

**SUPPORTING STATEMENT  
ENVIRONMENTAL PROTECTION AGENCY**

**Risk and Technology Review of the National Emission Standards for Hazardous Air  
Pollutants for Miscellaneous Organic Chemical Manufacturing**

**1. IDENTIFICATION OF THE INFORMATION COLLECTION**

**1(a) Title of the Information Collection**

Risk and Technology Review of the National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Manufacturing (40 CFR part 63, subpart FFFF), EPA ICR Number 1969.09, OMB Control Number 2060-0533.

**1(b) Short Characterization/Abstract**

This supporting statement addresses information collection activities that will be imposed by amendments to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Organic Chemical Manufacturing (MON), 40 CFR part 63, subpart FFFF. The current MON was promulgated on July 14, 2006.

As part of the residual risk and technology reviews for the NESHAP, the Environmental Protection Agency (EPA) is revising requirements for equipment leaks and heat exchange systems, and also adding requirements to specifically address ethylene oxide emissions from storage tanks, process vents, and equipment leaks. The EPA is also finalizing amendments to correct and clarify regulatory provisions related to emissions during periods of startup, shutdown, and malfunction (SSM); add requirements for electronic reporting of performance test results and reports, performance evaluation reports, and compliance reports; add operational requirements for flares used to control emissions from miscellaneous organic chemical manufacturing process units that produce olefins or polyolefins and for flares controlling ethylene oxide emissions, including operational and monitoring requirements to allow the use of pressure-assisted multi-point flares; add work practice standards and monitoring requirements for pressure relief device (PRD) releases; add requirements for storage tank degassing; and add requirements and clarifications for vent control bypasses, including bypass lines, in situ sampling systems, maintenance activities, and certain gaseous streams routed to a fuel gas system. This information collection request documents the recordkeeping and reporting requirements and burden imposed only by these amendments.

In general, all NESHAP standards require initial notifications, performance tests, and periodic reports by the owners/operators of the affected facilities. These notifications, reports, and records are essential in determining compliance and are required of all affected facilities subject to NESHAP. This information collection request (ICR) includes the burden for all activities that will be conducted in the first three years following promulgation of the amendments to the MON. These activities include reading the rule, installing and maintaining monitors, and completing the recordkeeping and reporting requirements.

Any owner/operator subject to the provisions of this part shall maintain a file of these notifications, reports, and records, and retain the file for at least five years. All reports are sent to the delegated state or local authority. In the event there is no such delegated authority, the reports are sent directly to the EPA regional office. The use of the term "Designated Administrator" throughout this document refers to the U.S. EPA or a delegated authority such as a state agency. The term "Administrator" alone refers to the U.S. EPA Administrator.

Over the next three years, 201 MON facilities will be subject to this standard, and the total labor, capital, and operations and maintenance costs imposed by the amendments will be approximately \$3.6 million per year for the first 3 years after the amendments are finalized. The burden to the respondents from each facility is shown in Tables 1 through 4 in Attachment 1.

The total average annual cost to the Designated Administrator during the 3 years of the ICR is estimated to be \$112,000 per year. This burden includes labor costs for the Federal EPA and state and local authorities to implement the requirements in the NESHAP after the amendments are finalized. This burden is shown in Tables 5 through 8 of Attachment 2.

## **2. Need for and Use of the Collection**

### **2(a) Need/Authority for the Collection**

The EPA is charged under CAA Section 112, as amended, to establish standards of performance for each category or subcategory of major sources and area sources of hazardous air pollutants (HAP). These standards are applicable to new or existing sources of HAP and require the maximum degree of emission reduction. In addition, CAA section 114(a) states that the Administrator may require any owner/operator subject to any requirement of this Act to:

- (A) Establish and maintain such records;
- (B) make such reports;
- (C) install, use, and maintain such monitoring equipment, and use such audit procedures, or methods;
- (D) sample such emissions (in accordance with such procedures or methods, at such locations, at such intervals, during such periods, and in such manner as the Administrator shall prescribe);
- (E) keep records on control equipment parameters, production variables or other indirect data when direct monitoring of emissions is impractical;
- (F) submit compliance certifications in accordance with Section 114(a)(3);
- and (G) provide such other information as the Administrator may reasonably require.

In the Administrator's judgment, HAP emissions from miscellaneous organic chemical manufacturing facilities cause or contribute to air pollution that may reasonably be anticipated to endanger public health or welfare. Therefore, the NESHAP were promulgated for major sources in this source category at 40 CFR part 63, subparts FFFF.

## **2(b) Practical Utility/Users of the Data**

The recordkeeping and reporting information will be used by Designated Administrators to ensure compliance with the applicable regulations, which were promulgated in accordance with the Clean Air Act. The collected information is also used for targeting inspections and as evidence in legal proceedings.

Performance tests are required in order to determine an affected facility's initial capability to comply with the emission standard. Continuous emission monitors, along with the other required monitors, are used to ensure compliance with the standards at all times.

The required notifications are used to inform the Designated Administrator when a source becomes subject to the requirement of the regulations. The reviewing authority may then inspect the source to ensure that monitors are properly installed and operated and the standards are being met.

The required semiannual reports and records are used to determine periods of excess emissions, identify problems at the facility, verify operation and maintenance procedures, and determine compliance.

## **3. Nonduplication, Consultations, and Other Collection Criteria**

The requested recordkeeping and reporting will be required under 40 CFR part 63, subpart FFFF.

### **3(a) Nonduplication**

If the subject standards have not been delegated, the information is sent directly to the appropriate EPA regional office. Otherwise, the information is sent directly to the delegated state or local agency. If a state or local agency has adopted its own similar standards to implement the Federal standards, a copy of the report submitted to the state or local agency can be sent to the Administrator in lieu of the report required by the Federal standards. Therefore, no duplication exists.

### **3(b) Public notice prior to ICR submission to OMB**

A public notice and solicitation of public comment on this collection was provided in the Federal Register notice of the proposed rulemaking published for the MON. No public comments pertaining to this ICR were received.

### **3(c) Consultations**

The public was provided the opportunity to review and comment on the burden estimated in this Information Collection Request during the comment period for the proposed rulemaking.

### **3(d) Effects of Less Frequent Data Collection**

The MON requires continuous monitoring and semiannual compliance reports. These periodic reports are essential to enforcement of the standards and detection of violations. The ongoing recordkeeping requirements also ensure that monitoring equipment is properly maintained and enhances the reliability of the data that is gathered for this collection.

### **3(e) General Guidelines**

These reporting or recordkeeping requirements do not violate any of the regulations promulgated by OMB under 5 CFR part 1320, section 1320.5.

The MON requires owners or operators of facilities to keep and maintain records for a period of five years. The title V permit programs also require records to be retained for five years. These records must be kept on file for use, if needed, by the regulating authority to ensure that the plant personnel are operating and maintaining control equipment properly.

### **3(f) Confidentiality**

All information submitted to the Agency for which a claim of confidentiality is made will be safeguarded according to the Agency policies set forth in 40 CFR 2, subpart B -- Confidentiality of Business Information (see 40 CFR 2; 41 FR 36902, September 1, 1976, amended by 43 FR 39999, September 28, 1978; 43 FR 42251, September 28, 1978; 44 FR 17674, March 23, 1979).

### **3(g) Sensitive Questions**

The reporting or recordkeeping requirements in the standard do not include sensitive questions.

## **4. THE RESPONDENTS AND THE INFORMATION REQUESTED**

### **4(a) Respondents/NAICS Codes**

The respondents to the recordkeeping and reporting requirements are miscellaneous organic chemical manufacturers. The United States Standard Industrial Classification (SIC) codes for the respondents affected by the standards and the corresponding North American Industry Classification System (NAICS) codes are listed in the table below.

<b>Standard (40 CFR Part 63, Subpart FFFF)</b>	<b>SIC Codes</b>	<b>NAICS Codes</b>
Resin, Synthetic Rubber, and Artificial Synthetic Fibers and Filaments Manufacturing	2821, 2822, 2823, 2824	3252
Pharmaceutical and Medicine Manufacturing	2833, 283, 2835, 2836	3254
Soap, Cleaning Compound, and Toilet	28,41, 2842, 2843,	3256

<b>Standard (40 CFR Part 63, Subpart FFFF)</b>	<b>SIC Codes</b>	<b>NAICS Codes</b>
Preparation Manufacturing	2844	
Paint, Coating, and Adhesive Manufacturing	2851, 2891	3255
Basic Chemical Manufacturing (Does not include 325131-Inorganic Dye and Pigment Manufacturing or 325181- Alkalis and Chlorine Manufacturing)	2861, 2865, 2869	3251
Pesticide, Fertilizer, and Other Agricultural Chemical Manufacturing	2873, 2874, 2875, 2879	3253
Other Chemical Product and Preparation Manufacturing	2892, 2893	3259

#### **4(b) Information Requested**

##### **(i) Data Items**

In this ICR, all data that are recorded or reported is required by the MON (40 CFR, part 63, subpart FFFF). The tables below reflect the final amendments.

A source must make the following reports:

<b>Notifications/Reports</b>	
Notification of performance test and results	63.2520(f)
Notification of compliance status (for flares, PRDs, process vents, storage tanks, and equipment leaks)	63.2520(d)
Periodic reports (for flares, PRDs, process vents, storage tanks, equipment leaks, heat exchangers, bypass lines, and maintenance vents)	63.2520(e)

A source must keep the following records:

<b>Recordkeeping</b>	
Each notification and report	Table 12 to Subpart FFFF of Part 63 (63.10 in General Provisions)
Performance tests	Table 12 to Subpart FFFF of Part 63 (63.10 in General Provisions)
Records (for storage tank degassing, flares, PRDs, process vents, storage tanks, heat exchangers, bypass lines, and maintenance vents)	63.2470(f), 63.2525(m)-(r)

##### Electronic Reporting

Some of the respondents are using monitoring equipment that automatically records

parameter data. Although personnel at the affected facility must still evaluate the data, internal automation has significantly reduced the burden associated with monitoring and recordkeeping at a plant site.

**(ii) Respondent Activities**

<b>Respondent Activities</b>
Read instructions.
Acquire, install, and operate monitoring devices for flares, PRDs, heat exchangers, and storage tanks (scrubbers).
Develop a flare management plan and maintenance vent opening procedures.
Conduct performance tests, if applicable.
Adjust the existing ways to comply with any previously applicable instruction and requirements.
Write the notifications and reports listed above.
Enter information required to be recorded above.
Submit the required reports developing, acquiring, installing, and utilizing technology and systems for the purpose of collecting, validating, and verifying information.
Develop, acquire, install, and utilize technology and systems for the purpose of processing and maintaining information.
Develop, acquire, install, and utilize technology and systems for the purpose of disclosing and providing information.
Train personnel to be able to respond to a collection of information.
Transmit, or otherwise disclose the information.

**5. THE INFORMATION COLLECTED -- AGENCY ACTIVITIES, COLLECTION, METHODOLOGY, AND INFORMATION MANAGEMENT**

**5(a) Agency Activities**

EPA conducts the following activities in connection with the acquisition, analysis, storage, and distribution of the required information.

<b>Agency Activities</b>
Review notifications and reports, including performance test reports, and excess emissions reports, required to be submitted by industry.
Audit facility records.
Input, analyze, and maintain data in Enforcement and Compliance History Online (ECHO) and Integrated Compliance Information System (ICIS).

## **5(b) Collection Methodology and Management**

Data and records maintained by the respondents are tabulated and published for use in compliance and enforcement programs. The semiannual reports are used for problem identification, as a check on source operation and maintenance, and for compliance determinations.

Information contained in the reports is reported by state and local governments in the ICIS Air database, which is operated and maintained by EPA's Office of Compliance. ICIS is EPA's database for the collection, maintenance, and retrieval of compliance data for industrial and government-owned facilities. EPA uses ICIS for tracking air pollution compliance and enforcement by local and state regulatory agencies, EPA regional offices and EPA headquarters. EPA and its delegated Authorities can edit, store, retrieve and analyze the data.

The records required by this regulation must be retained by the owner/operator for five years.

## **5(c) Small Entity Flexibility**

A majority of the respondents are large entities (i.e., large businesses). However, the impact on small entities (i.e., small businesses) was taken into consideration during the development of the regulation. Due to technical considerations involving the process operations and the types of control equipment employed, the recordkeeping and reporting requirements are the same for both small and large entities. The Agency considers these to be the minimum requirements needed to ensure compliance and, therefore, cannot reduce them further for small entities. To the extent that larger businesses can use economies of scale to reduce their burden, the overall burden will be reduced.

## **5(d) Collection Schedule**

Upon promulgation of the amendments, owners or operators of MON facilities have up to three years to comply with the reporting and recordkeeping requirements associated with the amendments for heat exchange systems, flares, PRDs, bypass lines, storage tank degassing, and maintenance vents. Most facilities are expected to use the full three years to comply with the general MON requirements, but it was assumed that one-third of the facilities would begin complying in year 2 and the remaining facilities in year 3. MON facilities with ethylene oxide emission sources (storage tanks, process vents, and equipment leaks) must be in compliance within two years of the rule's promulgation for these ethylene oxide emission sources and it was assumed that all would comply in year 2. Revised monitoring for MON equipment leaks begins within one year of the rule's promulgation. It is anticipated facilities will read the rule and perform certain one-time activities (e.g., develop a flare management plan) in year 1. The specific frequency for each information collection activity within this request is shown in Tables 1 through 3 of Attachment 1.

## **6. ESTIMATING THE BURDEN AND COST OF THE COLLECTION**

Tables 1 through 4 of Attachment 1 present an itemization of the burden on the respondents subject to this NESHAP for the recordkeeping and reporting requirements in the first three years following promulgation of the amendments to the MON. Tables 5 through 8 of Attachment 2 present a summary of the burden on the Federal EPA and state and local authorities in the first three years following promulgation of the amendments to the MON.

The individual burdens are expressed under standardized headings believed to be consistent with the concept of burden under the Paperwork Reduction Act. Where appropriate, specific tasks and major assumptions have been identified. Responses to this information collection are mandatory.

The agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number.

### **6(a) Estimating Respondent Burden**

The average annual burden to industry over the next three years from these recordkeeping and reporting requirements is estimated to be 12,220 hours. The average annual recordkeeping hours are 4,660 and the reporting requirement hours are 7,560, both of which are shown in Table 4 of Attachment 1. These hours are based on review of background documents in development of the amendments to this NESHAP, Agency knowledge and experience with the NESHAP program, and related ICRs.

### **6(b) Estimating Respondent Costs**

The information collection activities for sources subject to these requirements are presented in Tables 1 through 4 of Attachment 1. The total cost for each respondent activity includes labor costs, capital/startup costs, and operating and maintenance (O&M) costs.

#### **(i) Estimating Labor Costs**

This ICR uses the following labor rates:

Managerial	\$143.56 (\$68.36 + 110%)
Technical	\$104.90 (\$49.95 + 110%)
Clerical	\$43.39 (\$20.66 + 110%)

These rates are from the United States Department of Labor, Bureau of Labor Statistics, May 2016, "National Industry-Specific Occupational Employment and Wage Estimates, NAICS 325000 - Chemical Manufacturing." The rates are from column 8, mean hourly wage. The rates have been increased by 110 percent to account for the benefit packages available to those employed by private industry.

#### **(ii) Estimating Capital/Start-up and Operation and Maintenance Costs**



In addition to the labor costs mentioned above, industry costs associated with the information collection activities in the MON include capital/start-up costs and operation and maintenance costs associated with continuous monitoring. The capital/startup costs are one-time costs when a facility becomes subject to the regulation and include the installation of monitors. The annual operation and maintenance costs are the ongoing costs to maintain the monitors and complete performance evaluations, as well as other costs such as photocopying and postage.

**(iii) Capital/Startup and Operation and Maintenance (O&M) Costs**

Below are the estimated capital and startup costs and O&M costs for the respondents subject to the MON for the first three years after promulgation of the amendments. Note, capital and O&M costs are not applicable for the amendments to equipment leaks, maintenance vents, and bypass lines.

<b>Capital/Startup and O&amp;M Costs (2016\$)</b>						
(A) Unit Type	(B) Capital/Startup Costs for One Respondent	(C) Number of Respondents with Capital/Startup Costs	(D) Total Capital/ Startup Cost (B X C)	(E) Annual Cost (O&M and Capital) for One Respondent	(F) Number of Respondents <sup>a</sup>	(G) Total Annual Cost (Over 3-Yr Period) (E X F)
Flare Monitors	\$810,761	21	\$17,025,981	\$160,133	28	\$4,483,724
PRD Monitor	\$63,150	201	\$12,693,150	\$8,349	268	\$2,237,532
Heat Exchangers - El Paso Method	\$7,379	201	\$1,483,179	\$1,705	268	\$456,940
Ethylene Oxide Process Vents & Storage Tanks - Scrubber Monitor	\$23,200	4	\$92,800	\$4,900	8	\$39,200
Ethylene Oxide Process Vents & Storage Tanks - Scrubber Testing	\$52,665	4	\$210,661	NA	NA	\$0
<b>TOTAL</b>			<b>\$31,505,771</b>			<b>\$7,217,396</b>

a. Within a given year, there are a maximum of 201 respondents per information collection activity, however the values in column F reflect the sum of these respondents for years 2 and 3.

The total capital/startup costs for this ICR are \$31.5 million; this is the total of column D.

The total annual costs for this ICR are \$7.22 million; this is the total of column G. This includes O&M and annualized capital costs.

**6(c) Estimating Agency Burden and Cost**

The costs to the Agency are those costs associated with analysis of the reported information. The Agency’s overall compliance and enforcement program includes activities such as the examination of records maintained by the respondents, periodic inspection of sources of emissions, and the publication and distribution of collected information.

The average annual Agency cost during the three years of the ICR is estimated to be \$112,000.

This cost is based on the average hourly labor rates as follows:

Managerial	\$64.16 (GS-13, Step 5, \$40.10+ 60%)
Technical	\$47.62 (GS-12, Step 1, \$29.76+ 60%)
Clerical	\$25.76 (GS-6, Step 3, \$16.10 + 60%)

These rates are from the Office of Personnel Management (OPM), 2016 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. Details on the line item estimates used to calculate these burdens are presented in Tables 5 through 8 of Attachment 2.

**6(d) Estimating the Respondent Universe and Total Burden and Costs**

The total number of respondents is also referred to as the respondent universe. Based on research conducted for the residual risk and technology reviews of the MON, 201 facilities (of which, 8 facilities have ethylene oxide emission sources) are currently operating and subject to the standards. It was assumed that one-third of the facilities would begin complying with the amendments for heat exchange systems, flares, PRDs, bypass lines, and maintenance vents in year 2 and the remaining two-thirds of the facilities would begin complying in year 3. All 8 facilities with ethylene oxide emission sources would begin complying with the amendments for storage tanks, process vents, and equipment leaks in year 2.

The total number of annual responses is calculated using the following table:

<b>Total Annual Responses</b>				
(A) Information Collection Activity	(B) Number of Respondents	(C) Number of Responses	(D) Number of Existing Respondents That Keep Records But Do Not Submit Reports	(E) Total Annual Responses (Over 3-Yr Period) E=(BxC)+D
<b>Notification of Compliance Status</b>				
Flares	21	1	0	21
PRDs	201	1	0	201
Ethylene Oxide Process Vents & Storage Tanks	4	1	0	4
Equipment Leaks	8	1	0	8
<b>Periodic Reports</b>				
Flares	28	2	0	56
PRDs	268	2	0	536
Maintenance Vents	268	2	0	536
Bypass Lines	268	2	0	536
HEX El Paso Method	268	2	0	536

Ethylene Oxide Process Vents & Storage Tanks	8	2	0	16
Ethylene Oxide Equipment Leaks	16	2	0	32
<b>TOTAL</b>				<b>2,482</b>

The number of total annual responses is 2,482 over the first three years after finalizing the amendments.

**6(e) Bottom Line Burden Hours and Cost Tables**

**(i) The Respondent Tally**

The total annual labor hours for respondents are 36,656 at a cost of \$3.64 million. Furthermore, the annual public reporting and recordkeeping burden for this collection of information is estimated to average 15 hours per response. Details regarding these estimates may be found in Tables 1 through 4 of Attachment 1.

The total annual capital/startup and O&M costs to the regulated entity are \$7.22 million. The cost calculations are detailed in Section 6(b)(iii), Capital/Startup vs. Operation and Maintenance Costs.

**(ii) The Agency Tally**

The average annual burden over the first three years for the Agency is estimated to be 2,393 hours at a cost of \$112,000. The Agency burden hours and costs are presented in Tables 5 through 8 of Attachment 2.

**6(f) Reasons for change in burden**

There is no change in the labor hours or cost in this ICR as it presents the burden based on the amendments to the MON and is considered new burden.

**6(g) Burden Statement**

The annual public reporting and recordkeeping burden for this collection of information is estimated to be 15 hours per response. Burden means total time, effort, or financial resources expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to a collection of information; search data sources; complete and review the collection of information; and transmit or otherwise disclose the information.

An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The OMB Control Numbers for EPA regulations are listed in 40 CFR part 9 and 48 CFR chapter 15.

To comment on the agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including the use of automated collection techniques, the EPA has established a public docket for this ICR under Docket ID Number EPA-HQ-OAR-2018-0746. An electronic version of the public docket is available at <http://www.regulations.gov/> which may be used to obtain a copy of the draft collection of information, submit or view public comments, access the index listing of the contents of the docket, and to access those documents in the public docket that are available electronically. When in the system, select "search," then key in the docket ID number identified in this document. The documents are also available for public viewing at the Enforcement and Compliance Docket and Information Center in the EPA Docket Center (EPA/DC), EPA West, Room 3334, 1301 Constitution Ave., NW, Washington, DC. The EPA Docket Center Public Reading Room is open from 8:30 a.m. to 4:30 p.m., Monday through Friday, excluding legal holidays. The telephone number for the Reading Room is (202) 566-1744, and the telephone number for the docket center is (202) 566-1927. Also, you can send comments to the Office of Information and Regulatory Affairs, Office of Management and Budget, 725 17th Street, NW, Washington, DC 20503, Attention: Desk Officer for EPA. Please include the EPA Docket ID Number EPA-HQ-OAR-2018-0746 and OMB Control Number 2060-0533 in any correspondence.

## **PART B OF THE SUPPORTING STATEMENT**

This section is not applicable because statistical methods are not used in data collection associated with this regulation.

## **ATTACHMENT 1**

### **TABLES 1, 2, 3, and 4**

Tables 1 - 3: Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the MON RTR – Years 1-3

Table 4: Summary of Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the MON RTR

**Table 1 - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the MON RTR - Year 1**

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Non-Labor Costs Per Occurrence	(C) Number of Occurrences Per Respondent Per Year	(D) Technical Hours per Respondent Per Year (A X C)	(E) Number of Respondents Per Year	(F) Technical Hours per Year (D X E)	(G) Clerical Hours per Year (F X 0.1)	(H) Management Hours per Year (F X .05)	(I) Total Hours per Year (F + G + H)	(J) Total Labor Costs Per Year	(K) Total Non- Labor Costs Per Year (B x C x E)	(L) Total Number of Responses per Year (C X E)	Footnotes
1. Applications	NA												
2. Surveys and Studies	NA												
3. Reporting Requirements													
A. Read Rule	24	\$0	1	24	201	4,824	482	241	5,548	\$561,596	\$0	0	a
B. Required Activities													
1. Flare Monitors													b,f
a. Capital Cost	0	\$810,761	1	0	0	0	0	0	0	\$0	\$0	0	
b. Annualized Cost	0	\$160,133	1	0	0	0	0	0	0	\$0	\$0	0	
2. PRD Monitor													f
a. Capital Cost	0	\$63,150	1	0	0	0	0	0	0	\$0	\$0	0	
b. Annualized Cost	0	\$8,349	1	0	0	0	0	0	0	\$0	\$0	0	
3. HEX El Paso Method													f
a. Capital Cost	0	\$7,379	1	0	0	0	0	0	0	\$0	\$0	0	
b. Annualized Cost	0	\$1,705	1	0	0	0	0	0	0	\$0	\$0	0	
4. Ethylene Oxide Process Vents & Storage Tanks - Scrubber Monitor													c,f
a. Capital Cost	0	\$23,200	1	0	0	0	0	0	0	\$0	\$0	0	
b. Annualized Cost	0	\$4,900	1	0	0	0	0	0	0	\$0	\$0	0	
5. Ethylene Oxide Process Vents & Storage Tanks - Scrubber Testing													c,f
a. Initial Testing	0	\$52,665	1	0	0	0	0	0	0	\$0	\$0	0	
b. Re-Testing	0	\$19,151	1	0	0	0	0	0	0	\$0	\$0	0	
C. Create Information	Inc. in 3B												
D. Gather Information	Inc. in 3E												
E. Report Preparation													
1. Notification of Compliance Status													
a. Flares	5	\$0	1	5	0	0	0	0	0	\$0	\$0	0	f
b. PRDs	15	\$0	1	15	0	0	0	0	0	\$0	\$0	0	f
c. Ethylene Oxide Process Vents & Tanks	4	\$0	1	4	0	0	0	0	0	\$0	\$0	0	c
d. Ethylene Oxide Eq. Leaks	4	\$0	1	4	0	0	0	0	0	\$0	\$0	0	c
2. Periodic Report													
a. Flares	5	\$0	2	10	0	0	0	0	0	\$0	\$0	0	f
b. PRDs	10	\$0	2	20	0	0	0	0	0	\$0	\$0	0	f
c. Maintenance Vents	4	\$0	2	8	0	0	0	0	0	\$0	\$0	0	f
d. Bypass Lines	4	\$0	2	8	0	0	0	0	0	\$0	\$0	0	d,f
e. HEX El Paso Method	3	\$0	2	6	0	0	0	0	0	\$0	\$0	0	f
f. Ethylene Oxide Process Vents	4	\$0	2	8	0	0	0	0	0	\$0	\$0	0	c
g. Ethylene Oxide Eq. Leaks	4	\$0	2	8	0	0	0	0	0	\$0	\$0	0	c
<b>Reporting Subtotal</b>						<b>4,824</b>	<b>482</b>	<b>241</b>	<b>5,548</b>	<b>\$561,596</b>	<b>\$0</b>	<b>0</b>	

**Table 1 - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the MON RTR - Year 1**

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Non-Labor Costs Per Occurrence	(C) Number of Occurrences Per Respondent Per Year	(D) Technical Hours per Respondent Per Year (A X C)	(E) Number of Respondents Per Year	(F) Technical Hours per Year (D X E)	(G) Clerical Hours per Year (F X 0.1)	(H) Management Hours per Year (F X .05)	(I) Total Hours per Year (F + G + H)	(J) Total Labor Costs Per Year	(K) Total Non- Labor Costs Per Year (B x C x E)	(L) Total Number of Responses per Year (C X E)	Footnotes
<b>4. Recordkeeping Requirements</b>													
A. Read Instructions	Inc. in 3.A												
B. Implement Activities	NA												
C. Develop Record System	NA												
D. Record information													
1. Flares	0.4	\$0	365	146	0	0	0	0	0	\$0	\$0	0	f
2. PRDs	10	\$0	1	10	0	0	0	0	0	\$0	\$0	0	f
3. HEX El Paso Method	0	\$0	1	0	0	0	0	0	0	\$0	\$0	0	e
4. Maintenance Vents	1	\$0	1	1	0	0	0	0	0	\$0	\$0	0	f
5. Bypass Lines	0	\$0	1	0	0	0	0	0	0	\$0	\$0	0	d
6. Ethylene Oxide Process Vents & Tanks	2	\$0	1	2	0	0	0	0	0	\$0	\$0	0	c
7. Flare Management Plan	75	\$0	1	75	21	1,575	158	79	1,811	\$183,357	\$0	0	a
8. Tank Degassing	3	\$0	1	3	0	0	0	0	0	\$0	\$0	0	
E. Personnel Training	16	\$0	1	16	201	3,216	322	161	3,698	\$374,397	\$0	0	
F. Time for Audits	NA												
<b>Recordkeeping Subtotal</b>						<b>4,791</b>	<b>479</b>	<b>240</b>	<b>5,510</b>	<b>\$557,754</b>	<b>\$0</b>	<b>0</b>	
<b>TOTAL</b>						<b>9,615</b>	<b>962</b>	<b>481</b>	<b>11,057</b>	<b>\$1,119,350</b>	<b>\$0</b>	<b>0</b>	
									Total Hours	Labor	Non-Labor	Total	
Summary of Respondent Burden									11,057	\$1,119,350	\$0	\$1,119,350	
Initial Capital and Startup											\$561,596		
Annualized Capital/Start-up and O & M											\$0		

Footnotes:

- (a) This is a one-time cost (e.g., to read rule or develop plan).
- (b) Includes costs for the following monitoring equipment: H2 analyzer, calorimeter, flare gas flow monitor, steam controls/flow monitor, and air controls/flow monitor.
- (c) Only applicable to facilities with ethylene oxide emissions. Assumed facilities would begin complying in year 2. Note, there are not new monitoring or recordkeeping costs for ethylene oxide equipment leaks (there are only reporting costs), as these activities are already conducted under the original MON requirements.
- (d) Assumed that bypass lines were not used during the 3-year period, so costs for bypass lines would not be incurred.
- (e) Assumed recordkeeping hours are comparable to previously required water methods, and assigned 0 additional hours to implement the El Paso Method.
- (f) Assumed that one-third of the facilities would begin complying in year 2 and the remaining two-thirds of the facilities in year 3.



**Table 2 - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the MON RTR - Year 2**

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Non-Labor Costs Per Occurrence	(C) Number of Occurrences Per Respondent Per Year	(D) Technical Hours per Respondent Per Year (A X C)	(E) Number of Respondents Per Year	(F) Technical Hours per Year (D X E)	(G) Clerical Hours per Year (F X 0.1)	(H) Management Hours per Year (F X .05)	(I) Total Hours per Year (F + G + H)	(J) Total Labor Costs Per Year	(K) Total Non- Labor Costs Per Year (B x C x E)	(L) Total Number of Responses per Year (C X E)	Footnotes
1. Applications	NA												
2. Surveys and Studies	NA												
3. Reporting Requirements													
A. Read Rule	24	\$0	1	24	0	0	0	0	\$0	\$0	0		a
B. Required Activities													
1. Flare Monitors													b,f
a. Capital Cost	0	\$810,761	1	0	7	0	0	0	\$0	\$5,675,327	0		
b. Annualized Cost	0	\$160,133	1	0	7	0	0	0	\$0	\$1,120,931	0		
2. PRD Monitor													f
a. Capital Cost	0	\$63,150	1	0	67	0	0	0	\$0	\$4,231,050	0		
b. Annualized Cost	0	\$8,349	1	0	67	0	0	0	\$0	\$559,383	0		
3. HEX EI Paso Method													f
a. Capital Cost	0	\$7,379	1	0	67	0	0	0	\$0	\$494,393	0		
b. Annualized Cost	0	\$1,705	1	0	67	0	0	0	\$0	\$114,235	0		
4. Ethylene Oxide Process Vents & Storage Tanks - Scrubber Monitor													c,f
a. Capital Cost	0	\$23,200	1	0	4	0	0	0	\$0	\$92,800	0		
b. Annualized Cost	0	\$4,900	1	0	4	0	0	0	\$0	\$19,600	0		
5. Ethylene Oxide Process Vents & Storage Tanks - Scrubber Testing													c,f
a. Initial Testing	0	\$52,665	1	0	4	0	0	0	\$0	\$210,661	0		
b. Re-Testing	0	\$19,151	1	0	0	0	0	0	\$0	\$0	0		
C. Create Information	Inc. in 3B												
D. Gather Information	Inc. in 3E												
E. Report Preparation													
1. Notification of Compliance Status													
a. Flares	5	\$0	1	5	7	35	4	2	40	\$4,075	\$0	7	f
b. PRDs	15	\$0	1	15	67	1005	101	50	1156	\$116,999	\$0	67	f
c. Ethylene Oxide Process Vents & Tanks	4	\$0	1	4	4	16	2	1	18	\$1,863	\$0	4	c
d. Ethylene Oxide Eq. Leaks	4	\$0	1	4	8	32	3	2	37	\$3,725	\$0	8	c
2. Periodic Report													
a. Flares	5	\$0	2	10	7	70	7	4	81	\$8,149	\$0	14	f
b. PRDs	10	\$0	2	20	67	1340	134	67	1541	\$155,999	\$0	134	f
c. Maintenance Vents	4	\$0	2	8	67	536	54	27	616	\$62,400	\$0	134	f
d. Bypass Lines	4	\$0	2	8	67	536	54	27	616	\$62,400	\$0	134	d,f
e. HEX EI Paso Method	3	\$0	2	6	67	402	40	20	462	\$46,800	\$0	134	f
f. Ethylene Oxide Process Vents	4	\$0	2	8	4	32	3	2	37	\$3,725	\$0	8	c
g. Ethylene Oxide Eq. Leaks	4	\$0	2	8	8	64	6	3	74	\$7,451	\$0	16	c
<b>Reporting Subtotal</b>						<b>4,068</b>	<b>407</b>	<b>203</b>	<b>4,678</b>	<b>\$473,586</b>	<b>\$1,814,149</b>	<b>660</b>	

**Table 2 - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the MON RTR - Year 2**

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Non-Labor Costs Per Occurrence	(C) Number of Occurrences Per Respondent Per Year	(D) Technical Hours per Respondent Per Year (A X C)	(E) Number of Respondents Per Year	(F) Technical Hours per Year (D X E)	(G) Clerical Hours per Year (F X 0.1)	(H) Management Hours per Year (F X .05)	(I) Total Hours per Year (F + G + H)	(J) Total Labor Costs Per Year	(K) Total Non- Labor Costs Per Year (B x C x E)	(L) Total Number of Responses per Year (C X E)	Footnotes
<b>4. Recordkeeping Requirements</b>													
A. Read Instructions	Inc. in 3.A												
B. Implement Activities	NA												
C. Develop Record System	NA												
D. Record information													
1. Flares	0.4	\$0	365	146	7	1,022	102	51	1,175	\$118,978	\$0	0	f
2. PRDs	10	\$0	1	10	67	670	67	34	771	\$77,999	\$0	0	f
3. HEX El Paso Method	0	\$0	1	0	67	0	0	0	0	\$0	\$0	0	e
4. Maintenance Vents	1	\$0	1	1	67	67	7	3	77	\$7,800	\$0	0	f
5. Bypass Lines	0	\$0	1	0	67	0	0	0	0	\$0	\$0	0	d
6. Ethylene Oxide Process Vents & Tanks	2	\$0	1	2	4	8	1	0	9	\$931	\$0	0	c
7. Flare Management Plan	75	\$0	3	225	0	0	0	0	0	\$0	\$0	0	a
8. Tank Degassing	3	\$0	1	3	0	0	0	0	0	\$0	\$0	0	
E. Personnel Training	16	\$0	1	16		0	0	0	0	\$0	\$0	0	
F. Time for Audits	NA												
<b>Recordkeeping Subtotal</b>						<b>1,767</b>	<b>177</b>	<b>88</b>	<b>2,032</b>	<b>\$205,708</b>	<b>\$0</b>	<b>0</b>	
<b>TOTAL</b>						<b>5,835</b>	<b>584</b>	<b>292</b>	<b>6,710</b>	<b>\$679,294</b>	<b>\$1,814,149</b>	<b>660</b>	
									Total Hours	Labor	Non-Labor	Total	
Summary of Respondent Burden									6,710	\$679,294	\$1,814,149	\$2,493,443	
Initial Capital and Startup											\$10,704,231		
Annualized Capital/Start-up and O & M											\$1,814,149		

Footnotes:

- (a) This is a one-time cost (e.g., to read rule or develop plan).
- (b) Includes costs for the following monitoring equipment: H2 analyzer, calorimeter, flare gas flow monitor, steam controls/flow monitor, and air controls/flow monitor.
- (c) Only applicable to facilities with ethylene oxide emissions. Assumed facilities would begin complying in year 2. Note, there are not new monitoring or recordkeeping costs for ethylene oxide equipment leaks (there are only reporting costs), as these activities are already conducted under the original MON requirements.
- (d) Assumed that bypass lines were not used during the 3-year period, so costs for bypass lines would not be incurred.
- (e) Assumed recordkeeping hours are comparable to previously required water methods, and assigned 0 additional hours to implement the El Paso Method.
- (f) Assumed that one-third of the facilities would begin complying in year 2 and the remaining two-thirds of the facilities in year 3.

**Table 3 - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the MON RTR - Year 3**

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Non-Labor Costs Per Occurrence	(C) Number of Occurrences Per Respondent Per Year	(D) Technical Hours per Respondent Per Year (A X C)	(E) Number of Respondents Per Year	(F) Technical Hours per Year (D X E)	(G) Clerical Hours per Year (F X 0.1)	(H) Management Hours per Year (F X .05)	(I) Total Hours per Year (F + G + H)	(J) Total Labor Costs Per Year	(K) Total Non- Labor Costs Per Year (B x C x E)	(L) Total Number of Responses per Year (C X E)	Footnotes
1. Applications	NA												
2. Surveys and Studies	NA												
3. Reporting Requirements													
A. Read Rule	24	\$0	1	24	0	0	0	0	\$0	\$0	0		a
B. Required Activities													
1. Flare Monitors													b,f
a. Capital Cost	0	\$810,761	1	0	14	0	0	0	\$0	\$11,350,654	0		
b. Annualized Cost	0	\$160,133	1	0	21	0	0	0	\$0	\$3,362,793	0		
2. PRD Monitor													f
a. Capital Cost	0	\$63,150	1	0	134	0	0	0	\$0	\$8,462,100	0		
b. Annualized Cost	0	\$8,349	1	0	201	0	0	0	\$0	\$1,678,149	0		
3. HEX El Paso Method													f
a. Capital Cost	0	\$7,379	1	0	134	0	0	0	\$0	\$988,786	0		
b. Annualized Cost	0	\$1,705	1	0	201	0	0	0	\$0	\$342,705	0		
4. Ethylene Oxide Process Vents & Storage Tanks - Scrubber Monitor													c,f
a. Capital Cost	0	\$23,200	1	0	0	0	0	0	\$0	\$0	0		
b. Annualized Cost	0	\$4,900	1	0	4	0	0	0	\$0	\$19,600	0		
5. Ethylene Oxide Process Vents & Storage Tanks - Scrubber Testing													c,f
a. Initial Testing	0	\$52,665	1	0	0	0	0	0	\$0	\$0	0		
b. Re-Testing	0	\$19,151	1	0	0	0	0	0	\$0	\$0	0		
C. Create Information	Inc. in 3B												
D. Gather Information	Inc. in 3E												
E. Report Preparation													
1. Notification of Compliance Status													
a. Flares	5	\$0	1	5	14	70	7	4	81	\$8,149	\$0	14	f
b. PRDs	15	\$0	1	15	134	2010	201	101	2312	\$233,998	\$0	134	f
c. Ethylene Oxide Process Vents & Tanks	4	\$0	1	4	0	0	0	0	0	\$0	\$0	0	c
d. Ethylene Oxide Eq. Leaks	4	\$0	1	4	0	0	0	0	0	\$0	\$0	0	c
2. Periodic Report													
a. Flares	5	\$0	2	10	21	210	21	11	242	\$24,448	\$0	42	f
b. PRDs	10	\$0	2	20	201	4020	402	201	4623	\$467,996	\$0	402	f
c. Maintenance Vents	4	\$0	2	8	201	1608	161	80	1849	\$187,199	\$0	402	f
d. Bypass Lines	4	\$0	2	8	201	1608	161	80	1849	\$187,199	\$0	402	d,f
e. HEX El Paso Method	3	\$0	2	6	201	1206	121	60	1387	\$140,399	\$0	402	f
f. Ethylene Oxide Process Vents	4	\$0	2	8	4	32	3	2	37	\$3,725	\$0	8	c
g. Ethylene Oxide Eq. Leaks	4	\$0	2	8	8	64	6	3	74	\$7,451	\$0	16	c
<b>Reporting Subtotal</b>						<b>10,828</b>	<b>1,083</b>	<b>541</b>	<b>12,452</b>	<b>\$1,260,564</b>	<b>\$5,403,247</b>	<b>1,822</b>	

**Table 3 - Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the MON RTR - Year 3**

Burden Item	(A) Respondent Hours per Occurrence (Technical hours)	(B) Non-Labor Costs Per Occurrence	(C) Number of Occurrences Per Respondent Per Year	(D) Technical Hours per Respondent Per Year (A X C)	(E) Number of Respondents Per Year	(F) Technical Hours per Year (D X E)	(G) Clerical Hours per Year (F X 0.1)	(H) Management Hours per Year (F X .05)	(I) Total Hours per Year (F + G + H)	(J) Total Labor Costs Per Year	(K) Total Non- Labor Costs Per Year (B x C x E)	(L) Total Number of Responses per Year (C X E)	Footnotes	
<b>4. Recordkeeping Requirements</b>														
A. Read Instructions	Inc. in 3.A													
B. Implement Activities	NA													
C. Develop Record System	NA													
D. Record information														
1. Flares	0.4	\$0	365	146	21	3,066	307	153	3,526	\$356,935	\$0	0	f	
2. PRDs	10	\$0	1	10	201	2,010	201	101	2,312	\$233,998	\$0	0	f	
3. HEX El Paso Method	0	\$0	1	0	201	0	0	0	0	\$0	\$0	0	e	
4. Maintenance Vents	1	\$0	1	1	201	201	20	10	231	\$23,400	\$0	0	f	
5. Bypass Lines	0	\$0	1	0	201	0	0	0	0	\$0	\$0	0	d	
6. Ethylene Oxide Process Vents & Tanks	2	\$0	1	2	4	8	1	0	9	\$931	\$0	0	c	
7. Flare Management Plan	75	\$0	3	225	0	0	0	0	0	\$0	\$0	0	a	
8. Tank Degassing	3	\$0	1	3	104	312	31	16	359	\$36,322	\$0	0		
E. Personnel Training	16	\$0	1	16		0	0	0	0	\$0	\$0	0		
F. Time for Audits	NA													
<b>Recordkeeping Subtotal</b>						<b>5,597</b>	<b>560</b>	<b>280</b>	<b>6,437</b>	<b>\$651,586</b>	<b>\$0</b>	<b>0</b>		
<b>TOTAL</b>						<b>16,425</b>	<b>1,643</b>	<b>821</b>	<b>18,889</b>	<b>\$1,912,150</b>	<b>\$5,403,247</b>	<b>1822</b>		
								Total Hours	Labor	Non-Labor	Total			
								Summary of Respondent Burden	18,889	\$1,912,150	\$5,403,247	\$7,315,397		
										Initial Capital and Startup	\$20,801,540			
										Annualized Capital/Start-up and O & M	\$5,403,247			

Footnotes:

- (a) This is a one-time cost (e.g., to read rule or develop plan).
- (b) Includes costs for the following monitoring equipment: H2 analyzer, calorimeter, flare gas flow monitor, steam controls/flow monitor, and air controls/flow monitor.
- (c) Only applicable to facilities with ethylene oxide emissions. Assumed facilities would begin complying in year 2. Note, there are not new monitoring or recordkeeping costs for ethylene oxide equipment leaks (there are only reporting costs), as these activities are already conducted under the original MON requirements.
- (d) Assumed that bypass lines were not used during the 3-year period, so costs for bypass lines would not be incurred.
- (e) Assumed recordkeeping hours are comparable to previously required water methods, and assigned 0 additional hours to implement the El Paso Method.
- (f) Assumed that one-third of the facilities would begin complying in year 2 and the remaining two-thirds of the facilities in year 3.

**Table 4 - Summary of Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the MON RTR**

Year	Technical Hours	Clerical Hours	Management Hours	Total Labor Hours	Labor Costs	Non-Labor (Annualized Capital/Startup and O&M) Costs	Total Costs
1	9,615	962	481	11,057	\$1,119,350	\$0	\$1,119,350
2	5,835	584	292	6,710	\$679,294	\$1,814,149	\$2,493,443
3	16,425	1,643	821	18,889	\$1,912,150	\$5,403,247	\$7,315,397
Total	31,875	3,188	1,594	36,656	\$3,710,794	\$7,217,396	\$10,928,190
Average	10,625	1,063	531	12,219	\$1,236,931	\$2,405,799	\$3,642,730
Year	Number of Respondents	Number of Responses	Reporting Hours	Recordkeeping Hours	Total Hours	Hours per Response	Hours Per Respondent
1	201	0	5,548	5,510	11,057	#DIV/0!	2,764
2	201	660	4,678	2,032	6,710	10	1,678
3	201	1,822	12,452	6,437	18,889	10	4,722
Total	31	2,482	22,678	13,978	36,656	15	9,164
Average	31	827	7,559	4,659	12,219	15	3,055

## **ATTACHMENT 2**

### **TABLES 5, 6, 7, and 8**

Tables 5 - 7: Annual Agency Burden and Cost of Recordkeeping and Reporting Requirements for the MON RTR - Year 1-3

Table 8: Summary of Annual Agency Burden and Cost of Recordkeeping and Reporting Requirements for the MON RTR

**Table 5 - Annual Agency Burden and Cost of Recordkeeping and Reporting Requirements for the MON RTR - Year 1**

Burden Item	(A) Number of Occurrences Per Year	(B) Technical Hours Per Occurrence	(C) Tech Hours Per Year (C=A x B)	(D) Management Hours Per Year (D = C x 0.05)	(E) Clerical Hours Per Year (E = C x 0.1)	(F) Total Hours Per Year (C+D+E)	(G) Total Cost Per Year	Footnotes
1. Applications	not applicable							
2. Read and Understand Rule Requirements	45	24	1080	54	108	1242	\$57,672	a
3. Required Activities								
A. Observe stack tests	0	16	0	0	0	0	\$0	
B. Excess emissions -- Enforcement Activities	0	24	0	0	0	0	\$0	
C. Create Information	not applicable							
D. Gather Information	not applicable							
E. Report Reviews								
1. Review notification of compliance status								
a. Flares	0	2	0	0	0	0	\$0	
b. PRDs	0	2	0	0	0	0	\$0	
c. Process Vents & Tanks	0	2	0	0	0	0	\$0	
d. Eq. Leaks	0	2	0	0	0	0	\$0	
2. Review periodic reports								
a. Flares	0	2	0	0	0	0	\$0	
b. PRDs	0	2	0	0	0	0	\$0	
c. Maintenance Vents	0	2	0	0	0	0	\$0	
d. Bypass Lines	0	2	0	0	0	0	\$0	
e. HEX El Paso Method	0	2	0	0	0	0	\$0	
f. Process Vents & Tanks	0	2	0	0	0	0	\$0	
g. Eq. Leaks	0	2	0	0	0	0	\$0	
3. Review flare management plan	21	5	105	5	11	121	\$5,607	
F. Prepare annual summary report	1	10	10	1	1	12	\$534	
4. Travel expenses: (1 person * 30 hours per year / 8 hours per day * \$75 per diem) + (\$600 per round trip) =				\$0	per trip		\$0	
<b>TOTAL</b>			1195	60	120	1374	\$63,813	

Footnotes:

a Number of occurrences is the number of states and EPA Regions with affected sources (35 states + 10 EPA regions = 45 respondents).

**Table 6 - Annual Agency Burden and Cost of Recordkeeping and Reporting Requirements for the MON RTR - Year 2**

Burden Item	(A) Number of Occurrences Per Year	(B) Technical Hours Per Occurrence	(C) Tech Hours Per Year (C=A x B)	(D) Management Hours Per Year (D = C x 0.05)	(E) Clerical Hours Per Year (E = C x 0.1)	(F) Total Hours Per Year (C+D+E)	(G) Total Cost Per Year	Footnotes
1. Applications	not applicable							
2. Read and Understand Rule Requirements	0	24	0	0	0	0	\$0	
3. Required Activities								
A. Observe stack tests	4	16	64	3	6	74	\$3,418	
B. Excess emissions -- Enforcement Activities	0	24	0	0	0	0	\$0	
C. Create Information	not applicable							
D. Gather Information	not applicable							
E. Report Reviews								
1. Review notification of compliance status								
a. Flares	7	2	14	1	1	16	\$748	
b. PRDs	67	2	134	7	13	154	\$7,156	
c. Process Vents & Tanks	4	2	8	0	1	9	\$427	
d. Eq. Leaks	8	2	16	1	2	18	\$854	
2. Review periodic reports								
a. Flares	14	2	28	1	3	32	\$1,495	
b. PRDs	134	2	268	13	27	308	\$14,311	
c. Maintenance Vents	134	2	268	13	27	308	\$14,311	
d. Bypass Lines	134	2	268	13	27	308	\$14,311	
e. HEX El Paso Method	134	2	268	13	27	308	\$14,311	
f. Process Vents & Tanks	8	2	16	1	2	18	\$854	
g. Eq. Leaks	16	2	32	2	3	37	\$1,709	
3. Review flare management plan	0	5	0	0	0	0	\$0	
F. Prepare annual summary report	1	10	10	1	1	12	\$534	
4. Travel expenses: (1 person * 30 hours per year / 8 hours per day * \$75 per diem) + (\$600 per round trip) =				\$881	per trip		\$3,525	
<b>TOTAL</b>			1394	70	139	1603	\$77,965	

Footnotes:

a Number of occurrences is the number of states and EPA Regions with affected sources (35 states + 10 EPA regions = 45 respondents).



**Table 7 - Annual Agency Burden and Cost of Recordkeeping and Reporting Requirements for the MON RTR - Year 3**

Burden Item	(A) Number of Occurrences Per Year	(B) Technical Hours Per Occurrence	(C) Tech Hours Per Year (C=A x B)	(D) Management Hours Per Year (D = C x 0.05)	(E) Clerical Hours Per Year (E = C x 0.1)	(F) Total Hours Per Year (C+D+E)	(G) Total Cost Per Year	Footnotes
1. Applications	not applicable							
2. Read and Understand Rule Requirements	0	24	0	0	0	0	\$0	
3. Required Activities								
A. Observe stack tests	0	16	0	0	0	0	\$0	
B. Excess emissions -- Enforcement Activities	0	24	0	0	0	0	\$0	
C. Create Information	not applicable							
D. Gather Information	not applicable							
E. Report Reviews								
1. Review notification of compliance status								
a. Flares	14	2	28	1	3	32	\$1,495	
b. PRDs	134	2	268	13	27	308	\$14,311	
c. Process Vents & Tanks	0	2	0	0	0	0	\$0	
d. Eq. Leaks	0	2	0	0	0	0	\$0	
2. Review periodic reports								
a. Flares	42	2	84	4	8	97	\$4,486	
b. PRDs	402	2	804	40	80	925	\$42,934	
c. Maintenance Vents	402	2	804	40	80	925	\$42,934	
d. Bypass Lines	402	2	804	40	80	925	\$42,934	
e. HEX El Paso Method	402	2	804	40	80	925	\$42,934	
f. Process Vents & Tanks	8	2	16	1	2	18	\$854	
g. Eq. Leaks	16	2	32	2	3	37	\$1,709	
3. Review flare management plan	0	5	0	0	0	0	\$0	
F. Prepare annual summary report	1	10	10	1	1	12	\$534	
4. Travel expenses: (1 person * 30 hours per year / 8 hours per day * \$75 per diem) + (\$600 per round trip) =				\$0	per trip		\$0	
<b>TOTAL</b>			3654	183	365	4202	\$195,124	

Footnotes:

a Number of occurrences is the number of states and EPA Regions with affected sources (35 states + 10 EPA regions = 45 respondents).

**Table 8 - Summary of Annual Agency Burden and Cost of Recordkeeping and Reporting Requirements for the MON RTR**

Year	Technical Hours	Management Hours	Clerical Hours	Total Hours	Labor Costs	Non-Labor Costs	Total Costs
1	1,195	60	120	1,374	\$63,813	\$0	\$63,813
2	1,394	70	139	1,603	\$77,965	\$0	\$77,965
3	3,654	183	365	4,202	\$195,124	\$0	\$195,124
Total	6,243	312	624	7,179	\$336,901	\$0	\$336,901
Average	2,081	104	208	2,393	\$112,300	\$0	\$112,300