Table 1: Annual Respondent Burden and Cost - NESHAP for Oil and Natural Gas Productior

|  | (A) | (B) | (C) | (D) |
| :---: | :---: | :---: | :---: | :---: |
| Burden item | Technical Person hours per occurrence | No. of occurrences per respondent per year | Technical Person hours per respondent per year (C=AxB) | Respondents per year ${ }^{\text {a }}$ |
| 1. Applications | N/A |  |  |  |
| 2. Surveys and studies | N/A |  |  |  |
| 3. Reporting requirements |  |  |  |  |
| a. Familiarize with rule requirement ${ }^{\text {c }}$ |  |  |  |  |
| New sources | 4 | 1 | 4 | 169 |
| Existing sources (major source only) | 1 | 1 | 1 | 596 |
| b. Required activities | N/A |  |  |  |
| Major sources |  |  |  |  |
| i. Notification of construction/reconstruction ${ }^{\mathrm{c}}$ | 2 | 1 | 2 | 28 |
| ii. Notification of actual startup ${ }^{\text {c }}$ | 2 | 1 | 2 | 28 |
| iii. Notification of date of CMS performance evaluation | 2 | 1 | 2 | 28 |
| IV. ivolimicatimol alte or periommance test | 2 | 1 | 2 | 28 |
| v. ivolimcanolio comipnance status report | 4 | 1 | 4 | 28 |
| vi. Affirmative Defense and malfunction reports ${ }^{\text {e }}$ | 2 | 2 | 4 | 596 |
| vii. Semiannual periodic report ${ }^{\text {e }}$ | 2 | 2 | 4 | 596 |
| Area sources |  |  |  |  |
| i. Notification of intent to construct ${ }^{\text {c }}$ | 2 | 1 | 2 | 3 |
| ii. Notification of actual startup date ${ }^{\text {c }}$ | 1 | 1 | 1 | 3 |
| iii. Notification of intent to conduct performance test $\mathrm{c}, \mathrm{f}$ | 2 | 1 | 2 | 16 |
| iv. Notification of date of CMS performance evaluation ${ }^{\mathrm{c}, \mathrm{f}}$ | 2 | 1 | 2 | 16 |
| v. Notification of compliance status ${ }^{\text {f }}$ | 10 | 1 | 10 | 16 |
| vi. First periodic report ${ }^{\text {g }}$ | 4 | 1 | 4 | 3 |
| vii. Subsequent periodic reports ${ }^{\text {g }}$ | 2 | 1 | 2 | 78 |
| viii. Affirmative Defense and malfunction reports ${ }^{\text {h }}$ | 2 | 10 | 20 | 16 |
| c. Create information | N/A |  |  |  |
| d. Gather existing information ${ }^{\text {c }}$ | 8 | 1 | 8 | 169 |
| e. Affirmative defense ${ }^{\text {d }}$ | N/A |  |  |  |
| Subtotal for Reporting Requirements |  |  |  |  |
| 4. Recordkeeping requirements |  |  |  |  |
| a. Familiarize with rule requirement |  |  |  |  |
| Major source ${ }^{\text {i }}$ | 4 | 1 | 4 | 28 |
| Area source ${ }^{\text {i }}$ | 4 | 1 | 4 | 141 |
| b. Plan activities |  |  |  |  |
| Major source | 16 | 1 | 16 | 28 |
| Area source |  |  |  |  |


| i. Sources required to operate add-on controls ${ }^{j}$ | 16 | 1 | 16 | 81 |
| :---: | :---: | :---: | :---: | :---: |
| ii. Sources required to implement MP ${ }^{\text {k }}$ | 4 | 1 | 4 | 138 |
| c. Implement activities |  |  |  |  |
| Major source | N/A |  |  |  |
| Area source |  |  |  |  |
| i. Performance test ${ }^{1}$ | 35 | 1 | 35 | 16 |
| ii. Design analysis ${ }^{1}$ | 12 | 1 | 12 | 65 |
| iii. Control equipment leak monitoring ${ }^{\text {j }}$ | 3 | 2 | 6 | 81 |
| iv. Operate and maintain CMS ${ }^{\text {j, m }}$ | 2 | 12 | 24 | 81 |
| d. Develop record system |  |  |  |  |
| Major source |  |  |  |  |
| i. Control equipment ${ }^{\text {c }}$ | 8 | 1 | 8 | 28 |
| ii. Equipment inspection and monitoring ${ }^{\text {n }}$ | 13 | 1 | 13 | 596 |
| Area source |  |  |  |  |
| Control equipment ${ }^{\circ}$ | 8 | 1 | 8 | 16 |
| e. Time to enter information |  |  |  |  |
| Major source |  |  |  |  |
| i. Control equipment monitoring ${ }^{\mathrm{n}, \mathrm{p}}$ | 1 | 2 | 2 | 596 |
| ii. Control device CMS ${ }^{\text {n, } \mathrm{p}, \mathrm{q}}$ | 1 | 12 | 12 | 596 |
| iii. Equipment inspection and monitoring n, $\mathrm{p}, \mathrm{q}$ | 1 | 12 | 12 | 596 |
| Area source |  |  |  |  |
| i. Control equipment leak monitoring ${ }^{\text {j, } \mathrm{r}}$ | 1 | 2 | 2 | 81 |
| ii. CMS measurements ${ }^{\text {j }}$ | 1 | 12 | 12 | 81 |
| f. Time to train personnel |  |  |  |  |
| Major source ${ }^{\text {c,s }}$ | 8 | 1 | 8 | 28 |
| Area source ${ }^{\mathrm{c}, \mathrm{s}}$ | 8 | 1 | 8 | 3 |
| g. Maintain records (area source) ${ }^{\mathrm{j}, \mathrm{t}}$ | 20 | 1 | 20 | 81 |
| h. Retain records of emission ${ }^{\text {u }}$ | 1 | 1 | 1 | 3,836 |
| i. Retrieve records/reports ${ }^{\text {j, v }}$ | 20 | 1 | 20 | 81 |
| Subtotal for Recordkeeping Requirements |  |  |  |  |
| Total Labor Burden and Costs (rounded) ${ }^{\text {w }}$ |  |  |  |  |
| Total Capital and O\&M Cost (rounded) ${ }^{\text {w }}$ |  |  |  |  |
| GRAND TOTAL (rounded) ${ }^{\text {w }}$ |  |  |  |  |

## Assumptions:

${ }^{\text {a }}$ We assume that on average there are 4,669 existing sources (596 existing major sources and 3,914 existing area sourc additional 169 new respondents ( 28 new major source respondents and 141 new area source respondents) per year will b of this ICR due to new construction. We assume that all 141 of the new area source respondents are newly constructed a constructed (greenfield) major sources. The remaining 10 new major source respondents are existing major sources that though they were new major source respondents.
${ }^{\mathrm{b}}$ This ICR uses the following labor rates for privately-owned sources: $\$ 141.06$ for managerial, $\$ 120.27$ for technical, ar Department of Labor, Bureau of Labor Statistics, June 2019, "Table 2. Civilian Workers, by occupational and industry g have been increased by 110 percent to account for the benefit packages available to those employed by private industry.
${ }^{\text {c }}$ New respondents are comprised of: 28 new major source respondents that are required to file reports, 3 new area sourc respondents that only maintain records, for a total of 169 new respondents per year on average. For existing respondents with the regulatory requirement. Most area source respondents only have recordkeeping requirements.
${ }^{\mathrm{d}}$ Not applicable.
${ }^{e}$ We assume that affirmative defense and malfunction reports may be included as part of the semiannual periodic report report. All existing major sources are subject to malfunction and semiannual reports.
${ }^{f}$ We assume that $11 \%$ of new area sources are located within an urbanized area (UA)/urban cluster (UC) plus offset bou recordkeeping requirements.
${ }^{\mathrm{g}}$ We assume that $2 \%$ of existing area sources and 3 new area sources will complete this activity.
${ }^{\mathrm{h}}$ We assume that affirmative defense and malfunction reports may be included as part of the semiannual periodic reports will complete this activity. In addition, we estimate two hours are required to complete each report.
${ }^{\text {i }}$ We assume that it will take each of the new sources ( 28 major and 141 area) four hours to read instructions.
${ }^{j}$ We assume that $2 \%$ of the 3,914 existing area sources ( 78 sources) and 3 new area sources will complete this activity.
${ }^{k}$ This applies to new area sources that only keep records.
${ }^{1}$ Performance of control devices can be evaluated with performance tests or design analysis. The estimated hours per act Number 1788.09 and 2440.02.
${ }^{m}$ We assume that it will take each respondent two hours twelve times per year to implement this activity.
${ }^{n}$ This applies to the existing major sources.
${ }^{\circ}$ The $11 \%$ of new area sources doing a performance test on control equipment need to develop a record system. The esti from EPA ICR Number 1788.09 and 2440.02.
p We assume that all of the major sources will each take one hour to enter information.
${ }^{q}$ We assume that each respondent will be required to enter information twelve times per year.
${ }^{r}$ We assume that each respondent will be required to enter information two times per year.
${ }^{\text {s }}$ We assume that new respondents subject to reporting requirements will take eight hours to train personnel in the recorı
${ }^{t}$ We assume that it will take 20 hours for each respondent to maintain records.
${ }^{u}$ We assume that $98 \%$ of the 3,914 existing area source respondents are subject only to the recordkeeping requirements. emissions.
v We assume that each respondent will take twenty hours once per year to retrieve records/reports.
${ }^{\mathrm{w}}$ Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

| (E) | (F) | (G) | (H) |
| :---: | :---: | :---: | :---: |
| Technical person- hours per year ( $\mathrm{E}=\mathrm{CxD}$ ) | Management person hours per year (Ex0.05) | Clerical person hours per year (Ex0.1) | Total Cost Per Year ${ }^{\text {b }}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 676 | 33.8 | 67.6 | \$90,036.44 |
| 596 | 29.8 | 59.6 | \$79,381.24 |
|  |  |  |  |
|  |  |  |  |
| 56 | 2.8 | 5.6 | \$7,458.64 |
| 56 | 2.8 | 5.6 | \$7,458.64 |
| 56 | 2.8 | 5.6 | \$7,458.64 |
| 56 | 2.8 | 5.6 | \$7,458.64 |
| 112 | 5.6 | 11.2 | \$14,917.28 |
| 2,384 | 119 | 238 | \$317,524.96 |
| 2,384 | 119 | 238 | \$317,524.96 |
|  |  |  |  |
| 6 | 0.3 | 0.6 | \$799.14 |
| 3 | 0.15 | 0.3 | \$399.57 |
| 32 | 1.6 | 3.2 | \$4,262.08 |
| 32 | 1.6 | 3.2 | \$4,262.08 |
| 160 | 8 | 16 | \$21,310.40 |
| 12 | 0.6 | 1.2 | \$1,598.28 |
| 157 | 8 | 16 | \$20,852.23 |
| 320 | 16 | 32 | \$42,620.80 |
|  |  |  |  |
| 1352 | 67.6 | 135 | \$180,072.88 |
|  |  |  |  |
| 9,717 |  |  | \$1,125,397 |
|  |  |  |  |
|  |  |  |  |
| 112 | 5.6 | 11.2 | \$14,917.28 |
| 564 | 28.2 | 56.4 | \$75,119.16 |
|  |  |  |  |
| 448 | 22.4 | 44.8 | \$59,669.12 |
|  |  |  |  |


| Labor Rates |  |
| :--- | ---: |
| Manager | $\$ 141.06$ |
| Technical | $\$ 120.27$ |
| Clerical | $\$ 58.67$ |

2\% of existing area sources
$0.4 \%$ of existing area sources

| 1300 | 65 | 130 | \$173,210.93 |
| :---: | :---: | :---: | :---: |
| 552 | 27.6 | 55.2 | \$73,520.88 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 560 | 28 | 56 | \$74,586.40 |
| 783 | 39 | 78 | \$104,335.72 |
| 488 | 24 | 49 | \$64,954.10 |
| 1951 | 98 | 195 | \$259,816.40 |
|  |  |  |  |
|  |  |  |  |
| 224 | 11.2 | 22.4 | \$29,834.56 |
| 7748 | 387 | 775 | \$1,031,956.12 |
|  |  |  |  |
| 128 | 6.4 | 12.8 | \$17,048.32 |
|  |  |  |  |
|  |  |  |  |
| 1192 | 59.6 | 119 | \$158,762.48 |
| 7152 | 358 | 715 | \$952,574.88 |
| 7152 | 358 | 715 | \$952,574.88 |
|  |  |  |  |
| 163 | 8 | 16 | \$21,651.37 |
| 975 | 49 | 98 | \$129,908.20 |
|  |  |  |  |
| 224 | 11.2 | 22.4 | \$29,834.56 |
| 24 | 1.2 | 2.4 | \$3,196.56 |
| 1626 | 81 | 163 | \$216,513.66 |
| 3836 | 192 | 384 | \$510,879.55 |
| 1626 | 81 | 163 | \$216,513.66 |
| 44,651 |  |  | \$5,171,378.79 |
| 54,400 |  |  | \$6,300,000 |
|  |  |  | \$1,040,000 |
|  |  |  | \$7,340,000 |

$2 \%$ of existing area sources and 3 new
\# response
2,819
hr/response
19.3
ss) during the three-year period of this ICR. We assume that an ıecome subject to new requirements under the rule over the three years rea sources, while 18 of the 28 new major source respondents are newly perform construction or reconstruction and are required to file reports as

1d $\$ 58.67$ for clerical labor. These rates are from the United States ,roup." The rates are from column 1, "Total compensation." The rates
:e respondents that are required to file reports, and 138 new area source j, we assume only major source respondents will need to re-familiarize
s. In addition, we estimate two hours are required to complete each
indary and have facilities subject to control, monitoring, and
3. We assume that $2 \%$ of existing area sources and 3 new area sources
ivity and number of sources are based on estimates from EPA ICR
imated hours per activity and number of sources are based on estimates
dkeeping system.

These sources will take one hour each year to process records of
ı area sources

Table 2: Average Annual EPA Burden and Cost - NESHAP for Oil and Natural Gas Production (4)

| Activity | (A) | (B) | (C) | (D) | (E) |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | EPA personhours per occurrence | No. of occurrences per plant per year | $\begin{aligned} & \text { EPA person- } \\ & \text { hours per } \\ & \text { plant per year } \end{aligned}$ | Plants per year ${ }^{\text {a }}$ | Technical person- hours per year |
|  |  |  | (C=AxB) |  | (E=CxD) |
| Major source |  |  |  |  |  |
| Initial notification ${ }^{\text {c }}$ | 2 | 1 | 2 | 28 | 56 |
| Preconstruction review application ${ }^{\text {c }}$ | 4 | 1 | 4 | 28 | 112 |
| Performance test notification ${ }^{\text {c }}$ | 2 | 1 | 2 | 28 | 56 |
| Compliance status notification ${ }^{\text {c }}$ | 4 | 1 | 4 | 28 | 112 |
| Affirmative Defense and malfunction reports ${ }^{\text {d }}$ | 2 | 2 | 4 | 596 | 2,384 |
| Semiannual periodic reports ${ }^{\text {e }}$ | 2 | 2 | 4 | 596 | 2,384 |
| Area sources |  |  |  |  |  |
| Notification of intent to construct | 2 | 1 | 2 | 3 | 6 |
| Notification of actual startup date | 2 | 1 | 2 | 3 | 6 |
| Notification of intent to conduct performance test ${ }^{f}$ | 2 | 1 | 2 | 16 | 32 |
| Notification of date of CMS performance evaluation | 2 | 1 | 2 | 16 | 32 |
| Notification of compliance status | 4 | 1 | 4 | 16 | 64 |
| Periodic reports - first and subsequent ${ }^{\text {g }}$ | 2 | 1 | 2 | 81 | 163 |
| Affirmative Defense and malfunction reports ${ }^{\text {h }}$ | 2 | 1 | 2 | 16 | 32 |
| TOTAL (rounded) ${ }^{\text {i }}$ |  |  |  |  |  |

## Assumptions:

${ }^{\text {a }}$ We assume that on average there are 4,6698 existing sources (596 existing major sources and 3,914 existing area sources) dul that an additional 169 new respondents ( 28 new major source respondents and 141 new area source respondents) per year will $t$ over the three years of this ICR due to new construction. We assume that all 141 of the new area source respondents are newly major source respondents are newly constructed (greenfield) major sources. The remaining 10 new major source respondents at or reconstruction and are required to file reports as though they were new major source respondents.
b This ICR uses the following labor rates: $\$ 66.62$ for managerial, $\$ 49.44$ for technical, and $\$ 26.75$ for clerical labor. These ri (OPM), 2019 General Schedule, which excludes locality rates of pay. The rates have been increased by 60 percent to account $f$ employees.
c We have assumed that this is a one-time only activity for each facility.
${ }^{\text {d }}$ We have assumed that affirmative defense and malfunction reports may be included as part of the semiannual periodic report
${ }^{e}$ We have assumed that each respondent will take two hours two times per year to complete the semiannual periodic reports.
${ }^{f}$ We have assumed that each of the respondents will take two hours once per year to complete requirements.
${ }^{\mathrm{g}}$ We assume that $2 \%$ of existing area sources and 3 new area sources will complete this activity.
${ }^{\text {h }}$ We have assumed that it will take two hours once per year to review reports.
${ }^{i}$ Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

## ) CFR Part 63, Subpart HH) (Renewal)

| (F) | (G) | (H) |
| :---: | :---: | :---: |
| Management person-hours per year | Clerical person-hours per year | Cost, \$ ${ }^{\text {b }}$ |
| (Ex0.05) | (Ex0.1) |  |
| 2.8 | 5.6 | \$3,104.98 |
| 5.6 | 11.2 | \$6,209.95 |
| 2.8 | 5.6 | \$3,104.98 |
| 5.6 | 11.2 | \$6,209.95 |
| 119.2 | 238.4 | \$132,183.26 |
| 119.2 | 238.4 | \$132,183.26 |
| 0.3 | 0.6 | \$332.68 |
| 0.3 | 0.6 | \$332.68 |
| 1.6 | 3.2 | \$1,774.27 |
| 1.6 | 3.2 | \$1,774.27 |
| 3.2 | 6.4 | \$3,548.54 |
| 8.1 | 16 | \$9,013.30 |
| 1.6 | 3.2 | \$1,774.27 |
| 6,250 |  | \$302,000 |


| Labor Rates |  |
| :--- | ---: |
| Manager | $\$ 66.62$ |
| Technical | $\$ 49.44$ |
| Clerical | $\$ 26.75$ |

ring the three-year period of this ICR. We assume jecome subject to new requirements under the rule constructed area sources, while 18 of the 28 new ee existing major sources that perform construction
ates are from the Office of Personnel Management or the benefit packages available to government

| Number of Respondents |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | (A) |  | (B) | (C) | (D) |
| Number of New Respondents ${ }^{1,2}$ |  |  |  |  |  | \(\left.\begin{array}{c}Number of Existing <br>

Respondents{ }^{3}\end{array} $$
\begin{array}{c}\text { Number of Existing } \\
\text { Respondents that keep } \\
\text { records but do not } \\
\text { submit reports }{ }^{3,4}\end{array}
$$ $$
\begin{array}{c}\text { Number of Existing } \\
\text { Respondents That } \\
\text { Are Also New } \\
\text { Respondents }{ }^{5}\end{array}
$$\right]\)

ICR 1788.10

| 1 | 28 | 3 | 138 | 470 | 2,927 | 2,868 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | 28 | 3 | 138 | 488 | 3,068 | 3,007 | 10 |
| 3 | 28 | 3 | 138 | 506 | 3,209 | 3,145 | 10 |
| Average | 28 | 3 | 138 | 488 | 3,068 | 3,007 | 10 |

ICR 1788.11

| 1 | 28 | 3 | 138 | 524 | 3,350 | 3,283 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | 28 | 3 | 138 | 542 | 3,491 | 3,421 | 10 |
| 3 | 28 | 3 | 138 | 560 | 3,632 | 3,559 | 10 |
| Average | 28 | 3 | 138 | 542 | 3,491 | 3,421 | 10 |

ICR 1788.12

| 1 | 28 | 3 | 138 | 578 | 3,773 | 3,698 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | 28 | 3 | 138 | 596 | 3,914 | 3,836 | 10 |
| 3 | 28 | 3 | 138 | 614 | 4,055 | 3,974 | 10 |
| Average | 28 | 3 | 138 | 596 | 3,914 | 3,836 | 10 |

${ }^{1}$ New respondents include sources with constructed or reconstructed affected facilities.
${ }^{2}$ We assume that there are 141 new area source respondents and 28 new major source respondents.
${ }^{3}$ All major sources and 2 percent of area sources will maintain records and submit reports.
${ }^{4}$ We assume that 98 percent of area sources will only be required to maintain records.
${ }^{5}$ We estimate 10 of the 28 new major source respondents are existing respondents that become new respondents due to con reconstruction, while 18 of the 28 new major source respondents are new facilities. Of the 10 existing respondents that becc source respondents due to construction/reconstruction, we assume that all 10 of these existing respondents are already exist:


| 3,556 |
| :--- |
| 3,715 |
| 3,874 |
| 3,715 |


| 4,033 |
| :--- |
| 4,192 |
| 4,351 |
| 4,192 |


| 4,510 |
| :--- |
| 4,669 |
| 4,828 |
| 4,669 |


#### Abstract

Correction to the 'Number of Existing Respondents That Are Also New Respondents': 1. ICR 1788.10 combined burden associated with the original rule, ICR 1788.09 , and bc 2440.02. However, 1788.10 , and subsequently 1788.11 , did not subtract out the value double counting of the number of new major sources in Column E. That is corrected hi 2. The number of major sources subject to Subpart HH for 2018 in ECHO is 559, theref sources from prior 1788.11 in year 3 is overestimated. To determine the growth rate $f_{i}$ assumed 559 sources in $2018-470$ sources in $2014=(559-470) / 5$ years $=\sim 18$ new sou have retained the total number of new major sources(Column A), however, the estima Existing Respondents That Are Also New Respondents' due to new contruction/modifi revised from 25 to 10 . This revision appears to more accurately reflect the growth rat (greenfield) major sources. This is QAed below (yellow highlight).


If there are 28 new major source respondents and 141 new area source respondents $\epsilon$ respondents come from existing sources (major), then the increase in the total 'Numb should be $(28+3+138)-10=159$.

Note to EPA: Data downloaded from ECHO in May 2019 (2018 data) indicates that the subject to Subpart HH. Assuming that year 2 of ICR 1788.11 (issued in July 2016 with a represents 2018 data, then the number of major sources shown for year 2 of the curre close to 559 . Total is $542+28-10=560$.
$4510 \quad 169$
istruction or me new major ing major sources.
irden for the amendment, ICR $s$ in Column D, leading to a ere.
ore, the total number of major or new major sources, we rces per year. Therefore, we ited value of the 'Number of cation (Column D) has been ? of the industry for new
?ach year, and if 10 of the new er of Respondents' each year
re are 559 major sources renewal due in 2019) also ?nt ICR (1788.11) should be

| Total Annual Responses |  |  |  |
| :---: | :---: | :---: | :---: |
| (A) | (B) | (C) | (D) |
| Information Collection Activity | Number of Respondents | Number of Responses | Number of Existing Respondents That Keep Records But Do Not Submit Reports |
| Major sources |  |  |  |
| Notification of construction/reconstruction | 28 | 1 | 0 |
| Notification of actual startup | 28 | 1 | 0 |
| Notification of date of CMS performance evaluation | 28 | 1 | 0 |
| Notification of date of performance test | 28 | 1 | 0 |
| Notification of compliance status report | 28 | 1 | 0 |
| Affirmative defense and malfunction reports | 596 | 2 | 0 |
| Semiannual periodic report | 596 | 2 | 0 |
| Area sources |  |  |  |
| Notification of intent to construct | 3 | 1 | 0 |
| Notification of actual startup date | 3 | 1 | 0 |
| Notification of intent to conduct performance test | 16 | 1 | 0 |
| Notification of date of CMS performance evaluation | 16 | 1 | 0 |
| Notification of compliance status | 16 | 1 | 0 |
| First periodic report | 3 | 1 | 0 |
| Subsequent periodic reports | 78 | 1 | 0 |
| Affirmative defense and malfunction reports | 16 | 10 | 0 |
|  |  |  | Total |


| (E) |
| :---: |
| Total Annual Responses <br> E=(BxC)+D |
| 28 |
| 28 |
| 28 |
| 28 |
| 28 |
| 1,192 |
| 1,192 |
| 3 |
| 3 |
| 16 |
| 16 |
| 16 |
| 3 |
| 180 |
| 2,819 |


| Capital/Startup vs. Operation and Maintenance (O\&M) 1 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| (A) | (B) | (C) | (D) | (E) |
| Continuous Monitoring Device | Capital/Startup Cost for One Respondent | Number of New Respondents | Total Capital/Startup Cost, (B X C) | Annual O\&M Costs for One Respondent |
| THC analyzer (major source) ${ }^{\text {a }}$ | \$10,200 | 28 | \$285,600 | \$1,020 |
| Monitoring equipment (CMS) ${ }^{b, c}$ | \$1,015 | 31 | \$31,465 | \$134 |
| Postage cost ${ }^{\text {d }}$ | NA | 0 | \$0 | \$7.63 |
| Total ${ }^{\text {e }}$ |  |  | \$317,000 |  |

a. Cost information for THC analyzer is from the EPA Air Pollution Control Cost Manual, January 2002, "Ta Equipment Costs for CEMS (\$)." EPA assumes all major sources utilize an organic monitoring device to mea compounds in the exhaust vent system. EPA estimates the cost for a TOC/HAP monitor based on the cost of a
b. We assume that all new major sources (28) and 2 percent of new area sources (3) are required to purchase $C$ c. We assume the average number of existing major sources (596), $2 \%$ of existing area sources (78), and 3 ne with CMS.
d. We estimate an average of 2,819 responses (reports).
e. Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

Costs

| (F) | (G) |
| :---: | :---: |
| Number of <br> Respondents with <br> O\&M | Total O\&M, <br> (E X F) |
| 596 | $\$ 607,920$ |
| 677 | $\$ 90,718$ |
| 2,819 | $\$ 21,511$ |
|  | $\$ 720,000$ |

ible 4.12: Default Analyzer and Monitor sure the concentration level of organic a total hydrocarbon (THC) analyzer.

JMS per year.
w area sources have O\&M costs associated

Total Capital and O\&M
\$1,040,000

