Table 1: Annual Respondent Burden and Cost for Existing Large Solid Fuel Units – NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR Part 63, Subpart DDDDD) (Amendments)

Management Technical

|   |  |                              | (C)                    |                         | (E)                    | (F)             |                           |                                       |                    |                             |                                 |                                 |
|---|--|------------------------------|------------------------|-------------------------|------------------------|-----------------|---------------------------|---------------------------------------|--------------------|-----------------------------|---------------------------------|---------------------------------|
|   | (A)  | (B)                          | Stack Testing and      | (D)                     | Number of              | Technical Hours | (G)                       | (H)                                   | (I)                | (J)                         |                                 | (L)                             |
|   | Respondent Hours                                 | Certified Energy             | Fuel Analysis          | Other Non-Labor         | Occurrences Per        | per Respondent  | Number of                 | Technical Hours                       | Clerical Hours per | Management                  | (K)                             | Total Non-Labor                 |
| Burden Item   | per Occurrence<br>(Technical hours)              | Audit Cost per<br>Occurrence | Cost Per<br>Occurrence | Costs Per<br>Occurrence | Respondent Per<br>Year | Per Year        | Respondents Per<br>Year * | per Year                              | Year<br>(H X 0.1)  | Hours per Year<br>(H X .05) | Total Labor Costs<br>Per Year b | Costs Per Year<br>[(B+C+D)xExG] |
|   | NA NA  | Occurrence                   | Occurrence             | Occurrence              | r ear                  | (A X E)         | Year"                     | (F X G)                               | (H X 0.1)          | (H A .05)                   | Per Year                        | [(B+C+D)XEXG]                   |
| 1. Applications   |  |                              |                        |                         |                        |                 |                           |                                       |                    |                             |                                 |                                 |
| 2. Surveys and Studies  | NA   |                              |                        |                         |                        |                 |                           |                                       |                    |                             |                                 |                                 |
| 3. Reporting Requirements   |  |                              |                        |                         |                        |                 |                           |                                       |                    |                             |                                 |                                 |
| A. Familiarization with Regulatory Requirements <sup>c</sup>                              | 10   | \$0                          | \$0                    | \$0                     | 1                      | 10              | 25                        | 250                                   | 25                 | 13                          | \$33,298                        | \$0                             |
| B. Required Activities  |  |                              |                        |                         |                        |                 |                           |                                       |                    |                             |                                 |                                 |
| Conduct Energy Audit  |  |                              |                        |                         |                        |                 |                           |                                       |                    |                             |                                 |                                 |
| a) Commerical   | 20   | \$854                        | \$0                    | \$0                     | 1                      | 20              | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| b) Industrial   | 20   | \$18,292                     | \$0                    | \$0                     | 1                      | 20              | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| <ol><li>Initial Stack Test and Report (for PM)</li></ol>                                  | 12   | \$0                          | \$5,000                | \$0                     | 1                      | 12              | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| <ol><li>Initial Stack Test and Report (for Hg)</li></ol>                                  | 12   | \$0                          | \$8,000                | \$0                     | 1                      | 12              | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| Initial Stack Test and Report (for HCl)   | 12   | \$0                          | \$8,000                | \$0                     | 1                      | 12              | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| <ol><li>Initial Stack Test and Report (for CO)</li></ol>                                  | 12   | \$0                          | \$7,000                | \$0                     | 1                      | 12              | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| <ol><li>Annual Stack Test and Report (for PM)</li></ol>                                   | 12   | \$0                          | \$5,000                | \$0                     | 1                      | 12              | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| <ol><li>Annual Stack Test and Report (for Hg)</li></ol>                                   | 12   | \$0                          | \$8,000                | \$0                     | 1                      | 12              | 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                             |
| <ol><li>Annual Stack Test and Report (for CO)</li></ol>                                   | 12   | \$0                          | \$7,000                | \$0                     | 1                      | 12              | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| 10) Repeat Stack Test and Report if Switch Fuels (for                                     |  |                              |                        |                         |                        |                 |                           |                                       |                    |                             |                                 |                                 |
| Hg and HCl)   | 24   | \$0                          | \$16,000               | \$0                     | 1                      | 24              | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| 11) Initial Fuel Analysis for Mercury and HCL   |  |                              |                        |                         |                        |                 |                           |                                       |                    |                             |                                 |                                 |
| Content Content   | 5  | \$0                          | \$400                  | \$0                     | 1                      | 5               | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| 12) Monthly Fuel Analysis for Mercury and HCL   |  | Ψ0                           | <b>\$400</b>           | Ψ0                      | · ·                    | , ,             |                           |                                       | l v                |                             | Ψ0                              | 90                              |
| Content Content   | 5  | \$0                          | \$400                  | \$0                     | 12                     | 60              | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| 13) Annual Tune-up  | 12   | \$0                          | \$2,875                | \$0                     | 1                      | 12              | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| 14) Continuous Parameter Monitoring   | 12   | 30                           | 92,073                 |                         | ,                      | 12              | ,                         | , , , , , , , , , , , , , , , , , , , | ,                  | 0                           | 30                              | 90                              |
|   | 40   | 60                           |                        |                         |                        |                 |                           |                                       |                    |                             | 60                              |                                 |
| Update Site-specific monitoring plan (all)  | 40   | \$0                          |                        | \$0                     | 1                      | 40              | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| Opacity   | -  | L                            | ļ                      |                         |                        |                 |                           |                                       |                    |                             |                                 |                                 |
| a) initial  | 10   | \$0                          | \$0                    | \$25,812                | 1                      | 10              | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| b) annual   | 10   | \$0                          | \$0                    | \$9,855                 | 1                      | 10              | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| PM (only sources greater than 250 mmBtu/hr)   |  |                              |                        |                         |                        |                 |                           |                                       |                    |                             |                                 |                                 |
| a) initial  | 10   | \$0                          | \$0                    | \$158,000               | 1                      | 10              | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| b) annual   | 10   | \$0                          | \$0                    | \$56,100                | 1                      | 10              | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| O2  |  |                              |                        |                         |                        |                 |                           |                                       |                    |                             |                                 |                                 |
| a) initial  | 10   | \$0                          | \$0                    | \$8,523                 | 1                      | 10              | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| b) annual   | 10   | \$0                          | \$0                    | \$1,436                 | 1                      | 10              | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| Scrubber System Monitoring and Operation(for  |  |                              |                        |                         |                        |                 |                           |                                       |                    |                             |                                 |                                 |
| units with wet scrubbers)   |  |                              |                        |                         |                        |                 |                           |                                       |                    |                             |                                 |                                 |
| a) initial  | 10   | \$0                          | \$0                    | \$25,054                | 1                      | 10              | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| b) annual   | 10   | \$0                          | \$0                    | \$5,774                 | 1                      | 10              | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| Bag Leak Detection System Operation (sources  |  |                              |                        |                         |                        |                 |                           |                                       |                    |                             |                                 |                                 |
| that have fabric filters)   |  |                              |                        |                         |                        |                 |                           |                                       |                    |                             |                                 |                                 |
| a) initial  | 10   | \$0                          | \$0                    | \$26,300                | 1                      | 10              | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| b) annual   | 10   | \$0                          | \$0                    | \$10,000                | 1                      | 10              | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| DIFF Monitor  |  |                              |                        | ,                       |                        |                 |                           |                                       |                    |                             |                                 |                                 |
| a) initial  | 10   | \$0                          | \$0                    | \$44,858                | 1                      | 10              | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| b) annual   | 10   | \$0                          | \$0                    | \$31,500                | 1                      | 10              | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| Carbon Injection Monitoring System (all sources   |  |                              |                        | ,                       |                        |                 |                           |                                       |                    |                             |                                 |                                 |
| that use ACI to control Hg)   |  |                              |                        |                         |                        |                 |                           |                                       |                    |                             |                                 |                                 |
| a) initial  | 10   | \$0                          | \$0                    | \$115,000               | 1                      | 10              | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| b) annual   | 10   | \$0                          | \$0                    | \$9,700                 | 1                      | 10              | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| CO CEMS   |  | T                            |                        | 40,                     | -                      |                 |                           |                                       |                    | -                           |                                 |                                 |
| a) initial  | 10   | \$0                          | \$0                    | \$153,700               | 1                      | 10              | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| b) annual   | 10   | \$0                          | \$0                    | \$42,600                | 1                      | 10              | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| C. Create Information   | NA NA  |                              |                        | 4.2,000                 | -                      |                 |                           |                                       |                    | -                           |                                 |                                 |
| D. Gather Information   | NA   |                              |                        |                         |                        |                 |                           |                                       |                    |                             |                                 |                                 |
| E. Report Preparation   |  |                              |                        |                         |                        |                 |                           |                                       |                    |                             |                                 |                                 |
| Neport Preparation     Initial Notification that Source is Subject                        | 2  | \$0                          | \$0                    | \$0                     | 1                      | 2               | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| Notification of Compliance Status   | 8  | \$0                          | \$0                    | \$0                     | 1                      | 8               | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| Notification of Compilance Status     Initial Report on results of Energy Audit           | 5  | \$0                          | \$0                    | \$0                     | 1                      | 5               | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| Semi-annual Compliance Report   | 20   | \$0                          | \$0                    | \$0                     | 2                      | 40              | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| Subtotal for Reporting Requirements   | 20   | 30                           | 30                     |                         | -                      | 40              | ,                         | , , , , , , , , , , , , , , , , , , , | 288                | · ·                         | \$33,298                        | \$0                             |
| 4. Recordkeeping Requirements   | <del>                                     </del> |                              |                        |                         |                        |                 |                           |                                       | 200                |                             | 933,230                         | 30                              |
|   | Included in 3a                                   |                              | -                      |                         |                        |                 |                           |                                       |                    |                             |                                 |                                 |
| A. Familiarization with Regulatory Requirements B. Implement Activities                   | NA NA  |                              |                        |                         |                        |                 |                           |                                       |                    |                             |                                 |                                 |
|   | NA<br>NA   |                              | l                      |                         |                        |                 |                           |                                       |                    |                             |                                 |                                 |
| C. Develop Record System D. Record Information  | INA  |                              |                        |                         |                        |                 |                           |                                       |                    |                             |                                 |                                 |
| Record information     Records of Operating Parameter Values                              | 20   | \$0                          | \$0                    | \$0                     | 1                      | 20              | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
|   | 15   | \$0<br>\$0                   | \$0<br>\$0             | \$0<br>\$0              | 1                      | 20<br>15        | 0                         | 0                                     | 0                  | 0                           | \$0<br>\$0                      | \$0                             |
| Records of Startup, Shutdown, Malfunction     Records of Stack Tests                      | 2  | \$0                          | \$0                    | \$0                     | 1                      | 2               | 0                         | 0                                     | 0                  | 0                           | \$0<br>\$0                      | \$0                             |
|   |  |                              |                        |                         | 1                      | 2               |                           |                                       |                    |                             |                                 |                                 |
| Records of Monitoring Device Calibrations     Records of All Compliance Reports Submitted | 2  | \$0                          | \$0                    | \$0                     | 2                      |                 | 0                         | 0                                     | 0                  | 0                           | \$0<br>\$0                      | \$0                             |
|   | 2  | \$0                          | \$0                    | \$0                     |                        | 4               | 0                         | 0                                     | 0                  | 0                           |                                 | \$0                             |
| 6) Records of Monthly Fuel Use  | 0.5<br>40  | \$0<br>\$0                   | \$0                    | \$0                     | 12                     | 6<br>40         | 0                         | 0                                     | 0                  | 0                           | \$0                             | \$0                             |
| E. Personnel Training   |  | \$0                          | \$0                    | \$0                     | 1                      | 40              | 0                         | 0                                     | 0                  | U                           | \$0                             | \$0                             |
| F. Time for Audits  | NA   |                              |                        |                         |                        |                 |                           |                                       |                    |                             |                                 |                                 |
| Subtotal for Recordkeeping Requirements   | 1  |                              |                        |                         |                        |                 |                           |                                       | 0                  |                             | \$0                             | \$0                             |
| Total Labor Burden and Cost (rounded) d   |  |                              |                        |                         |                        |                 |                           |                                       | 288                |                             | \$33,300                        |                                 |
| Total Capital and O&M Cost (rounded) d  |  |                              |                        |                         |                        |                 |                           |                                       |                    |                             |                                 | \$0                             |
| Grand Total (rounded) d   |  |                              |                        |                         |                        |                 |                           |                                       |                    |                             |                                 |                                 |
| Grand Total (rounded)   | 1  |                              |                        |                         | l                      | l               |                           |                                       |                    |                             |                                 | \$33,300                        |
|   |  |                              |                        |                         |                        |                 |                           |                                       |                    |                             |                                 |                                 |

Assumptions:
a This table shows only the additional burden to sources affected by the proposed amendments. All other new and recurring costs for these types of boilers are shown in the previous ICR Renewal (EPA ICR Number 2028.09, OMB Control Number 2060-0551). Since the EPA is proposing a 3-year compliance timeframe no burden is estimated in year 1 or 2.

b This ICR uses the following labor rates: \$141.06 for managerial, \$120.27 for technical, and \$58.67 for clerical labor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, June 2019, "Table 2. Civilian Workers, by occupational and industry group." The rates are from column 1, "Total compensation." The rates have been increased by 110 percent to account for the benefit packages available to those employed by private industry.

c We assume that respondents impacted by the proposal will familiarize themselves with the rule in year one and implement the rule in year three. Based on compliance data, we estimate that 25 facilities with existing solid fuel units will be impacted by the proposal. d Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

|   |                         |                  |                          |                     | 1                | 1                      | 1                |                 |                |                |                  |                        |
|---|-------------------------|------------------|--------------------------|---------------------|------------------|------------------------|------------------|-----------------|----------------|----------------|------------------|------------------------|
|   |                         |                  |                          |                     |                  |                        |                  |                 |                |                |                  |                        |
|   | (A)<br>Respondent       | (B)              | (C)<br>Stack Testing and | (D)                 | (E)<br>Number of | (F)<br>Technical Hours | (C)              | (H)             | (I)            | (J)            |                  | (I)                    |
|   | Hours per               | Certified Energy | Fuel Analysis            | Other Non-Labor     | Occurrences Per  | per Respondent         | (G)<br>Number of | Technical Hours | Clerical Hours | Management     | (K)              | (L)<br>Total Non-Labor |
|   | Occurrence              | Audit Cost per   | Cost Per                 | Costs Per           | Respondent Per   | Per Year               | Respondents Per  | per Year        | per Year       | Hours per Year | Total Labor      | Costs Per Year         |
| Burden Item 1. Applications   | (Technical hours)<br>NA | Occurrence       | Occurrence               | Occurrence          | Year             | (A X E)                | Year "           | (F X G)         | (H X 0.1)      | (H X .05)      | Costs Per Year b | [(B+C+D)xExG]          |
| 2. Surveys and Studies  | NA<br>NA                |                  |                          |                     |                  |                        |                  |                 |                |                |                  |                        |
| 3. Reporting Requirements   |                         |                  |                          |                     |                  |                        |                  |                 |                |                |                  |                        |
| A. Familiarization with Regulatory Requirements                                     | 10                      | \$0              | \$0                      | \$0                 | 1                | 10                     | 0                | 0               | 0              | 0              | \$0              | \$0                    |
| B. Required Activities  |                         |                  |                          |                     |                  |                        |                  |                 |                |                |                  |                        |
| Conduct Energy Audit  |                         |                  |                          |                     |                  |                        |                  |                 |                |                |                  |                        |
| a) Commerical   | 20                      | \$854            | \$0                      | \$0                 | 1                | 20                     | 0                | 0               | 0              | 0              | \$0              | \$0                    |
| b) Industrial 2) Initial Stack Test and Report (for PM)                             | 20<br>12                | \$18,292<br>\$0  | \$0<br>\$5,000           | \$0<br>\$0          | 1                | 20<br>12               | 0                | 0               | 0              | 0              | \$0<br>\$0       | \$0<br>\$0             |
| Initial Stack Test and Report (for FW)     Initial Stack Test and Report (for Hg)   | 12                      | \$0              | \$8,000                  | \$0                 | 1                | 12                     | 0                | 0               | 0              | 0              | \$0              | \$0                    |
| Initial Stack Test and Report (for HCl)   | 12                      | \$0              | \$8,000                  | \$0                 | 1                | 12                     | 0                | 0               | 0              | 0              | \$0              | \$0                    |
| 5) Initial Stack Test and Report (for CO)   | 12                      | \$0              | \$7,000                  | \$0                 | 1                | 12                     | 0                | 0               | 0              | 0              | \$0              | \$0                    |
| Annual Stack Test and Report (for PM)   | 12                      | \$0              | \$5,000                  | \$0                 | 1                | 12                     | 0                | 0               | 0              | 0              | \$0              | \$0                    |
| <ol><li>Annual Stack Test and Report (for Hg)</li></ol>                             | 12                      | \$0              | \$8,000                  | \$0                 | 1                | 12                     | 0                | 0               | 0              | 0              | \$0              | \$0                    |
| Annual Stack Test and Report (for HCl)  | 12                      | \$0              | \$8,000                  | \$0                 | 1                | 12                     | 0                | 0               | 0              | 0              | \$0              | \$0                    |
| Annual Stack Test and Report (for CO)   | 12                      | \$0              | \$7,000                  | \$0                 | 1                | 12                     | 0                | 0               | 0              | 0              | \$0              | \$0                    |
| 10) Repeat Stack Test and Report if Switch Fuels (for                               | 24                      | \$0              | \$16,000                 | \$0                 | 1                | 24                     | 0                | 0               | 0              | 0              | \$0              | \$0                    |
| Hg and HCl)   | 24                      | \$0              | \$16,000                 | 20                  | 1                | 24                     | U                | - "             | U              | 0              | 30               | \$0                    |
| <ol> <li>Initial Fuel Analysis for Mercury and HCL<br/>Content</li> </ol>           | 5                       | \$0              | \$400                    | \$0                 | 1                | 5                      | 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                    |
| 13) Annual Tune-up  | 12                      | \$0              | \$2,875                  | \$0                 | 1                | 12                     | 0                | 0               | 0              | 0              | \$0              | \$0                    |
| 14) Continuous Parameter Monitoring   |                         |                  |                          |                     |                  |                        |                  |                 |                |                |                  |                        |
| Update Site-specific monitoring plan (all)  | 40                      | \$0              |                          | \$0                 | 1                | 40                     | 0                | 0               | 0              | 0              | \$0              | \$0                    |
| Opacity   |                         | **               |                          |                     |                  |                        |                  |                 |                |                | **               | **                     |
| a) initial<br>b) annual   | 10<br>10                | \$0<br>\$0       | \$0<br>\$0               | \$25,812<br>\$9,855 | 1                | 10<br>10               | 0                | 0               | 0              | 0              | \$0<br>\$0       | \$0<br>\$0             |
| PM (only sources greater than 250 mmBtu/hr)   | 10                      | 30               | 30                       | \$5,055             | 1                | 10                     | 0                | - °             | 0              | 0              | 30               | 30                     |
| a) initial  | 10                      | \$0              | \$0                      | \$158,000           | 1                | 10                     | 0                | 0               | 0              | 0              | \$0              | \$0                    |
| b) annual   | 10                      | \$0              | \$0                      | \$56,100            | 1                | 10                     | 0                | 0               | 0              | 0              | \$0              | \$0                    |
| 02  |                         |                  |                          |                     |                  |                        |                  |                 |                |                |                  |                        |
| a) initial  | 10                      | \$0              | \$0                      | \$8,523             | 1                | 10                     | 0                | 0               | 0              | 0              | \$0              | \$0                    |
| b) annual   | 10                      | \$0              | \$0                      | \$1,436             | 1                | 10                     | 0                | 0               | 0              | 0              | \$0              | \$0                    |
| Scrubber System Monitoring and Operation(for  |                         |                  |                          |                     |                  |                        |                  |                 |                |                |                  |                        |
| units with wet scrubbers)   |                         | **               |                          |                     |                  |                        |                  |                 |                |                | **               | **                     |
| a) initial  | 10<br>10                | \$0              | \$0<br>\$0               | \$25,054            | 1                | 10<br>10               | 0                | 0               | 0              | 0              | \$0              | \$0                    |
| b) annual  Bag Leak Detection System Operation (sources                             | 10                      | \$0              | \$0                      | \$5,774             | 1                | 10                     | 0                | 0               | 0              | 0              | \$0              | \$0                    |
| that have fabric filters)   |                         |                  |                          |                     |                  |                        |                  |                 |                |                |                  |                        |
| a) initial  | 10                      | \$0              | \$0                      | \$26,300            | 1                | 10                     | 0                | 0               | 0              | 0              | \$0              | \$0                    |
| b) annual   | 10                      | \$0              | \$0                      | \$10,000            | 1                | 10                     | 0                | 0               | 0              | 0              | \$0              | \$0                    |
| DIFF Monitor  |                         |                  |                          |                     |                  |                        |                  |                 |                |                |                  |                        |
| a) initial  | 10                      | \$0              | \$0                      | \$44,858            | 1                | 10                     | 0                | 0               | 0              | 0              | \$0              | \$0                    |
| b) annual   | 10                      | \$0              | \$0                      | \$31,500            | 1                | 10                     | 0                | 0               | 0              | 0              | \$0              | \$0                    |
| Carbon Injection Monitoring System (all sources                                     |                         |                  |                          |                     |                  |                        |                  |                 |                |                |                  |                        |
| that use ACI to control Hg)  a) initial   | 10                      | \$0              | \$0                      | \$115,000           | 1                | 10                     | 0                | 0               | 0              | 0              | \$0              | \$0                    |
| b) annual   | 10                      | \$0              | \$0                      | \$9,700             | 1                | 10                     | 0                | 0               | 0              | 0              | \$0              | \$0                    |
| CO CEMS   | 10                      | 30               | 30                       | 33,700              | -                | 10                     | 0                | ,               | ,              | 0              | .50              | 90                     |
| a) initial  | 10                      | \$0              | \$0                      | \$153,700           | 1                | 10                     | 0                | 0               | 0              | 0              | \$0              | \$0                    |
| b) annual   | 10                      | \$0              | \$0                      | \$42,600            | 1                | 10                     | 0                | 0               | 0              | 0              | \$0              | \$0                    |
| C. Create Information   | NA                      |                  |                          |                     |                  |                        |                  |                 |                |                |                  |                        |
| D. Gather Information   | NA                      |                  |                          |                     |                  |                        |                  |                 |                |                |                  |                        |
| E. Report Preparation   |                         | 60               | 60                       | 60                  |                  | -                      |                  |                 |                |                | 60               | 60                     |
| Initial Notification that Source is Subject     Notification of Compliance Status   | 2 8                     | \$0<br>\$0       | \$0<br>\$0               | \$0<br>\$0          | 1                | 8                      | 0                | 0               | 0              | 0              | \$0<br>\$0       | \$0<br>\$0             |
| Notification of Compliance Status     Initial Report on results of Energy Audit     | 5                       | \$0<br>\$0       | \$0<br>\$0               | \$0<br>\$0          | 1                | 5                      | 0                | 0               | 0              | 0              | \$0<br>\$0       | \$0<br>\$0             |
| Semi-annual Compliance Report   | 20                      | \$0              | \$0<br>\$0               | \$0<br>\$0          | 2                | 40                     | 0                | 0               | 0              | 0              | \$0              | \$0<br>\$0             |
| Subtotal for Reporting Requirements   |                         |                  | 40                       |                     |                  | 70                     |                  | _ ~             | 0              |                | \$0              | \$0                    |
| Recordkeeping Requirements  |                         |                  |                          |                     |                  |                        |                  |                 | _              |                | <u> </u>         |                        |
| A. Familiarization with Regulatory Requirements                                     | Included in 3a          |                  |                          |                     |                  |                        |                  |                 |                |                |                  |                        |
| B. Implement Activities   | NA                      |                  |                          |                     |                  |                        |                  |                 |                |                |                  |                        |
| C. Develop Record System  | NA                      |                  |                          |                     |                  |                        |                  |                 |                |                |                  |                        |
| D. Record Information   | 20                      | ***              | 60                       | 60                  |                  | 20                     |                  |                 |                |                | 60               | 60                     |
| Records of Operating Parameter Values     Records of Startup, Shutdown, Malfunction | 20<br>15                | \$0<br>\$0       | \$0<br>\$0               | \$0<br>\$0          | 1                | 20<br>15               | 0                | 0               | 0              | 0              | \$0<br>\$0       | \$0<br>\$0             |
| Records of Startup, Shutdown, Malfunction     Records of Stack Tests                | 15                      | \$0              | \$0<br>\$0               | \$0<br>\$0          | 1                | 15                     | 0                | 0               | 0              | 0              | \$0              | \$0<br>\$0             |
| Records of Stack Tests     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   | 40                      | \$0              | \$0                      | \$0                 | 1                | 40                     | 0                | 0               | 0              | 0              | \$0              | \$0                    |
| F. Time for Audits  | NA                      |                  |                          |                     |                  |                        |                  |                 |                |                |                  |                        |
| Subtotal for Recordkeeping Requirements   |                         |                  |                          |                     |                  |                        |                  |                 | 0              |                | \$0              | \$0                    |
| Total Labor Burden and Cost (rounded)   |                         |                  |                          |                     |                  |                        |                  |                 | 0              |                | \$0              | **                     |
| Total Capital and O&M Cost (rounded) Grand Total (rounded)                          |                         | ļ                |                          |                     |                  | -                      | -                | <b> </b>        |                | -              |                  | \$0<br>\$0             |
| Granu rotai (rounded)   | l                       |                  |                          |                     |                  |                        |                  |                 | l              |                |                  | 30                     |
|   |                         |                  |                          |                     |                  |                        |                  |                 |                |                |                  |                        |

| Labor Ra   | ates:    |
|------------|----------|
| Management | \$141.06 |
| Technical  | \$120.27 |
| 01 . 1     | 400.00   |

Assumptions:
a This sale shows only the additional burden to sources affected by the proposed amendments. All other new and recurring costs for these types of boilers are shown in the previous ICR Renewal (EPA ICR Number 2028.09, OMB Control Number 2060-0551), Since the EPA is proposing a 3-year compliance timeframe no burden is estimated in year 1 or 2.

This ICR uses the following labor rates: \$141.06 for managerial, \$120.27 for technical, and \$58.67 for clerical labor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, June 2019, "Table 2. Civilian Workers, by occupational and industry group." The rates are from column 1, "Total compensation." The rates have been increased by 110 percent to account for the benefit packages available to those employed by private industry.

| Burden Item  1. Applications   | (A) Respondent Hours per Occurrence (Technical hours) NA | (B)<br>Certified Energy<br>Audit Cost per<br>Occurrence | (C)<br>Stack Testing and<br>Fuel Analysis<br>Cost Per<br>Occurrence | (D)<br>Other Non-Labor<br>Costs Per<br>Occurrence | (E)<br>Number of<br>Occurrences Per<br>Respondent Per<br>Year | (F)<br>Technical Hours<br>per Respondent<br>Per Year<br>(A X E) | (G)<br>Number of<br>Respondents Per<br>Year | (H)<br>Technical Hours<br>per Year<br>(F X G) | (I)<br>Clerical Hours<br>per Year<br>(H X 0.1) | (J)<br>Management<br>Hours per Year<br>(H X .05) | (K)<br>Total Labor<br>Costs Per Year * | (L)<br>Total Non-Labor<br>Costs Per Year<br>[(B+C+D)xExG] |
|--|--|---|---|---|---|---|---|---|--|--|--|---|
| 2. Surveys and Studies   | NA<br>NA   |   |   |   |   |   |   |   |  |  |  |   |
| 3. Reporting Requirements  |  |   |   |   |   |   |   |   |  |  |  |   |
| A. Familiarization with Regulatory Requirements B. Required Activities   | 10   | \$0   | \$0   | \$0   | 1   | 10  | 0   | 0   | 0  | 0  | \$0                                    | \$0   |
| Conduct Energy Audit <sup>b</sup>  |  |   |   |   |   |   |   |   |  |  |  |   |
| a) Commerical  | 20<br>20   | \$854<br>\$18,292                                       | \$0<br>\$0  | \$0<br>\$0  | 1   | 20<br>20  | 0   | 0   | 0  | 0  | \$0<br>\$0                             | \$0<br>\$0  |
| b) Industrial  2) Initial Stack Test and Report (for PM) <sup>b</sup>  | 12   | \$10,292  | \$5,000   | \$0   | 1   | 12  | 0   | 0   | 0  | 0  | \$0                                    | \$0   |
| Initial Stack Test and Report (for FM)       Initial Stack Test and Report (for Hg)                            | 12   | \$0   | \$8,000   | \$0   | 1   | 12  | 0   | 0   | 0  | 0  | \$0                                    | \$0   |
|  | 12   | \$0   | \$8,000   | \$0   | 1   | 12  | 0   | 0   | 0  | 0  | \$0                                    | \$0   |
| 4) Initial Stack Test and Report (for HCl) <sup>b</sup> 5) Initial Stack Test and Report (for CO) <sup>b</sup> | 12   | \$0   | \$7,000   | \$0   | 1   | 12  | 0   | 0   | 0  | 0  | \$0                                    | \$0   |
|  | 12   | \$0   | \$5,000   | \$0   | 1   | 12  | 0   | 0   | 0  | 0  | \$0                                    | \$0<br>\$0  |
| 6) Annual Stack Test and Report (for PM) b   |  |   |   |   |   |   |   |   |  |  |  |   |
| 7) Annual Stack Test and Report (for Hg) b   | 12   | \$0   | \$8,000   | \$0   | 1   | 12  | 0   | 0   | 0  | 0  | \$0                                    | \$0   |
| 8) Annual Stack Test and Report (for HCl) b  | 12   | \$0   | \$8,000   | \$0   | 1   | 12  | 0   | 0   | 0  | 0  | \$0                                    | \$0   |
| 9) Annual Stack Test and Report (for CO) b   | 12   | \$0   | \$7,000   | \$0   | 1   | 12  | 0   | 0   | 0  | 0  | \$0                                    | \$0   |
| Repeat Stack Test and Report if Switch Fuels (for Hg and HCl) <sup>b</sup>                                     | 24   | \$0   | \$16,000  | \$0   | 1   | 24  | 0   | 0   | 0  | 0  | \$0                                    | \$0   |
| 11) Initial Fuel Analysis for Mercury and HCL Content <sup>b</sup>   | 5  | \$0   | \$400   | \$0   | 1   | 5   | 0   | 0   | 0  | 0  | \$0                                    | \$0   |
| 12) Monthly Fuel Analysis for Mercury and HCL<br>Content <sup>b</sup>  | 5  | \$0   | \$400   | \$0   | 12  | 60  | 0   | 0   | 0  | 0  | \$0                                    | \$0   |
| 13) Annual Tune-up b   | 12   | \$0   | \$2,875   | \$0   | 1   | 12  | 0   | 0   | 0  | 0  | \$0                                    | \$0   |
| 14) Continuous Parameter Monitoring Update Site-specific monitoring plan (all) c                               | 40   | \$0   | -   | \$0   | 1   | 40  | 25  | 1,000   | 100  | 50   | \$133,190                              | \$0   |
|  | 40   | 20  |   | 30  | 1   | 40  | 25  | 1,000   | 100  | 50   | \$133,190                              | \$0   |
| Opacity <sup>d</sup> a) initial  | 10   | \$0   | \$0   | \$25,812  | 1   | 10  | 6   | 60  | 6  | 3  | \$7,991                                | \$154,872   |
| b) annual  | 10   | \$0   | \$0   | \$9.855   | 1   | 10  | 6   | 60  | 6  | 3  | \$7,991                                | \$59,130  |
| PM (only sources greater than 250 mmBtu/hr) b  |  |   | 4.0   | 40,000  |   |   | -   |   | -  |  | 4.,002                                 | 440,100   |
| a) initial   | 10   | \$0   | \$0   | \$158,000   | 1   | 10  | 0   | 0   | 0  | 0  | \$0                                    | \$0   |
| b) annual  | 10   | \$0   | \$0   | \$56,100  | 1   | 10  | 0   | 0   | 0  | 0  | \$0                                    | \$0   |
| O2 <sup>b</sup>  |  |   |   |   |   |   |   |   |  |  |  |   |
| a) initial   | 10   | \$0   | \$0   | \$8,523   | 1   | 10  | 0   | 0   | 0  | 0  | \$0                                    | \$0   |
| b) annual  | 10   | \$0   | \$0   | \$1,436   | 1   | 10  | 0   | 0   | 0  | 0  | \$0                                    | \$0   |
| Scrubber System Monitoring and Operation(for units   |  |   |   |   |   |   |   |   |  |  |  |   |
| with wet scrubbers) <sup>d</sup> a) initial  | 10   | \$0   | \$0   | \$25,054  | 1   | 10  | 3   | 30  | 3  | 2  | \$3,996                                | \$75,162  |
| b) annual  | 10   | \$0   | \$0   | \$5,774   | 1   | 10  | 3   | 30  | 3  | 2  | \$3,996                                | \$17,322  |
| Bag Leak Detection System Operation (sources that  |  |   | 4.0   | 40,   |   |   | -   |   |  | _  | 40,000                                 | 911,022   |
| have fabric filters) d   |  |   |   |   |   |   |   |   |  |  |  |   |
| a) initial   | 10   | \$0   | \$0   | \$26,300  | 1   | 10  | 8   | 80  | 8  | 4  | \$10,655                               | \$210,400   |
| b) annual  | 10   | \$0   | \$0   | \$10,000  | 1   | 10  | 8   | 80  | 8  | 4.0  | \$10,655                               | \$80,000  |
| DIFF Monitor d   |  |   |   |   |   |   |   |   |  |  |  |   |
| a) initial<br>b) annual  | 10<br>10   | \$0<br>\$0  | \$0<br>\$0  | \$44,858<br>\$31,500                              | 1 1   | 10<br>10  | 1 1   | 10<br>10                                      | 1  | 0.5  | \$1,332<br>\$1,332                     | \$44,858<br>\$31,500                                      |
| ,  | 10   | 20  | 30  | \$31,500  | 1   | 10  | 1   | 10  | 1  | 0.5  | \$1,332                                | \$31,500  |
| Carbon Injection Monitoring System (all sources that<br>use ACI to control Hg) <sup>b</sup>                    |  |   |   |   |   |   |   |   |  |  |  |   |
| a) initial   | 10   | \$0   | \$0   | \$115,000   | 1   | 10  | 0   | 0   | 0  | 0  | \$0                                    | \$0   |
| b) annual  | 10   | \$0   | \$0   | \$9,700   | 1   | 10  | 0   | 0   | 0  | 0  | \$0                                    | \$0   |
| CO CEMS d, e   |  |   |   |   |   |   |   |   |  |  |  |   |
| a) initial   | 10   | \$0   | \$0   | \$153,700   | 1   | 10  | 8   | 80  | 8  | 4  | \$10,655                               | \$1,229,600   |
| b) annual  | 10<br>NA   | \$0   | \$0   | \$42,600  | 1   | 10  | 8   | 80  | 8  | 4  | \$10,655                               | \$340,800   |
| C. Create Information D. Gather Information  | NA<br>NA   |   |   |   |   |   |   |   |  |  |  |   |
| E. Report Preparation  | in   |   |   |   |   |   |   |   |  |  |  |   |
| Initial Notification that Source is Subject <sup>b</sup>   | 2  | \$0   | \$0   | \$0   | 1   | 2   | 0   | 0   | 0  | 0  | \$0                                    | \$0   |
| Notification of Compliance Status <sup>b</sup>   | 8  | \$0   | \$0   | \$0   | 1   | 8   | 0   | 0   | 0  | 0  | \$0                                    | \$0   |
| Initial Report on results of Energy Audit <sup>b</sup>   | 5  | \$0   | \$0   | \$0   | 1   | 5   | 0   | 0   | 0  | 0  | \$0                                    | \$0   |
| 4) Semi-annual Compliance Report b   | 20   | \$0   | \$0   | \$0   | 2   | 40  | 0   | 0   | 0  | 0  | \$0                                    | \$0   |
| Subtotal for Reporting Requirements  |  | 20  | 1   |   |   |   |   |   | 1,748  |  | \$202,449                              | \$528,752   |
| 4. Recordkeeping Requirements  |  |   |   |   |   |   |   |   |  |  |  |   |
| A. Familiarization with Regulatory Requirements  | Included in 3a   |   |   |   |   |   |   |   |  |  |  |   |
| B. Implement Activities  | NA<br>NA   |   |   |   |   |   |   |   |  |  |  | $\vdash$  |
| C. Develop Record System D. Record Information   | NA   |   |   |   |   |   |   |   |  |  |  |   |
| Record information     Records of Operating Parameter Values <sup>f</sup>                                      | 20   | \$0   | \$0   | \$0   | 1   | 20  | 36  | 720   | 72   | 36   | \$95,897                               | \$0   |
| Records of Operating Parameter Values     Records of Startup, Shutdown, Malfunction b                          | 15   | \$0   | \$0   | \$0   | 1   | 15  | 0   | 0   | 0  | 0  | \$95,697                               | \$0   |
| Records of Startup, Shutdown, Manunction     Records of Stack Tests <sup>b</sup>                               | 2  | \$0   | \$0   | \$0   | 1   | 2   | 0   | 0   | 0  | 0  | \$0                                    | \$0   |
|  | 2  | \$0   |   | \$0   |   | 2   |   |   | 7  | 4  |  |   |
| Records of Monitoring Device Calibrations <sup>f</sup> Records of All Compliance Persons Submitted by          |  |   | \$0   |   | 1   |   | 36  | 72  | 0  |  | \$9,590                                | \$0<br>\$0  |
| 5) Records of All Compliance Reports Submitted b   | 2  | \$0   | \$0   | \$0   | 2   | 4   | 0   | 0   |  | 0  | \$0                                    |   |
| 6) Records of Monthly Fuel Use b   | 0.5  | \$0   | \$0   | \$0   | 12  | 6   | 0   | 0   | 0  | 0  | \$0                                    | \$0   |
| E. Personnel Training <sup>b</sup> F. Time for Audits  | 40<br>NA   | \$0   | \$0   | \$0   | 1   | 40  | 0   | 0   | 0  | 0  | \$0                                    | \$0   |
| Subtotal for Recordkeeping Requirements  | INA  |   |   |   |   |   |   |   | 911  |  | \$105,486                              | \$0   |
| Total Labor Burden and Cost (rounded) 8  |  |   |   |   |   |   |   |   |  |  |  | 50  |
| Total Annualized Capital and O&M Cost (rounded) 8  |  |   | <u> </u>  |   |   |   |   |   | 2,660  |  | \$308,000                              | \$529,000   |
| Grand Total (rounded) 8  |  |   |   |   |   |   |   |   |  |  |  | \$837,000   |
| orana rotal (rounded) -  |  | 1   | L   | l   | l   | 1   | l   |   |  |  | l                                      | \$657,000   |

| T -1       | D              |
|------------|----------------|
| Management | Rates: \$141.0 |
| Technical  | \$120.2        |
| Clerical   | \$58.6         |

- Assumptions.
  a This cost is based on the following labor rates: \$141.06 for managerial, \$120.27 for technical, and \$58.67 for clerical labor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, June 2019, "Table 2. Civilian Workers, by occupational and industry jp/flips" [Industrians-and/changed/buypko/pioed\_annephmentional/ Blacotecinian/bearing/periodis/specific plants. The properties of the properties
- c Based on compliance data, we estimate that 25 facilities with existing solid fuel units will be impacted by the proposal and may be required to modify monitoring plans. This burden was assigned to year 3 of the compliance period given that sources have 3 years to demonstrate compliance
- d Based on compliance data, we estimate that 26 additional monitors to be installed, operated, calibrated, and maintained at existing large solid fuel units as a result of additional controls installed to meet the revised emission limits. This includes 6 opacity monitors, 1 monitor for the dry injection rate and bug leak detection (DIFF), 8 bag leak detection monitors, 3 wet scrubber monitors, 6 CO CEMS monitors. The initial costs (capital costs of equipment) and annual costs (annualized capital cost + annual O&M costs) for each monitor are consistent with the costs updated in the impacts analysis for the proposed amendments.
- e As as a results of some of the CO emission limit changes, EPA anticipates 8 sources will opt to comply with the CO CEMS-based emission limit instead of the stack test limit and as a result these units will need to intall and operate CO CEMS. The ICR renewals have assumed that units would comply with stack test CO limits to date since they have the option of either. This was not previously costed out.
- f We estimate that 36 existing large solid fuel units will have to change the records associated with operating parameter values. This includes the 26 units that install new monitors as well as 10 additional units that may need to make minor changes to the record system to reflect the new emission limits.
- g Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

Table 4: Annual Respondent Burden and Cost for New Large Solid Fuel Units - NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR Part 63, Subpart DDDDD) (Amendments)

| Respondent House per   Per Cecuriant House per   Per Vecar   Per V | (L) (L) (Total Non-Labor Costs Per Year (B+C+D)xExG)  \$0  \$0  \$0  \$0  \$0  \$0  \$0  \$0  \$0  \$ |
|--|---|
| House per   Certified   Cocurrence   Cocur | Total Non-Labor   |
| Description    | Total Non-Labor   |
| Content   Cont | \$0  \$0  \$0  \$0  \$0  \$0  \$0  \$0  \$0  \$0  |
| Burden Item   Dours   Decurrence   Per Occurrence   Per Occurrence   Per Vear   (A X E)   Per Vear   (F X C)   (H X 0.1)   (H X 0.5)   S   | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$  |
| 2. Surveys and Studies   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$         |
| R. Reporting Requirements   10   S0   S0   S0   1   10   3   30   3   2   \$33,996   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$         |
| A. Familiarization with Regulatory. Requirements   10   S0   S0   S0   S0   S0   S0   S0   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$         |
| B. Required Activities  1) Initial Stack Test and Report (for PM)  12  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$         |
| B. Required Activities  1) Initial Stack Test and Report (for PM)  12  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$         |
| 1   Initial Stack Test and Report (for PM)   12   S0   \$5,000   \$0   1   12   0   0   0   0   0   50   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$         |
| 2   Initial Stack Fest and Report (for Hg)   12   S0   S8,000   S0   1   12   0   0   0   0   0   S0   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$         |
| 3) Initial Stack Test and Report (for HCl)   12   S0   S8,000   S0   1   12   0   0   0   0   S0   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$         |
| 4) Initial Stack Test and Report (for CO)   12   50   57,000   S0   1   12   0   0   0   0   0   50  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$         |
| 6) Annual Stack Test and Report (for Hg)   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$         |
| 7) Annual Stack Test and Report (for HCI) 12   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$         |
| 8) Annual Stack Test and Report (for CO)   12   \$0   \$7,000   \$0   1   12   0   0   0   0   \$0   \$0   \$9   Repeat Stack Test and Report if Switch Fuels (for Hig and HCI)   24   \$0   0   0   0   0   \$0   \$0   \$1   \$1   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$         |
| 9) Repeat Stack Test and Report if Switch Fuels (for Hg and HCl)   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$         |
| (for Hg and HCI)   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$         |
| 10  Initial Fuel Analysis for Mercury and HCL Content  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$         |
| Content  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$         |
| 11) Monthly Fuel Analysis for Mercury and HCL Content  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$         |
| HCL Content 5 50 \$400 \$0 12 60 0 0 0 0 \$0 \$50 \$12 12 \$0 \$0 \$2,875 \$0 1 12 0 0 0 0 0 \$0 \$0 \$0 \$13 Continuous Parameter Monitoring Update Site-specific monitoring plan (all) 40 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0   |
| HCL Content 5 50 \$400 \$0 12 60 0 0 0 0 \$0 \$0 \$12 12 \$0 0 0 0 0 0 \$0 \$0 \$0 \$12 12 \$0 \$0 \$2,875 \$0 1 12 0 0 0 0 0 0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0   |
| 13) Continuous Parameter Monitoring  | \$0<br>\$0<br>\$0<br>\$0<br>\$0   |
| Update Site-specific monitoring plan (all)   | \$0<br>\$0<br>\$0<br>\$0<br>\$0   |
| Opacity  | \$0<br>\$0<br>\$0<br>\$0<br>\$0   |
| a) initial 10 50 50 50 \$25,812 1 10 0 0 0 0 0 50 50 50 50 50 50 50 50 50 5  | \$0<br>\$0<br>\$0   |
| b) annual 10 \$0 \$0 \$9,855 1 10 0 0 0 0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0  | \$0<br>\$0<br>\$0   |
| PM (only sources greater than 250 mmBtu/hr)  | \$0<br>\$0<br>\$0   |
| a) initial   10   S0   S0   S158,000   1   10   0   0   0   0   0   S0   | \$0<br>\$0  |
| b) annual 10 \$0 \$0 \$55,774 1 10 0 0 0 0 0 \$0  S0 \$0 \$55,774 1 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   | \$0<br>\$0  |
| O2   | \$0   |
| a) initial   10   50   S0   \$8,523   1   10   0   0   0   0   0   50  |   |
| b) annual   10   \$0   \$0   \$1,436   1   10   0   0   0   0   0   \$0   \$0  |   |
| Scrubber System Monitoring and Operation (for units with wet scrubbers)   a   initial   10   50   50   \$25,054   1   10   0   0   0   0   0   50     b   annual   10   \$0   \$0   \$0   \$5,774   1   10   0   0   0   0   \$0     Bag Leak Detection System Operation (sources that have fabric filters)  |   |
| (for units with wet scrubbers)  a) initial 10 \$0 \$0 \$0 \$25,054 1 10 0 0 0 0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0  | \$0   |
| a) initial 10 \$0 \$0 \$25,054 1 10 0 0 0 0 0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$   |   |
| b) annual 10 \$0 \$0 \$5,774 1 10 0 0 0 0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0  | ***   |
| Bag Leak Detection System Operation (sources that have fabric filters)   | \$0   |
| (sources that have fabric filters)   | \$0   |
|  |   |
| a) initial 10 \$0 \$0 \$26,300 1 10 0 0 0 \$0 \$0  | \$0   |
| a) minual 10 50 50 50,000 1 10 0 0 0 0 50 50 50,000 1 10 0 0 0 0 50  | \$0   |
| 0) almular 10 30 30 310,000 1 10 0 0 0 0 30 30 30 30 30 30 30 30 30 30   | 30  |
| a) initial 10 \$0 \$0 \$44,858 1 10 0 0 0 \$0 \$0  | \$0   |
| b) annual 10 \$0 \$0 \$31,500 1 10 0 0 0 0 \$0 \$0   | \$0   |
| Carbon Injection Monitoring System (all  | 4.0   |
| sources that use ACI to control Hg)  |   |
| a) initial 10 \$0 \$0 \$115,000 1 10 0 0 0 \$0   | \$0   |
| b) annual 10 \$0 \$0 \$9,700 1 10 0 0 0 \$0 \$0  | \$0   |
| CO CEMS  |   |
| a) initial 10 \$0 \$0 \$153,700 1 10 0 0 0 \$0 \$0   | \$0   |
| b) annual 10 \$0 \$0 \$42,600 1 10 0 0 0 \$0   | \$0   |
| C. Create Information NA   |   |
| D. Gather Information NA NA  |   |
| E. Report Preparation  |   |
| 1) Initial Notification that Source is Subject 2 \$0 \$0 \$0 1 2 0 0 0 0 \$0   | \$0   |
| 2) Notification of Compliance Status 8 \$0 \$0 \$0 1 8 0 0 0 0 \$0   | \$0   |
| 3) Semi-annual Compliance Report 20 \$0 \$0 \$0 2 40 0 0 0 \$0 \$0   | \$0   |
| Subtotal for Reporting Requirements 35 \$3,996   | \$0   |
| 4. Recordkeeping Requirements  |   |
| A. Familiarization with Regulatory Requirements Included in 3a   |   |
| B. Implement Activities NA .   |   |
| C. Develop Record System NA  |   |
| D. Record Information  | \$0   |
| 1) Records of Departup, Shutdown, Malfunction 15 \$0 \$0 \$0 1 15 0 0 0 0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$   | \$0   |
| 2) Records of Stack Tests 2 \$0 \$0 \$0 1 2 0 0 0 0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$   | \$0   |
| S) RECURS OF STARK TESTS 2 30 30 30 1 2 0 0 0 0 0 30 30 4 Recurs of Stark Tests 2 30 50 50 50 1 2 0 0 0 0 0 50 50 50 50 50 50 50 50 50 50  | \$0   |
| 7) 100000 100000000000000000000000000000   | 90  |
| 5) Records of All Compliance Reports Submitted 2 \$0 \$0 \$0 \$0 2 4 0 0 0 0 \$0   | \$0   |
| 5) Records of Monthly Fuel Use 0.5 \$0 \$0 \$0 12 6 0 0 0 \$0 \$0  | \$0   |
| E. Personnel Training 40 \$0 \$0 \$0 1 40 0 0 0 50 \$0   | \$0   |
| F. Time for Audits NA  | -   |
| Subtotal for Recordkeeping Requirements 0 50   | \$0   |
|  |   |
|  |   |
| Total Capital and O&M Cost (rounded) <sup>4</sup>  |   |
| Grand Total (rounded) d  | \$0<br>\$4,000  |

| Labor Ra   | tes:    |
|------------|---------|
| Management | \$141.0 |
| Technical  | \$120.2 |
| 61         | 400     |

Assumptions:
a This table shows only the additional burden to sources affected by the proposed amendments. All other new and recurring costs for these types of boilers are shown in the previous ICR Renewal (EPA ICR Number 2028.09, OMB Control Number 2060-0551). Since the EPA is proposing a 3-year compliance timeframe no burden is estimated in year 1 or 2.
b This ICR uses the following labor rates: \$141.06 for managerial, \$120.27 for technical, and \$58.67 for clerical labor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, June 2019, "Table 2. Civilian Workers, by occupational and industry group." The rates are from column 1, "Total compensation." The rates have been increased by 110 percent to account for the benefit packages available to those employed by private industry.
c We assume that respondents impacted by the proposal will familiarize themselves with the rule in year one and implement the rule in year three. Based on compliance data, we estimate that 3 facilities with new solid fuel units will be impacted by the proposal.
d Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding

d Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

Table 5: Annual Respondent Burden and Cost for New Large Solid Fuel Units – NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR Part 63, Subpart DDDDD) (Amendments)

|   | (A) Respondent Hours per Occurrence (Technical | (B)<br>Certified<br>Energy Audit<br>Cost per | (C)<br>Stack Testing<br>and Fuel<br>Analysis Cost | (D)<br>Other Non-<br>Labor Costs | (E)<br>Number of<br>Occurrences<br>Per<br>Respondent | (F)<br>Technical<br>Hours per<br>Respondent<br>Per Year | (G)<br>Number of<br>Respondents | (H)<br>Technical<br>Hours per Year | (I)<br>Clerical Hours<br>per Year | Hours per Year | (K)<br>Total Labor<br>Costs Per Year | (L) Total Non-Labor Costs Per Year |
|---|--|--|---|----------------------------------|--|---|---------------------------------|------------------------------------|-----------------------------------|----------------|--------------------------------------|------------------------------------|
| Burden Item 1. Applications   | hours)<br>NA                                   | Оссипенсе                                    | Per Occurrence                                    | Per Occurrence                   | Per Year   | (A X E)   | Per Year a                      | (F X G)                            | (H X 0.1)                         | (H X .05)      | ь                                    | [(B+C+D)xExG]                      |
| 2. Surveys and Studies  | NA<br>NA                                       |  |   |                                  |  |   |                                 |                                    |                                   |                |                                      |                                    |
| 3. Reporting Requirements   |  |  |   |                                  |  |   |                                 |                                    |                                   |                |                                      |                                    |
| A. Familiarization with Regulatory  |  |  |   |                                  |  |   |                                 |                                    |                                   |                |                                      |                                    |
| Requirements  | 10   | \$0  | \$0   | \$0                              | 1  | 10  | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| B. Required Activities 1) Initial Stack Test and Report (for PM)                        | 12   | \$0  | \$5,000   | \$0                              | 1  | 12  | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| Initial Stack Test and Report (for Hg)  2) Initial Stack Test and Report (for Hg)       | 12   | \$0  | \$8,000   | \$0                              | 1  | 12  | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| Initial Stack Test and Report (for HCl)   | 12   | \$0  | \$8,000   | \$0                              | 1  | 12  | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| 4) Initial Stack Test and Report (for CO)   | 12   | \$0  | \$7,000   | \$0                              | 1  | 12  | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| 5) Annual Stack Test and Report (for PM)  | 12   | \$0  | \$5,000   | \$0                              | 1  | 12  | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| 6) Annual Stack Test and Report (for Hg)  | 12   | \$0  | \$8,000   | \$0                              | 1  | 12  | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| 7) Annual Stack Test and Report (for HCl)  8) Annual Stack Test and Report (for CO)     | 12<br>12                                       | \$0<br>\$0                                   | \$8,000<br>\$7,000                                | \$0<br>\$0                       | 1  | 12<br>12  | 0                               | 0                                  | 0                                 | 0              | \$0<br>\$0                           | \$0<br>\$0                         |
| Repeat Stack Test and Report (for CO)   | 12   | 30   | \$7,000   | \$0                              | 1  | 12  | 0                               | 0                                  | 0                                 | 0              | 30                                   | \$0                                |
| Fuels (for Hg and HCl)  | 24   | \$0  | \$16,000  | \$0                              | 1  | 24  | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| 10) Initial Fuel Analysis for Mercury and<br>HCL Content                                | 5  | \$0  | \$400   | \$0                              | 1  | 5   | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| 11) Monthly Fuel Analysis for Mercury and   |  |  |   |                                  |  |   |                                 |                                    |                                   |                |                                      |                                    |
| HCL Content   | 5  | \$0  | \$400   | \$0                              | 12   | 60  | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| 12) Annual Tune-up 13) Continuous Parameter Monitoring                                  | 12   | \$0  | \$2,875   | \$0                              | 1  | 12  | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| (all)   | 40   | \$0  |   | \$0                              | 1  | 40  | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| Opacity   |  | 40   |   | Ψ0                               | *  | -10   |                                 |                                    |                                   |                | 30                                   |                                    |
| a) initial  | 10   | \$0  | \$0   | \$25,812                         | 1  | 10  | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| b) annual   | 10   | \$0  | \$0   | \$9,855                          | 1  | 10  | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| PM (only sources greater than 250   |  |  |   |                                  |  |   |                                 |                                    |                                   |                |                                      |                                    |
| mmBtu/hr) a) initial  | 10   | \$0  | \$0   | \$158,000                        | 1  | 10  | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| b) annual   | 10   | \$0  | \$0   | \$56,100                         | 1  | 10  | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| O2  |  |  |   | ,                                |  |   |                                 |                                    |                                   |                |                                      |                                    |
| a) initial  | 10   | \$0  | \$0   | \$8,523                          | 1  | 10  | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| b) annual   | 10   | \$0  | \$0   | \$1,436                          | 1  | 10  | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| Scrubber System Monitoring and  |  |  |   |                                  |  |   |                                 |                                    |                                   |                |                                      |                                    |
| Operation (for units with wet scrubbers)  a) initial                                    | 10   | \$0  | \$0   | \$25,054                         | 1  | 10  | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| b) annual   | 10   | \$0  | \$0   | \$5,774                          | 1  | 10  | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| Bag Leak Detection System Operation   |  |  |   | 40,111                           |  |   |                                 |                                    | -                                 | -              |                                      |                                    |
| (sources that have fabric filters)  |  |  |   |                                  |  |   |                                 |                                    |                                   |                |                                      |                                    |
| a) initial  | 10   | \$0  | \$0   | \$26,300                         | 1  | 10  | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| b) annual   | 10   | \$0  | \$0   | \$10,000                         | 1  | 10  | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| DIFF Monitor a) initial   | 10   | \$0  | \$0   | \$44,858                         | 1  | 10  | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| b) annual   | 10   | \$0  | \$0   | \$31,500                         | 1  | 10  | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| Carbon Injection Monitoring System (all   | 10   | 40   | 40  | 451,500                          | -  | 10  |                                 | Ů                                  |                                   |                | 40                                   | \$0                                |
| sources that use ACI to control Hg)   |  |  |   |                                  |  |   |                                 |                                    |                                   |                |                                      |                                    |
| a) initial  | 10   | \$0  | \$0   | \$115,000                        | 1  | 10  | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| b) annual   | 10   | \$0  | \$0   | \$9,700                          | 1  | 10  | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| CO CEMS   | 10   | \$0  | \$0   | \$153,700                        | 1  | 10  | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| a) initial<br>b) annual   | 10   | \$0  | \$0   | \$42,600                         | 1  | 10  | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| C. Create Information   | NA   |  |   | 4.2,000                          |  |   |                                 |                                    |                                   |                |                                      |                                    |
| D. Gather Information   | NA   |  |   |                                  |  |   |                                 |                                    |                                   |                |                                      |                                    |
| E. Report Preparation   |  |  | φ-  |                                  |  | _   |                                 |                                    |                                   |                | -                                    |                                    |
| 1) Initial Notification that Source is Subject     2) Notification of Compliance Status | 2<br>8   | \$0<br>\$0                                   | \$0<br>\$0  | \$0<br>\$0                       | 1  | 2<br>8  | 0                               | 0                                  | 0                                 | 0              | \$0<br>\$0                           | \$0<br>\$0                         |
| Semi-annual Compliance Report   | 20   | \$0  | \$0   | \$0                              | 2  | 40  | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| Subtotal for Reporting Requirements   |  |  |   |                                  | -  | .0  |                                 |                                    | 0                                 |                | \$0                                  | \$0                                |
| Recordkeeping Requirements  |  |  |   |                                  |  |   |                                 |                                    |                                   |                |                                      |                                    |
| A. Familiarization with Regulatory  |  |  |   |                                  |  |   |                                 |                                    |                                   |                |                                      |                                    |
| Requirements  | Included in 3a                                 |  |   |                                  |  |   |                                 |                                    |                                   |                |                                      |                                    |
| B. Implement Activities C. Develop Record System  | NA<br>NA                                       |  |   |                                  |  |   |                                 |                                    |                                   |                |                                      |                                    |
| D. Record Information   |  |  |   |                                  |  |   |                                 |                                    |                                   |                |                                      |                                    |
| Records of Operating Parameter Values   | 20   | \$0  | \$0   | \$0                              | 1  | 20  | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| 2) Records of Startup, Shutdown,  |  |  |   |                                  |  |   |                                 |                                    |                                   |                |                                      |                                    |
| Malfunction 3) Records of Stack Tests   | 15<br>2  | \$0<br>\$0                                   | \$0   | \$0<br>\$0                       | 1  | 15<br>2   | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0<br>\$0                         |
| Records of Stack Tests     Records of Monitoring Device                                 | 2  | 20   | \$0   | 20                               | 1  | 2   | 0                               | U                                  | U                                 | U              | \$0                                  | 20                                 |
| Calibrations  | 2  | \$0  | \$0   | \$0                              | 1  | 2   | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| 5) Records of All Compliance Reports<br>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   | 40   | \$0  | \$0   | \$0                              | 1  | 40  | 0                               | 0                                  | 0                                 | 0              | \$0                                  | \$0                                |
| F. Time for Audits  | NA   |  |   |                                  |  |   |                                 |                                    |                                   |                |                                      |                                    |
| Subtotal for Recordkeeping Requirements   |  |  |   |                                  |  |   |                                 |                                    | 0                                 |                | \$0                                  | \$0                                |
| Total Labor Burden and Cost (rounded) Total Capital and O&M Cost (rounded)              |  |  |   |                                  |  |   |                                 |                                    | 0                                 |                | \$0                                  | \$0                                |
| Grand Total (rounded)   |  |  |   |                                  |  |   |                                 |                                    |                                   |                |                                      | \$0<br>\$0                         |
|   |  | L  |   |                                  |  |   |                                 |                                    |                                   |                |                                      | Ψ.                                 |

| Labor R    | ates:   |
|------------|---------|
| Management | \$141.0 |
| Technical  | \$120.2 |
| Clerical   | \$58.6  |

Assumptions:
a This table shows only the additional burden to sources affected by the proposed amendments. All other new and recurring costs for these types of boilers are shown in the previous ICR Renewal (EPA ICR Number 2028.09, OMB Control burden 100 States Department of Labor, Bureau of Labor, Bureau of Labor Statistics, June 2019, "Table 2. Civilian Workers, by occupational and industry group." The rates are from column 1, "Total compensation." The rates have been increased by 110 percent to account for the benefit packages available to those employed by private industry.

Table 6: Annual Respondent Burden and Cost for New Large Solid Fuel Units – NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR Part 63, Subpart DDDDD) (Amendments)

| Burden Item  1. Applications   | (A) Respondent Hours per Occurrence (Technical hours) NA | (B)<br>Certified Energy<br>Audit Cost per<br>Occurrence | (C)<br>Stack Testing<br>and Fuel<br>Analysis Cost<br>Per Occurrence | (D)<br>Other Non-<br>Labor Costs Per<br>Occurrence | (E)<br>Number of<br>Occurrences Per<br>Respondent Per<br>Year | (F)<br>Technical Hours<br>per Respondent<br>Per Year<br>(A X E) | (G)<br>Number of<br>Respondents Per<br>Year | (H)<br>Technical Hours<br>per Year<br>(F X G) | (I)<br>Clerical Hours<br>per Year<br>(H X 0.1) | (J)<br>Management<br>Hours per Year<br>(H X .05) | (K)<br>Total Labor<br>Costs Per Year <sup>a</sup> | (L)<br>Total Non-<br>Labor Costs Per<br>Year<br>[(B+C+D)xExG |
|--|--|---|---|--|---|---|---|---|--|--|---|--|
| 2. Surveys and Studies   | NA   |   |   |  |   |   |   |   |  |  |   |  |
| 3. Reporting Requirements  |  |   |   |  |   |   |   |   |  |  |   |  |
| A. Familiarization with Regulatory Requirements  | 10   | \$0   | \$0   | \$0  | 1   | 10  | 0   | 0   | 0  | 0  | \$0   | \$0  |
| B. Required Activities   |  |   |   |  |   |   |   |   |  |  |   |  |
| <ol> <li>Initial Stack Test and Report (for PM) <sup>b</sup></li> </ol>                  | 12   | \$0   | \$5,000   | \$0  | 1   | 12  | 0   | 0   | 0  | 0  | \$0   | \$0  |
| Initial Stack Test and Report (for Hg) <sup>b</sup>                                      | 12   | \$0   | \$8,000   | \$0  | 1   | 12  | 0   | 0   | 0  | 0  | \$0   | \$0  |
| 3) Initial Stack Test and Report (for HCl) b   | 12   | \$0   | \$8,000   | \$0  | 1   | 12  | 0   | 0   | 0  | 0  | \$0   | \$0  |
| 4) Initial Stack Test and Report (for CO) b  | 12   | \$0   | \$7,000   | \$0  | 1   | 12  | 0   | 0   | 0  | 0  | \$0   | \$0  |
| 5) Annual Stack Test and Report (for PM) b  6) Annual Stack Test and Report (for Hg) b   | 12<br>12   | \$0   | \$5,000   | \$0  | 1   | 12  | 0   | 0   | 0  | 0  | \$0<br>\$0  | \$0<br>\$0   |
| 7) Annual Stack Test and Report (for HCl) b  7) Annual Stack Test and Report (for HCl) b | 12   | \$0<br>\$0  | \$8,000<br>\$8,000  | \$0<br>\$0   | 1 1   | 12<br>12  | 0   | 0   | 0  | 0  | \$0   | \$0  |
| 8) Annual Stack Test and Report (for CO) b   | 12   | \$0   | \$7,000   | \$0  | 1   | 12  | 0   | 0   | 0  | 0  | \$0   | \$0  |
| Repeat Stack Test and Report if Switch Fuels   |  |   |   |  |   |   |   |   |  |  |   |  |
| (for Hg and HCl) b   | 24   | \$0   | \$16,000  | \$0  | 1   | 24  | 0   | 0   | 0  | 0  | \$0   | \$0  |
| 10) Initial Fuel Analysis for Mercury and HCL<br>Content <sup>b</sup>                    | 5  | \$0   | \$400   | \$0  | 1   | 5   | 0   | 0   | 0  | 0  | \$0   | \$0  |
| 11) Monthly Fuel Analysis for Mercury and HCL<br>Content <sup>b</sup>                    | 5  | \$0   | \$400   | \$0  | 12  | 60  | 0   | 0   | 0  | 0  | \$0   | \$0  |
| 12) Annual Tune-up <sup>b</sup>  | 12   | \$0   | \$2,875   | \$0  | 1   | 12  | 0   | 0   | 0  | 0  | \$0   | \$0  |
| 13) Continuous Parameter Monitoring  |  |   |   |  |   |   |   |   |  |  |   |  |
| Update Site-specific monitoring plan (all) c   | 40   | \$0   |   | \$0  | 1   | 40  | 3   | 120   | 12   | 6  | \$15,983  | \$0  |
| Opacity <sup>b</sup>   |  |   |   |  |   |   |   |   |  |  |   |  |
| a) initial   | 10<br>10   | \$0<br>\$0  | \$0<br>\$0  | \$25,812<br>\$9,855                                | 1   | 10<br>10  | 0   | 0   | 0  | 0  | \$0<br>\$0  | \$0<br>\$0   |
| b) annual  | 10   | 30  | \$0   | \$9,000  | 1   | 10  | U   | U   | 0  | U  | 30  | 30   |
| PM (only sources greater than 250 mmBtu/hr)  |  |   |   |  |   |   |   |   |  |  |   |  |
| a) initial   | 10   | \$0   | \$0   | \$158,000  | 1   | 10  | 0   | 0   | 0  | 0  | \$0   | \$0  |
| b) annual  | 10   | \$0   | \$0   | \$56,100   | 1   | 10  | 0   | 0   | 0  | 0  | \$0   | \$0  |
| O2 b   |  |   |   |  |   |   |   |   |  |  |   |  |
| a) initial<br>b) annual  | 10<br>10   | \$0<br>\$0  | \$0<br>\$0  | \$8,523<br>\$1,436                                 | 1   | 10<br>10  | 0   | 0   | 0  | 0  | \$0<br>\$0  | \$0<br>\$0   |
| · · · · · · · · · · · · · · · · · · ·  | 10   | \$0   | \$0   | \$1,436  | 1   | 10  | U   | U   | 0  | U  | \$0   | \$0  |
| Scrubber System Monitoring and Operation<br>(for units with wet scrubbers) d             |  |   |   |  |   |   |   |   |  |  |   |  |
| a) initial   | 10   | \$0   | \$0   | \$25,054   | 1   | 10  | 2   | 20  | 2  | 1  | \$2,664   | \$50,108   |
| b) annual  | 10   | \$0   | \$0   | \$5,774  | 1   | 10  | 2   | 20  | 2  | 1  | \$2,664   | \$11,548   |
| Bag Leak Detection System Operation (sources<br>that have fabric filters) <sup>b</sup>   |  |   |   |  |   |   |   |   |  |  |   |  |
| a) initial   | 10   | \$0   | \$0   | \$26,300   | 1   | 10  | 0   | 0   | 0  | 0  | \$0   | \$0  |
| b) annual  | 10   | \$0   | \$0   | \$10,000   | 1   | 10  | 0   | 0   | 0  | 0  | \$0   | \$0  |
| DIFF Monitor <sup>b</sup> a) initial   | 10   | \$0   | \$0   | \$44,858   | 1   | 10  | 0   | 0   | 0  | 0  | \$0   | \$0  |
| b) annual  | 10   | \$0   | \$0   | \$31,500   | 1   | 10  | 0   | 0   | 0  | 0  | \$0   | \$0  |
| Carbon Injection Monitoring System (all  |  |   |   | 402,000  |   |   | ,   | -   |  |  |   |  |
| sources that use ACI to control Hg) b  |  |   |   |  |   |   |   |   |  |  |   |  |
| a) initial   | 10   | \$0   | \$0   | \$115,000  | 1   | 10  | 0   | 0   | 0  | 0  | \$0   | \$0  |
| b) annual  | 10   | \$0   | \$0   | \$9,700  | 1   | 10  | 0   | 0   | 0  | 0  | \$0   | \$0  |
| CO CEMS <sup>b</sup> a) initial  | 10   | \$0   | \$0   | \$153,700  | 1   | 10  | 0   | 0   | 0  | 0  | \$0   | \$0  |
| b) annual  | 10   | \$0   | \$0   | \$42,600   | 1   | 10  | 0   | 0   | 0  | 0  | \$0   | \$0  |
| C. Create Information  | NA   |   |   |  |   |   |   |   |  |  |   |  |
| D. Gather Information  | NA   |   |   |  |   |   |   |   |  |  |   |  |
| E. Report Preparation  |  |   |   |  |   |   |   |   |  |  |   |  |
| Initial Notification that Source is Subject b  | 2  | \$0   | \$0   | \$0  | 1   | 2   | 0   | 0   | 0  | 0  | \$0   | \$0  |
| 2) Notification of Compliance Status <sup>b</sup>  | 8  | \$0   | \$0   | \$0  | 1   | 8   | 0   | 0   | 0  | 0  | \$0   | \$0  |
| 3) Semi-annual Compliance Report b   | 20   | \$0   | \$0   | \$0  | 2   | 40  | 0   | 0   | 0  | 0  | \$0   | \$0  |
| Subtotal for Reporting Requirements 4. Recordkeeping Requirements                        |  |   |   |  |   |   |   |   | 184  |  | \$21,310  | \$11,548   |
| A. Familiarization with Regulatory Requirements  | 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  | 3   | 60  | 6  | 3  | \$7,991   | \$0  |
| Records of Operating Parameter Values      Records of Startup, Shutdown, Malfunction     | 15   | \$0   | \$0   | \$0  | 1   | 15  | 0   | 0   | 0  | 0  | \$7,991   | \$0  |
| Records of Startup, Snutdown, Mairunction      Records of Stack Tests                    | 2  | \$0   | \$0   | \$0  | 1   | 2   | 0   | 0   | 0  | 0  | \$0   | \$0  |
| Records of Stack Tests     Records of Monitoring Device Calibrations                     | 2  | \$0   | \$0   | \$0  | 1   | 2   | 3   | 6   | 0.6  | 0.3  | \$799   | \$0  |
| 7) Records of Worldoring Device Calibrations   |  | <b>3</b> U  | . DU  | ΦU   | 1   |   | 3   | Ö   | 0.0  | 0.3  | \$/99   | 20   |
| 5) Records of All Compliance Reports Submitted b   | 2  | \$0   | \$0   | \$0  | 2   | 4   | 0   | 0   | 0  | 0  | \$0   | \$0  |
| 6) Records of Monthly Fuel Use b   | 0.5  | \$0   | \$0   | \$0  | 12  | 6   | 0   | 0   | 0  | 0  | \$0   | \$0  |
| E. Personnel Training <sup>b</sup>   | 40   | \$0   | \$0   | \$0  | 1   | 40  | 0   | 0   | 0  | 0  | \$0   | \$0  |
| F. Time for Audits   | NA   |   |   |  |   |   |   |   |  |  |   |  |
| Subtotal for Recordkeeping Requirements  |  |   |   |  |   |   |   |   | 76   |  | \$8,791   | \$0  |
| Total Labor Burden and Cost (rounded) <sup>f</sup>                                       |  |   |   |  |   |   |   |   | 260  |  | \$30,100  | $\Box$   |
| Total Capital and O&M Cost (rounded) <sup>f</sup>  |  |   |   |  |   |   |   |   |  |  |   | \$11,500   |
| Grand Total (rounded) <sup>f</sup>   |  |   |   |  |   |   |   |   |  | 1  |   | \$41,600   |

| Labor R    | ates:    |
|------------|----------|
| Management | \$141.06 |
| Technical  | \$120.27 |
| Clerical   | \$58,67  |

\$188,827.20 \$540,000.00 \$728,827.20

- a This cost is based on the following labor rates: \$141.06 for managerial, \$120.27 for technical, and \$58.67 for clerical labor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, June 2019, "Table 2. Civilian Workers, by occupational and industry group." The rates are from column 1, "Total compensation." The rates have been increased by 110 percent to account for the benefit packages available to those employed by private industry.
- b This line item is not changed by proposed amendments and is accounted for in the previous ICR Renewal (EPA ICR Number 2028.09, OMB Control Number 2060-0551).
- c Based on compliance data, we estimate that 3 facilities with new solid fuel units will be impacted by the proposal and may be required to modify monitoring plans. This burden was assigned to year 3 of the compliance period given that sources have 3 years to demonstrate compliance.

  d Based on compliance data, we estimate that 2 additional wet scrubber monitors to be installed, operated, calibrated, and maintained at new large solid fuel units as a result of additional controls installed to meet the revised emission limits. The initial costs (capital costs of equipment) and annual costs (annualized capital cost + annual O&M costs) for each monitor are consistent with the costs updated in the impacts analysis for the proposed amendments.
- e We estimate that 3 existing large solid fuel units will have to change the records associated with operating parameter values. This includes the 2 units that install new monitors as well as an additional unit that may need to make minor changes to the record system to reflect the new emission limits.

  f Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

Table 7: Summary of Annual Respondent Burden and Cost – NESHAP for Industrial, Com Institutional Boilers and Process Heaters (40 CFR Part 63, Subpart DDDDD) (Amendments

| Boiler Type &<br>Year           | Technical Hours | Clerical Hours | Management<br>Hours | Total Labor<br>Hours | Labor Costs |
|---------------------------------|-----------------|----------------|---------------------|----------------------|-------------|
| Existing Large Solid Fuel Units |                 |                |                     |                      |             |
| Year 1                          | 250             | 25             | 13                  | 288                  | \$33,298    |
| Year 2                          | 0               | 0              | 0                   | 0                    | \$0         |
| Year 3                          | 2,312           | 231            | 116                 | 2,659                | \$307,935   |
| New Large Solid Fuel Units      |                 |                |                     |                      |             |
| Year 1                          | 30              | 3              | 2                   | 35                   | \$4,000     |
| Year 2                          | 0               | 0              | 0                   | 0                    | \$0         |
| Year 3                          | 226             | 23             | 11                  | 260                  | \$30,100    |
| Total                           | 2,818           | 282            | 141                 | 3,241                | \$375,000   |
| Average                         | 939             | 94             | 47                  | 1,080                | 125,000     |
|                                 |                 |                |                     |                      |             |

| Number of<br>Respondents | Number of<br>Responses       | Reporting Hours   |  | Total Hours  |
|--------------------------|------------------------------|---|--|--|
|                          |                              |   |  |  |
| 0                        | 0                            | 288   | 0  | 288  |
| 0                        | 0                            | 0   | 0  | 0  |
| 25                       | 51                           | 1,748   | 911  | 2,659  |
|                          |                              |   |  |  |
| 0                        | 0                            | 35  | 0  | 35   |
| 0                        | 0                            | 0   | 0  | 0  |
| 3                        | 5                            | 184   | 76   | 260  |
| 28                       | 56                           | 2,254   | 987  | 3,241  |
| 9                        | 19                           | 751   | 329  | 1,080  |
|                          | Respondents  0 0 25 0 0 3 28 | Respondents         Responses           0         0           0         0           25         51           0         0           0         0           0         0           3         5           28         56 | Respondents         Responses         Reporting Hours           0         0         288           0         0         0           25         51         1,748           0         0         35           0         0         0           3         5         184           28         56         2,254 | Respondents         Responses         Reporting Hours         ng Hours           0         0         288         0           0         0         0         0           25         51         1,748         911           0         0         35         0           0         0         0         0           3         5         184         76           28         56         2,254         987 |

Average annual additional costs per respondent: Average annual additional hours per respondent: Average annual additional hours per response: \$33,000 115.7 58

# mercial, and

s)

| Non-Labor<br>(Annualized<br>Capital/Startup<br>Cost + Annual<br>O&M Cost)<br>Costs | Total Costs |
|--|-------------|
| ***  | 400.000     |
| \$0  | \$33,298    |
| \$0  | \$0         |
| \$528,752  | \$836,687   |
|  |             |
| \$0  | \$4,000     |
| \$0  | \$0         |
| \$11,548   | \$41,648    |
| \$540,000  | \$920,000   |
| \$180,000  | \$307,000   |
|  |             |
|  |             |
| Hours per  | Hours Per   |
| Response   | Respondent  |
|  |             |
| -  | -           |
| -  |             |
| 52   | 106         |
|  |             |
| -  | -           |
| -  | -           |

52

57.9

87

115.7

Table 8: Average Annual EPA Burden and Cost – NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR Part 63, Subpart DDDDD) (Amendments)

Year 1

| 1 ear 1   |                               |                                |   |                                |   | 1                                    |                    |
|---|-------------------------------|--------------------------------|---|--------------------------------|---|--------------------------------------|--------------------|
|   | (A)                           | (B)                            | (C)   | (E)                            | (F)   | (G)                                  | (H)                |
| Burden Item   | EPA hours per occurrence      | Number of occurrences per year | EPA hours per<br>occurrence per<br>year (C=AxB) | Technical<br>hours per<br>year | Manage-ment<br>hours per year<br>(F=Ex0.05) | Clerical hours per<br>year (G=Ex0.1) | Costs per year, \$ |
| 1. Familiarization with regulatory requirements                                       | 10                            | 0                              | 0   | 0                              | 0   | 0                                    | \$0                |
| 2. Enter and update information into agency recordkeeping system <sup>b</sup>         | 2                             | 0                              | 0   | 0                              | 0   | 0                                    | \$0                |
| 3. Required activities  |                               |                                |   |                                |   |                                      | \$0                |
| A. Review and approve monitoring plan <sup>c</sup>                                    | 20                            | 0                              | 0   | 0                              | 0   | 0                                    | \$0                |
| B. Review and approve fuel monitoring plan <sup>b</sup>                               | 20                            | 0                              | 0   | 0                              | 0   | 0                                    | \$0                |
| C. Observe initial stack/performance test <sup>b</sup>                                | 40                            | 0                              | 0   | 0                              | 0   | 0                                    | \$0                |
| D. Observe repeat performance test <sup>b</sup>                                       | 40                            | 0                              | 0   | 0                              | 0   | 0                                    | \$0                |
| E. Review operating parameters d  | 2                             | 0                              | 0   | 0                              | 0   | 0                                    | \$0                |
| F. Review continuous parameter monitoring   |                               | 0                              | Ü   |                                | Ü   |                                      | ψ0                 |
| d .   | 2                             | 0                              | 0   | 0                              | 0   | 0                                    | \$0                |
| 4. Excess Emissions Enforcement Activities and Inspections <sup>b</sup>               | 24                            | 0                              | 0   | 0                              | 0   | 0                                    | \$0                |
| 5. Notification requirements  |                               | -                              | -   |                                | -   | -                                    | \$0                |
| A. Review initial notification that sources are subject to the standard <sup>b</sup>  | 2                             | 0                              | 0   | 0                              | 0   | 0                                    | \$0                |
| B. Review notification of initial performance tests and review test plan <sup>b</sup> | 20                            | 0                              | 0   | 0                              | 0   | 0                                    | \$0                |
| C. Review notification of compliance status   | 2                             | 0                              | 0   | 0                              | 0   | 0                                    | \$0                |
| 6. Reporting requirements   | _                             | -                              | -   |                                |   |                                      | \$0                |
| A. Review semiannual compliance report b  | 4                             | 0                              | 0   | 0                              | 0   | 0                                    | \$0                |
| B. Review annual compliance report <sup>b</sup>                                       | 2                             | 0                              | 0   | 0                              | 0   | 0                                    | \$0                |
| C. Review biennial compliance report b  | 1                             | 0                              | 0   | 0                              | 0   | 0                                    | \$0                |
| D. Review initial report on results of energy audit <sup>b</sup>                      | 2                             | 0                              | 0   | 0                              | 0   | 0                                    | \$0                |
| 7. Travel Expenses for Tests Attended b   | _                             |                                | ncidentals) + (\$600                            |                                | -   | -                                    | 7-                 |
|   | round trip) = \$1482 per trip |                                |   | 0                              | 0   | 0                                    | \$0                |
| TOTAL (rounded) <sup>c</sup>  |                               |                                |   |                                | 0   | •                                    | \$0                |

## Assumptions

- a This cost is based on the following labor rates: \$66.62 for managerial, \$49.44 for technical, and \$26.75 for clerical labor. These rates are from the Office of Personnel Management (OPM), 2019 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.
- b This line item is not changed by proposed amendments and is accounted for in the previous ICR Renewal (EPA ICR Number 2028.09, OMB Control Number 2060-0551).
- c Based on compliance data, we estimate that 25 facilities with existing solid fuel units and 3 facilities with new solid fuel units will be impacted by the proposal and may be required to modify monitoring plans. This burden was assigned to year 3 of the compliance period given that sources have 3 years to demonstrate compliance.
- d Based on compliance data, we estimate that 26 existing solid fuel units and 3 new solid fuel units will have additional operating parameters and continuous parameter monitoring results to be reviewed based on the changes to the emission limits. This burden was assigned to year 3 of the compliance period given that sources have 3 years to demonstrate compliance.
- e Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

Table 9: Average Annual EPA Burden and Cost – NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR Part 63, Subpart DDDDD) (Amendments)

Year 2

| Year 2  |                          |  |   |                                |   |                                      |                    |
|---|--------------------------|--|---|--------------------------------|---|--------------------------------------|--------------------|
|   | (A)                      | (B)  | (C)   | (E)                            | (F)   | (G)                                  | (H)                |
| Burden Item   | EPA hours per occurrence | Number of occurrences per year             | EPA hours per<br>occurrence per<br>year (C=AxB) | Technical<br>hours per<br>year | Manage-ment<br>hours per year<br>(F=Ex0.05) | Clerical hours per<br>year (G=Ex0.1) | Costs per year, \$ |
| 1. Familiarization with regulatory requirements                                       | 10                       | 0  | 0   | 0                              | 0   | 0                                    | \$0                |
| 2. Enter and update information into agency recordkeeping system <sup>b</sup>         | 2                        | 0  | 0   | 0                              | 0   | 0                                    | \$0                |
| 3. Required activities  |                          |  |   |                                |   |                                      | \$0                |
| A. Review and approve monitoring plan <sup>c</sup>                                    | 20                       | 0  | 0   | 0                              | 0   | 0                                    | \$0                |
| B. Review and approve fuel monitoring plan <sup>b</sup>                               | 20                       | 0  | 0   | 0                              | 0   | 0                                    | \$0                |
| C. Observe initial stack/performance test b   | 40                       | 0  | 0   | 0                              | 0   | 0                                    | \$0                |
| D. Observe repeat performance test <sup>b</sup>                                       | 40                       | 0  | 0   | 0                              | 0   | 0                                    | \$0                |
| E. Review operating parameters d  | 2                        | 0  | 0   | 0                              | 0   | 0                                    | \$0                |
| F. Review continuous parameter monitoring   | 2                        | 0  | 0   | 0                              | 0   | 0                                    | \$0                |
| 4. Excess Emissions Enforcement Activities and Inspections <sup>b</sup>               | 24                       | 0  | 0   | 0                              | 0   | 0                                    | \$0                |
| 5. Notification requirements  |                          |  |   |                                |   |                                      | \$0                |
| A. Review initial notification that sources are subject to the standard <sup>b</sup>  | 2                        | 0  | 0   | 0                              | 0   | 0                                    | \$0                |
| B. Review notification of initial performance tests and review test plan <sup>b</sup> | 20                       | 0  | 0   | 0                              | 0   | 0                                    | \$0                |
| C. Review notification of compliance status   | 2                        | 0  | 0   | 0                              | 0   | 0                                    | \$0                |
| 6. Reporting requirements   |                          | U  | U   | U                              | U   | 0                                    | \$0                |
| A. Review semiannual compliance report <sup>b</sup>                                   | 4                        | 0  | 0   | 0                              | 0   | 0                                    | \$0                |
| B. Review annual compliance report <sup>b</sup>                                       | 2                        | 0  | 0   | 0                              | 0   | 0                                    | \$0                |
| C. Review biennial compliance report b  | 1                        | 0  | 0   | 0                              | 0   | 0                                    | \$0                |
| D. Review initial report on results of energy audit <sup>b</sup>                      | 2                        | 0  | 0   | 0                              | 0   | 0                                    | \$0                |
| 7. Travel Expenses for Tests Attended <sup>b</sup>                                    |                          | otel + \$93 meals/i<br>nd trip) = \$1482 p | ncidentals) + (\$600                            |                                |   |                                      |                    |
| TOTAL (rounded) <sup>c</sup>  | 100                      | πα ατρ <i>)</i> – φ1402 μ                  | ci uip  | 0                              | <b>0</b>                                    | 0                                    | \$0<br><b>\$0</b>  |

## Assumptions:

a This cost is based on the following labor rates: \$66.62 for managerial, \$49.44 for technical, and \$26.75 for clerical labor. These rates are from the Office of Personnel Management (OPM), 2019 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.

- c Based on compliance data, we estimate that 25 facilities with existing solid fuel units and 3 facilities with new solid fuel units will be impacted by the proposal and may be required to modify monitoring plans. This burden was assigned to year 3 of the compliance period given that sources have 3 years to demonstrate compliance.
- d Based on compliance data, we estimate that 26 existing solid fuel units and 3 new solid fuel units will have additional operating parameters and continuous parameter monitoring results to be reviewed based on the changes to the emission limits. This burden was assigned to year 3 of the compliance period given that sources have 3 years to demonstrate compliance.
- e Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

b This line item is not changed by proposed amendments and is accounted for in the previous ICR Renewal (EPA ICR Number 2028.09, OMB Control Number 2060-0551)

Table 10: Average Annual EPA Burden and Cost – NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR Part 63, Subpart DDDDD) (Amendments)

| 1 car 3  |  |                         |                                |                   |                              |                                      |                    |
|--|--|-------------------------|--------------------------------|-------------------|------------------------------|--------------------------------------|--------------------|
|  |  |                         |                                |                   |                              |                                      |                    |
|  | (A)  | (B)                     | (C)                            | (E)               | (F)                          | (G)                                  | (H)                |
| Burden Item  |  |                         |                                |                   |                              |                                      |                    |
|  | EDAI   | Number of               | EPA hours per                  | Technical         | Manage-ment                  | G1 : 11                              |                    |
|  | EPA hours per occurrence   | occurrences per<br>vear | occurrence per<br>year (C=AxB) | hours per<br>year | hours per year<br>(F=Ex0.05) | Clerical hours per<br>year (G=Ex0.1) | Costs per year, \$ |
| 1. Familiarization with regulatory requirements                                      | occurrence   | year                    | year (C This)                  | y cur             | (1 Zholoo)                   | year (G Zhoir)                       |                    |
| b  | 10   | 1                       | 10                             | 10                | ,                            | 4                                    | Ø554.4C            |
| Enter and update information into agency   | 10   | 1                       | 10                             | 10                | 1                            | 1                                    | \$554.46           |
| recordkeeping system b   | 2  | 0                       | 0                              | 0                 | 0                            | 0                                    | \$0                |
| 3. Required activities   | _  | U                       | 0                              | <u> </u>          |                              | Ü                                    | \$0                |
| A. Review and approve monitoring plan <sup>c</sup>                                   | 20   | 28                      | 560                            | 560               | 28                           | 56                                   | \$31,049.76        |
| B. Review and approve fuel monitoring  |  |                         |                                |                   |                              |                                      | 400,000            |
| plan <sup>b</sup>  | 20   | 0                       | 0                              | 0                 | 0                            | 0                                    | \$0                |
| C. Observe initial stack/performance test b  | 40   | 0                       | 0                              | 0                 | 0                            | 0                                    | \$0                |
| D. Observe repeat performance test <sup>b</sup>                                      | 40   | 0                       | 0                              | 0                 | 0                            | 0                                    | \$0                |
| E. Review operating parameters d   | 2  | 28                      | 56                             | 56                | 2.8                          | 5.6                                  | \$3,104.98         |
| F. Review continuous parameter monitoring  |  |                         |                                |                   |                              |                                      |                    |
| d  | 2  | 28                      | 56                             | 56                | 2.8                          | 5.6                                  | \$3,104.98         |
| 4. Excess Emissions Enforcement Activities   |  |                         |                                |                   |                              |                                      |                    |
| and Inspections <sup>b</sup>   | 24   | 0                       | 0                              | 0                 | 0                            | 0                                    | \$0                |
| 5. Notification requirements   |  |                         |                                |                   |                              |                                      |                    |
| A. Review initial notification that sources are subject to the standard <sup>b</sup> | 2  | 0                       | 0                              | 0                 | 0                            | 0                                    | \$0                |
| B. Review notification of initial  |  |                         |                                |                   |                              |                                      |                    |
| performance tests and review test plan b   | 20   | 0                       | 0                              | 0                 | 0                            | 0                                    | \$0                |
| C. Review notification of compliance status  |  |                         |                                |                   |                              |                                      |                    |
|  | 2  | 0                       | 0                              | 0                 | 0                            | 0                                    | \$0                |
| 6. Reporting requirements  |  |                         |                                |                   |                              |                                      | \$0                |
| A. Review semiannual compliance report <sup>b</sup>                                  | 4  | 0                       | 0                              | 0                 | 0                            | 0                                    | \$0                |
| B. Review annual compliance report b   | 2  | 0                       | 0                              | 0                 | 0                            | 0                                    | \$0                |
| C. Review biennial compliance report <sup>b</sup>                                    | 1  | 0                       | 0                              | 0                 | 0                            | 0                                    | \$0                |
| D. Review initial report on results of energy audit <sup>b</sup>                     | 2  | 0                       | 0                              | 0                 | 0                            | 0                                    | \$0                |
| 7. Travel Expenses for Tests Attended <sup>b</sup>                                   |  |                         |                                | U                 | U                            | U                                    | 20                 |
| Tare Expenses for resis ratefulla  | 3 days * (\$201 hotel + \$93 meals/incidentals) + (\$600 round trip) = \$1482 per trip |                         | 0                              | 0                 | 0                            | \$0                                  |                    |
| TOTAL (rounded) °  |  |                         |                                |                   | 784                          | !                                    | \$37,800           |
| (- vanaca)   |  |                         |                                |                   | , 0-4                        |                                      | Ψ57,000            |

## Assumptions:

- a This cost is based on the following labor rates: \$66.62 for managerial, \$49.44 for technical, and \$26.75 for clerical labor. These rates are from the Office of Personnel Management (OPM), 2019 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.
- b This line item is not changed by proposed amendments and is accounted for in the previous ICR Renewal (EPA ICR Number 2028.09, OMB Control Number 2060-0551).
- c Based on compliance data, we estimate that 25 facilities with existing solid fuel units and 3 facilities with new solid fuel units will be impacted by the proposal and may be required to modify monitoring plans. This burden was assigned to year 3 of the compliance period given that sources have 3 years to demonstrate compliance.
- d Based on compliance data, we estimate that 26 existing solid fuel units and 3 new solid fuel units will have additional operating parameters and continuous parameter monitoring results to be reviewed based on the changes to the emission limits. This burden was assigned to year 3 of the compliance period given that sources have 3 years to demonstrate compliance.
- e Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

Table 11 - Summary of Annual Agency Burden and Cost - NESHAP for Industrial, Co and Institutional Boilers and Process Heaters (40 CFR Part 63, Subpart DDDDD) (An

| Year    | Technical<br>Hours | Management<br>Hours | Clerical Hours | Total Hours | Labor Costs | Non-Labor<br>Costs |
|---------|--------------------|---------------------|----------------|-------------|-------------|--------------------|
| 1       | 0                  | 0                   | 0              | 0           | \$0         | \$0                |
| 2       | 0                  | 0                   | 0              | 0           | \$0         | \$0                |
| 3       | 682                | 34                  | 68             | 784         | \$37,800    | \$0                |
| Total   | 682                | 34                  | 68             | 784         | \$37,800    | \$0                |
| Average | 227                | 11.4                | 23             | 261         | \$12,600    | \$0                |

| Year    | Number of<br>Responses | Total Hours |
|---------|------------------------|-------------|
| 1       | 0                      | 0           |
| 2       | 0                      | 0           |
| 3       | 85                     | 784         |
| Total   | 85                     | 784         |
| Average | 28                     | 261         |

## mmercial, nendments)

| Total Costs |
|-------------|
| \$0         |
| \$0         |
| \$37,800    |
| \$37,800    |
| \$12,600    |

| (                                 | Capital/Startup v       | s. Operation and | d Maintenance                             | (O&M) Costs  |  |  |  |
|-----------------------------------|-------------------------|------------------|---|--|--|--|--|
| (A)                               | (B)                     | (C)              | (D)                                       | (E)  |  |  |  |
| Boiler Type &<br>CPMS             | Capital/Startup<br>Cost | Number of Units  | Total Capital/<br>Startup Cost<br>(B x C) | Annualized<br>Capital Cost +<br>Annual O&M<br>Costs for One<br>Unit <sup>a</sup> |  |  |  |
|                                   | 1                       | YEAR             | 1   |  |  |  |  |
| Existing Large Solid Units        |                         |                  |   |  |  |  |  |
| Opacity                           | \$25,812                | 0                | \$0                                       | \$9,855  |  |  |  |
| Scrubber System                   | \$25,054                | 0                | \$0                                       | \$5,774  |  |  |  |
| Bag Leak Detection System         | \$26,300                | 0                | \$0                                       | \$10,000   |  |  |  |
| DIFF Monitor                      | \$44,858                | 0                | \$0                                       | \$31,500   |  |  |  |
| CO CEMS                           | \$153,700               | 0                | \$0                                       | \$42,600   |  |  |  |
| New Large Solid Units             |                         |                  |   |  |  |  |  |
| Scrubber System                   | \$25,054                | 0                | \$0                                       | \$5,774  |  |  |  |
|                                   | YEAR 2                  |                  |   |  |  |  |  |
| <b>Existing Large Solid Units</b> |                         |                  |   |  |  |  |  |
| Opacity                           | \$25,812                | 0                | \$0                                       | \$9,855  |  |  |  |
| Scrubber System                   | \$25,054                | 0                | \$0                                       | \$5,774  |  |  |  |
| Bag Leak Detection System         | \$26,300                | 0                | \$0                                       | \$10,000   |  |  |  |
| DIFF Monitor                      | \$44,858                | 0                | \$0                                       | \$31,500   |  |  |  |
| CO CEMS                           | \$153,700               | 0                | \$0                                       | \$42,600   |  |  |  |
| New Large Solid Units             |                         |                  |   |  |  |  |  |
| Scrubber System                   | \$25,054                | 0                | \$0                                       | \$5,774  |  |  |  |
|                                   |                         | YEAR             | 3   |  |  |  |  |
| Existing Large Solid Units        |                         |                  |   |  |  |  |  |
| Opacity                           | \$25,812                | 6                | \$154,872                                 | \$9,855  |  |  |  |
| Scrubber System                   | \$25,054                | 3                | \$75,162                                  | \$5,774  |  |  |  |
| Bag Leak Detection System         | \$26,300                | 8                | \$210,400                                 | \$10,000   |  |  |  |
| DIFF Monitor                      | \$44,858                | 1                | \$44,858                                  | \$31,500   |  |  |  |
| CO CEMS                           | \$153,700               | 8                | \$1,229,600                               | \$42,600   |  |  |  |
| New Large Solid Units             |                         |                  |   |  |  |  |  |
| Scrubber System                   | \$25,054                | 2                | \$50,108                                  | \$5,774  |  |  |  |
| Total (Rounded) <sup>b</sup>      |                         |                  | \$1,770,000                               |  |  |  |  |

<sup>&</sup>lt;sup>a</sup> This figure represents the annualized capital cost of the new equipment plus the annual O&M costs of the new equipment annualized cost, see: "XXXXXX" in EPA Docket ID Number EPA-HQ-OAR-2002-0058.

|     | Total Annual | Responses |
|-----|--------------|-----------|
| (A) | (B)          | (C)       |

<sup>&</sup>lt;sup>b</sup> Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

| Information Collection Activity                 | Number of Respondents <sup>a</sup> |             | Number of Responses <sup>b</sup> |             |  |  |
|---|------------------------------------|-------------|----------------------------------|-------------|--|--|
|   | Existing Sources                   | New Sources | Existing Sources                 | New Sources |  |  |
| Total Annual Responses, In Year One             |                                    |             |                                  |             |  |  |
| Reporting: Update Site-specific monitoring plan | 0                                  | 0           | 0                                | 0           |  |  |
| Reporting: CPMS: Opacity: Annual                | 0                                  | 0           | 0                                | 0           |  |  |
| Reporting: CPMS: Scrubber: Annual               | 0                                  | 0           | 0                                | 0           |  |  |
| Reporting: CPMS: Bag Leak Detection:<br>Annual  | 0                                  | 0           | 0                                | 0           |  |  |
| Reporting: CPMS: DIFF Monitor: Annual           | 0                                  | 0           | 0                                | 0           |  |  |
| Reporting: CPMS: CO CEMS: Annual                | 0                                  | 0           | 0                                | 0           |  |  |
|   |                                    |             |                                  |             |  |  |

|   | Total Annual Responses, In Year Two |   |   |   |
|---|-------------------------------------|---|---|---|
| Reporting: Update Site-specific monitoring plan | 0                                   | 0 | 0 | 0 |
| Reporting: CPMS: Opacity: Annual                | 0                                   | 0 | 0 | 0 |
| Reporting: CPMS: Scrubber: Annual               | 0                                   | 0 | 0 | 0 |
| Reporting: CPMS: Bag Leak Detection:<br>Annual  | 0                                   | 0 | 0 | 0 |
| Reporting: CPMS: DIFF Monitor: Annual           | 0                                   | 0 | 0 | 0 |
| Reporting: CPMS: CO CEMS: Annual                | 0                                   | 0 | 0 | 0 |
|   |                                     |   |   |   |

|   | Total Annual Responses, In Year Three |   |   |   |
|---|---------------------------------------|---|---|---|
| Reporting: Update Site-specific monitoring plan | 25                                    | 3 | 1 | 1 |
| Reporting: CPMS: Opacity: Annual                | 6                                     | 0 | 1 | 0 |
| Reporting: CPMS: Scrubber: Annual               | 3                                     | 2 | 1 | 1 |
| Reporting: CPMS: Bag Leak Detection: Annual     | 8                                     | 0 | 1 | 0 |
| Reporting: CPMS: DIFF Monitor: Annual           | 1                                     | 0 | 1 | 0 |
| Reporting: CPMS: CO CEMS: Annual                | 8                                     | 0 | 1 | 0 |
|   |                                       |   |   |   |

<sup>&</sup>lt;sup>a</sup> EPA estimates that, as a result of the proposed amendments, 26 continuous parameter monitoring systems (CPMS) on will be required to be installed. EPA also estimates that, as a result of the proposed amendments, 2 new sources will be rescrubbers. Additionally, EPA estimates that 25 existing sources and 3 new sources will update site-specific monitoring p changes to the emission limits.



| (F)             | (G)  |
|-----------------|--|
| Number of Units | Total Annualized<br>Capital Cost +<br>Annual O&M<br>Costs<br>(E x F) |

| 0 | \$0        |
|---|------------|
| 0 | \$0        |
| 0 | \$0<br>\$0 |
| 0 | \$0        |
| 0 | \$0        |
|   |            |
| 0 | \$0        |
|   |            |

| 0 | \$0       |  |
|---|-----------|--|
| 0 | \$0       |  |
| 0 | \$0       |  |
| 0 | \$0       |  |
| 0 | \$0       |  |
|   |           |  |
| 0 | \$0       |  |
|   |           |  |
|   |           |  |
| 6 | \$59,130  |  |
| 3 | \$17,322  |  |
| 8 | \$80,000  |  |
| 1 | \$31,500  |  |
| 8 | \$340,800 |  |
|   |           |  |
| 2 | \$11,548  |  |
|   |           |  |
|   | \$540,000 |  |

ent. For a detailed explanation of the

| (D) | (E) |
|-----|-----|

| Number of Existing Respondents That Keep Records But Do Not Submit Reports | Total Annual<br>Responses<br>E=(BxC)+D |
|--|--|
| 0  | 0                                      |
| 0  | 0                                      |
| 0  | 0                                      |
| 0  | 0                                      |
| 0  | 0                                      |
| 0  | 0                                      |
| Total  | 0                                      |

| 0     | 0 |
|-------|---|
| 0     | 0 |
| 0     | 0 |
| 0     | 0 |
| 0     | 0 |
| 0     | 0 |
| Total | 0 |

| 28 |  |
|----|--|
| 6  |  |
| 5  |  |
| 8  |  |
| 1  |  |
| 8  |  |
| 56 |  |
|    |  |

existing pollution control devices equired to install CPMS on lans as a result of the proposed

all facilities will comply in year

# of facilities with units in one of the impacted subcategories in the first 3 years of compliance

| Existing Large Solid | New Large Solid |
|----------------------|-----------------|
| 25                   | 3               |

# of units with additional monitoring, includes the list from complaince data plus model boilers to account for units where we do not have data for existing sources. For new sources includes an extra unit with scrubber, recognizing potential growth in new units. The 3rd new unit is estimated to only require an increase in sorbent injection rate to meet the HCl limit.

| Monitors   | Existing Large Solid | New Large Solid |
|--|----------------------|-----------------|
| Opacity  | 6                    |                 |
| Wet Scrubber   | 3                    | 2               |
| BLD  | 8                    |                 |
| DIFF   | 1                    |                 |
| CO CEMS  | 8                    |                 |
| Total  | 26                   | 2               |
| Units that don't require new monitors but may need to adjust monitoring plan to account for new limits | 10                   | 1 2             |
| Total for monitoring changes   | 36                   | 3               |