# Appendix J: Burden and Cost for Additional Sources of Fluorinated GHG (Subparts I, L, DD, QQ, SS) 

Appendix J-1: Detailed Burden and Cost
Appendix J-2: Summary of Burden and Cost by Activity and Year Appendix J-3: Change in Burden and Cost

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APPENDIX J-2: Summary of Burden and Cost for Additional Sources of Fluorinated GHG (Subparts I, L, DD, QQ, and SS)

| Source Category | Annual Average - 3 year ICR Period |  |  |  |  |  |  |  |  |  |  |  |
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|  | No. Respondents | Responses/ <br> Respondent | Total Responses | ```Burden - Technical (hrs)``` | Burden Managerial (hrs) | Burden - <br> Clerical (hrs) | Burden Legal (hrs) | Total <br> Burden (hrs) | Total Labor Cost (\$) | Capital Cost (\$) | O\&M Cost <br> (\$) | Total Cost (\$) |
| I - Electronics Manufacturing | 94 | 1 | 94 | 30,196 | 2,511.6 | 2,204.8 | 24.4 | 34,937.1 | \$2,050,981 | \$3,511,900 | \$0 | \$5,562,881 |
| L - Fluorinated Gas Production | 14 | 1 | 14 | 2,068 | 64.4 | 458.8 | - | 2,591.5 | \$141,635 | \$33,369 | \$14,080 | \$189,084 |
| DD - Sulfur Hexafluoride (SF6) from Electric Power Systems | 141 | 1 | 141 | 6,638 | 1,640.5 | 2,260.9 | - | 10,539.6 | \$590,027 | \$0 | \$0 | \$590,027 |
| QQ - Imports and Exports of Fluorinated GHGs in Products | 158 | 1 | 158 | 9,335 | 1,126.5 | 494.5 | - | 10,955.7 | \$654,370 | \$0 | \$0 | \$654,370 |
| SS - SF6 Equipment Producers | 10 | 1 | 10 | 220 | 85.0 | 129.0 | - | 434.0 | \$23,615 | \$0 | \$120 | \$23,736 |
| TOTAL | 417 | 1 | 417 | 48,457 | 5,428.0 | 5,548.0 | 24.4 | 59,458.0 | \$3,460,628 | \$3,545,269 | \$14,200 | \$7,020,098 |

## J3. Change in Burden and Cost for Additional Sources of Fluorinated GHG (Subparts I, L, DD, QQ, and SS)

Current Cost \& Burden (OMB No. 2060-0650, ICR No. 2373.02-2373.04)

First-Year Burden \& Cost (1)

| Source Category | No. Respondents | Responses/ <br> Respondent | Total Responses | Total Burden (hrs) | Total Labor Cost (\$K) | $\begin{gathered} \text { Capital Cost } \\ \text { (\$K) } \end{gathered}$ | O\&M Cost (\$K) | Total Cost (\$K) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| I-Electronics Manufacturing | 94 | 1 | 94 | 34,937 | \$1,913,073 | \$990,379 | \$0 | \$2,903,452 |
| L - Fluorinated Gas Production <br> DD - Sulfur Hexafluoride (SF6) from | 14 | 1 | 14 | 52,740 | \$2,816,745 | \$33,369 | \$0 | \$2,850,114 |
| Electric Power Systems | 141 | 1 | 141 | 10,540 | \$549,988 | \$0 | \$0 | \$549,988 |
| QQ - Imports and Exports of Fluorinated GHGs in Products | 158 | 1 | 158 | 12,536 | \$699,671 | \$0 | \$0 | \$699,671 |
| SS - SF6 Equipment Producers | 10 | 1 | 10 | 434 | \$22,006 | \$0 | \$120 | \$22,127 |
| TOTAL | 417 | 1 | 417 | 111,186 | \$6,001,483 | \$1,023,748 | \$120 | \$7,025,351 |

## Subsequent-Year Burden \& Cost (1)

| Source Category | No. Respondents | Responses/ <br> Respondent | Total Responses | Total Burden (hrs) | Total Labor <br> Cost <br> (\$K) | $\begin{gathered} \text { Capital Cost } \\ \text { (\$K) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { O\&M Cost } \\ \text { (\$K) } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Total Cost } \\ & \text { (\$K) } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| I - Electronics Manufacturing | 94 | 1 | 94 | 34,937 | \$1,913,073 | \$3,511,900 | \$0 | \$5,424,973 |
| L - Fluorinated Gas Production | 14 | 1 | 14 | 2,591 | \$132,348 | \$33,369 | \$14,080 | \$179,797 |
| DD - Sulfur Hexafluoride (SF6) from Electric Power Systems | 141 | 1 | 141 | 10,540 | \$549,988 | \$0 | \$0 | \$549,988 |
| QQ - Imports and Exports of Fluorinated GHGs in Products | 158 | 1 | 158 | 10,956 | \$609,953 | \$0 | \$0 | \$609,953 |
| SS - SF6 Equipment Producers | 10 | 1 | 10 | 434 | \$22,006 | \$0 | \$120 | \$22,127 |
| TOTAL | 417 | 1 | 417 | 59,458 | \$3,227,369 | \$3,545,269 | \$14,200 | \$6,786,838 |

## Annual Average Burden \& Cost (1)

| Source Category | No. Respondents | Responses/ <br> Respondent | Total Responses | Total Burden (hrs) | Total Labor Cost (\$K) | $\begin{gathered} \text { Capital Cost } \\ (\$ K) \\ \hline \end{gathered}$ | $\begin{gathered} \text { O\&M Cost } \\ \text { (\$K) } \end{gathered}$ | $\begin{aligned} & \text { Total Cost } \\ & \text { (\$K) } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| I-Electronics Manufacturing | 94 | 1 | 94 | 34,937 | \$1,913,073 | \$2,671,393 | \$0 | \$4,584,466 |
| L - Fluorinated Gas Production | 14 | 1 | 14 | 19,307 | \$1,027,147 | \$33,369 | \$9,387 | \$1,069,903 |
| DD - Sulfur Hexafluoride (SF6) from Electric Power Systems | 141 | 1 | 141 | 10,540 | \$549,988 | \$0 | \$0 | \$549,988 |
| QQ - Imports and Exports of Fluorinated GHGs in Products | $158$ | 1 | 158 | 11,482 | \$639,859 | \$0 | \$0 | \$639,859 |
| SS - SF6 Equipment Producers | 10 | 1 | 10 | 434 | \$22,006 | \$0 | \$120 | \$22,127 |
| TOTAL | 417 | Varies | 417 | 76,702 | \$4,152,073 | \$2,704,762 | \$9,507 | \$6,866,343 |

(1) Does not include the burden or cost for provision of information on parent companies, NAICS codes, and whether emissions are from cogeneration. This adds another 0.68 hours and $\$ 44$ per respondent (see Appendix L).

## J3. Change in Burden and Cost for Additional Sources of Fluorinated GHG (Subparts I, L, DD, QQ, and SS)

## Revised Burden \& Cost

First-Year Burden \& Cost (1)

| Source Category | No. Respondents | Responses/ <br> Respondent | Total Responses | Total Burden (hrs) | Total Labor Cost (\$K) | Capital Cost (\$K) | O\&M Cost (\$K) | Total Cost (\$K) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| I-Electronics Manufacturing | 94 | 1 | 94 | 34,937 | \$2,050,981 | \$3,511,900 | \$0 | \$5,562,881 |
| L - Fluorinated Gas Production DD - Sulfur Hexafluoride (SF6) from | 14 | 1 | 14 | 2,591 | \$141,635 | \$33,369 | \$14,080 | \$189,084 |
| Electric Power Systems | 141 | 1 | 141 | 10,540 | \$590,027 | \$0 | \$0 | \$590,027 |
| QQ - Imports and Exports of Fluorinated GHGs in Products | 158 | 0 | 158 | 10,956 | \$654,370 | \$0 | \$0 | \$654,370 |
| SS - SF6 Equipment Producers | 10 | 0 | 10 | 434 | \$23,615 | \$0 | \$120 | \$23,736 |
| TOTAL | 417 | Varies | 417 | 59,459 | \$3,460,628 | \$3,545,269 | \$14,200 | \$7,020,098 |

## Subsequent-Year Burden \& Cost (1)

| Source Category | No. Respondents | Responses/ <br> Respondent | Total Responses | Total Burden (hrs) | Total Labor <br> Cost <br> (\$K) | $\begin{gathered} \text { Capital Cost } \\ \text { (\$K) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { O\&M Cost } \\ \text { (\$K) } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Total Cost } \\ & \text { (\$K) } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| I - Electronics Manufacturing | 94 | 1 | 94 | 34,937 | \$2,050,981 | \$3,511,900 | \$0 | \$5,562,881 |
| L - Fluorinated Gas Production | 14 | 1 | 14 | 2,591 | \$141,635 | \$33,369 | \$14,080 | \$189,084 |
| DD - Sulfur Hexafluoride (SF6) from Electric Power Systems | 141 | 1 | 141 | 10,540 | \$590,027 | \$0 | \$0 | \$590,027 |
| QQ - Imports and Exports of Fluorinated GHGs in Products | 158 | 0 | 158 | 10,956 | \$654,370 | \$0 | \$0 | \$654,370 |
| SS - SF6 Equipment Producers | 10 | 0 | 10 | 434 | \$23,615 | \$0 | \$120 | \$23,736 |
| TOTAL | 417 | Varies | 417 | 59,459 | \$3,460,628 | \$3,545,269 | \$14,200 | \$7,020,098 |

## Annual Average Burden \& Cost (1)

| Source Category | No. Respondents | Responses/ <br> Respondent | Total <br> Responses | Total Burden (hrs) | Total Labor Cost (\$K) | $\begin{gathered} \text { Capital Cost } \\ \text { (\$K) } \end{gathered}$ | $\begin{aligned} & \text { O\&M Cost } \\ & (\$ K) \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Total Cost } \\ & \text { (\$K) } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| I-Electronics Manufacturing | 94 | 1 | 94 | 34,937 | \$2,050,981 | \$3,511,900 | \$0 | \$5,562,881 |
| L - Fluorinated Gas Production | 14 | 1 | 14 | 2,591 | \$141,635 | \$33,369 | \$14,080 | \$189,084 |
| DD - Sulfur Hexafluoride (SF6) from Electric Power Systems | 141 | 1 | 141 | 10,540 | \$590,027 | \$0 | \$0 | \$590,027 |
| QQ - Imports and Exports of Fluorinated |  |  |  |  |  |  |  |  |
| GHGs in Products | 158 | 0 | 158 | 10,956 | \$654,370 | \$0 | \$0 | \$654,370 |
| SS - SF6 Equipment Producers | 10 | 0 | 10 | 434 | \$23,615 | \$0 | \$120 | \$23,736 |
| TOTAL | 417 | Varies | 417 | 59,459 | \$3,460,628 | \$3,545,269 | \$14,200 | \$7,020,098 |

(1) Does not include the burden or cost for provision of information on parent companies, NAICS codes, and whether emissions are from cogeneration. This adds another 0.68 hours and $\$ 44$ per respondent (see Appendix L).

J3. Change in Burden and Cost for Additional Sources of Fluorinated GHG (Subparts I, L, DD, QQ, and SS)

## Change in Burden and Cost

| Source Category | No. Respondents | Responses/ <br> Respondent | Total Responses | Total Burden (hrs) | Total Labor Cost (\$K) | $\begin{gathered} \text { Capital Cost } \\ (\$ K) \\ \hline \end{gathered}$ | $\begin{gathered} \text { O\&M Cost } \\ \text { (\$K) } \end{gathered}$ | $\begin{aligned} & \text { Total Cost } \\ & (\$ K) \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1-Electronics Manufacturing | 0 | 0 | 0 | 0 | \$137,908 | \$840,507 | \$0 | \$978,415 |
| L - Fluorinated Gas Production | 0 | 0 | 0 | -16,716 | -\$885,512 | \$0 | \$4,693 | -\$880,819 |
| DD - Sulfur Hexafluoride (SF6) from Electric Power Systems | 0 | 0 | 0 | $0$ | \$40,039 | $\$ 0$ | \$0 | \$40,039 |
| QQ - Imports and Exports of Fluorinated GHGs in Products | 0 | -1 | 0 | $-527$ | \$14,511 | \$0 | \$0 | \$14,511 |
| SS - SF6 Equipment Producers | 0 | -1 | 0 | 0 | \$1,609 | \$0 | \$0 | \$1,609 |
| TOTAL | 0 |  | 0 | -17,242 | -\$691,445 | \$840,507 | \$4,693 | \$153,755 |

## Reason for Changes in Burden and Cost

- Adjusted the labor hours and labor cost per facility for subparts $L$ and $Q Q$ to recognize the completion of the one-time activities that occurred in the first year of data collection.
- Updated the labor rates used to calculate labor costs, adopting an approach consistent with the approach used in the other subparts (see Appendix F).


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