12 | 1,158 | 13,890 | 1,389 | 695 | $1,510,919 | $3,327,813 | | c,k |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 544 | 4,352 | 435 | 218 | $473,400 | $0 | 544 | c |
| 3) Initial Report on results of Energy Audit | 5 | $0 | $0 | $0 | 1 | 5 | 544 | 2,720 | 272 | 136 | $295,875 | $0 | 544 | c |
| 4) Annual Compliance Report | 20 | $0 | $0 | $0 | 1 | 20 | 521 | 10,420 | 1,042 | 521 | $1,133,462 | $0 | 521 | c, L |
| 5) Semi-annual Compliance Report | 20 | $0 | $0 | $0 | 2 | 40 | 23 | 920 | 92 | 46 | $100,075 | $0 | 46 | c, L |
| *Reporting Subtotal* | | | | | | | | 47,450 | 4,745 | 2,373 | $5,161,492 | $19,450,245 | 1,655 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | e |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of Operating Parameter Values | 20 | $0 | $0 | $0 | 1 | 20 | 198 | 3,960 | 396 | 198 | $430,759 | $0 | | c |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 198 | 2,970 | 297 | 149 | $323,069 | $0 | | c |
| 3) Records of Stack Tests | 2 | $0 | $0 | $0 | 1 | 2 | 198 | 396 | 40 | 20 | $43,076 | $0 | | c |
| 4) Records of Monitoring Device Calibrations | 2 | $0 | $0 | $0 | 1 | 2 | 198 | 396 | 40 | 20 | $43,076 | $0 | | c |
| 5) Records of All Annual Compliance Reports Submitted | 2 | $0 | $0 | $0 | 1 | 2 | 4,388 | 8,776 | 878 | 439 | $954,631 | $0 | | c, L |
| 6) Records of All Semi-Annual Compliance Reports Submitted | 2 | $0 | $0 | $0 | 2 | 4 | 198 | 792 | 79 | 40 | $86,152 | $0 | | c, L |
| 7) Records of Monthly Fuel Use | 0.5 | $0 | $0 | $0 | 12 | 6 | 4,586 | 27,516 | 2,752 | 1,376 | $2,993,122 | $0 | | c,g |
| 8) Records of Annual Tune-up | 0.25 | $0 | $0 | $0 | 1 | 0.25 | 4,586 | 1,147 | 115 | 57 | $124,713 | $0 | 4,586 | c |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 45,953 | 4,595 | 2,298 | $4,998,598 | $0 | | |
| **Totals** | | | | | | | | **93,403** | **9,340** | **4,670** | **$10,160,090** | **$19,450,245** | **1,655** | |

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

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

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

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

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

f Only the number of existing process gas (Gas 2) fuel units with a rated heat input capacity of 100 mmBtu/hr or greater are subject to continuous monitoring requirements and records of monitoring device calibrations.

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

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

i Only gas 2 units less than 100 mmBtu/hr are expected to perform stack testing for CO. Units greater than 100 mmBtu/hr will be equipped with a CO CEMS

j The units firing process gases other than refinery gases have limits for 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.

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

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Stack Testing and Fuel Analysis Cost Per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year [(B+C+D)xExG] | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| B. Required Activities | | | | | | | | | | | | | 0 | |
| 1. Initial Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 2. Initial Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 3. Initial Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 4. Initial Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 5. Initial Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 6. Annual Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 7. Annual Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 8. Annual Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 9. Annual Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 10. Annual Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 11. Initial Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 12. Monthly Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 12 | 60 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 13. Continuous Parameter Monitoring | | | | | | | | | | | | | 0 | |
| Establish Site-specific monitoring plan (all) | 40 | $0 | | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| Opacity | | | | | | | | | | | | | 0 | |
| 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) | | | | | | | | | | | | | 0 | |
| 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 | |
| CO (only sources greater than 100 mmBtu/hr) | | | | | | | | | | | | | 0 | |
| a) initial | 10 | $0 | $0 | $160,900 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| b) annual | 10 | $0 | $0 | $53,600 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| Scrubber System Monitoring and Operation (for units with wet scrubbers) | | | | | | | | | | | | | 0 | |
| 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 (all sources that have fabric filters) | | | | | | | | | | | | | 0 | |
| 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) | | | | | | | | | | | | | 0 | |
| 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 | | | | | | | | | | | | 0 | |
| D. Gather Information | na | | | | | | | | | | | | 0 | |
| E. Report Preparation | | | | | | | | | | | | | 0 | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 3) Initial Report on results of Energy Audit | 5 | $0 | $0 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 4) Semi-annual Compliance Report | 20 | $0 | $0 | $0 | 2 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| *Reporting Subtotal* | | | | | | | | 0 | 0 | 0 | $0 | $0 | 0 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of Operating Parameter Values | 20 | $0 | $0 | $0 | 1 | 20 | 0 | 0 | 0 | 0 | $0 | $0 | | |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 0 | 0 | 0 | 0 | $0 | $0 | | |
| 3) Records of Stack Tests | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | | |
| 4) Records of Monitoring Device Calibrations | 2 | $0 | $0 | $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 | | |
| 6) Records of Monthly Fuel Use | 0.5 | $0 | $0 | $0 | 12 | 6 | 0 | 0 | 0 | 0 | $0 | $0 | | |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 0 | 0 | 0 | $0 | $0 | | |
| **Totals** | | | | | | | | **0** | **0** | **0** | **$0** | **$0** | **0** | |

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

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

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Stack Testing and Fuel Analysis Cost Per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year [(B+C+D)xExG] | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| B. Required Activities | | | | | | | | | | | | | 0 | |
| 1. Initial Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 2. Initial Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 3. Initial Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 4. Initial Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 5. Initial Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 6. Annual Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 7. Annual Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 8. Annual Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 9. Annual Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 10. Annual Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 11. Initial Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 12. Monthly Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 12 | 60 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 13. Continuous Parameter Monitoring | | | | | | | | | | | | | 0 | |
| Establish Site-specific monitoring plan (all) | 40 | $0 | | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| Opacity | | | | | | | | | | | | | 0 | |
| 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) | | | | | | | | | | | | | 0 | |
| 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 | |
| CO (only sources greater than 100 mmBtu/hr) | | | | | | | | | | | | | 0 | |
| a) initial | 10 | $0 | $0 | $160,900 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| b) annual | 10 | $0 | $0 | $53,600 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| Scrubber System Monitoring and Operation (for units with wet scrubbers) | | | | | | | | | | | | | 0 | |
| 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 (all sources that have fabric filters) | | | | | | | | | | | | | 0 | |
| 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) | | | | | | | | | | | | | 0 | |
| 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 | | | | | | | | | | | | 0 | |
| D. Gather Information | na | | | | | | | | | | | | 0 | |
| E. Report Preparation | | | | | | | | | | | | | 0 | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 3) Initial Report on results of Energy Audit | 5 | $0 | $0 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 4) Semi-annual Compliance Report | 20 | $0 | $0 | $0 | 2 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| *Reporting Subtotal* | | | | | | | | 0 | 0 | 0 | $0 | $0 | 0 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of Operating Parameter Values | 20 | $0 | $0 | $0 | 1 | 20 | 0 | 0 | 0 | 0 | $0 | $0 | | |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 0 | 0 | 0 | 0 | $0 | $0 | | |
| 3) Records of Stack Tests | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | | |
| 4) Records of Monitoring Device Calibrations | 2 | $0 | $0 | $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 | | |
| 6) Records of Monthly Fuel Use | 0.5 | $0 | $0 | $0 | 12 | 6 | 0 | 0 | 0 | 0 | $0 | $0 | | |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 0 | 0 | 0 | $0 | $0 | | |
| **Totals** | | | | | | | | **0** | **0** | **0** | **$0** | **$0** | **0** | |

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

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

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Stack Testing and Fuel Analysis Cost Per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year [(B+C+D)xExG] | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | 0 | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| B. Required Activities | | | | | | | | | | | | | 0 | |
| 1. Initial Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 2. Initial Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 3. Initial Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 4. Initial Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 5. Initial Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 6. Annual Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 7. Annual Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 8. Annual Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 9. Annual Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 10. Annual Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 11. Initial Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 12. Monthly Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 12 | 60 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 13. Continuous Parameter Monitoring | | | | | | | | | | | | | 0 | |
| Establish Site-specific monitoring plan (all) | 40 | $0 | | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| Opacity | | | | | | | | | | | | | 0 | |
| 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) | | | | | | | | | | | | | 0 | |
| 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 | |
| CO (only sources greater than 100 mmBtu/hr) | | | | | | | | | | | | | 0 | |
| a) initial | 10 | $0 | $0 | $160,900 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| b) annual | 10 | $0 | $0 | $53,600 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| Scrubber System Monitoring and Operation (for units with wet scrubbers) | | | | | | | | | | | | | 0 | |
| 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 (all sources that have fabric filters) | | | | | | | | | | | | | 0 | |
| 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) | | | | | | | | | | | | | 0 | |
| 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 | | | | | | | | | | | | 0 | |
| D. Gather Information | na | | | | | | | | | | | | 0 | |
| E. Report Preparation | | | | | | | | | | | | | 0 | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 3) Initial Report on results of Energy Audit | 5 | $0 | $0 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| 4) Semi-annual Compliance Report | 20 | $0 | $0 | $0 | 2 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | |
| *Reporting Subtotal* | | | | | | | | 0 | 0 | 0 | $0 | $0 | 0 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of Operating Parameter Values | 20 | $0 | $0 | $0 | 1 | 20 | 0 | 0 | 0 | 0 | $0 | $0 | | |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 0 | 0 | 0 | 0 | $0 | $0 | | |
| 3) Records of Stack Tests | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | | |
| 4) Records of Monitoring Device Calibrations | 2 | $0 | $0 | $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 | | |
| 6) Records of Monthly Fuel Use | 0.5 | $0 | $0 | $0 | 12 | 6 | 0 | 0 | 0 | 0 | $0 | $0 | | |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 0 | 0 | 0 | $0 | $0 | 0 | |
| **Totals** | | | | | | | | **0** | **0** | **0** | **$0** | **$0** | **0** | |

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

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

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Stack Testing and Fuel Analysis Cost Per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year [(B+C+D)xExG] | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 2 | 80 | 8 | 4 | $8,702 | $0 | | a |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Initial Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 3 | 36 | 4 | 2 | $3,916 | $15,000 | | a,h |
| 2. Initial Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 3. Initial Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 4. Initial Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 2 | 24 | 2 | 1 | $2,611 | $14,000 | | a,i |
| 5. Initial Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 3 | 36 | 4 | 2 | $3,916 | $48,000 | | a |
| 6. Annual Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a,j |
| 7. Annual Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a,j |
| 8. Annual Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a,j |
| 9. Annual Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a,j |
| 10. Annual Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a,j |
| 11. Initial Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 1 | 5 | 3 | 15 | 2 | 1 | $1,632 | $1,200 | | a,g |
| 12. Monthly Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 12 | 60 | 0 | 0 | 0 | 0 | $0 | $0 | | a,g |
| 13. Continuous Parameter Monitoring | | | | | | | | | | | | | | |
| Establish Site-specific monitoring plan (all) | 40 | $0 | | $0 | 1 | 40 | 3 | 120 | 12 | 6 | $13,053 | $0 | | a |
| Opacity | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $43,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $14,700 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| PM (only sources greater than 250 mmBtu/hr) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $158,000 | 1 | 10 | 1 | 10 | 1 | 1 | $1,088 | $158,000 | | a,c |
| b) annual | 10 | $0 | $0 | $56,100 | 1 | 10 | 1 | 10 | 1 | 1 | $1,088 | $56,100 | | a,c |
| CO (only sources greater than 100 mmBtu/hr) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $160,900 | 1 | 10 | 1 | 10 | 1 | 1 | $1,088 | $160,900 | | a,f |
| b) annual | 10 | $0 | $0 | $53,600 | 1 | 10 | 1 | 10 | 1 | 1 | $1,088 | $53,600 | | |
| 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 | | a |
| b) annual | 10 | $0 | $0 | $5,600 | 1 | 10 | 3 | 30 | 3 | 2 | $3,263 | $16,800 | | a |
| Bag Leak Detection System Operation (all sources that have fabric filters) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $25,500 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $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 | | a |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 2 | 20 | 2 | 1 | $2,176 | $19,400 | | a |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 2 | 4 | 0 | 0 | $435 | $0 | 2 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 2 | 16 | 2 | 1 | $1,740 | $0 | 2 | a |
| 3) Initial Report on results of Energy Audit | 5 | $0 | $0 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | b |
| 4) Semi-annual Compliance Report | 20 | $0 | $0 | $0 | 2 | 40 | 2 | 80 | 8 | 4 | $8,702 | $0 | 4 | a |
| *Reporting Subtotal* | | | | | | | | 551 | 55 | 28 | $59,936 | $845,900 | 8 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | e |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of Operating Parameter Values | 20 | $0 | $0 | $0 | 1 | 20 | 3 | 60 | 6 | 3 | $6,527 | $0 | | a |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 3 | 45 | 5 | 2 | $4,895 | $0 | | a |
| 3) Records of Stack Tests | 2 | $0 | $0 | $0 | 1 | 2 | 3 | 6 | 1 | 0 | $653 | $0 | | a |
| 4) Records of Monitoring Device Calibrations | 2 | $0 | $0 | $0 | 1 | 2 | 3 | 6 | 1 | 0 | $653 | $0 | | a |
| 5) Records of All Compliance Reports Submitted | 2 | $0 | $0 | $0 | 2 | 4 | 3 | 12 | 1 | 1 | $1,305 | $0 | | a |
| 6) Records of Monthly Fuel Use | 0.5 | $0 | $0 | $0 | 12 | 6 | 3 | 18 | 2 | 1 | $1,958 | $0 | | a,g |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 147 | 15 | 7 | $15,990 | $0 | | |
| **Totals** | | | | | | | | **698** | **70** | **35** | **$75,927** | **$845,900** | **8** | |

a The total number of new large liquid fuel boilers estimated in the first 3 years of this rule is 9. 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. 5 new facilities will be subject in the first 3 years. It is assumed that 2 facilities will report in in year 1 and 2 and 1 facilities in year 3.

b A one-time requirement.

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

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

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

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

g 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 Only units less than 100 mmBtu/hr are expected to perform stack testing for CO. Units greater than 100 mmBtu/hr will be equipped with a CO 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.

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

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Stack Testing and Fuel Analysis Cost Per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year [(B+C+D)xExG] | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 2 | 80 | 8 | 4 | $8,702 | $0 | | a |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Initial Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 3 | 36 | 4 | 2 | $3,916 | $15,000 | | a,h |
| 2. Initial Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 3. Initial Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 4. Initial Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 2 | 24 | 2 | 1 | $2,611 | $14,000 | | a,i |
| 5. Initial Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 3 | 36 | 4 | 2 | $3,916 | $48,000 | | a |
| 6. Annual Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 3 | 36 | 4 | 2 | $3,916 | $15,000 | | a,j |
| 7. Annual Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a,j |
| 8. Annual Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a,j |
| 9. Annual Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 2 | 24 | 2 | 1 | $2,611 | $14,000 | | a,j |
| 10. Annual Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 3 | 36 | 4 | 2 | $3,916 | $48,000 | | a,j |
| 11. Initial Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 1 | 5 | 3 | 15 | 2 | 1 | $1,632 | $1,200 | | a,g |
| 12. Monthly Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 12 | 60 | 0 | 0 | 0 | 0 | $0 | $0 | | a,g |
| 13. Continuous Parameter Monitoring | | | | | | | | | | | | | | |
| Establish Site-specific monitoring plan (all) | 40 | $0 | | $0 | 1 | 40 | 3 | 120 | 12 | 6 | $13,053 | $0 | | a |
| Opacity | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $43,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $14,700 | 1 | 10 | 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 | | a,c |
| b) annual | 10 | $0 | $0 | $56,100 | 1 | 10 | 1 | 10 | 1 | 1 | $1,088 | $56,100 | | a,c |
| CO (only sources greater than 100 mmBtu/hr) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $160,900 | 1 | 10 | 1 | 10 | 1 | 1 | $1,088 | $160,900 | | a,f |
| b) annual | 10 | $0 | $0 | $53,600 | 1 | 10 | 2 | 20 | 2 | 1 | $2,176 | $107,200 | | |
| 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 | | a |
| b) annual | 10 | $0 | $0 | $5,600 | 1 | 10 | 6 | 60 | 6 | 3 | $6,527 | $33,600 | | a |
| Bag Leak Detection System Operation (all sources that have fabric filters) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $25,500 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $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 | | a |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 4 | 40 | 4 | 2 | $4,351 | $38,800 | | a |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 2 | 4 | 0 | 0 | $435 | $0 | 2 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 2 | 16 | 2 | 1 | $1,740 | $0 | 2 | a |
| 3) Initial Report on results of Energy Audit | 5 | $0 | $0 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | b |
| 4) Semi-annual Compliance Report | 20 | $0 | $0 | $0 | 2 | 40 | 4 | 160 | 16 | 8 | $17,404 | $0 | 8 | a |
| *Reporting Subtotal* | | | | | | | | 777 | 78 | 39 | $84,520 | $854,700 | 12 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | e |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of Operating Parameter Values | 20 | $0 | $0 | $0 | 1 | 20 | 6 | 120 | 12 | 6 | $13,053 | $0 | | a |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 6 | 90 | 9 | 5 | $9,790 | $0 | | a |
| 3) Records of Stack Tests | 2 | $0 | $0 | $0 | 1 | 2 | 6 | 12 | 1 | 1 | $1,305 | $0 | | a |
| 4) Records of Monitoring Device Calibrations | 2 | $0 | $0 | $0 | 1 | 2 | 6 | 12 | 1 | 1 | $1,305 | $0 | | a |
| 5) Records of All Compliance Reports Submitted | 2 | $0 | $0 | $0 | 2 | 4 | 6 | 24 | 2 | 1 | $2,611 | $0 | | a |
| 6) Records of Monthly Fuel Use | 0.5 | $0 | $0 | $0 | 12 | 6 | 6 | 36 | 4 | 2 | $3,916 | $0 | | a,g |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 294 | 29 | 15 | $31,981 | $0 | | |
| **Totals** | | | | | | | | **1,071** | **107** | **54** | **$116,501** | **$854,700** | **12** | |

a The total number of new large liquid fuel boilers estimated in the first 3 years of this rule is 9. 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. 5 new facilities will be subject in the first 3 years. It is assumed that 2 facilities will report in in year 1 and 2 and 1 facilities in year 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.

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

g 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 Only units less than 100 mmBtu/hr are expected to perform stack testing for CO. Units greater than 100 mmBtu/hr will be equipped with a CO 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.

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

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Stack Testing and Fuel Analysis Cost Per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year [(B+C+D)xExG] | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 1 | 40 | 4 | 2 | $4,351 | $0 | | a |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Initial Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 3 | 36 | 4 | 2 | $3,916 | $15,000 | | a,h |
| 2. Initial Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 3. Initial Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 4. Initial Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 2 | 24 | 2 | 1 | $2,611 | $14,000 | | a,i |
| 5. Initial Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 3 | 36 | 4 | 2 | $3,916 | $48,000 | | a |
| 6. Annual Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 6 | 72 | 7 | 4 | $7,832 | $30,000 | | a,j |
| 7. Annual Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a,j |
| 8. Annual Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a,j |
| 9. Annual Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 4 | 48 | 5 | 2 | $5,221 | $28,000 | | a,j |
| 10. Annual Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 6 | 72 | 7 | 4 | $7,832 | $96,000 | | a,j |
| 11. Initial Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 1 | 5 | 3 | 15 | 2 | 1 | $1,632 | $1,200 | | a,g |
| 12. Monthly Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 12 | 60 | 0 | 0 | 0 | 0 | $0 | $0 | | a,g |
| 13. Continuous Parameter Monitoring | | | | | | | | | | | | | | |
| Establish Site-specific monitoring plan (all) | 40 | $0 | | $0 | 1 | 40 | 3 | 120 | 12 | 6 | $13,053 | $0 | | a |
| Opacity | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $43,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $14,700 | 1 | 10 | 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 | | a,c |
| b) annual | 10 | $0 | $0 | $56,100 | 1 | 10 | 1 | 10 | 1 | 1 | $1,088 | $56,100 | | a,c |
| CO (only sources greater than 100 mmBtu/hr) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $160,900 | 1 | 10 | 1 | 10 | 1 | 1 | $1,088 | $160,900 | | a,f |
| b) annual | 10 | $0 | $0 | $53,600 | 1 | 10 | 3 | 30 | 3 | 2 | $3,263 | $160,800 | | |
| 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 | | a |
| b) annual | 10 | $0 | $0 | $5,600 | 1 | 10 | 9 | 90 | 9 | 5 | $9,790 | $50,400 | | a |
| Bag Leak Detection System Operation (all sources that have fabric filters) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $25,500 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $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 | | a |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 6 | 60 | 6 | 3 | $6,527 | $58,200 | | a |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 1 | 2 | 0 | 0 | $218 | $0 | 1 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 1 | 8 | 1 | 0 | $870 | $0 | 1 | a |
| 3) Initial Report on results of Energy Audit | 5 | $0 | $0 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | b |
| 4) Semi-annual Compliance Report | 20 | $0 | $0 | $0 | 2 | 40 | 5 | 200 | 20 | 10 | $21,756 | $0 | 10 | a |
| *Reporting Subtotal* | | | | | | | | 923 | 92 | 46 | $100,402 | $1,021,500 | 12 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | e |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of Operating Parameter Values | 20 | $0 | $0 | $0 | 1 | 20 | 9 | 180 | 18 | 9 | $19,580 | $0 | | a |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 9 | 135 | 14 | 7 | $14,685 | $0 | | a |
| 3) Records of Stack Tests | 2 | $0 | $0 | $0 | 1 | 2 | 9 | 18 | 2 | 1 | $1,958 | $0 | | a |
| 4) Records of Monitoring Device Calibrations | 2 | $0 | $0 | $0 | 1 | 2 | 9 | 18 | 2 | 1 | $1,958 | $0 | | a |
| 5) Records of All Compliance Reports Submitted | 2 | $0 | $0 | $0 | 2 | 4 | 9 | 36 | 4 | 2 | $3,916 | $0 | | a |
| 6) Records of Monthly Fuel Use | 0.5 | $0 | $0 | $0 | 12 | 6 | 9 | 54 | 5 | 3 | $5,874 | $0 | | a,g |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 441 | 44 | 22 | $47,971 | $0 | | |
| **Totals** | | | | | | | | **1,364** | **136** | **68** | **$148,373** | **$1,021,500** | **12** | |

a The total number of new large liquid fuel boilers estimated in the first 3 years of this rule is 9. 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. 5 new facilities will be subject in the first 3 years. It is assumed that 2 facilities will report in in year 1 and 2 and 1 facilities in year 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.

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

g 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 Only units less than 100 mmBtu/hr are expected to perform stack testing for CO. Units greater than 100 mmBtu/hr will be equipped with a CO 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.

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

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Stack Testing and Fuel Analysis Cost Per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year [(B+C+D)xExG] | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 1 | 40 | 4 | 2 | $4,351 | $0 | | a, e, f |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Initial Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 2. Initial Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 3. Initial Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 4. Initial Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 5. Initial Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 6. Annual Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 7. Annual Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 8. Annual Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 9. Annual Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 10. Annual Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 11. Initial Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 12. Monthly Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 12 | 60 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 13. Continuous Parameter Monitoring | | | | | | | | | | | | | | a |
| Establish Site-specific monitoring plan (all) | 40 | $0 | | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| Opacity | | | | | | | | | | | | | | a |
| a) initial | 10 | $0 | $0 | $43,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $14,700 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| PM (only sources greater than 250 mmBtu/hr) | | | | | | | | | | | | | | a |
| a) initial | 10 | $0 | $0 | $158,000 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $56,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| CO (only sources greater than 100 mmBtu/hr) | | | | | | | | | | | | | | a |
| a) initial | 10 | $0 | $0 | $160,900 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $53,600 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| Scrubber System Monitoring and Operation (for units with wet scrubbers) | | | | | | | | | | | | | | a |
| a) initial | 10 | $0 | $0 | $24,300 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $5,600 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| Bag Leak Detection System Operation (all sources that have fabric filters) | | | | | | | | | | | | | | a |
| a) initial | 10 | $0 | $0 | $25,500 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 15. Annual Tune-up | 12 | $0 | $2,875 | $0 | 1 | 12 | 2 | 24 | 2 | 1 | $2,611 | $5,750 | 2 | c |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 1 | 2 | 0 | 0 | $218 | $0 | 1 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 1 | 8 | 1 | 0 | $870 | $0 | 1 | a |
| 3) Initial Report on results of Energy Audit | 5 | $0 | $0 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 4) Annual Compliance Report | 20 | $0 | $0 | $0 | 2 | 40 | 2 | 80 | 8 | 4 | $8,702 | $0 | 4 | a, h |
| 5) Semi-annual Compliance Report | 20 | $0 | $0 | $0 | 2 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a, h |
| *Reporting Subtotal* | | | | | | | | 154 | 15 | 8 | $16,752 | $5,750 | 6 | a |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | d |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of Operating Parameter Values | 20 | $0 | $0 | $0 | 1 | 20 | 2 | 40 | 4 | 2 | $4,351 | $0 | | a |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 2 | 30 | 3 | 2 | $3,263 | $0 | | a |
| 3) Records of Stack Tests | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 4) Records of Monitoring Device Calibrations | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 5) Records of All Annual Compliance Reports Submitted | 2 | $0 | $0 | $0 | 2 | 4 | 2 | 8 | 1 | 0 | $870 | $0 | | a, h |
| 6) Records of All Semi-Annual Compliance Reports Submitted | 2 | $0 | $0 | $0 | 2 | 4 | 0 | 0 | 0 | 0 | $0 | $0 | | a, h |
| 7) Records of Monthly Fuel Use | 0.5 | $0 | $0 | $0 | 12 | 6 | 2 | 12 | 1 | 1 | $1,305 | $0 | | a |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 90 | 9 | 5 | $9,790 | $0 | | |
| **Totals** | | | | | | | | **244** | **24** | **12** | **$26,542** | **$5,750** | **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. In year 1 there are 2 natural gas boilers coming online. In year 2 there are 2 natural gas boiles and 1 other process gas boiler, and in year 3 there are 2 new natural gas boilers and 1 process gas boiler.

b A one-time requirement.

c Energy Audits are a proposed requirement for existing units only.

record system would be required.

e Six new natural gas boilers will be subject over the next 3 years, or 2 boilers per year. It is assumed that there are 3 new facilities, one facility per year will conduct an audit and submit initial noticiation and initial compliance status reports.

f Two new boilers firing process gases are projected.It is expected one new boiler will come online in year 2 and the other in year 3. One facility will submit reports and conduct compliance activities in year 2 and the other facility will submit reports in year 3.

g Only one new process gas boiler >100 mmBtu projected. It is assumed that one unit will come on in year 2 and the other in year 3.

h 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.

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

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Stack Testing and Fuel Analysis Cost Per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year [(B+C+D)xExG] | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 3 | 120 | 12 | 6 | $13,053 | $0 | | a, e, f |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Initial Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 1 | 12 | 1 | 1 | $1,305 | $5,000 | | f |
| 2. Initial Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 1 | 12 | 1 | 1 | $1,305 | $8,000 | | f |
| 3. Initial Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 1 | 12 | 1 | 1 | $1,305 | $8,000 | | f |
| 4. Initial Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | f,g |
| 5. Initial Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 1 | 12 | 1 | 1 | $1,305 | $16,000 | | f |
| 6. Annual Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 7. Annual Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 8. Annual Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 9. Annual Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 10. Annual Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 11. Initial Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | | a, h |
| 12. Monthly Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 12 | 60 | 0 | 0 | 0 | 0 | $0 | $0 | | a, h |
| 13. Continuous Parameter Monitoring | | | | | | | | | | | | | | a |
| Establish Site-specific monitoring plan (all) | 40 | $0 | | $0 | 1 | 40 | 1 | 40 | 4 | 2 | $4,351 | $0 | | a |
| Opacity | | | | | | | | | | | | | | a |
| a) initial | 10 | $0 | $0 | $43,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $14,700 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| PM (only sources greater than 250 mmBtu/hr) | | | | | | | | | | | | | | a |
| a) initial | 10 | $0 | $0 | $158,000 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $56,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| CO (only sources greater than 100 mmBtu/hr) | | | | | | | | | | | | | | a |
| a) initial | 10 | $0 | $0 | $160,900 | 1 | 10 | 1 | 10 | 1 | 1 | $1,088 | $160,900 | | a, g |
| b) annual | 10 | $0 | $0 | $53,600 | 1 | 10 | 1 | 10 | 1 | 1 | $1,088 | $53,600 | | a, g |
| Scrubber System Monitoring and Operation (for units with wet scrubbers) | | | | | | | | | | | | | | a |
| a) initial | 10 | $0 | $0 | $24,300 | 1 | 10 | 1 | 10 | 1 | 1 | $1,088 | $24,300 | | a |
| b) annual | 10 | $0 | $0 | $5,600 | 1 | 10 | 1 | 10 | 1 | 1 | $1,088 | $5,600 | | a |
| Bag Leak Detection System Operation (all sources that have fabric filters) | | | | | | | | | | | | | | a |
| a) initial | 10 | $0 | $0 | $25,500 | 1 | 10 | 1 | 10 | 1 | 1 | $1,088 | $25,500 | | a |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 1 | 10 | 1 | 1 | $1,088 | $9,700 | | a |
| 15. Annual Tune-up | 12 | $0 | $2,875 | $0 | 1 | 12 | 4 | 48 | 5 | 2 | $5,221 | $11,500 | 4 | c |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 2 | 4 | 0 | 0 | $435 | $0 | 2 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 2 | 16 | 2 | 1 | $1,740 | $0 | 2 | a |
| 3) Initial Report on results of Energy Audit | 5 | $0 | $0 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 4) Annual Compliance Report | 20 | $0 | $0 | $0 | 2 | 40 | 4 | 160 | 16 | 8 | $17,404 | $0 | 8 | a, i |
| 5) Semi-annual Compliance Report | 20 | $0 | $0 | $0 | 2 | 40 | 1 | 40 | 4 | 2 | $4,351 | $0 | 2 | a, i |
| *Reporting Subtotal* | | | | | | | | 536 | 54 | 27 | $58,305 | $328,100 | 14 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | d |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of Operating Parameter Values | 20 | $0 | $0 | $0 | 1 | 20 | 5 | 100 | 10 | 5 | $10,878 | $0 | | a |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 5 | 75 | 8 | 4 | $8,158 | $0 | | a |
| 3) Records of Stack Tests | 2 | $0 | $0 | $0 | 1 | 2 | 1 | 2 | 0 | 0 | $218 | $0 | | a |
| 4) Records of Monitoring Device Calibrations | 2 | $0 | $0 | $0 | 1 | 2 | 1 | 2 | 0 | 0 | $218 | $0 | | a |
| 5) Records of All Annual Compliance Reports Submitted | 2 | $0 | $0 | $0 | 2 | 4 | 4 | 16 | 2 | 1 | $1,740 | $0 | | a, i |
| 6) Records of All Semi-Annual Compliance Reports Submitted | 2 | $0 | $0 | $0 | 2 | 4 | 1 | 4 | 0 | 0 | $435 | $0 | | a, i |
| 7) Records of Monthly Fuel Use | 0.5 | $0 | $0 | $0 | 12 | 6 | 5 | 30 | 3 | 2 | $3,263 | $0 | | a |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 229 | 23 | 11 | $24,910 | $0 | | |
| **Totals** | | | | | | | | **765** | **77** | **38** | **$83,215** | **$328,100** | **14** | |

a In order to calculate a per year estimate of the number of new boilers required to meet these rule requirements, the number of new projected boilers online by 2013 is divided by 3. In year 1 there are 2 natural gas boilers coming online. In year 2 there are 2 natural gas boiles and 1 other process gas boiler, and in year 3 there are 2 new natural gas boilers and 1 process gas boiler.

b A one-time requirement.

c Energy Audits are a proposed 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 Six new natural gas boilers will be subject over the next 3 years, or 2 boilers per year. It is assumed that there are 3 new facilities, one facility per year will conduct an audit and submit initial noticiation and initial compliance status reports.

f Two new boilers firing process gases are projected.It is expected one new boiler will come online in year 2 and the other in year 3. One facility will submit reports and conduct compliance activities in year 2 and the other facility will submit reports in year 3.

g Only one new process gas boiler >100 mmBtu projected. It is assumed this unit will come on in year 2.

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

i 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. Natural gas and refinery gas units are required to submit reports annually and conduct a tune-up.

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

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Stack Testing and Fuel Analysis Cost Per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year [(B+C+D)xExG] | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 2 | 80 | 8 | 4 | $8,702 | $0 | | a, e, f |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Initial Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 1 | 12 | 1 | 1 | $1,305 | $5,000 | | f,i |
| 2. Initial Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 1 | 12 | 1 | 1 | $1,305 | $8,000 | | f |
| 3. Initial Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 1 | 12 | 1 | 1 | $1,305 | $8,000 | | f |
| 4. Initial Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 1 | 12 | 1 | 1 | $1,305 | $7,000 | | f,l,j |
| 5. Initial Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 1 | 12 | 1 | 1 | $1,305 | $16,000 | | f |
| 6. Annual Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 1 | 12 | 1 | 1 | $1,305 | $5,000 | | a |
| 7. Annual Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 1 | 12 | 1 | 1 | $1,305 | $8,000 | | a |
| 8. Annual Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 1 | 12 | 1 | 1 | $1,305 | $8,000 | | a |
| 9. Annual Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 10. Annual Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 1 | 12 | 1 | 1 | $1,305 | $16,000 | | a |
| 11. Initial Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | | a, h |
| 12. Monthly Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 12 | 60 | 0 | 0 | 0 | 0 | $0 | $0 | | a, h |
| 13. Continuous Parameter Monitoring | | | | | | | | | | | | | | a |
| Establish Site-specific monitoring plan (all) | 40 | $0 | | $0 | 1 | 40 | 1 | 40 | 4 | 2 | $4,351 | $0 | | a |
| Opacity | | | | | | | | | | | | | | a |
| a) initial | 10 | $0 | $0 | $43,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $14,700 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| PM (only sources greater than 250 mmBtu/hr) | | | | | | | | | | | | | | a |
| a) initial | 10 | $0 | $0 | $158,000 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a,j |
| b) annual | 10 | $0 | $0 | $56,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| CO (only sources greater than 100 mmBtu/hr) | | | | | | | | | | | | | | a |
| a) initial | 10 | $0 | $0 | $160,900 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a, g, i , j |
| b) annual | 10 | $0 | $0 | $53,600 | 1 | 10 | 1 | 10 | 1 | 1 | $1,088 | $53,600 | | a, g |
| Scrubber System Monitoring and Operation (for units with wet scrubbers) | | | | | | | | | | | | | | a |
| a) initial | 10 | $0 | $0 | $24,300 | 1 | 10 | 1 | 10 | 1 | 1 | $1,088 | $24,300 | | a |
| b) annual | 10 | $0 | $0 | $5,600 | 1 | 10 | 2 | 20 | 2 | 1 | $2,176 | $11,200 | | a |
| Bag Leak Detection System Operation (all sources that have fabric filters) | | | | | | | | | | | | | | a |
| a) initial | 10 | $0 | $0 | $25,500 | 1 | 10 | 1 | 10 | 1 | 1 | $1,088 | $25,500 | | a |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 2 | 20 | 2 | 1 | $2,176 | $19,400 | | a |
| 15. Annual Tune-up | 12 | $0 | $2,875 | $0 | 1 | 12 | 6 | 72 | 7 | 4 | $7,832 | $17,250 | 6 | c |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 2 | 4 | 0 | 0 | $435 | $0 | 2 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 2 | 16 | 2 | 1 | $1,740 | $0 | 2 | a |
| 3) Initial Report on results of Energy Audit | 5 | $0 | $0 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 4) Annual Compliance Report | 20 | $0 | $0 | $0 | 2 | 40 | 6 | 240 | 24 | 12 | $26,107 | $0 | 12 | a |
| 5) Semi-annual Compliance Report | 20 | $0 | $0 | $0 | 2 | 40 | 2 | 80 | 8 | 4 | $8,702 | $0 | 4 | a |
| *Reporting Subtotal* | | | | | | | | 710 | 71 | 36 | $77,232 | $232,250 | 20 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | d |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of Operating Parameter Values | 20 | $0 | $0 | $0 | 1 | 20 | 8 | 160 | 16 | 8 | $17,404 | $0 | | a |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 8 | 120 | 12 | 6 | $13,053 | $0 | | a |
| 3) Records of Stack Tests | 2 | $0 | $0 | $0 | 1 | 2 | 2 | 4 | 0 | 0 | $435 | $0 | | a |
| 4) Records of Monitoring Device Calibrations | 2 | $0 | $0 | $0 | 1 | 2 | 2 | 4 | 0 | 0 | $435 | $0 | | a |
| 5) Records of All Annual Compliance Reports Submitted | 2 | $0 | $0 | $0 | 2 | 4 | 6 | 24 | 2 | 1 | $2,611 | $0 | | a |
| 6) Records of All Semi-Annual Compliance Reports Submitted | 2 | $0 | $0 | $0 | 2 | 4 | 2 | 8 | 1 | 0 | $870 | $0 | | a |
| 6) Records of Monthly Fuel Use | 0.5 | $0 | $0 | $0 | 12 | 6 | 8 | 48 | 5 | 2 | $5,221 | $0 | | a |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 368 | 37 | 18 | $40,030 | $0 | | |
| **Totals** | | | | | | | | **1,078** | **108** | **54** | **$117,262** | **$232,250** | | |

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. New natural gas boilers are projected to be natural gas fired and thus only subject to an annual tune-up work practice standard and a facility-wide energy audit. Other process gas boilers will be subject to monitoring and testing requirements for all pollutants. In year 1 there are 2 natural gas boilers coming online. In year 2 there are 2 natural gas boiles and 1 other process gas boiler, and in year 3 there are 2 new natural gas boilers and 1 process gas boiler.

b A one-time requirement.

c Energy Audits are a proposed 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 Six new natural gas boilers will be subject over the next 3 years, or 2 boilers per year. It is assumed that there are 3 new facilities, one facility per year will conduct an audit and submit initial noticiation and initial compliance status reports.

f Two new boilers firing process gases are projected.It is expected one new boiler will come online in year 2 and the other in year 3. One facility will submit reports and conduct compliance activities in year 2 and the other facility will submit reports in year 3.

g Only one new process gas boiler >100 mmBtu projected. It is assumed this unit will come on in year 2.

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

i Only one new natural gas boiler >100 ot < 250 mmBtu projected. It is assumed this unit will come on in year 3.

j Only one new natural gas boiler > 250 mmBtu projected. It is assumed this unit will come on in year 3.

**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 Solid Fuel Units**

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Annual Tune-Up Cost per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year ((B+C+D) xExG) | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 2 | 80 | 8 | 4 | $8,702 | $0 | 0 | a |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Conduct Energy Audit | | | | | | | | | | | | | 0 | |
| 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 |
| 2. Biennual Tune-Up | 12 | $0 | $2,228 | $0 | 0.5 | 6 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 2 | 4 | 0 | 0 | $435 | $0 | 2 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 3) Biennial Compliance Report | 5 | $0 | $0 | $0 | 0.5 | 2.5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | f |
| *Reporting Subtotal* | | | | | | | | 84 | 8 | 4 | 9,137 | 0 | 2 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | e |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of All Notifications and Compliance Reports Submitted | 2 | $0 | $0 | $0 | 0.5 | 1 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | g |
| 3) Biennial Tune-Up Records | 0.5 | $0 | $0 | $0 | 0.5 | 0.25 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 0 | 0 | 0 | $0 | $0 | 0 | |
| **Totals** | | | | | | | | **84** | **8** | **4** | **$9,137** | **$0** | **2** | |

a Number of respondents based on number of existing small solid fuel boilers which includes biomass and coal units less than 10 mmBtu/hr (assumption of 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 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 is only 1 existing facility under this category and it is assumed that it will be an 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.

**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 Solid Fuel Units**

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Annual Tune-Up Cost per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year ((B+C+D) xExG) | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Conduct Energy Audit | | | | | | | | | | | | | | |
| a) Commerical | 20 | $854 | $0 | $0 | 1 | 20 | 0 | 0 | 0 | 0 | $0 | $0 | | b,c |
| b) Industrial | 20 | $18,292 | $0 | $0 | 1 | 20 | 1 | 20 | 2 | 1 | $2,176 | $18,292 | | b,c |
| 2. Biennual Tune-Up | 12 | $0 | $2,228 | $0 | 0.5 | 6 | 9 | 51 | 5 | 3 | $5,548 | $18,938 | | c |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 3) Biennial Compliance Report | 5 | $0 | $0 | $0 | 0.5 | 2.5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | f |
| *Reporting Subtotal* | | | | | | | | 71 | 7 | 4 | 7,723 | 37,230 | 0 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | e |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of All Notifications and Compliance Reports Submitted | 2 | $0 | $0 | $0 | 0.5 | 1 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | g |
| 3) Biennial Tune-Up Records | 0.5 | $0 | $0 | $0 | 0.5 | 0.25 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 0 | 0 | 0 | $0 | $0 | 0 | |
| **Totals** | | | | | | | | **71** | **7** | **4** | **$7,723** | **$37,230** | **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. There is only 1 existing unit under this category. Energy audit burdens for this unit will be accounted for in year 2.

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

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

d Cost per occurrence for energy audit professionals including an phone screening to discuss the facility prior to a visit, a 2 to 4 hour site visit, and an additional 2-4 hours to prepare a follow-up report on recommendations and findings. These site visits are assumed to be conducted by certified energy professionals. There is only 1 existing facility under this category and it is assumed that it will be an 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.

**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 Solid Fuel Units**

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Annual Tune-Up Cost per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year ((B+C+D) xExG) | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Conduct Energy Audit | | | | | | | | | | | | | | |
| a) Commerical | 20 | $854 | $0 | $0 | 1 | 20 | 0 | 0 | 0 | 0 | $0 | $0 | | b,c |
| b) Industrial | 20 | $18,292 | $0 | $0 | 1 | 20 | 0 | 0 | 0 | 0 | $0 | $0 | | b,c |
| 2. Biennual Tune-Up | 12 | $0 | $2,228 | $0 | 0.5 | 6 | 9 | 51 | 5 | 3 | $5,548 | $18,938 | | c |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 2 | 16 | 2 | 1 | $1,740 | $0 | 2 | c |
| 3) Biennial Compliance Report | 5 | $0 | $0 | $0 | 0.5 | 2.5 | 2 | 5 | 1 | 0 | $544 | $0 | 1 | f |
| *Reporting Subtotal* | | | | | | | | 72 | 7 | 4 | 7,832 | 18,938 | 3 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | e |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of All Notifications and Compliance Reports Submitted | 2 | $0 | $0 | $0 | 0.5 | 1 | 17 | 17 | 2 | 1 | $1,849 | $0 | | c |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 0 | 0 | 0 | 0 | $0 | $0 | | g |
| 3) Biennial Tune-Up Records | 0.5 | $0 | $0 | $0 | 0.5 | 0.25 | 17 | 4 | 0 | 0 | $462 | $0 | 9 | c |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 21.25 | 2.125 | 1.0625 | $2,312 | $0 | | |
| **Totals** | | | | | | | | **93** | **9** | **5** | **$10,144** | **$18,938** | **3** | |

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

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

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 is only 1 existing facility under this category and it is assumed that it will be an 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.

**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 Liquid Fuel Units**

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Annual Tune-Up Cost per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year ((B+C+D) xExG) | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 29 | 1,160 | 116 | 58 | $126,182 | $0 | | a |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Conduct Energy Audit | | | | | | | | | | | | | | |
| a) Commerical | 20 | $854 | $0 | $0 | 1 | 20 | 0 | 0 | 0 | 0 | $0 | $0 | | b, c, d |
| b) Industrial | 20 | $18,292 | $0 | $0 | 1 | 20 | 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 | | c, f |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 29 | 58 | 6 | 3 | $6,309 | $0 | 29 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 3) Biennial Compliance Report | 5 | $0 | $0 | $0 | 0.5 | 2.5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c, f |
| *Reporting Subtotal* | | | | | | | | 1,218 | 122 | 61 | 132,491 | 0 | 29 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | e |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of All Notifications and Compliance Reports Submitted | 2 | $0 | $0 | $0 | 0.5 | 1 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c, g |
| 3) Biennial Tune-Up Records | 0.5 | $0 | $0 | $0 | 0.5 | 0.25 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c, f |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 0 | 0 | 0 | $0 | $0 | 0 | |
| **Totals** | | | | | | | | **1,218** | **122** | **61** | **$132,491** | **$0** | **29** | |

a Number of respondents based on number of existing small liquid fuel boilers which includes units less 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. 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.

**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 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)xE xG) | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Conduct Energy Audit | | | | | | | | | | | | | | |
| a) Commerical | 20 | $854 | $0 | $0 | 1 | 20 | 2 | 40 | 4 | 2 | $4,351 | $1,708 | | b, c, d |
| b) Industrial | 20 | $18,292 | $0 | $0 | 1 | 20 | 13 | 260 | 26 | 13 | $28,282 | $237,796 | | b, c, d |
| 2. Biennual Tune-Up | 12 | $0 | $2,228 | $0 | 0.5 | 6 | 123 | 738 | 74 | 37 | $80,278 | $274,044 | | c, f |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 3) Biennial Compliance Report | 5 | $0 | $0 | $0 | 0.5 | 2.5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c, f |
| *Reporting Subtotal* | | | | | | | | 1,038 | 104 | 52 | 112,911 | 513,548 | 0 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | e |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of All Notifications and Compliance Reports Submitted | 2 | $0 | $0 | $0 | 0.5 | 1 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c, g |
| 3) Biennial Tune-Up Records | 0.5 | $0 | $0 | $0 | 0.5 | 0.25 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c, f |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 0 | 0 | 0 | $0 | $0 | 0 | |
| **Totals** | | | | | | | | **1,038** | **104** | **52** | **$112,911** | **$513,548** | **0** | |

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

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

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

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

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

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

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

**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 Liquid Fuel Units**

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Annual Tune-Up Cost per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year ((B+C+D)xEx G) | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Conduct Energy Audit | | | | | | | | | | | | | | |
| a) Commerical | 20 | $854 | $0 | $0 | 1 | 20 | 1 | 20 | 2 | 1 | $2,176 | $854 | | b, c, d |
| b) Industrial | 20 | $18,292 | $0 | $0 | 1 | 20 | 13 | 260 | 26 | 13 | $28,282 | $237,796 | | b, c, d |
| 2. Biennual Tune-Up | 12 | $0 | $2,228 | $0 | 0.5 | 6 | 122 | 732 | 73 | 37 | $79,625 | $271,816 | | c, f |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 29 | 232 | 23 | 12 | $25,236 | $0 | 29 | c |
| 3) Biennial Compliance Report | 5 | $0 | $0 | $0 | 0.5 | 2.5 | 29 | 73 | 7 | 4 | $7,886 | $0 | 15 | c, f |
| *Reporting Subtotal* | | | | | | | | 1,317 | 132 | 66 | 143,206 | 510,466 | 44 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | e |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of All Notifications and Compliance Reports Submitted | 2 | $0 | $0 | $0 | 0.5 | 1 | 245 | 245 | 25 | 12 | $26,650 | $0 | | c |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 0 | 0 | 0 | 0 | $0 | $0 | | c, g |
| 3) Biennial Tune-Up Records | 0.5 | $0 | $0 | $0 | 0.5 | 0.25 | 245 | 61 | 6 | 3 | $6,663 | $0 | 123 | c, f |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 306.25 | 30.625 | 15.3125 | $33,313 | $0 | | |
| **Totals** | | | | | | | | **1,623** | **162** | **81** | **$176,519** | **$510,466** | **44** | |

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

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

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

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

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

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

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

**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 Gas Fuel Units**

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Annual Tune-Up Cost per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year ((B+C+D)xExG) | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 848 | 33,920 | 3,392 | 1,696 | $3,689,733 | $0 | | a |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Conduct Energy Audit | | | | | | | | | | | | | | |
| a) Commerical | 20 | $854 | $0 | $0 | 1 | 20 | 0 | 0 | 0 | 0 | $0 | $0 | | b, c, d |
| b) Industrial | 20 | $18,292 | $0 | $0 | 1 | 20 | 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 | | c, f |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 848 | 1,696 | 170 | 85 | $184,487 | $0 | 848 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 3) Biennial Compliance Report | 5 | $0 | $0 | $0 | 0.5 | 2.5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c, f |
| *Reporting Subtotal* | | | | | | | | 35,616 | 3,562 | 1,781 | 3,874,219 | 0 | 848 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | e |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of All Notifications and Compliance Reports Submitted | 2 | $0 | $0 | $0 | 0.5 | 1 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c, g |
| 3) Biennial Tune-Up Records | 0.5 | $0 | $0 | $0 | 0.5 | 0.25 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c, f |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 0 | 0 | 0 | $0 | $0 | 0 | |
| **Totals** | | | | | | | | **35,616** | **3,562** | **1,781** | **$3,874,219** | **$0** | **848** | |

a Number of respondents based on number of existing gas liquid fuel boilers which includes natural, petroleum, and other gas units less 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. 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.

**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 Gas Fuel Units**

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Annual Tune-Up Cost per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year ((B+C+D)xExG) | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Conduct Energy Audit | | | | | | | | | | | | | | |
| a) Commerical | 20 | $854 | $0 | $0 | 1 | 20 | 53 | 1,068 | 107 | 53 | $116,227 | $45,624 | 53 | b, c, d |
| b) Industrial | 20 | $18,292 | $0 | $0 | 1 | 20 | 371 | 7,412 | 741 | 371 | $806,207 | $6,778,576 | 371 | b, c, d |
| 2. Biennial Tune-Up | 12 | $0 | $1,580 | $0 | 0.5 | 6 | 3,573 | 21,438 | 2,144 | 1,072 | $2,331,972 | $5,645,340 | 1,787 | c, f |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 3) Biennial Compliance Report | 5 | $0 | $0 | $0 | 0.5 | 2.5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c, f |
| *Reporting Subtotal* | | | | | | | | 29,918 | 2,992 | 1,496 | 3,254,405 | 12,469,540 | 0 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | e |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of All Notifications and Compliance Reports Submitted | 2 | $0 | $0 | $0 | 0.5 | 1 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c, g |
| 3) Biennial Tune-Up Records | 0.5 | $0 | $0 | $0 | 0.5 | 0.25 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | c, f |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 0 | 0 | 0 | $0 | $0 | 0 | |
| **Totals** | | | | | | | | **29,918** | **2,992** | **1,496** | **$3,254,405** | **$12,469,540** | **0** | |

a Number of respondents based on number of existing gas liquid fuel boilers which includes natural, petroleum, and other gas units less 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, 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.

**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 Gas Fuel Units**

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Emission Test Contractor Hours Per Occurrence | (B) Certified Energy Audit Cost per Occurrence | (C) Annual Tune-Up Cost per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year ((B+C+D)xEx G) | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | | $0 | $0 | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| B. Required Activities | | | | | | | | | | | | | | | |
| 1. Conduct Energy Audit | | | | | | | | | | | | | | | |
| a) Commerical | 20 | | $854 | $0 | $0 | 1 | 20 | 52 | 1,048 | 105 | 52 | $114,051 | $44,770 | | b, c, d |
| b) Industrial | 20 | | $18,292 | $0 | $0 | 1 | 20 | 371 | 7,412 | 741 | 371 | $806,207 | $6,778,576 | | b, c, d |
| 2. Biennial Tune-Up | 12 | | $0 | $1,580 | $0 | 0.5 | 6 | 3,572 | 21,432 | 2,143 | 1,072 | $2,331,319 | $5,643,760 | | c, f |
| C. Create Information | na | | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 2) Notification of Compliance Status | 8 | | $0 | $0 | $0 | 1 | 8 | 848 | 6,784 | 678 | 339 | $737,947 | $0 | 848 | c |
| 3) Biennial Compliance Report | 5 | | $0 | $0 | $0 | 0.5 | 2.5 | 848 | 2,120 | 212 | 106 | $230,608 | $0 | 424 | c, f |
| *Reporting Subtotal* | | | | | | | | | 38,796 | 3,880 | 1,940 | 4,220,132 | 12,467,106 | 1,272 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | | e |
| D. Record Information | | | | | | | | | | | | | | | |
| 1) Records of All Notifications and Compliance Reports Submitted | 2 | 0 | $0 | $0 | $0 | 0.5 | 1 | 7,145 | 7,145 | 715 | 357 | $777,215 | $0 | | c |
| 2) Records of Startup, Shutdown, Malfunction | 15 | 0 | $0 | $0 | $0 | 1 | 15 | 0 | 0 | 0 | 0 | $0 | $0 | | c, g |
| 3) Biennial Tune-Up Records | 0.5 | | $0 | $0 | $0 | 0.5 | 0.25 | 7,145 | 1,786 | 179 | 89 | $194,304 | $0 | | c, f |
| E. Personnel Training | na | | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | | 8931.25 | 893.125 | 446.5625 | $971,519 | $0 | | |
| **Totals** | | | | | | | | | **47,727** | **4,773** | **2,386** | **$5,191,651** | **$12,467,106** | **1,272** | |

a Number of respondents based on number of existing gas liquid fuel boilers which includes natural, petroleum, and other gas units less 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, 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.

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

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Stack Testing and Fuel Analysis Cost Per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year [(B+C+D)xExG] | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Initial Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 2. Initial Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 3. Initial Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 4. Initial Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 5. Initial Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 6. Annual Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 7. Annual Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 8. Annual Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 9. Annual Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 10. Annual Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 11. Initial Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 12. Monthly Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 12 | 60 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 13. Continuous Parameter Monitoring | | | | | | | | | | | | | | |
| Establish Site-specific monitoring plan (all) | 40 | $0 | | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| Opacity | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $43,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $14,700 | 1 | 10 | 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 | | a |
| b) annual | 10 | $0 | $0 | $56,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| CO (only sources greater than 100 mmBtu/hr) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $160,900 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $53,600 | 1 | 10 | 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 | | a |
| b) annual | 10 | $0 | $0 | $5,600 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| Bag Leak Detection System Operation (all sources that have fabric filters) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $25,500 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 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 | | a |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 3) Initial Report on results of Energy Audit | 5 | $0 | $0 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 4) Semi-annual Compliance Report | 20 | $0 | $0 | $0 | 2 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| *Reporting Subtotal* | | | | | | | | 0 | 0 | 0 | $0 | $0 | 0 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | a |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of Operating Parameter Values | 20 | $0 | $0 | $0 | 1 | 20 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 3) Records of Stack Tests | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 4) Records of Monitoring Device Calibrations | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 5) Records of All Compliance Reports Submitted | 2 | $0 | $0 | $0 | 2 | 4 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 6) Records of Monthly Fuel Use | 0.5 | $0 | $0 | $0 | 12 | 6 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 0 | 0 | 0 | $0 | $0 | | |
| **Totals** | | | | | | | | **0** | **0** | **0** | **$0** | **$0** | **0** | |

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

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

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Stack Testing and Fuel Analysis Cost Per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year [(B+C+D)xExG] | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Initial Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 2. Initial Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 3. Initial Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 4. Initial Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 5. Initial Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 6. Annual Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 7. Annual Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 8. Annual Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 9. Annual Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 10. Annual Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 11. Initial Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 12. Monthly Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 12 | 60 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 13. Continuous Parameter Monitoring | | | | | | | | | | | | | | |
| Establish Site-specific monitoring plan (all) | 40 | $0 | | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| Opacity | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $43,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $14,700 | 1 | 10 | 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 | | a |
| b) annual | 10 | $0 | $0 | $56,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| CO (only sources greater than 100 mmBtu/hr) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $160,900 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $53,600 | 1 | 10 | 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 | | a |
| b) annual | 10 | $0 | $0 | $5,600 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| Bag Leak Detection System Operation (all sources that have fabric filters) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $25,500 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 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 | | a |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 3) Initial Report on results of Energy Audit | 5 | $0 | $0 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 4) Semi-annual Compliance Report | 20 | $0 | $0 | $0 | 2 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| *Reporting Subtotal* | | | | | | | | 0 | 0 | 0 | $0 | $0 | 0 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | a |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of Operating Parameter Values | 20 | $0 | $0 | $0 | 1 | 20 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 3) Records of Stack Tests | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 4) Records of Monitoring Device Calibrations | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 5) Records of All Compliance Reports Submitted | 2 | $0 | $0 | $0 | 2 | 4 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 6) Records of Monthly Fuel Use | 0.5 | $0 | $0 | $0 | 12 | 6 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 0 | 0 | 0 | $0 | $0 | | |
| **Totals** | | | | | | | | **0** | **0** | **0** | **$0** | **$0** | **0** | |

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

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

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Stack Testing and Fuel Analysis Cost Per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year [(B+C+D)xExG] | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Initial Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 2. Initial Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 3. Initial Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 4. Initial Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 5. Initial Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 6. Annual Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 7. Annual Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 8. Annual Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 9. Annual Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 10. Annual Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 11. Initial Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 12. Monthly Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 12 | 60 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 13. Continuous Parameter Monitoring | | | | | | | | | | | | | | |
| Establish Site-specific monitoring plan (all) | 40 | $0 | | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| Opacity | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $43,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $14,700 | 1 | 10 | 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 | | a |
| b) annual | 10 | $0 | $0 | $56,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| CO (only sources greater than 100 mmBtu/hr) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $160,900 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $53,600 | 1 | 10 | 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 | | a |
| b) annual | 10 | $0 | $0 | $5,600 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| Bag Leak Detection System Operation (all sources that have fabric filters) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $25,500 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 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 | | a |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 3) Initial Report on results of Energy Audit | 5 | $0 | $0 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 4) Semi-annual Compliance Report | 20 | $0 | $0 | $0 | 2 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| *Reporting Subtotal* | | | | | | | | 0 | 0 | 0 | $0 | $0 | 0 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | a |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of Operating Parameter Values | 20 | $0 | $0 | $0 | 1 | 20 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 3) Records of Stack Tests | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 4) Records of Monitoring Device Calibrations | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 5) Records of All Compliance Reports Submitted | 2 | $0 | $0 | $0 | 2 | 4 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 6) Records of Monthly Fuel Use | 0.5 | $0 | $0 | $0 | 12 | 6 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 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) Stack Testing and Fuel Analysis Cost Per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year [(B+C+D)xExG] | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 2 | 80 | 8 | 4 | $8,702 | $0 | | a |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Initial Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 2 | 24 | 2 | 1 | $2,611 | $10,000 | | a |
| 2. Initial Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 3. Initial Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a,c |
| 4. Initial Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 2 | 24 | 2 | 1 | $2,611 | $14,000 | | a,c |
| 5. Initial Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 2 | 24 | 2 | 1 | $2,611 | $32,000 | | a,d |
| 6. Annual Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a,d |
| 7. Annual Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a,d |
| 8. Annual Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a,d |
| 9. Annual Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a,d |
| 10. Annual Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a,d |
| 11. Initial Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 1 | 5 | 2 | 10 | 1 | 1 | $1,088 | $800 | | a,c |
| 12. Monthly Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 12 | 60 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 13. Continuous Parameter Monitoring | | | | | | | | | | | | | | |
| Establish Site-specific monitoring plan (all) | 40 | $0 | | $0 | 1 | 40 | 2 | 80 | 8 | 4 | $8,702 | $0 | | a |
| Opacity | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $43,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $14,700 | 1 | 10 | 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 | | a |
| b) annual | 10 | $0 | $0 | $56,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| CO (only sources greater than 100 mmBtu/hr) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $160,900 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $53,600 | 1 | 10 | 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 | 2 | 20 | 2 | 1 | $2,176 | $48,600 | | a |
| b) annual | 10 | $0 | $0 | $5,600 | 1 | 10 | 2 | 20 | 2 | 1 | $2,176 | $11,200 | | a |
| Bag Leak Detection System Operation (all sources that have fabric filters) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $25,500 | 1 | 10 | 2 | 20 | 2 | 1 | $2,176 | $51,000 | | a |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 2 | 20 | 2 | 1 | $2,176 | $19,400 | | a |
| 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 | | a |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 2 | 4 | 0 | 0 | $435 | $0 | 2 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 2 | 16 | 2 | 1 | $1,740 | $0 | 2 | a |
| 3) Initial Report on results of Energy Audit | 5 | $0 | $0 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 4) Semi-annual Compliance Report | 20 | $0 | $0 | $0 | 2 | 40 | 2 | 80 | 8 | 4 | $8,702 | $0 | 4 | a |
| *Reporting Subtotal* | | | | | | | | 422 | 42 | 21 | $45,904 | $187,000 | 8 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | b |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of Operating Parameter Values | 20 | $0 | $0 | $0 | 1 | 20 | 2 | 40 | 4 | 2 | $4,351 | $0 | | a |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 2 | 30 | 3 | 2 | $3,263 | $0 | | a |
| 3) Records of Stack Tests | 2 | $0 | $0 | $0 | 1 | 2 | 2 | 4 | 0 | 0 | $435 | $0 | | a |
| 4) Records of Monitoring Device Calibrations | 2 | $0 | $0 | $0 | 1 | 2 | 2 | 4 | 0 | 0 | $435 | $0 | | a |
| 5) Records of All Compliance Reports Submitted | 2 | $0 | $0 | $0 | 2 | 4 | 2 | 8 | 1 | 0 | $870 | $0 | | a |
| 6) Records of Monthly Fuel Use | 0.5 | $0 | $0 | $0 | 12 | 6 | 2 | 12 | 1 | 1 | $1,305 | $0 | | a |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 98 | 10 | 5 | $10,660 | $0 | | |
| **Totals** | | | | | | | | **520** | **52** | **26** | **$56,564** | **$187,000** | **8** | |

a The total number of new small liquid fuel boilers estimated in the first 3 years of this rule is 2. All burden for these units will be accounted for in year 1.
b Assumes facility must already maintain records on boiler insurance and/or maintenance schedule. No new record system would be required.
c New small liquid units are expected to show compliance for Hg and HCl by performing fuel analysis
d In year 1, only initial burdens are realized. Annual burdens will not begin until year 2

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

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Stack Testing and Fuel Analysis Cost Per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year [(B+C+D)xExG] | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Initial Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 2. Initial Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 3. Initial Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 4. Initial Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 5. Initial Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 6. Annual Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 2 | 24 | 2 | 1 | $2,611 | $10,000 | | a |
| 7. Annual Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 8. Annual Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 9. Annual Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 2 | 24 | 2 | 1 | $2,611 | $14,000 | | a |
| 10. Annual Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 2 | 24 | 2 | 1 | $2,611 | $32,000 | | a |
| 11. Initial Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 12. Monthly Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 12 | 60 | 2 | 120 | 12 | 6 | $13,053 | $9,600 | | a |
| 13. Continuous Parameter Monitoring | | | | | | | | | | | | | | |
| Establish Site-specific monitoring plan (all) | 40 | $0 | | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| Opacity | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $43,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $14,700 | 1 | 10 | 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 | | a |
| b) annual | 10 | $0 | $0 | $56,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| CO (only sources greater than 100 mmBtu/hr) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $160,900 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $53,600 | 1 | 10 | 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 | | a |
| b) annual | 10 | $0 | $0 | $5,600 | 1 | 10 | 2 | 20 | 2 | 1 | $2,176 | $11,200 | | a |
| Bag Leak Detection System Operation (all sources that have fabric filters) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $25,500 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 2 | 20 | 2 | 1 | $2,176 | $19,400 | | a |
| 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 | | a |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 3) Initial Report on results of Energy Audit | 5 | $0 | $0 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 4) Semi-annual Compliance Report | 20 | $0 | $0 | $0 | 2 | 40 | 2 | 80 | 8 | 4 | $8,702 | $0 | 4 | a |
| *Reporting Subtotal* | | | | | | | | 312 | 31 | 16 | $33,939 | $96,200 | 4 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | b |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of Operating Parameter Values | 20 | $0 | $0 | $0 | 1 | 20 | 2 | 40 | 4 | 2 | $4,351 | $0 | | a |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 2 | 30 | 3 | 2 | $3,263 | $0 | | a |
| 3) Records of Stack Tests | 2 | $0 | $0 | $0 | 1 | 2 | 2 | 4 | 0 | 0 | $435 | $0 | | a |
| 4) Records of Monitoring Device Calibrations | 2 | $0 | $0 | $0 | 1 | 2 | 2 | 4 | 0 | 0 | $435 | $0 | | a |
| 5) Records of All Compliance Reports Submitted | 2 | $0 | $0 | $0 | 2 | 4 | 2 | 8 | 1 | 0 | $870 | $0 | | a |
| 6) Records of Monthly Fuel Use | 0.5 | $0 | $0 | $0 | 12 | 6 | 2 | 12 | 1 | 1 | $1,305 | $0 | | a |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 98 | 10 | 5 | $10,660 | $0 | | |
| **Totals** | | | | | | | | **410** | **41** | **21** | **$44,599** | **$96,200** | **4** | |

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.

**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) Stack Testing and Fuel Analysis Cost Per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year\ | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year [(B+C+D)xExG] | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Initial Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 2. Initial Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 3. Initial Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 4. Initial Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 5. Initial Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 6. Annual Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 2 | 24 | 2 | 1 | $2,611 | $10,000 | | a |
| 7. Annual Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 8. Annual Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 9. Annual Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 2 | 24 | 2 | 1 | $2,611 | $14,000 | | a |
| 10. Annual Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 2 | 24 | 2 | 1 | $2,611 | $32,000 | | a |
| 11. Initial Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 12. Monthly Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 12 | 60 | 2 | 120 | 12 | 6 | $13,053 | $9,600 | | a |
| 13. Continuous Parameter Monitoring | | | | | | | | | | | | | | |
| Establish Site-specific monitoring plan (all) | 40 | $0 | | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| Opacity | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $43,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $14,700 | 1 | 10 | 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 | | a |
| b) annual | 10 | $0 | $0 | $56,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| CO (only sources greater than 100 mmBtu/hr) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $160,900 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $53,600 | 1 | 10 | 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 | | a |
| b) annual | 10 | $0 | $0 | $5,600 | 1 | 10 | 2 | 20 | 2 | 1 | $2,176 | $11,200 | | a |
| Bag Leak Detection System Operation (all sources that have fabric filters) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $25,500 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 2 | 20 | 2 | 1 | $2,176 | $19,400 | | a |
| 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 | | a |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 3) Initial Report on results of Energy Audit | 5 | $0 | $0 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 4) Semi-annual Compliance Report | 20 | $0 | $0 | $0 | 2 | 40 | 2 | 80 | 8 | 4 | $8,702 | $0 | 4 | a |
| *Reporting Subtotal* | | | | | | | | 312 | 31 | 16 | $33,939 | $96,200 | 4 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | b |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of Operating Parameter Values | 20 | $0 | $0 | $0 | 1 | 20 | 2 | 40 | 4 | 2 | $4,351 | $0 | | a |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 2 | 30 | 3 | 2 | $3,263 | $0 | | a |
| 3) Records of Stack Tests | 2 | $0 | $0 | $0 | 1 | 2 | 2 | 4 | 0 | 0 | $435 | $0 | | a |
| 4) Records of Monitoring Device Calibrations | 2 | $0 | $0 | $0 | 1 | 2 | 2 | 4 | 0 | 0 | $435 | $0 | | a |
| 5) Records of All Compliance Reports Submitted | 2 | $0 | $0 | $0 | 2 | 4 | 2 | 8 | 1 | 0 | $870 | $0 | | a |
| 6) Records of Monthly Fuel Use | 0.5 | $0 | $0 | $0 | 12 | 6 | 2 | 12 | 1 | 1 | $1,305 | $0 | | a |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 98 | 10 | 5 | $10,660 | $0 | | |
| **Totals** | | | | | | | | **410** | **41** | **21** | **$44,599** | **$96,200** | **4** | |

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.

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

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Stack Testing and Fuel Analysis Cost Per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year [(B+C+D)xExG] | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 2 | 93 | 9 | 5 | $10,153 | $0 | | a |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Initial Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 2. Initial Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 3. Initial Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 4. Initial Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 5. Initial Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a,c |
| 6. Annual Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a,c |
| 7. Annual Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a,c |
| 8. Annual Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a,c |
| 9. Annual Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a,c |
| 10. Annual Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a,c |
| 11. Initial Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 12. Monthly Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 12 | 60 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 13. Continuous Parameter Monitoring | | | | | | | | | | | | | | |
| Establish Site-specific monitoring plan (all) | 40 | $0 | | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| Opacity | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $43,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $14,700 | 1 | 10 | 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 | | a |
| b) annual | 10 | $0 | $0 | $56,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| CO (only sources greater than 100 mmBtu/hr) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $160,900 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $53,600 | 1 | 10 | 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 | | a |
| b) annual | 10 | $0 | $0 | $5,600 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| Bag Leak Detection System Operation (all sources that have fabric filters) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $25,500 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 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 | | a |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | | 0 | 0 | 0 | $0 | $0 | | a |
| 14. Biennual Tune-Up | 12 | $0 | $2,228 | $0 | 0.5 | 6 | 14 | 84 | 8 | 4 | $9,137 | $31,192 | 7 | d |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 2 | 5 | 0 | 0 | $508 | $0 | 2 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 2 | 19 | 2 | 1 | $2,031 | $0 | 2 | a |
| 3) Initial Report on results of Energy Audit | 5 | $0 | $0 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 4) Biennual Compliance Report | 5 | $0 | $0 | $0 | 0.5 | 2.5 | 2 | 6 | 1 | 0 | $635 | $0 | 1 | d |
| *Reporting Subtotal* | | | | | | | | 207 | 21 | 10 | $22,463 | $31,192 | 6 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | b |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of Operating Parameter Values | 20 | $0 | $0 | $0 | 1 | 20 | | 0 | 0 | 0 | $0 | $0 | | a |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | | 0 | 0 | 0 | $0 | $0 | | a |
| 3) Records of Stack Tests | 2 | $0 | $0 | $0 | 1 | 2 | | 0 | 0 | 0 | $0 | $0 | | a |
| 4) Records of Monitoring Device Calibrations | 2 | $0 | $0 | $0 | 1 | 2 | | 0 | 0 | 0 | $0 | $0 | | a |
| 5) Records of All Biennial Compliance Reports Submitted | 2 | $0 | $0 | $0 | 0.5 | 1 | 14 | 14 | 1 | 1 | $1,523 | $0 | | d |
| 6) Records of Monthly Fuel Use | 0.5 | $0 | $0 | $0 | 12 | 6 | 14 | 84 | 8 | 4 | $9,137 | $0 | | a |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 98 | 10 | 5 | $10,660 | $0 | | |
| **Totals** | | | | | | | | **305** | **30** | **15** | **$33,123** | **$31,192** | **6** | |

a The total number of new small gas fuel boilers estimated in the first 3 years of this rule is 27. These boilers are estimated to occur at 4 facilities. Two new facilities with 7 boilers each will be installed in year one. One facility with 7 boilers will be installed in year 2 and another facility with 6 boilers will be installed in year 3.

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

c In year 1, only initial burdens are realized. Annual burdens will not begin until year 2

d. Small gas units will have a biennial tune-up and compliance report requirement.

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

**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) Stack Testing and Fuel Analysis Cost Per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year [(B+C+D)xExG] | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 1 | 40 | 4 | 2 | $4,351 | $0 | | a |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Initial Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 2. Initial Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 3. Initial Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 4. Initial Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 5. Initial Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a,c |
| 6. Annual Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a,c |
| 7. Annual Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a,c |
| 8. Annual Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a,c |
| 9. Annual Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a,c |
| 10. Annual Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | 0 | 0 | 0 | 0 | $0 | $0 | | a,c |
| 11. Initial Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 12. Monthly Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 12 | 60 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 13. Continuous Parameter Monitoring | | | | | | | | | | | | | | |
| Establish Site-specific monitoring plan (all) | 40 | $0 | | $0 | 1 | 40 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| Opacity | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $43,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $14,700 | 1 | 10 | 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 | | a |
| b) annual | 10 | $0 | $0 | $56,100 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| CO (only sources greater than 100 mmBtu/hr) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $160,900 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $53,600 | 1 | 10 | 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 | | a |
| b) annual | 10 | $0 | $0 | $5,600 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| Bag Leak Detection System Operation (all sources that have fabric filters) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $25,500 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 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 | | a |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 14. Biennual Tune-Up | 12 | $0 | $2,228 | $0 | 0.5 | 6 | 21 | 126 | 13 | 6 | $13,706 | $46,788 | 11 | d |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 1 | 2 | 0 | 0 | $218 | $0 | 1 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 1 | 8 | 1 | 0 | $870 | $0 | 1 | a |
| 3) Initial Report on results of Energy Audit | 5 | $0 | $0 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 4) Biennual Compliance Report | 5 | $0 | $0 | $0 | 0.5 | 2.5 | 3 | 8 | 1 | 0 | $906 | $0 | 2 | a |
| *Reporting Subtotal* | | | | | | | | 184 | 18 | 9 | $20,051 | $46,788 | 4 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | b |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of Operating Parameter Values | 20 | $0 | $0 | $0 | 1 | 20 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 3) Records of Stack Tests | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 4) Records of Monitoring Device Calibrations | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 5) Records of All Biennial Compliance Reports Submitted | 2 | $0 | $0 | $0 | 2 | 4 | 21 | 84 | 8 | 4 | $9,137 | $0 | | a |
| 6) Records of Monthly Fuel Use | 0.5 | $0 | $0 | $0 | 12 | 6 | 21 | 126 | 13 | 6 | $13,706 | $0 | | a |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 210 | 21 | 11 | $22,843 | $0 | | |
| **Totals** | | | | | | | | **394** | **39** | **20** | **$42,895** | **$46,788** | **4** | |

a The total number of new small gas fuel boilers estimated in the first 3 years of this rule is 27. These boilers are estimated to occur at 4 facilities. Two new facilities with 7 boilers each will be installed in year one. One facility with 7 boilers will be installed in year 2 and another facility with 6 boilers will be installed in year 3.

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

c In year 1, only initial burdens are realized. Annual burdens will not begin until year 2

d. Small gas units will have a biennial tune-up and compliance report requirement.

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

| Burden Item | (A) Respondent Hours per Occurrence (Technical hours) | (B) Certified Energy Audit Cost per Occurrence | (C) Stack Testing and Fuel Analysis Cost Per Occurrence | (D) Other Non-Labor Costs Per Occurrence | (E) Number of Occurrences Per Respondent Per Year | (F) Technical Hours per Respondent Per Year (A X E) | (G) Number of Respondents Per Year | (H) Technical Hours per Year @ $98.20 (F X G) | (I) Clerical Hours per Year @ $48.53 (H X 0.1) | (J) Management Hours per Year @ $114.49 (H X .05) | (K) Total Labor Costs Per Year | (L) Total Non-Labor Capital Costs Per Year [(B+C+D)xExG] | (M) Total Number of Responses per Year (E X G) | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Applications | na | | | | | | | | | | | | | |
| 2. Surveys and Studies | na | | | | | | | | | | | | | |
| 3. Reporting Requirements | | | | | | | | | | | | | | |
| A. Read and Understand Rule Requirements | 40 | $0 | $0 | $0 | 1 | 40 | 1 | 40 | 4 | 2 | $4,351 | $0 | | a |
| B. Required Activities | | | | | | | | | | | | | | |
| 1. Initial Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | | 0 | 0 | 0 | $0 | $0 | | a |
| 2. Initial Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | | 0 | 0 | 0 | $0 | $0 | | a |
| 3. Initial Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | | 0 | 0 | 0 | $0 | $0 | | a |
| 4. Initial Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | | 0 | 0 | 0 | $0 | $0 | | a |
| 5. Initial Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | | 0 | 0 | 0 | $0 | $0 | | a,c |
| 6. Annual Stack Test and Report (for PM) | 12 | $0 | $5,000 | $0 | 1 | 12 | | 0 | 0 | 0 | $0 | $0 | | a,c |
| 7. Annual Stack Test and Report (for Hg) | 12 | $0 | $8,000 | $0 | 1 | 12 | | 0 | 0 | 0 | $0 | $0 | | a,c |
| 8. Annual Stack Test and Report (for HCl) | 12 | $0 | $8,000 | $0 | 1 | 12 | | 0 | 0 | 0 | $0 | $0 | | a,c |
| 9. Annual Stack Test and Report (for CO) | 12 | $0 | $7,000 | $0 | 1 | 12 | | 0 | 0 | 0 | $0 | $0 | | a,c |
| 10. Annual Stack Test and Report (for D/F) | 12 | $0 | $16,000 | $0 | 1 | 12 | | 0 | 0 | 0 | $0 | $0 | | a,c |
| 11. Initial Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 1 | 5 | | 0 | 0 | 0 | $0 | $0 | | a |
| 12. Monthly Fuel Analysis for Mercury and HCL Content | 5 | $0 | $400 | $0 | 12 | 60 | | 0 | 0 | 0 | $0 | $0 | | a |
| 13. Continuous Parameter Monitoring | | | | | | | | | | | | | | |
| Establish Site-specific monitoring plan (all) | 40 | $0 | | $0 | 1 | 40 | | 0 | 0 | 0 | $0 | $0 | | a |
| Opacity | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $43,100 | 1 | 10 | | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $14,700 | 1 | 10 | | 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 | | a |
| b) annual | 10 | $0 | $0 | $56,100 | 1 | 10 | | 0 | 0 | 0 | $0 | $0 | | a |
| CO (only sources greater than 100 mmBtu/hr) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $160,900 | 1 | 10 | | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $53,600 | 1 | 10 | | 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 | | a |
| b) annual | 10 | $0 | $0 | $5,600 | 1 | 10 | | 0 | 0 | 0 | $0 | $0 | | a |
| Bag Leak Detection System Operation (all sources that have fabric filters) | | | | | | | | | | | | | | |
| a) initial | 10 | $0 | $0 | $25,500 | 1 | 10 | | 0 | 0 | 0 | $0 | $0 | | a |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | | 0 | 0 | 0 | $0 | $0 | | a |
| 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 | | a |
| b) annual | 10 | $0 | $0 | $9,700 | 1 | 10 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 14. Biennual Tune-Up | 12 | $0 | $2,228 | $0 | 0.5 | 6 | 27 | 162 | 16 | 8 | $17,622 | $60,156 | 14 | d |
| C. Create Information | na | | | | | | | | | | | | | |
| D. Gather Information | na | | | | | | | | | | | | | |
| E. Report Preparation | | | | | | | | | | | | | | |
| 1) Initial Notification that Source is Subject | 2 | $0 | $0 | $0 | 1 | 2 | 1 | 2 | 0 | 0 | $218 | $0 | 1 | a |
| 2) Notification of Compliance Status | 8 | $0 | $0 | $0 | 1 | 8 | 1 | 8 | 1 | 0 | $870 | $0 | 1 | a |
| 3) Initial Report on results of Energy Audit | 5 | $0 | $0 | $0 | 1 | 5 | 0 | 0 | 0 | 0 | $0 | $0 | 0 | a |
| 4) Biennual Compliance Report | 5 | $0 | $0 | $0 | 0.5 | 2.5 | 4 | 11 | 1 | 1 | $1,178 | $0 | 2 | a |
| *Reporting Subtotal* | | | | | | | | 223 | 22 | 11 | $24,239 | $60,156 | 4 | |
| 4. Recordkeeping Requirements | | | | | | | | | | | | | | |
| A. Read Instructions | Included in 3a | | | | | | | | | | | | | |
| B. Implement Activities | na | | | | | | | | | | | | | |
| C. Develop Record System | na | | | | | | | | | | | | | b |
| D. Record Information | | | | | | | | | | | | | | |
| 1) Records of Operating Parameter Values | 20 | $0 | $0 | $0 | 1 | 20 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 2) Records of Startup, Shutdown, Malfunction | 15 | $0 | $0 | $0 | 1 | 15 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 3) Records of Stack Tests | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 4) Records of Monitoring Device Calibrations | 2 | $0 | $0 | $0 | 1 | 2 | 0 | 0 | 0 | 0 | $0 | $0 | | a |
| 5) Records of All Biennial Compliance Reports Submitted | 2 | $0 | $0 | $0 | 2 | 4 | 27 | 108 | 11 | 5 | $11,748 | $0 | | a |
| 6) Records of Monthly Fuel Use | 0.5 | $0 | $0 | $0 | 12 | 6 | 27 | 162 | 16 | 8 | $17,622 | $0 | | a |
| E. Personnel Training | na | | | | | | | | | | | | | |
| F. Time for Audits | na | | | | | | | | | | | | | |
| *Recordkeeping Subtotal* | | | | | | | | 270 | 27 | 14 | $29,370 | $0 | | |
| **Totals** | | | | | | | | **493** | **49** | **25** | **$53,609** | **$60,156** | **4** | |

a The total number of new small gas fuel boilers estimated in the first 3 years of this rule is 27. These boilers are estimated to occur at 4 facilities. Two new facilities with 7 boilers each will be installed in year one. One facility with 7 boilers will be installed in year 2 and another facility with 6 boilers will be installed in year 3.

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

c In year 1, only initial burdens are realized. Annual burdens will not begin until year 2

d. Small gas units will have a biennial tune-up and compliance report requirement.

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

| Burden Item | EPA hours per occurrence (A) | Number of occurrences per year (B) | EPA hours per occurrence per year (C=AxB) | Technical hours per year (D=C) | Mangmt hours per year (E=Dx0.05) | Clerical hours per year (F=Dx0.1) | (H) Costs, $ k | Footnotes |
|---|---|---|---|---|---|---|---|---|
| 1. Read and understand rule requirements | 40 | 60 | 2,400 | 2,400 | 120 | 240 | $124,379 | a |
| 2. Enter and update information into agency recordkeeping system | 2 | 1,616 | 3,233 | 3,233 | 162 | 323 | $167,531 | b |
| 3. Required activities | | | | | | | | |
| A. Observe initial stack/performance test | 40 | 3 | 112 | 112 | 6 | 11 | $5,804 | c |
| B. Observe repeat performance test | 40 | 1 | 56 | 56 | 3 | 6 | $2,902 | d |
| C. Review operating parameters | 2 | 14 | 28 | 28 | 1 | 3 | $1,451 | e |
| D. Review continuous parameter monitoring | 2 | 7 | 14 | 14 | 1 | 1 | $726 | 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 | 1,616 | 3,233 | 3,233 | 162 | 323 | $167,531 | b |
| B. Review notification of initial performance tests and review test plan | 20 | 14 | 280 | 280 | 14 | 28 | $14,511 | e |
| C. Review notification of compliance status | 2 | 7 | 15 | 15 | 1 | 1 | $760 | b |
| 6. Reporting requirements | | | 0 | 0 | 0 | 0 | $0 | |
| A. Review semiannual compliance report | 4 | 8 | 32 | 32 | 2 | 3 | $1,658 | h |
| B. Review annual compliance report | 2 | 0 | 0 | 0 | 0 | 0 | $0 | i |
| C. Review biennial compliance report | 1 | 1 | 1 | 1 | 0 | 0 | $60 | j |
| D. Review initial report on results of energy audit | 2 | 0 | 0 | 0 | 0 | 0 | $0 | L |
| 7. Travel Expenses for Tests Attended | 3 days * ($110 hotel + $58 meals/incidentals) + ($600 round trip) = $1104 per trip | | | | | | $4,637 | m |
| **TOTAL BURDEN AND COST (SALARY)** | | | | 9,403 | 470 | 940 | **$491,951** | |
| **TOTAL ANNUAL HOURS** | | | | | | **10,814** | | |
| | | | | | | | | |

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 in year 1 that are required to submit initial notifications stated they are subject to the standard (all new boilers in the large and small solid, liquid, and gaseous subcategories, plus all existing large and small solid, liquid, and gaseous subcategories). For initial notifications of compliance status, the number of occurances 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 in year 1 (in year 1 only boilers in new large solid, liquid, and gaseous subcategories test).

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

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

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 new units in year 1 that test, 10% of them will have exceedances and need enforcement.

h Number of occurences is the number of projected new units in year 1 that will submit these semi-annual compliance reports (new units in the large and small solid, liquid and large other process gas subcategories), 2 reports per year per respondent.

i. Number of occurences is the number of projected new units in year 1 that will submit these annual compliance reports (new units in the large natural gas/refinery gas subcategory).

i. Number of occurences is the number of projected new units in year 1 that will submit these biennial compliance reports (new units in the small natural gas/refinery gas subcategory).

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.

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

| Burden Item | EPA hours per occurrence (A) | Number of occurrences per year (B) | EPA hours per occurrence per year (C=AxB) | Technical hours per year (D=C) | Mangmt hours per year (E=Dx0.05) | Clerical hours per year (F=Dx0.1) | (H) Costs, $ [k] | Footnotes |
|---|---|---|---|---|---|---|---|---|
| 1. Read and understand rule requirements | 40 | 0 | 0 | 0 | 0 | 0 | $0 | a |
| 2. Enter and update information into agency recordkeeping system | 2 | 10 | 20 | 20 | 1 | 2 | $1,036 | b |
| 3. Required activities | | | | | | | | |
| A. Observe initial stack/performance test | 40 | 658 | 26,320 | 26,320 | 1,316 | 2,632 | $1,364,021 | c |
| B. Observe repeat performance test | 40 | 329 | 13,160 | 13,160 | 658 | 1,316 | $682,010 | d |
| C. Review operating parameters | 2 | 3,290 | 6,580 | 6,580 | 329 | 658 | $341,005 | e |
| D. Review continuous parameter monitoring | 2 | 13 | 26 | 26 | 1 | 3 | $1,347 | f |
| 4 Excess Emissions Enforcement Activities and Inspections | 24 | 329 | 0 | 0 | 0 | 0 | $0 | g |
| 5 Notification requirements | | | | | | | | |
| A. Review initial notification that sources are subject to the standard | 2 | 10 | 20 | 20 | 1 | 2 | $1,036 | b |
| B. Review notification of initial performance tests and review test plan | 20 | 3,290 | 65,800 | 65,800 | 3,290 | 6,580 | $3,410,052 | e |
| C. Review notification of compliance status | 2 | 5 | 10 | 10 | 1 | 1 | $518 | b |
| 6. Reporting requirements | | | 0 | 0 | 0 | 0 | $0 | |
| A. Review semiannual compliance report | 4 | 12 | 48 | 48 | 2 | 5 | $2,488 | h |
| B. Review annual compliance report | 2 | 1 | 2 | 2 | 0 | 0 | $104 | i |
| C. Review biennial compliance report | 1 | 2 | 2 | 2 | 0 | 0 | $86 | j |
| D. Review initial report on results of energy audit | 2 | 0 | 0 | 0 | 0 | 0 | $0 | L |
| 7. Travel Expenses for Tests Attended | 3 days * ($110 hotel + $58 meals/incidentals) + ($600 round trip) = $1104 per trip | | | | | | $1,089,648 | m |
| **TOTAL BURDEN AND COST (SALARY)** | | | | 111,988 | 5,599 | 11,199 | **$6,893,353** | |
| **TOTAL ANNUAL HOURS** | | | | | | **128,786** | | |
| | | | | | | | | |

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 in year 1 that are required to submit initial notifications stated they are subject to the standard (all new boilers in the large and small solid, liquid, and gaseous subcategories, plus all existing large and small solid, liquid, and gaseous subcategories). For initial notifications of compliance status, the number of occurances 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 in year 1 (in year 1 only boilers in new large solid, liquid, and gaseous subcategories test).

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

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

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 new units in year 1 that test, 10% of them will have exceedances and need enforcement.

h Number of occurences is the number of projected new units in year 1 that will submit these semi-annual compliance reports (new units in the large and small solid, liquid and large other process gas subcategories), 2 reports per year per respondent.

i. Number of occurences is the number of projected new units in year 1 that will submit these annual compliance reports (new units in the large natural gas/refinery gas subcategory).

i. Number of occurences is the number of projected new units in year 1 that will submit these biennial compliance reports (new units in the small natural gas/refinery gas subcategory).

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

| Burden Item | EPA hours per occurrence (A) | Number of occurrences per year (B) | EPA hours per occurrence per year (C=AxB) | Technical hours per year (D=C) | Mangmt hours per year (E=Dx0.05) | Clerical hours per year (F=Dx0.1) | (H) Costs, $ [k] | Footnotes |
|---|---|---|---|---|---|---|---|---|
| 1. Read and understand rule requirements | 40 | 0 | 0 | 0 | 0 | 0 | $0 | a |
| 2. Enter and update information into agency recordkeeping system | 2 | 1,617 | 3,234 | 3,234 | 162 | 323 | $167,600 | b |
| 3. Required activities | | | | | | | | |
| A. Observe initial stack/performance test | 40 | 611 | 24,424 | 24,424 | 1,221 | 2,442 | $1,265,762 | c |
| B. Observe repeat performance test | 40 | 305 | 12,212 | 12,212 | 611 | 1,221 | $632,881 | d |
| C. Review operating parameters | 2 | 3,053 | 6,106 | 6,106 | 305 | 611 | $316,440 | e |
| D. Review continuous parameter monitoring | 2 | 1,581 | 3,162 | 3,162 | 158 | 316 | $163,869 | f |
| 4 Excess Emissions Enforcement Activities and Inspections | 24 | 305 | 0 | 0 | 0 | 0 | $0 | g |
| 5 Notification requirements | | | | | | | | |
| A. Review initial notification that sources are subject to the standard | 2 | 1,617 | 3,234 | 3,234 | 162 | 323 | $167,600 | b |
| B. Review notification of initial performance tests and review test plan | 20 | 3,053 | 61,060 | 61,060 | 3,053 | 6,106 | $3,164,404 | e |
| C. Review notification of compliance status | 2 | 1,613 | 3,226 | 3,226 | 161 | 323 | $167,186 | b |
| 6. Reporting requirements | | | 0 | 0 | 0 | 0 | $0 | |
| A. Review semiannual compliance report | 4 | 386 | 1,544 | 1,544 | 77 | 154 | $80,017 | h |
| B. Review annual compliance report | 2 | 523 | 1,046 | 1,046 | 52 | 105 | $54,208 | i |
| C. Review biennial compliance report | 1 | 442 | 442 | 442 | 22 | 44 | $22,889 | j |
| B. Review initial report on results of energy audit | 2 | 1,609 | 3,218 | 3,218 | 161 | 322 | $166,771 | L |
| 7. Travel Expenses for Tests Attended | 3 days * ($110 hotel + $58 meals/incidentals) + ($600 round trip) = $1104 per trip | | | | | | $1,011,154 | m |
| **TOTAL BURDEN AND COST (SALARY)** | | | | 122,908 | 6,145 | 12,291 | **$7,380,782** | |
| **TOTAL ANNUAL HOURS** | | | | | | **141,344** | | |
| | | | | | | | | |

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 in year 1 that are required to submit initial notifications stated they are subject to the standard (all new boilers in the large and small solid, liquid, and gaseous subcategories, plus all existing large and small solid, liquid, and gaseous subcategories). For initial notifications of compliance status, the number of occurances 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 in year 1 (in year 1 only boilers in new large solid, liquid, and gaseous subcategories test).

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

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

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 new units in year 1 that test, 10% of them will have exceedances and need enforcement.

h Number of occurences is the number of existing and projected new units in year 1 that will submit these semi-annual compliance reports (new and existing units in the large solid, liquid and other process gas subcategories), 2 reports per year per respondent.

i. Number of occurences is the number of projected new units in year 1 that will submit these annual compliance reports (new units in the large natural gas/refinery gas subcategory).

i. Number of occurences is the number of projected new units in year 1 that will submit these biennial compliance reports (new units in the small natural gas/refinery gas subcategory).